

Selected Stakeholder slides Rough Collection

From Tom Gilb Collection

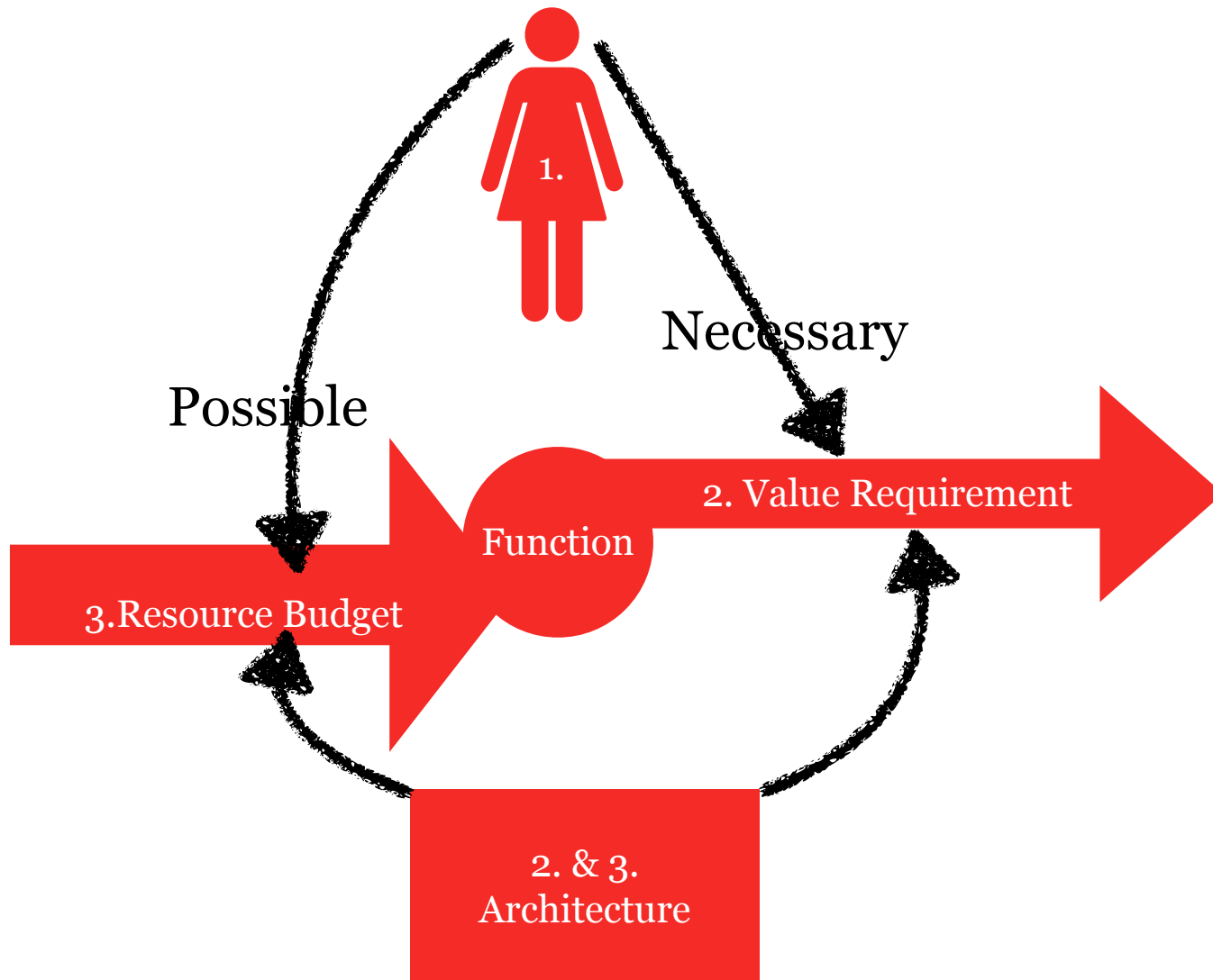
May 19 2018 added Poland Knowledge

MAY 5 2019 ADDED DATA ENGINEERING SLIDES FOR 6MAY

Oct 17 2019 added Loowatt 3 slides

6June 2020 added Stoughton's table from 2015

31Aug2020 added SEA stakeholder diagram



Key stakeholders

Primary user stakeholders

Incubation service owners

Service managers

Incubatees (subjects)

Mentors

Coaches

Access and analysis users

Service investors/funders

Sponsors

Grant providers

Non user beneficiaries

- Angel investors
- VCs

Other stakeholders

- Audiences
- Employees
- Potential employees
- Society
- Environment
- Development agencies
- Economy

Primary stakeholder values – working notes

Value Analysis incubators and accelerators

Stakeholders	Addressable concerns	Met by	Delivered by features	Financial impact	Quantifiable gain	Intangible impact	Concerns	Benefit
Service owners	Profitability/ occupancy	Proof of results over time	Audit trail	Potential higher return from pipeline of applicants	Calculable from business model	Confidence in the future	Concern of exposure outweighs visible success	Forecastable revenue stream
	Visible success	Transparent high performance	Pitch results	Shorter time to investment or commercialisation	Depends whether faster turnover delivers profits	Reputation	"	Higher numbers and quality of applicants
	Fears exposure for poor performance	Knowing where to improve	Gap analysis showing where help is needed	"	Lower failure rate repaid if service has shares	Reduced fear of exposure	"	Confidence in methods
Funders/sponsors/ grant providers	The long period before the value of donations is known	Leading indicators of success	Individual and aggregate incubatee assessments	(for service) continued willingness to donate (invest)	(for service) running costs assured	Confidence of continued involvement	Uncertainty about outcome resolved faster	Concern alleviated management time saved
	Tangible evidence of value from donation (or investment)	"	Audit trail	(for service) greater/new willingness to give (invest)	(for service) opportunity to increase funds and improve	Confidence that greater involvement will pay off	Commitment justified or reinforced	Emerging positive story to tell
	Six/seven year wait for results that may expose failure	"	Individual and aggregate incubatee assessments	(for service) continued willingness to donate (invest)	(for service) running costs assured	Confidence of continued involvement	Uncertainty about outcome resolved faster	Concern alleviated management time saved
Service Management	Evidence for performance/ contribution	Visible progress of individual and aggregate incubatees	Individual and aggregate incubatee assessments	Keeps job may earn bonus	Success bonus	Improved confidence in ability	Initial concern of exposure overcome by visible success	Respect of incubatees, confidence of owners
	Ways to improve poor incubatee performance	Knowing which mentor/coach can help	Gap analysis showing where help is needed	"	"	Ability to improve methods	Confident intervention	Respect of incubatees, confidence of owners
	Fears exposure for poor performance	Knowing where to improve	"	"	"	Ability to improve methods	"	Respect of incubatees, confidence of owners
Incubatees	Uncertain whether/how much progress they're making	Progressive proof of achievement	Assured optimal expert feedback and audit trail	Shorter time to investment or commercialisation	Depends on business model and time to market	Confidence that the team is on track	Sense of achievement fostering a will to succeed	Faster commercialisation
	Not knowing where their shortfall in knowledge lies	Clarity about which topics and abilities to work on	Gap analysis showing where help is needed	"	"	Confidence they are addressing the right issues	Sense of learning and growing	"
	Concern that mentors and coaches are too specialist	Knowing that mentors are focusing on their weak skills	Gap analysis showing where help is needed	"	"	Confidence they are receiving the appropriate	"	"
Mentors/coaches	Knowing of the limited scope of individual experience	Synthesising coherent advice from multiple perspectives	Audit trail	More focused use of time	Freed up hours for more productive week	Increased assurance of adding value		Freed up hours for more productive week
	Objectively prioritising the most significant shortfalls	Recent reference data indicating problem areas	"	"	"	"		"
	Knowing when the incubatee has absorbed the lesson	Recent data that shows high performance	"	"	"	"		"

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Stakeholder Analysis of Value Entities (SAVE. !)

IS AI
ng for x

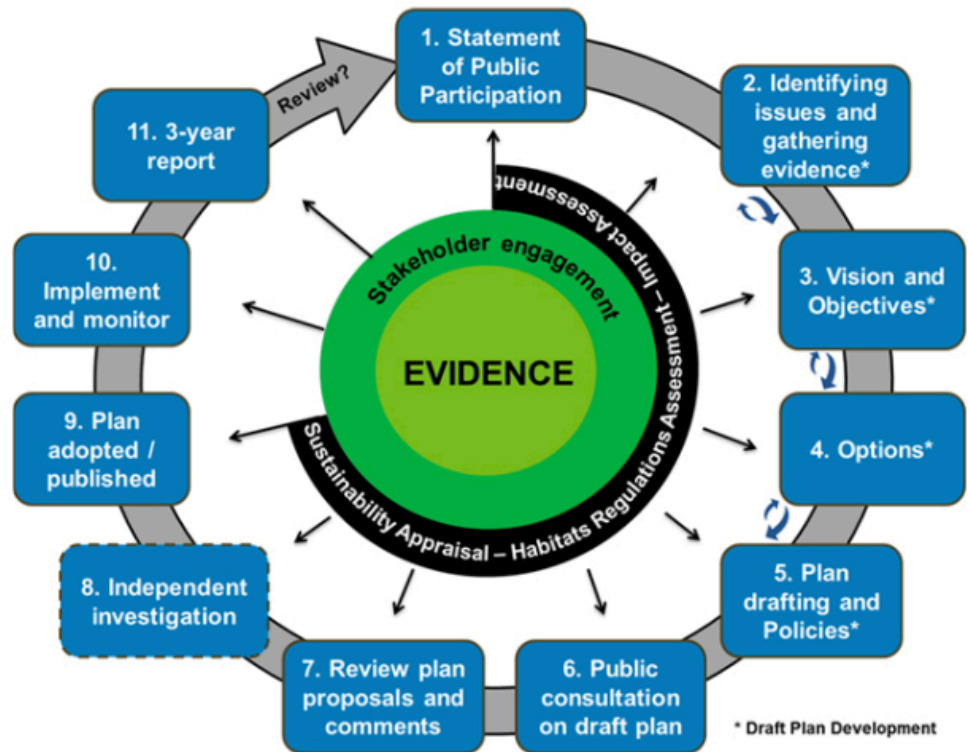
Top 10 stakeholder requirements

1. Library of attributes by domain and context of use to assemble customised rubrics
2. Full scalability of rubric and attribute generation
3. Quality (clarity) of distinctions between scoring levels
4. Minimally distracting interface
5. Scores given by different user groups comparable
6. Gap between assessor and subject score clearly distinguished
7. Real time display refresh
8. Equally usable on all input devices
9. Audit trails maintained
10. Anonymised aggregate results by cohort analysable over time

8. STAKEHOLDER MAPPING:

formal specification of acknowledged stakeholders and their acknowledged values is not complete enough, public enough, and connected explicitly enough to the plan.

we cannot easily see which stakeholders have been ignored
we cannot see which stakeholder concerns have been included, and considered.



Stakeholder <-> Value Digital relation. Covid-19 Planning

2. Stakeholder Level

Stakeholders

- Emergency Response Services
- Fastlege Your Doctor
- FHI Folkehelse Institutt
- Food
- Health Minister**
- Hospitals
- Inhabitants
- Maintenance
- Medical Companies
- Research Institutions
- Schools
 - High School

Values and Resources

- Capital Cost In Million NOK
- Collect Information
- Days To Implement
- Education
- Equipment Capacity
- Funding**
- Get People Where They Ne
- Healthy Employees
- Manpower
- Monitor Epidemic**
- Public Information**
- Research Information

The Planning Object: The Stakeholder Spec, being built up



Health Minister

Level: Stakeholder, **Status:** Not Determined **Type:** Stakeholder

Edit

Summary:

Description:

Link to existing...

Link to new...

Specification

Roles

To:



Funding

Select a Stakeholder Rol

To:



Monitor ...

Select a Stakeholder Rol

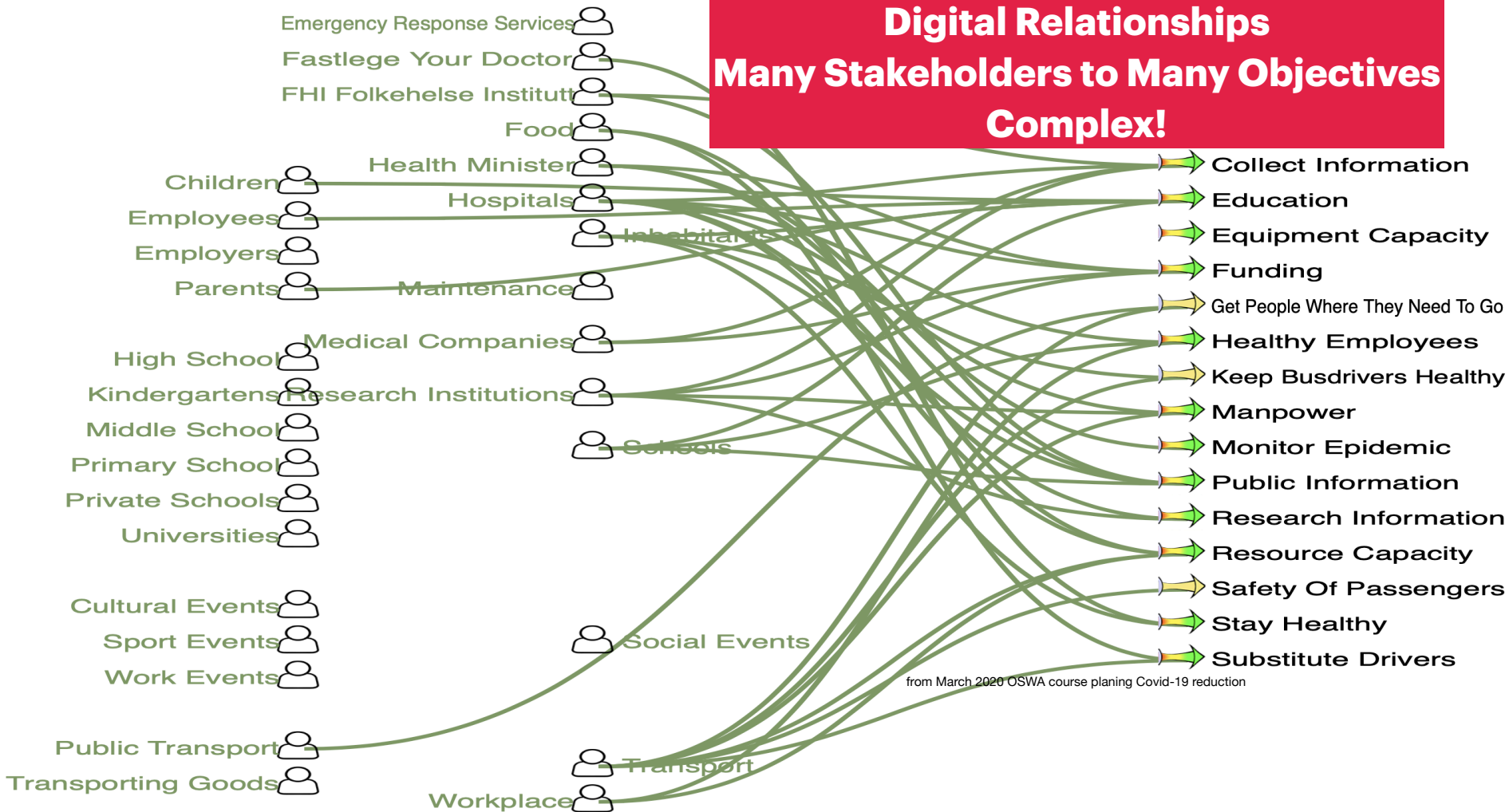
To:



Public I...

× Decision Maker

Digital Relationships Many Stakeholders to Many Objectives Complex!



Stakeholder <-> Value Digital relation. Covid-19 Planning

2.Stakeholder Level [ValPlan.net](https://valplan.net)

Stakeholders

- Emergency Response Services
- Fastlege Your Doctor
- FHI Folkehelse Institutt
- Food
- Health Minister**
- Hospitals
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Select a Stakeholder
See all digital relations

Health Minister

Level: Stakeholder, Status: Not Determined Type: Stakeholder

Edit

Summary:

Description:

Link to existing... Link to new...

Specification

To:	Roles
Funding	Select a Stakeholder Role
Monitor ...	Select a Stakeholder Role
Public I...	Decision Maker

March 2020 OSWA, Oslo, course planning Covid-19 reduction

Stakeholder <-> Value Digital relation. Covid-19 Planning

2.Stakeholder Level [ValPlan.net](https://valplan.net) 'Canvas'

Stakeholders

- Emergency Response Services
- Fastlege Your Doctor
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Values and Resources

- Capital Cost In Million NOK
- Collect Information
- Days To Implement
- Education
- Equipment Capacity
- Funding**
- Get People Where They Need
- Healthy Employees
- Manpower
- Monitor Epidemic
- Public Information
- Research Information

Select a Stakeholder or See all

Health Minister

Level: Stakeholder, Status: Not Determined Type: Stakeholder

Edit

Summary:

Description:

Link to existing... Link to new...

Specification

To: Funding

To: Monitor ...

To: Public I...

Roles

Select a Stakeholder Role

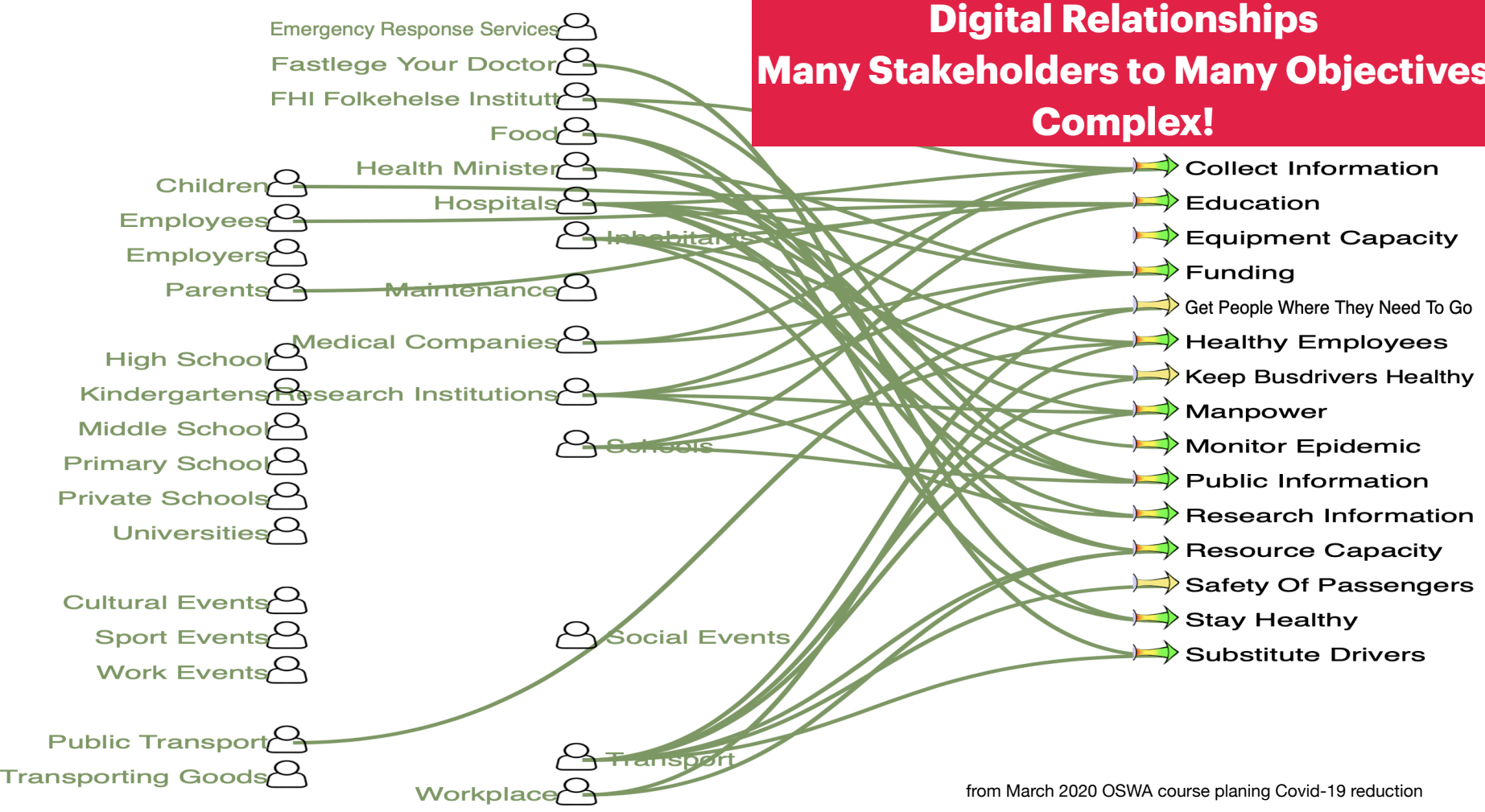
Select a Stakeholder Role

× Decision Maker

Digital Relationships

Many Stakeholders to Many Objectives

Complex!



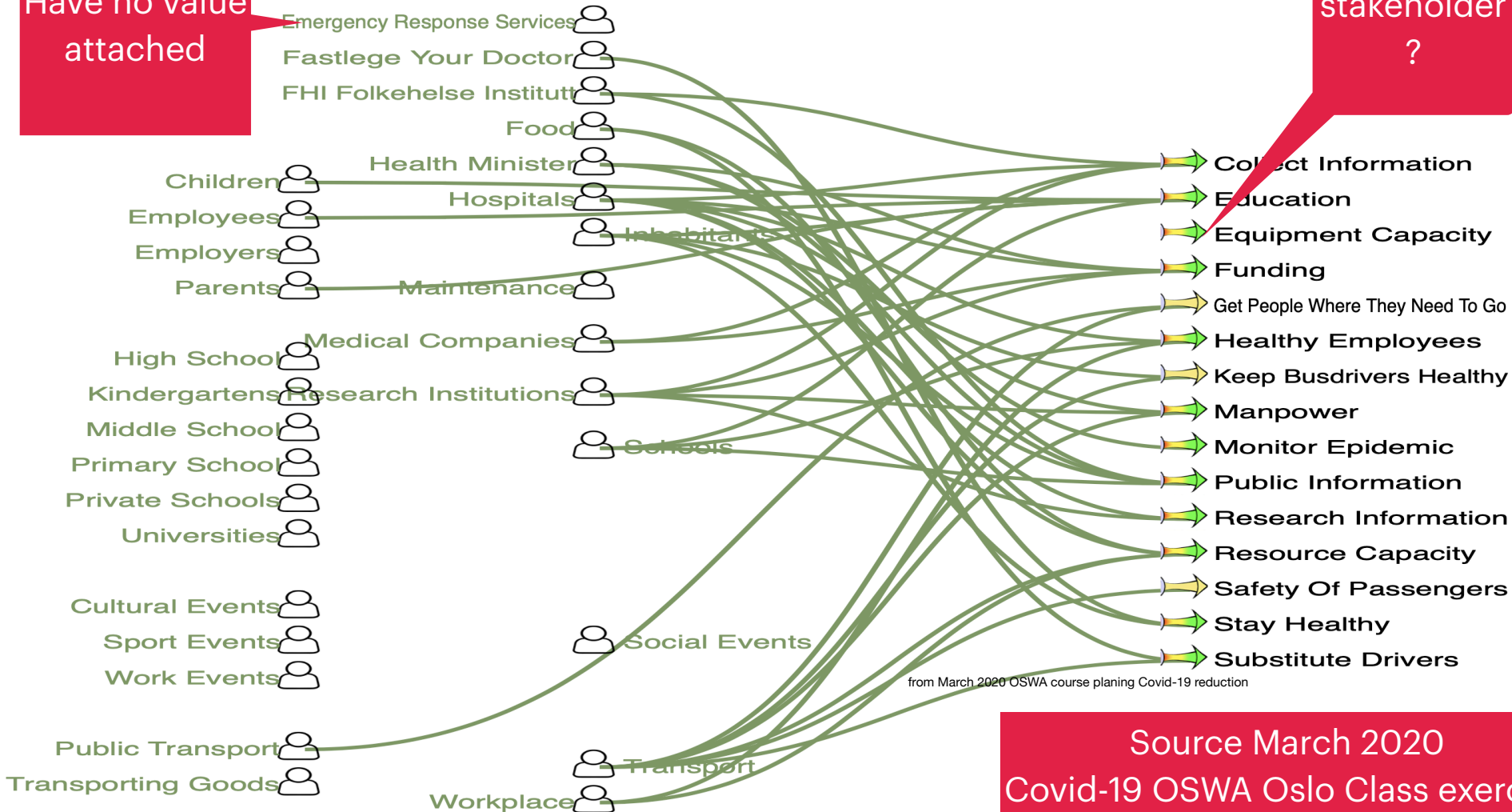
from March 2020 OSHA course planning Covid-19 reduction

Digital Relationships

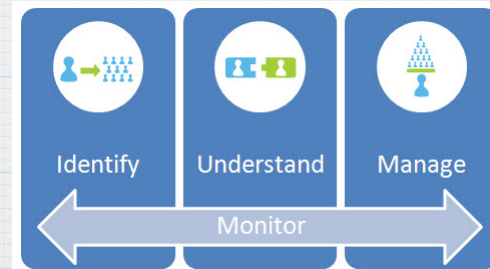
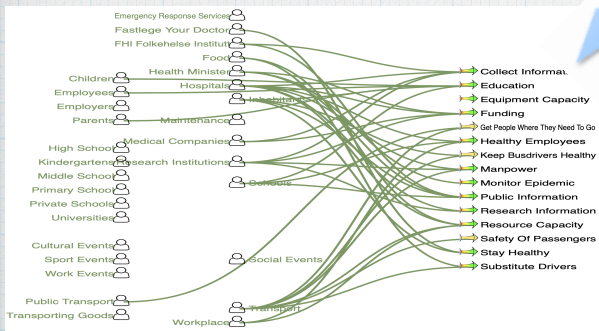
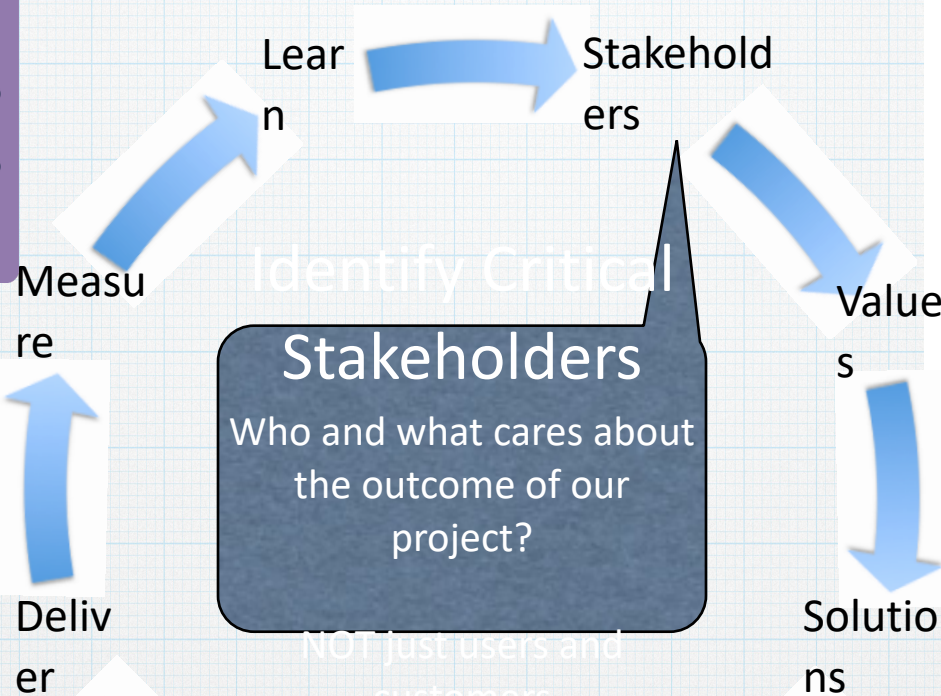
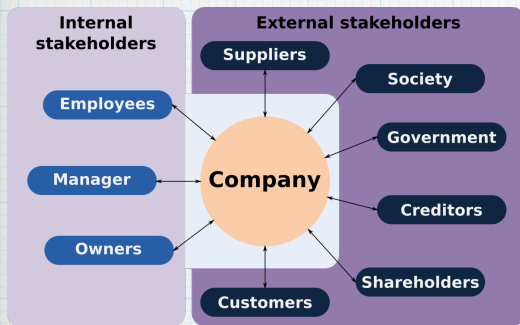
Many Stakeholders to Many Objectives Complex!

Why does this Stakeholder Have no value attached

Why no stakeholder ?



Source March 2020
Covid-19 OSWA Oslo Class exerc



5 Main Ideas

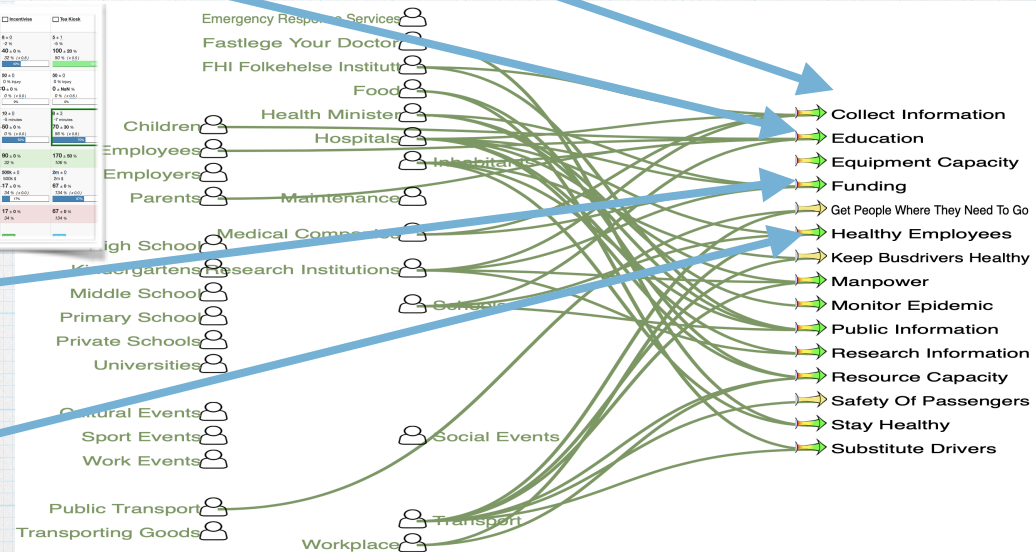
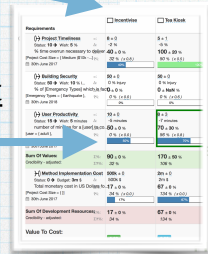
1. Stakeholders determine critical values

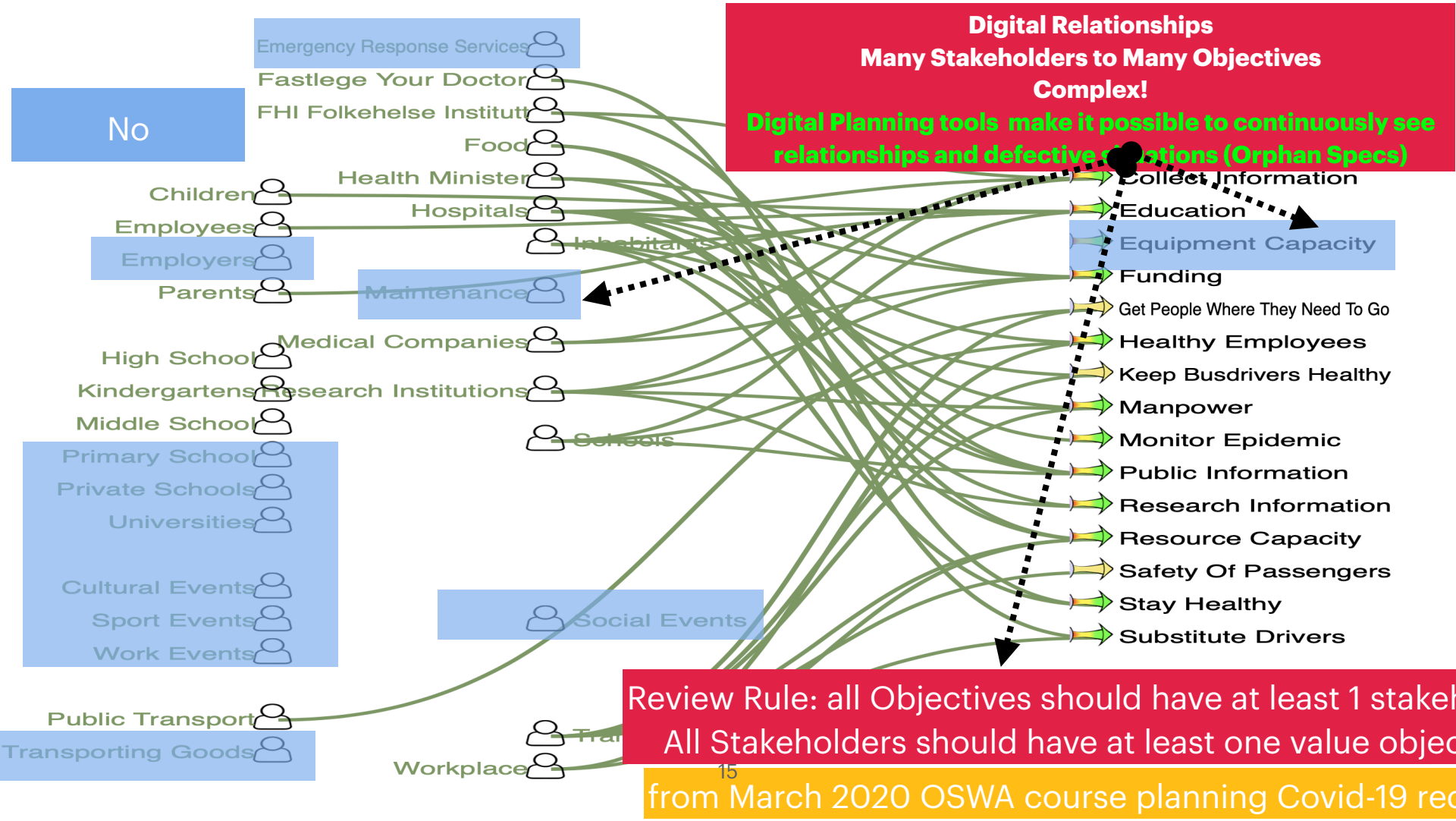
2. All critical values can be expressed as quantitatively as you do time or money

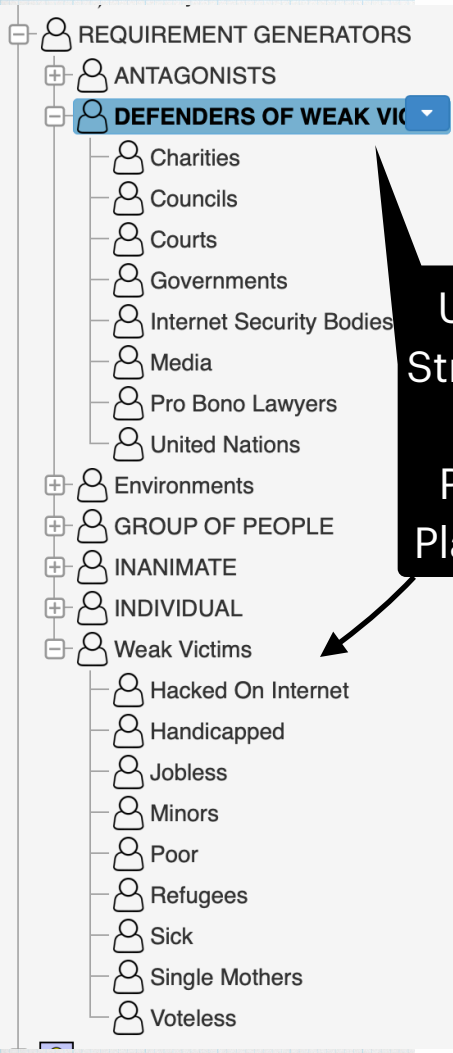
3. All strategies for delivering values can be estimated and measured for value and cost impacts.

5. Contracting can be based on real incremental delivery of useful value improvements

7. Motivation and responsibility can be value driven





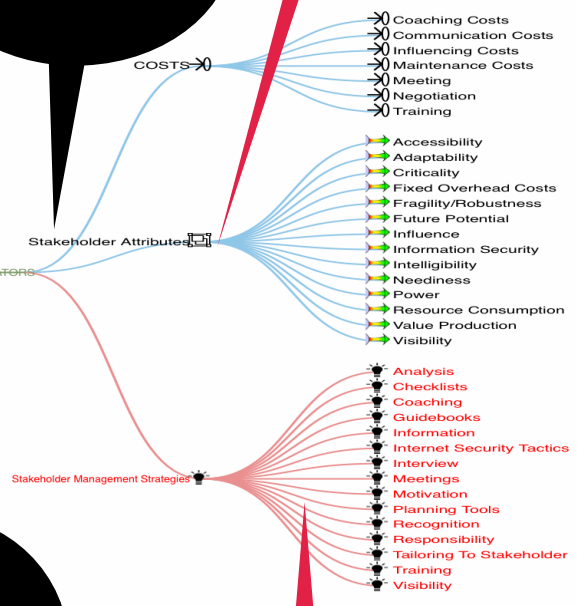


Useful
Structure
For
Public
Planning



Typical
Stakeholder
Checklist

Stakeholder
Attributes



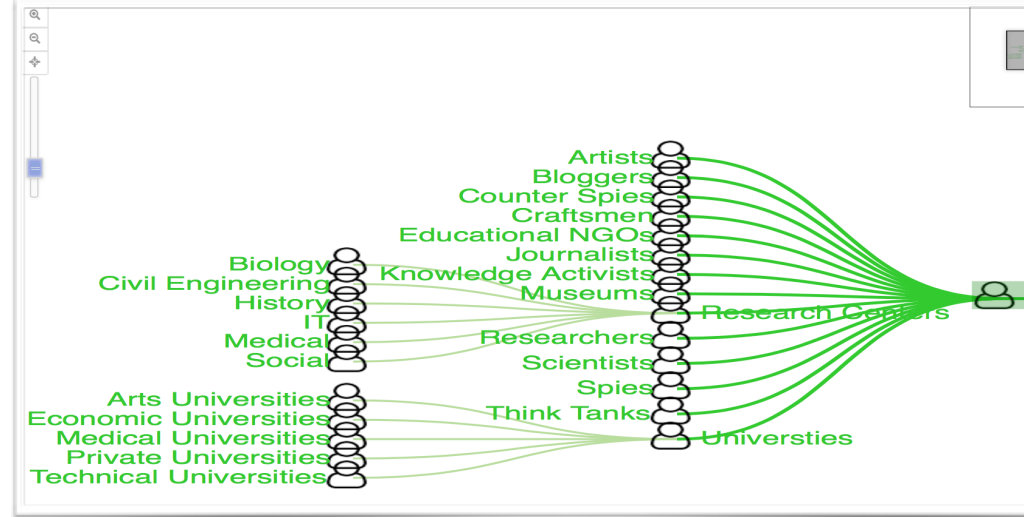
Values of Power
For
Your stakeholders

Strategies
For
Managing
Your stakeholders

Ten Stakeholder Principles

Stakeholders determine and give priority to their values. Our planning can prioritise them, or not, depending on higher priorities and limited resources

1. Some stakeholders are more critical to your system than others.
2. Some stakeholder needs are more critical to your system than others.
3. Stakeholders are undisciplined: they may not know all their needs, or know them precisely, or know their value. But they can be analyzed, coached, and helped to get the best possible deal.
4. Stakeholders may be inaccessible, unwilling, inanimate, oppositional, and worse: but we need to deal with them intelligently.
5. Stakeholders might well ask for the wrong thing, a 'means' rather than their real 'ends'. But they can be guided to understand that. Or their requests can be interpreted in their own real best interests.
6. Stakeholders do not want to wait years, get delays, invest shitloads of money, and then little or no value. They want as much 'value improvement' of their current situation, as they can get, as fast as they can get it. For as little cost as possible,
7. Stakeholders cannot have any realistic idea of what their needs and demands will cost to satisfy. So their adopted requirements need to be based on value for costs, not on value alone. Delivering small increments, based on high value-to-cost, is one smart way to deal with this.
8. If you think you have found 'all critical stakeholders', I think you should assume there is at least one more, and when you find that one, They will emerge, and they are not all there at the beginning.
9. If you think you have found all critical needs of a stakeholder, there will always be at least one more need hiding.
10. If you do not understand, and act on the principles below; you will blame your failure on 'system complexity', and the unexpected and wicked problems. But in reality it is your own fault and responsibility; deal with it - up front and constantly.



Spreading
Knowledge in Poland
Masterclass Project
May 2018
Katowice

Impact assessment table	Purpose: to assess the current and future commercial importance of stakeholders in a value network.		Current importance is impacted by the introduction of new technology.		Notes	
Stakeholder	Stakeholder type		Current importance of stakeholder in value network	Future importance of stakeholder on introduction of new technology	Propensity of stakeholder to change from current to future role in the value network	The scores in this tables are represented by the thickness of the connections between the stakeholders in the value network. The connections are shown in a value network map generated by uploading these two worksheets to kumu.io
Label	Type	Description	Current importance	Future importance	Propensity to change	The headings of the columns in this row are required for the upload to kumu.io

Standards organisation	Certifier	
eTailer	Retailer	
Brand owner manufacturer	Brand	
Content processor	Production factory	
Advertising agencies	Cooms	
Distributor	Distributor	
Design agency	Agency	
Health and safety regulator	Certifier	
Content packager	Service provider	
Competitors with different standard	Competitor	
Our brand owner	Parent company	
Equipment manufacturer	Supplier	
Government	Government	
Bulk buyer	Customer	
Factory	Production factory	
Materials processor	Operations	
Producer factory	Production factory	
Media buyers	Communications	
Parts supplier	Supplier	
Supplier	Supplier	
Consumers	Consumer	
Materials recycler	Service provider	
Consumer influence group	Influencer	
Maintenance services	Service provider	
Despatcher	Operations	
Competitors with same standard	Competitor	
Retail brand	Retailer	
Complementary service	Supplier	
Design managers	Operations	

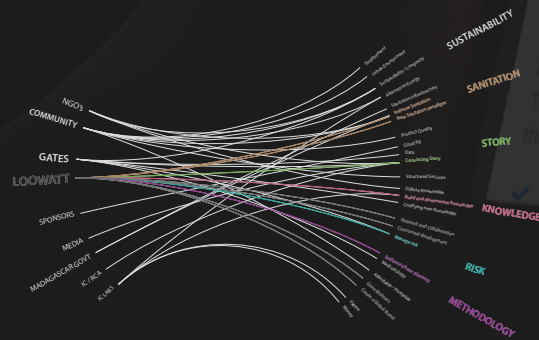
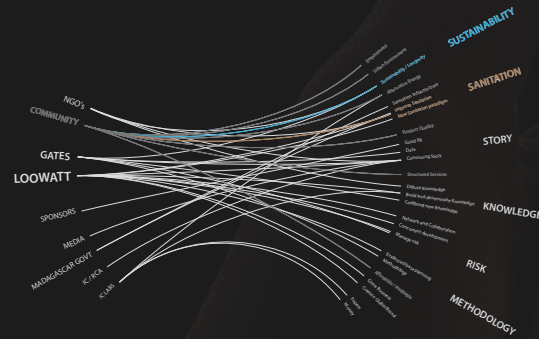
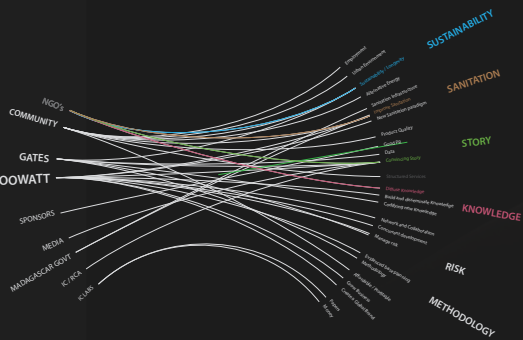
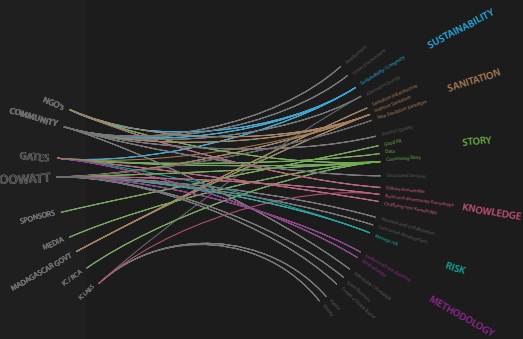
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Label	Type	Description	Current importance	Future importance	Propensity to change	The headings of the columns in this row are required for the upload to kumu.io
Standards organisation	Certifier		4	4	1	Scoring
eTailer	Retailer		2	3	5	5 = very high importance
Brand owner manufacturer	Brand		5	4	3	4 = high importance
Content processor	Production factory		5	5	4	3 = medium importance
Advertising agencies	Cooms		3	4	4	2 = low importance
Distributor	Distributor		2	3	3	1 = very low importance
Design agency	Agency		2	4	4	The double space between Design and agency in cell A9 inserts a return so the Label appears on two lines in the kumu map.
Health and safety regulator	Certifier		5	5	2	
Content packager	Service provider		5	5	2	

Designers	Communications	4	3	4
Independent retail outlet	Retailer	2	3	3
Content producer	Supplier	1	3	4
Automation services	Supplier	3	4	3
Materials supplier	Supplier	2	3	2
Toxic disposal agent	Service provider	2	3	3
Private label	Brand	3	4	5
Quality inspector	Certifier	2	3	4
Brand sales reps	Sales	3	2	4
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authors: Nick Coultas and David Stoughton		nick.coultas@aximode.com	david.stoughton@aximode.com	
				
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This license allows you to download our work and share it with others as long as you credit us, but you can't change it in any way or use this work commercially without our permission.				

File Source =
Stakeholder value
network impact tables
310315

LOOWATT STAKEHOLDER KEY VALUES

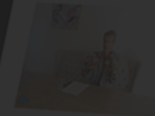
Stakeholder Values, Product Values,
Functions, Solution Constraints, Levels,
Quantification, Measurements.



Virginia Gardiner - CEO

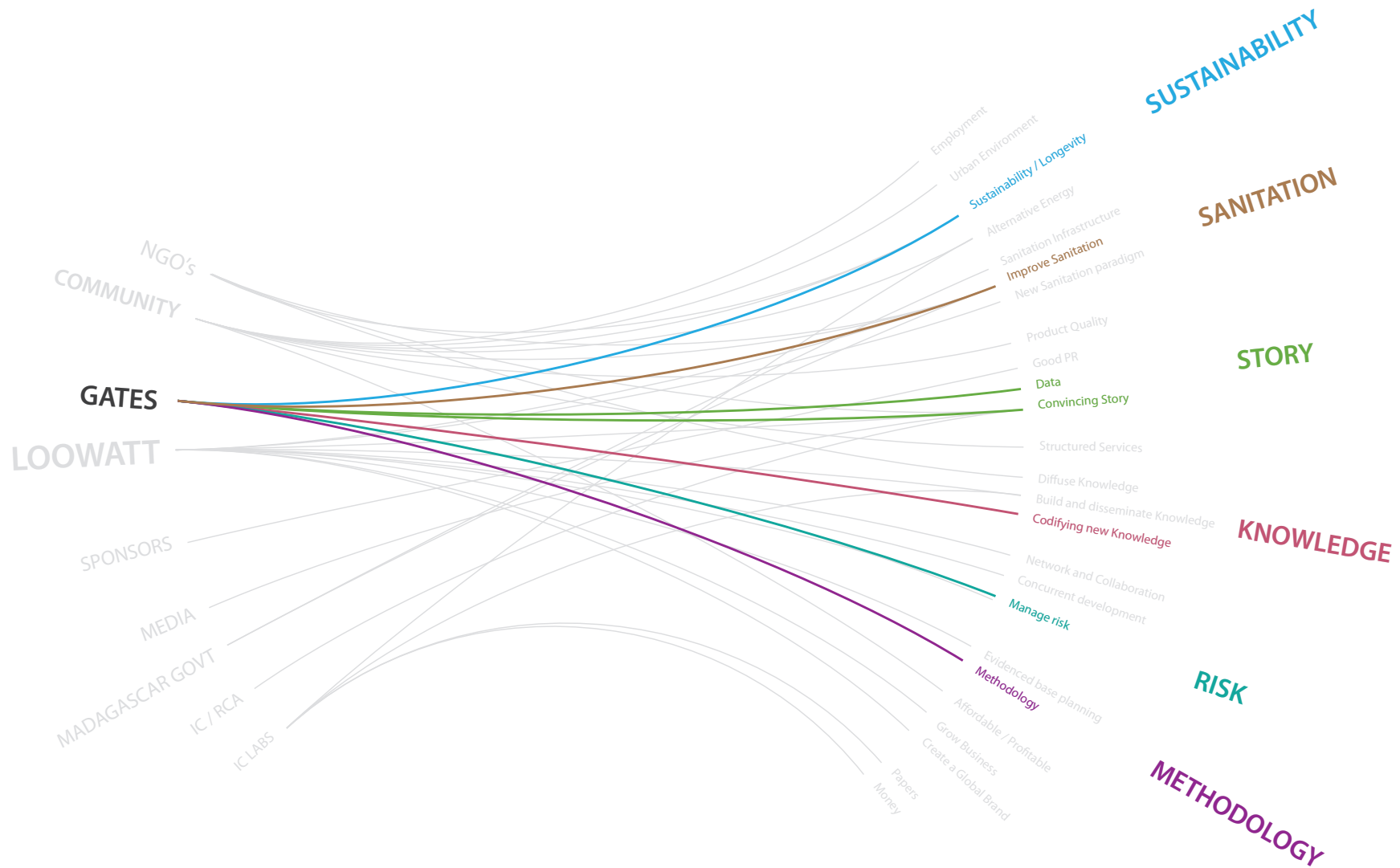
Stakeholder Values, Product Values,
Functions, Solution Constraints, Levels,
Quantification, Measurements.

Introduction



Welcome to the Training

I'm so happy you are here in this workshop.
There is a whole world
that are s...

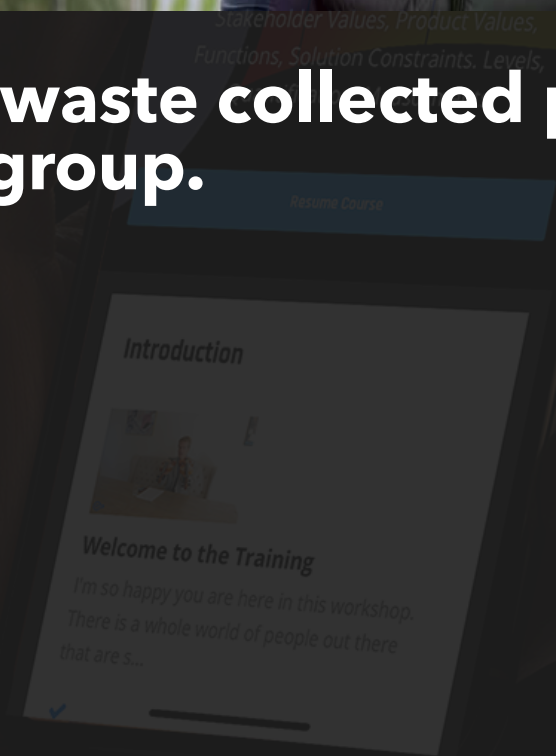
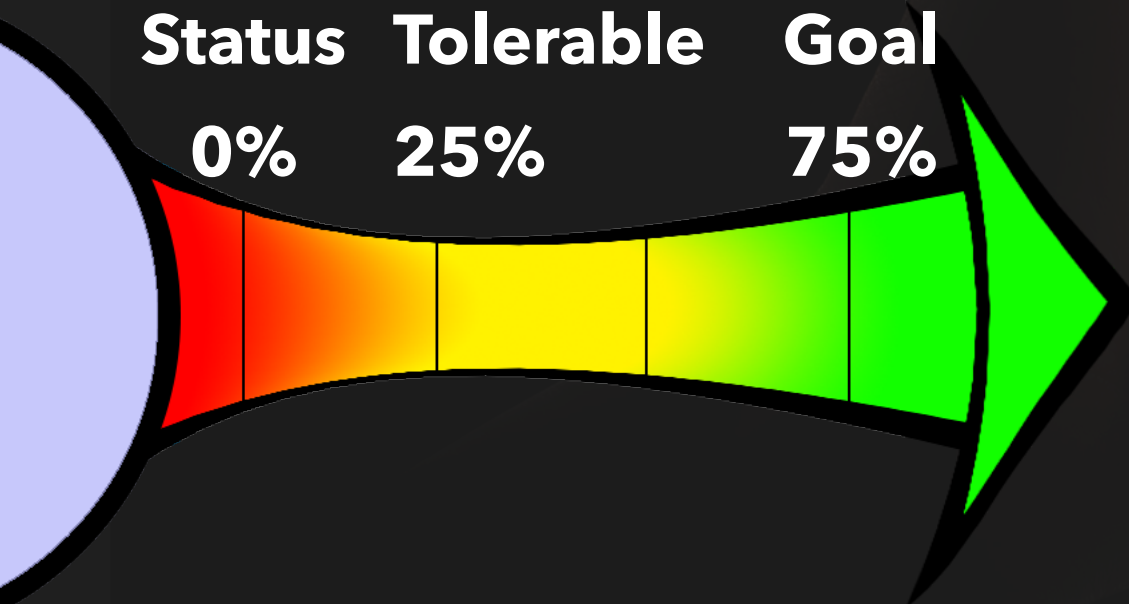




Value: Sanitation

Scale: Proportion of expected waste collected per given period of time per user group.

Status	Tolerable	Goal
0%	25%	75%



7. Understanding data engineering stakeholders as a source of requirements.

Definition

A stakeholder is any person, group or object, which has some direct or indirect interest in a defined system.

Stakeholders can exercise control over both the immediate system operational characteristics, as well as over long-term system lifecycle considerations (such as portability, lifecycle costs, environmental considerations, and decommissioning of the system). [4]

Notice:

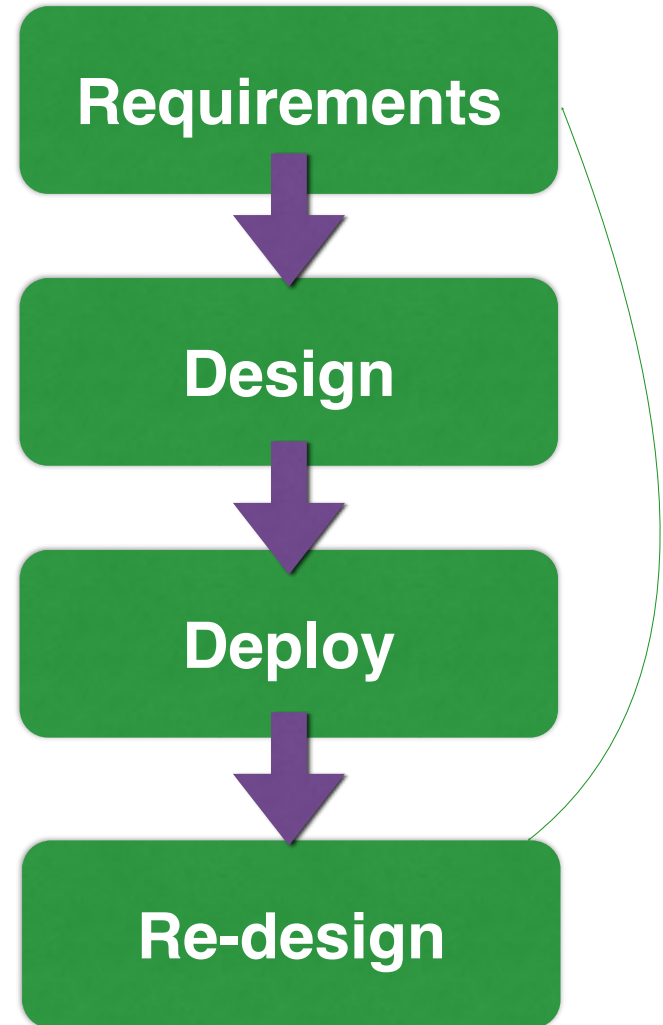
‘or object’.

This includes laws, regulations, plans, policies, customs, culture, standards. Inanimate. you cannot ask them or discuss with them. But you can analyze them, their priority, the degree of relevance. They can determine if your system is illegal, or acceptable. Determine success or failure.



The Basic Design Steps Logic: a summary

1. **Environment Scope** helps identify stakeholders.
2. **Stakeholders** have values and priorities
3. **Values** have many dimensions
4. **Stakeholders** determine value levels
5. **Design hypotheses** should be powerful and efficient ideas, for satisfying stakeholder needs
6. **Design hypotheses** can be evaluated quantitatively, with respect to all quantified objectives and resources
7. **Designs** can be decomposed, to find more efficient design subsets, that can be implemented early
8. **Designs** can be implemented sequentially, and their value-delivery, and resource costs, measured
9. **Designs** that unexpectedly threaten achievement of objectives, or excessive use of resources, can be removed or modified.
10. **Designs** that have the best set of effects on objectives, for the least consumption of limited resources, should generally be selected for early implementation.
11. A design increment can have unacceptable results, in combination with previous increments, and they, or it, might need removal or modification
12. When all objectives are reached, the process of design is complete: except for possible optimization of operational resources, by even-better design.
13. When deadlined and budgeted implementation-resources are used up, it might be reasonable to negotiate additional resources; especially if the incremental values are worth the additional resources.
14. When deadlined and budgeted implementation-resources are used up, it might be reasonable to negotiate additional resources; especially if the incremental values are worth the additional resources.



Gilb's Stakeholder Principles.

1. Some stakeholders are more critical to your system than others.
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9. If you think you have found all critical *needs* of a stakeholder, there will always be *at least one more* need 'hiding'.
10. If you do not understand, and act on the principles above; you might blame your failure on 'system complexity', and the unexpected and wicked problems. But in reality, it is your own fault and responsibility; deal with it - up front and constantly.

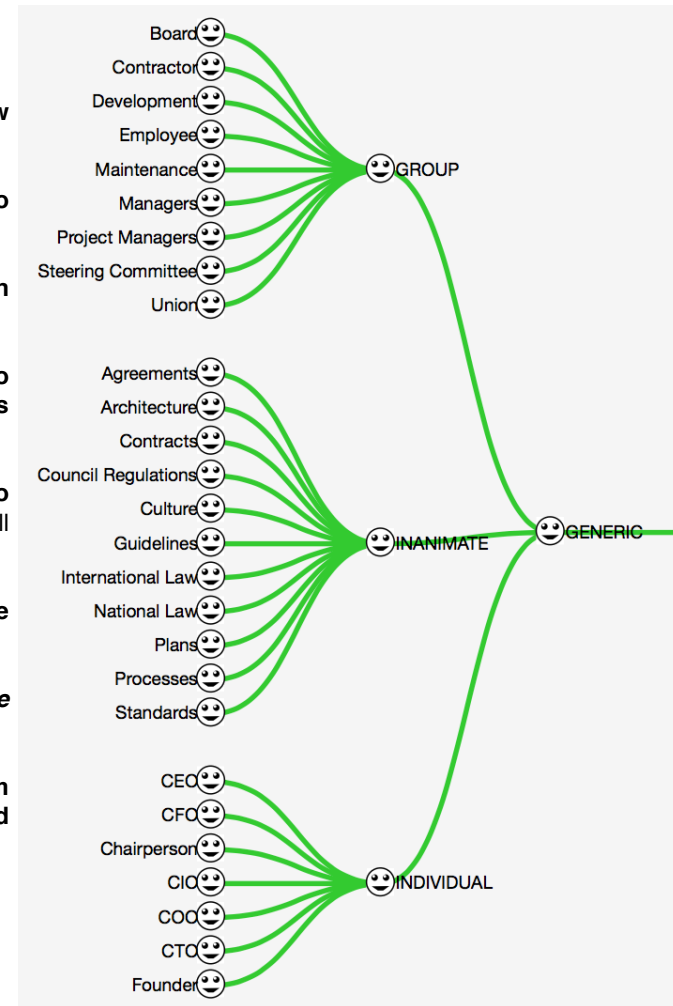
•SOURCE, 2016 Paper

"Stakeholder Power: The Key to Project Failure or Success"

including 10 Stakeholder Principles

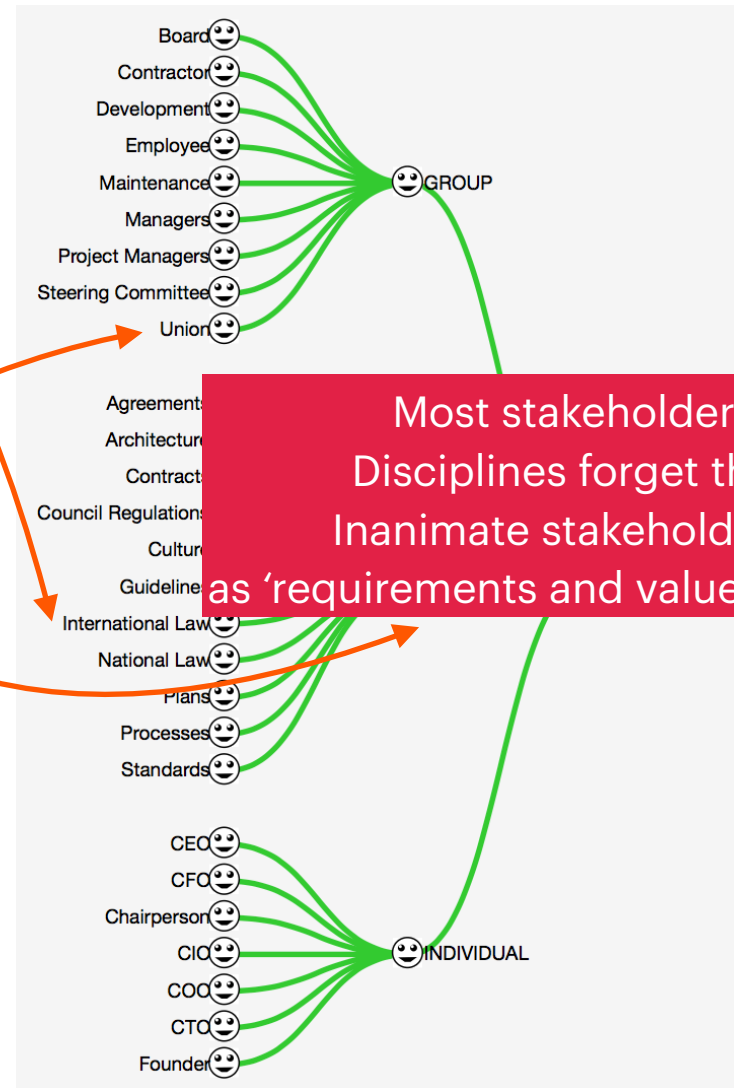
<http://concepts.gilb.com/dl880> (COPY FEB 2017)

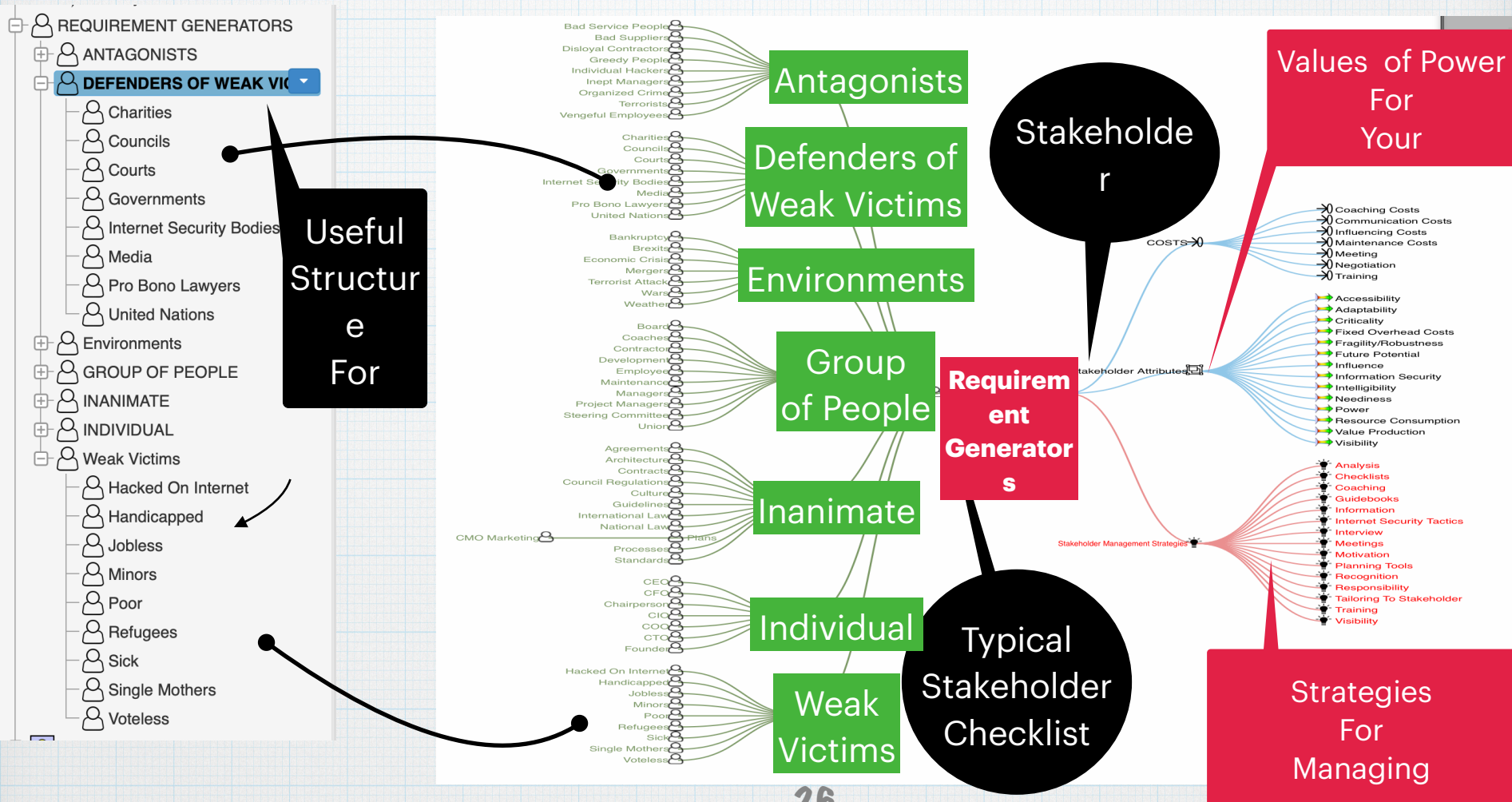
<http://concepts.gilb.com/dl872> (FEB 2016)



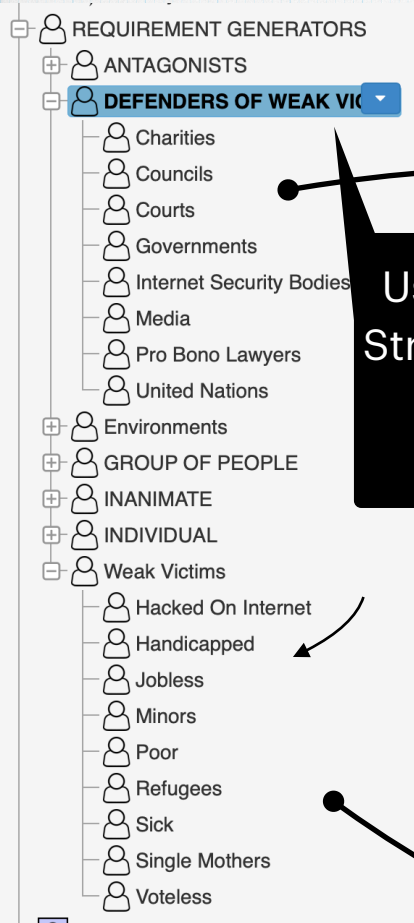
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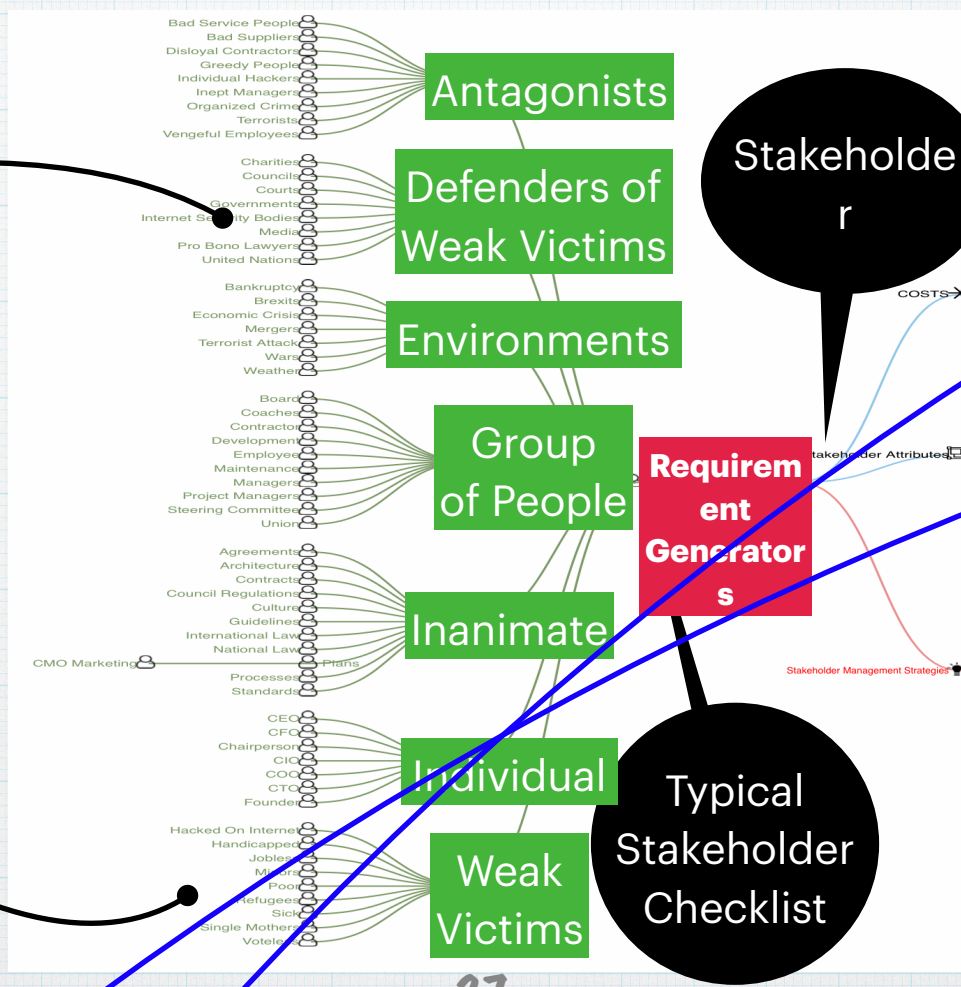




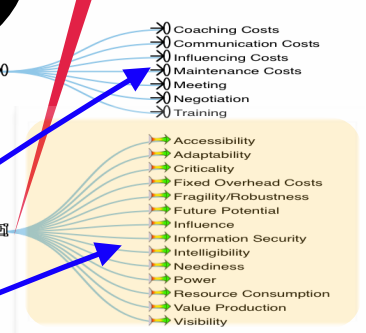
Stakeholder Types: a much richer picture than 'Users'



Useful
Structure
For



Values of Power
For
Your



Strategies
For
Managing

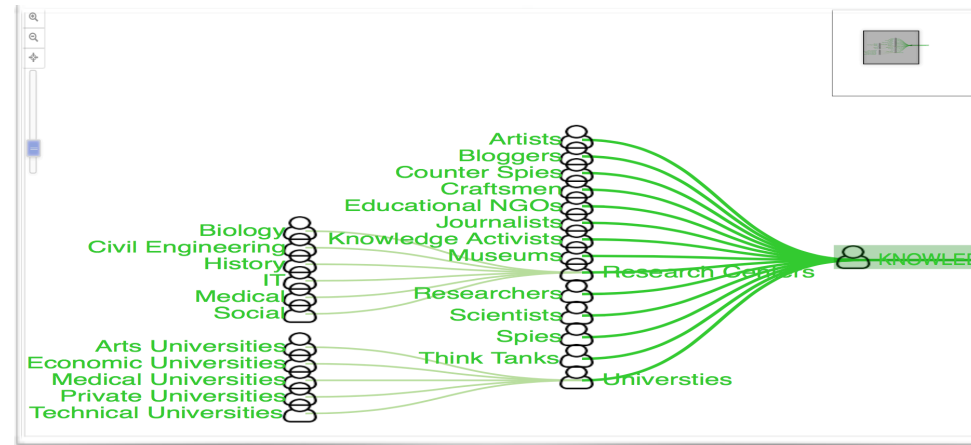
Stakeholders each possess a set of attributes and costs. These are valued by the project sponsors, and give priority to the stakeholder

Ten Stakeholder Principles

Stakeholders determine and give priority to their values.
Our planning can prioritise them, or not, depending on higher priorities

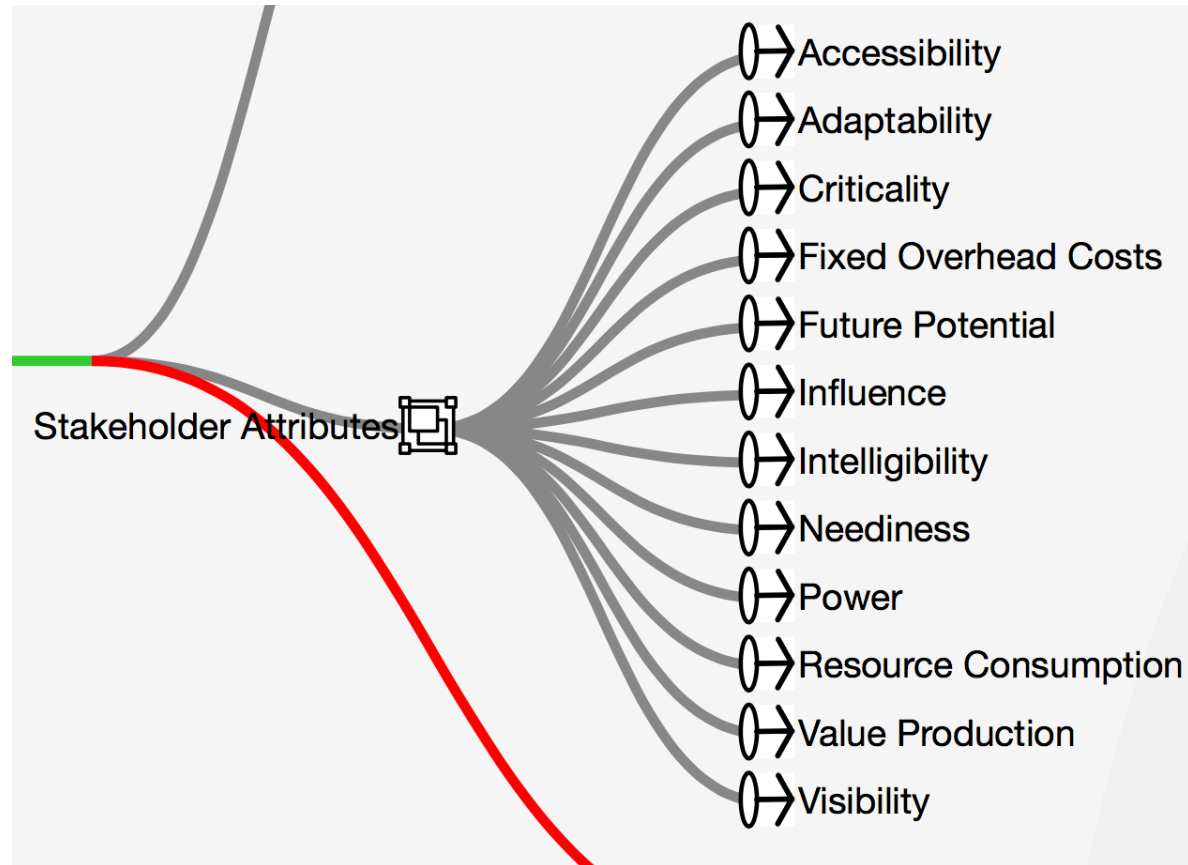
1. Some stakeholders are *more critical* to your system than others.
2. Some stakeholder needs are *more critical* to your system than others.
3. Stakeholders are *undisciplined*: they may not know all their needs, or know them precisely, or know their value. But they can be analyzed, coached, and helped to get the best possible deal.
4. Stakeholders may be *inaccessible*, unwilling, inanimate, oppositional, and worse: but we need to deal with them intelligently.
5. Stakeholders might well ask for the *wrong thing*, a '*means*' rather than their real 'ends'. But they can be guided to understand that. Or their requests can be interpreted in their own real best interests.
6. Stakeholders do *not want to wait years, get delays, invest shitloads of money, and then little or no value*. They want as much 'value improvement' of their current situation, as they can get, as fast as they can get it. For as little cost as possible,
7. Stakeholders *cannot have any realistic idea of* what their needs and demands will *cost to satisfy*. So their adopted (by you) requirements need to be based on *value for costs*, not on value alone. Delivering small increments, based on high value-to-cost, is one smart way to deal with this.
8. If you think you have found 'all critical stakeholders', I think you should assume there is *at least one more*, and when you find that one, They will emerge, and they are not all there at the beginning.
9. If you think you have found all critical needs of a stakeholder, there will *always be at least one more need*, hiding.
10. If you do not understand, and act on the principles above; you will blame your failure on 'system complexity', and the unexpected and wicked problems. But in reality it is *your own fault* and responsibility; deal with it - up front and constantly.

Spreading
Knowledge in Poland
Masterclass Project
May 2018
Katowice

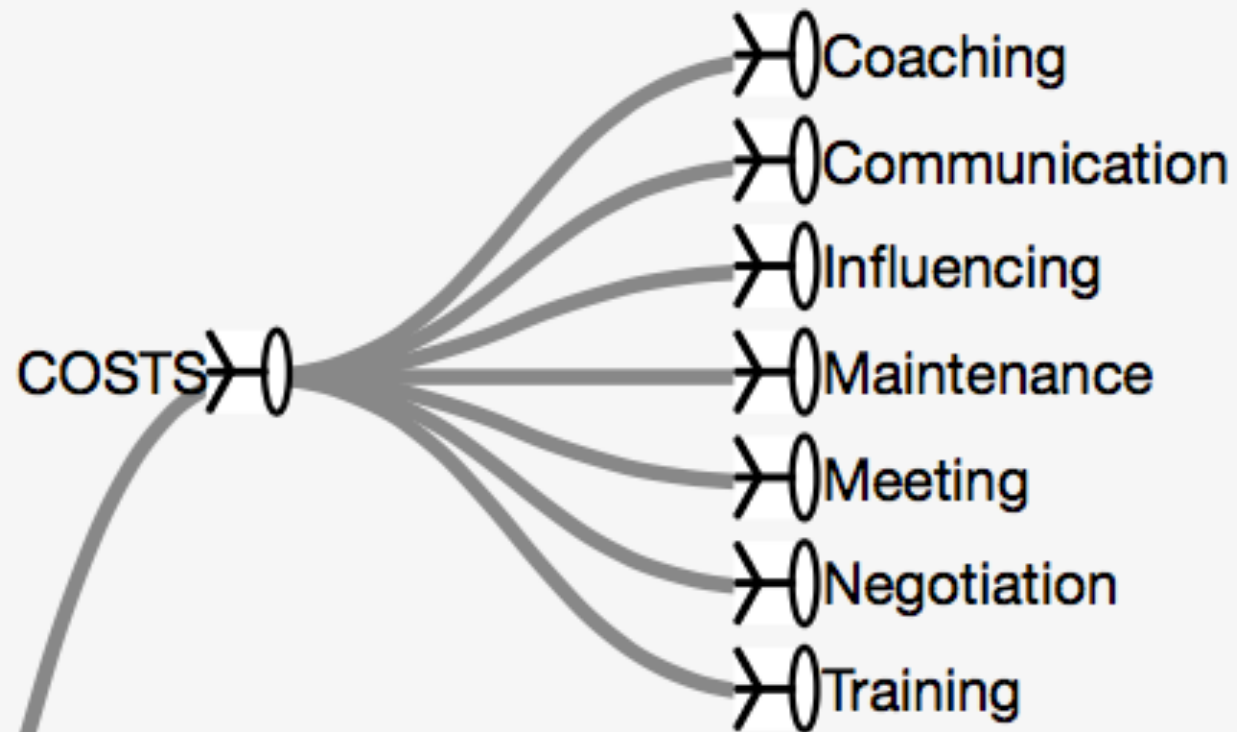


Stakeholder Attributes

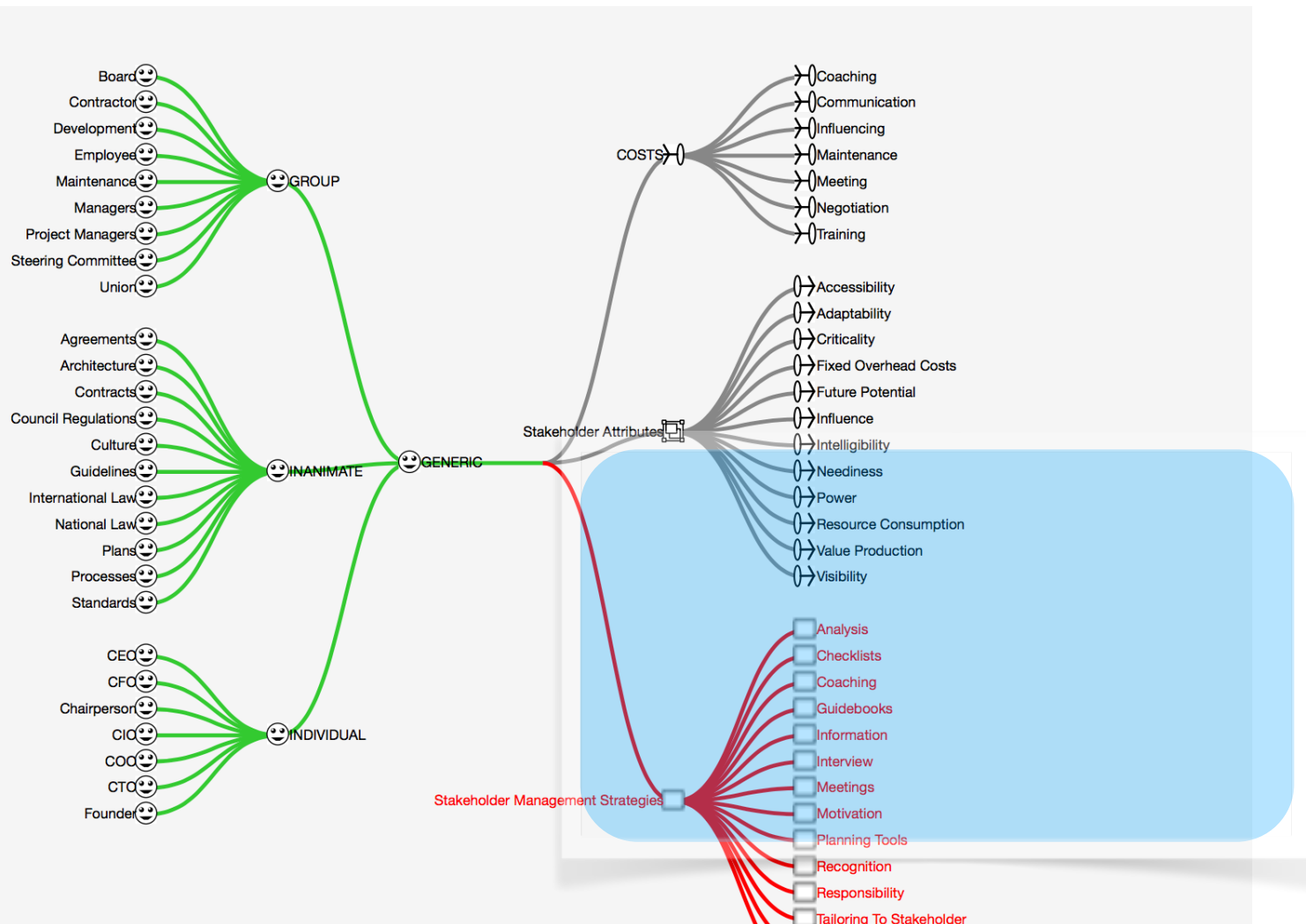
- Some attributes of stakeholders
- which can be defined in more detail,
- and can be quantified
- status estimated
- and potentially *improved*



Stakeholder Costs



Adding Strategies for Improving Stakeholder Attributes



Stakeholder Value And Strategy Table

Settings...

+ Add ▾

↔ Sort ▾

📄 Duplicate...

Δ: INCREMENTAL

Show Sidebar

		<input type="checkbox"/> Analysis	<input type="checkbox"/> Checklists	<input type="checkbox"/> Coaching	<input type="checkbox"/> Guidebooks	<input type="checkbox"/> Information	<input type="checkbox"/> Interview	<input type="checkbox"/> Meetings	<input type="checkbox"/> Motivation	<input type="checkbox"/> Planning Tools
Requirements										
<div>➞ Accessibility</div> <div>Status: 0 ➞ Wish: 0</div>	<div>Δ:</div> <div>Δ%:</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>
<div>➞ Adaptability</div> <div>Status: 0 ➞ Wish: 0</div>	<div>Δ:</div> <div>Δ%:</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>
<div>➞ Criticality</div> <div>Status: 0 ➞ Wish: 0</div>	<div>Δ:</div> <div>Δ%:</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>
<div>➞ Fixed Overhead Costs</div> <div>Status: 0 ➞ Wish: 0</div>	<div>Δ:</div> <div>Δ%:</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>
<div>➞ Future Potential</div> <div>Status: 0 ➞ Wish: 0</div>	<div>Δ:</div> <div>Δ%:</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>
<div>➞ Influence</div> <div>Status: 0 ➞ Wish: 0</div>	<div>Δ:</div> <div>Δ%:</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>
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<div>➞ Neediness</div> <div>Past: 0 ➞ Goal: 0</div>	<div>Δ:</div> <div>Δ%:</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>
<div>➞ Power</div> <div>Status: 0 ➞ Wish: 0</div>	<div>Δ:</div> <div>Δ%:</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>
<div>➞ Resource Consumption</div> <div>Status: 0 ➞ Wish: 0</div>	<div>Δ:</div> <div>Δ%:</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>	<div>????</div> <div>0 %</div>

Stakeholder Ends and Means

the ???? signifies that we did not yet estimate the effectiveness of the ideas for getting better

Analysis

Level? Solution Idea Label?

(by - 20 minutes ago)

Permalink

Row:	0.0.1
Col:	
Scale:	

Click inside an ir

Is Part Of: Stakeholder Management Strategies

Summary: Serious analysis of individual stakeholder types so we can have best possible relations

Description: Change...

(by tomgilb - 2 minutes ago) 3

D1. CONVENIENCE: Determine best times and best ways to communicate with stakeholders, and to get decisions. Document this in the stakeholder object in these plans. Make sure responsible spec owners are aware of and use these possibilities.

D2. VALUE LEVELS: Determine the top 5 at least critical needs of each stakeholder type, and each major stakeholder variation (Scale Parameters). Both short term and longer term. Make estimate of the long term value of reaching suggested Goal levels

D3. Communicate, with stakeholder representatives permission, all plan changes that they are a stakeholder to, to at least the Representative Stakeholder.

D4. PLAN ACCESS: Give read access, and change incident access to stakeholder representatives who want it, to the plans.

D5. CONTINUOUS CRITICISM: Create a digital stakeholder steering committee to give advice on all aspects of the plan and the project. They will have access to plans and changes, and ability to both log remarks in a common place in the plan, in comments in particular specs, to communicate with Spec Owners, and to email key named participants and managers or committees.

D6. WARNINGS: Stakeholders have the right, under their signature, in a Comment related to any aspect of the plan, at any time to remark on anything they want; but especially on predicted negative consequences of that part of the plan. The idea is that nobody can suppress such opinions. We encourage it. And it is clear and official that they did try to warn people, perhaps named peopler, who have the right to a Comment Answer, and who cannot deny that these warnings were made.

Source:

tom gilb, trying to give a reasonably good example of deep and powerful strategic planning.

‘Accessibility’ defined quantitatively



Accessibility

Level? Value Label?

 [Permalink](#)

0.0.1

(by - an hour ago)

Is Part Of: [Stakeholder Attributes](#)

Ambition Level: we want to access the stakeholder insights, opinions and needs as soon as possible, same day would be great

Scale: Days from defined [Need] by a type of [Stakeholder] until we have a defined [Information] correct to a defined [Place]

Stakeholders: 0

Status: Level: 7 Days to Get Info [Need = { <All> }, Stakeholder = { Critical }, Information = { Changed Stakeholder Authority }, Place = { Digital Planning S...}

Wish: Level: 1 Days to Get Info [Need = { <All> }, Stakeholder = { Critical }, Information = { Changed Stakeholder Authority }, Place = { Digital Planning S...}

‘Adaptability’ Value defined

➔ Adaptability

[Permalink](#)

0.0.1

Level? Value Label?

(by - an hour ago)

Is Part Of: [Stakeholder Attributes](#)

Ambition Level: give a high degree of stakeholder ability to respond to planning changes, both in seeing consequences, reviewing the..

Scale: % capability for a [Stakeholder Class] to correctly and within 5 minutes of effort do a defined [Stakeholder Action]

Stakeholders: Architecture, Managers, Project Managers, Steering Committee, Union

Status: Level: **30** % Quick Actions [Stakeholder Class = { <All> }, Stakeholder Action = { <All> }] When 24th June 2017

Wish: Level: **90** % Quick Actions [Stakeholder Class = { <All> }, Stakeholder Action = { <All> }] When 24th June 2017



Stakeholder Value And Strategy Table

Settings... Add Sort Duplicate... Δ: INCREMENTAL

		<input type="checkbox"/> Analysis	<input type="checkbox"/> Checklists	<input type="checkbox"/> Coaching	<input type="checkbox"/> Guidebooks	<input type="checkbox"/> Information	<input type="checkbox"/> Interview	<input type="checkbox"/> Meetings	<input type="checkbox"/> Mot
Requirements									
↳ Accessibility	Δ: -6	????	????	????	????	????	????	????	????
Status: 7 → Wish: 1 Days to Get	Δ%: 100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
↳ Adaptability	Δ: 20	????	????	????	????	????	????	????	????
Status: 30 → Wish: 90 % Quick Action	Δ%: 0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
↳ Criticality	Δ: ????	????	????	????	????	????	????	????	????
Status: 0 → Wish: 0	Δ%: 0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
↳ Fixed Overhead Costs	Δ: ????	????	????	????	????	????	????	????	???
Status: 0 → Wish: 0	Δ%: 0 %								
↳ Future Potential	Δ: ??								
Status: 0 → Wish: 0	Δ%: 0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	%
↳ Influence	Δ: ????	????	????	????	????	????	????	????	????
Status: 0 → Wish: 0	Δ%: 0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
↳ Intelligibility	Δ: ????	????	????	????	????	????	????	????	????
Status: 0 → Wish: 0	Δ%: 0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
↳ Neediness	Δ: ????	????	????	????	????	????	????	????	????
Past: 0 → Goal: 0	Δ%: 0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

Known Unknowns

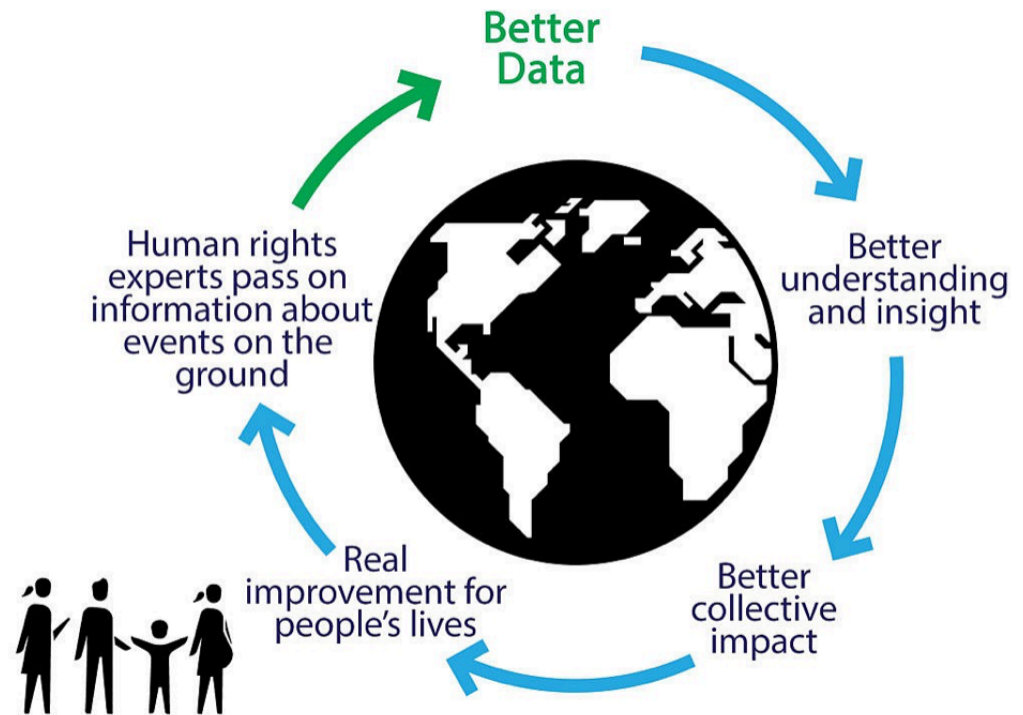
Critical = {Stakeholders, Requirements}

- prioritization tactic
- **Critical Factor Concept *036**
 - A critical factor is an attribute level or condition in a system,
 - which can on its own,
 - determine the success or failure of the system
 - under specified conditions.
- We prioritize critical factors like critical stakeholders and their critical requirements
 - until all are satisfied
 - then we should probably stop

Stakeholder Rights

- Stakeholders should have the

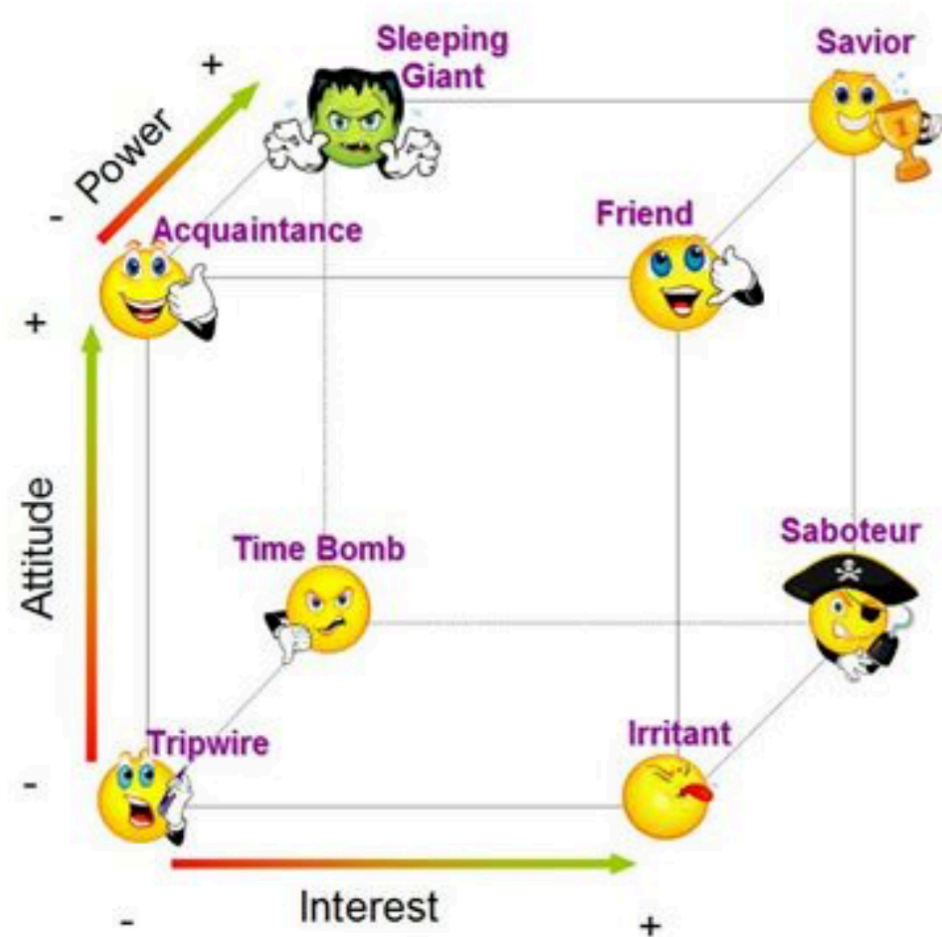
- **Right to have a voice**
- **Right to be consulted**
- **Right to be warned**
- **Right to suggest**
- **Right to review**
- **Right to measure**
- **Right to complain**
- **Right to be informed**
- **Right to change their mind**
- **Right to understand costs**
- **Right to understand value/resources**
- **Right to understand risks**
- **Right to set their priorities**



<https://humanrightsmmeasurement.org/methodology/measuring-civil-political-rights/>

Stakeholder Power in 3D

- Stakeholder power is *rarely absolute*
- Stakeholder power needs to be balanced with all other stakeholders
- Stakeholder power will vary through time
- Stakeholder power is less relevant when their needs are satisfied



<https://www.brighthubpm.com/project-planning/23481-stakeholder-analysis-spheres-of-influence/>

Stakeholder Ethics

- Stakeholders will have highly varied ethics, and motivations
- We can influence stakeholder ethics by a variety of actions



Problem 7. **PUBLIC ACCESS:** the plans need to be accessible by the press and public, online, in detail.

Access to the details and background?

not just announced as 'here is our strategy'. But
with detailed systematic information as to the
background, and justifications for suggesting such
strategies.

- Some form or summary of most public plans is generally published, and web available to the public.
- The problem is that there is probably a lot of detailed plan detail, and incremental change history which is NOT digitally available.
- And there is rarely any direct reference to its existence
- The problem being that
 - We cannot get the details, to understand the summaries
 - We cannot see the process, or the reasoning, which led to the published plans.

Covert Schools

Stakeholder Stakeholder Empty (by giv 0.0.1

Is Stakeholder Of: Educational Safety Value Affordability Of Education

Stakeholder Value

Summary: Change...

Groups of learners and teachers that are in danger when found to be in a locally una those prevented from attending schooling by family members.

Source:

Malala - the girl who was shot for going to school
<http://www.bbc.com/news/magazine-24379018>

Acid attacks, poison: What Afghan girls risk by going to school
<http://edition.cnn.com/2014/08/08/asia/afghanistan-girls-school/index.html>


https://www.unicef.org/somalia/SOM_resources_situationalanalysissummary.pdf

<http://reliefweb.int/report/afghanistan/2014/08/20140808-afghanistan-girls-school>

https://www.unicef.org/somalia/SOM_resources_situationalanalysissummary.pdf

<http://www.theverge.com/2015/2/11/8014563/bill-gates-education-future-of-online-courses-third-world>

Stakeholder Deeper



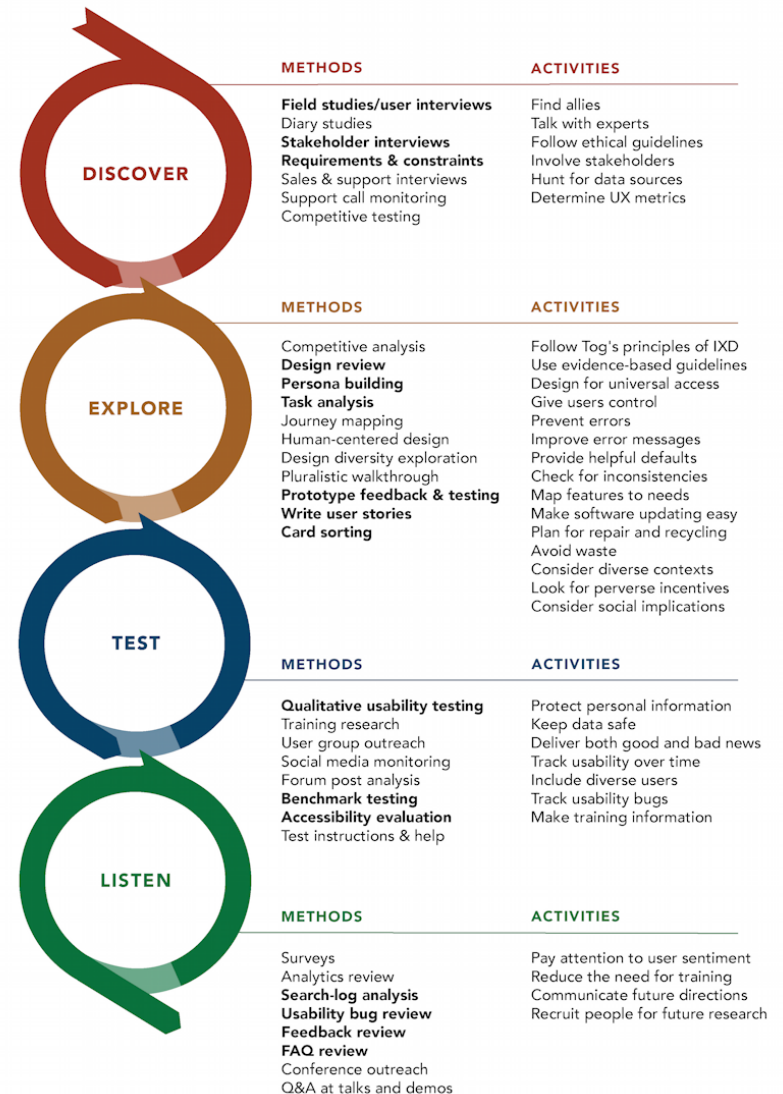
Here is a small sample of the kind of detail
We could be missing, if the entire planning
is not made available to the public
From a digital database.

41 In this case we have a formally defined
stakeholder,
not just their name, and a set of URL links to go
deeper into the
Background of that stakeholder.

Stakeholder Feedback Types

- Stakeholders have a variety of ways to feedback, react, and influence the process
- gradual measurement of value delivered versus value expected
- complaints
- ‘Sensemaker’TM feedback

UX ACTIVITIES IN THE PRODUCT & SERVICE DESIGN CYCLE



Defining a list of stakeholders which are related to an Objective

Educational Safety

Stakeholder Value Empty

(by gilbguest4 - 22 days ago)

Permalink
0.0.1

Is Part Of: TOP CRITICAL OBJECTIVES Value

Ambition Level: All children should be able to attend education in complete safety.

Scale: Number of [Educational Participants] in a [Region] registered as victims of [Assault] due to their [Engagement] in some form of [Edu..

Status: Level: 185000 Persons per year [Educational Participants = <All>, Region = Afghanistan, Assault = <All>, Engagement = Physical, Education = Hi..

Wish: Level: 100000 Persons per year [Educational Participants = <All>, Region = Afghanistan, Assault = <All>, Engagement = Physical, Education = High..

Stakeholders: Change...

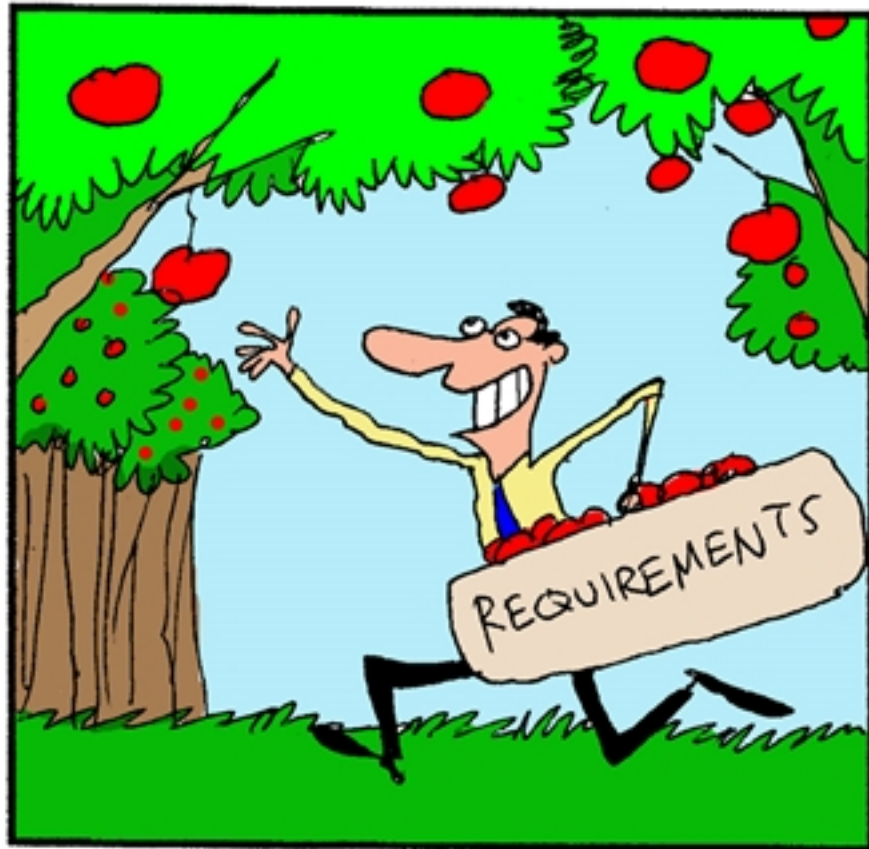
(by gilbguest4 - 23 days ago) 0

+ Link to Stakeholder

Tag	Actions
Covert Schools	
Internet Based Community Group	

Enter additional stakeholder information

How stakeholders think requirement gathering works.



How requirement gathering really works.





*"I told you not to challenge the
biggest stakeholder."*

<https://www.pinterest.com/pin/528117493779293767/>

Managing and Engaging Project Stakeholders (A Collective Responsibility)



A chain is acknowledgeably only as strong as its weakest link. Deficiencies within an otherwise good stakeholder management and engagement system at one or more interfacing points may result in potentially serious consequences for the project.

Managing and engaging stakeholders is NOT a „centralized“ responsibility entrusted to a single or few entities, such as the project sponsor, manager, team members or consultants.

It is a shared collective responsibility: All stakeholders must manage and engage each other over the project life-cycle.









ThisIsWhyImBroke










Werewolf Vampire Zombie Killing Kit




3.7 ★★★★★ (8) · \$39.99*




The Scale definition, scale 'parameters' - give additional information regarding stakeholders: such as where, when, which type, under what circumstances





Educational Safety



Stakeholder  Value  **Empty** 

(by gilbguest4 - 22 days ago)

0.0,1 

Permalink 

Is Part Of: **TOP CRITICAL OBJECTIVES** 

Ambition Level: (by gilbguest4 - 22 days ago)  0 

All children should be able to attend education in complete safety.

Source:



<https://childrenandarmedconflict.un.org/countries-caac/afghanistan/>

<http://www.unwomen.org/en/what-we-do/ending-violence-against-women/facts-and-figures>

https://www.unicef.org/esaro/7310_Gender_and_education.html

<http://theirworld.org/news/10-countries-where-girls-education-has-been-attacked>

http://www.ungei.org/srsgbv/files/Study_on_Violence_Against_Schoolgirls_final.pdf

Scale: (by gilbguest4 - 22 days ago)  0 

Number of **[Educational Participants]** in a **[Region]** registered as victims of **[Assault]** due to their **[Engagement]** in some form of **[Education]**.

Short Description: Persons per year, **Time Units:** Year

Assault: defined as:
Killed, Physical assault

Education: defined as:
Preschool, High School, University

Educational Participants: defined as:
Teacher, Student

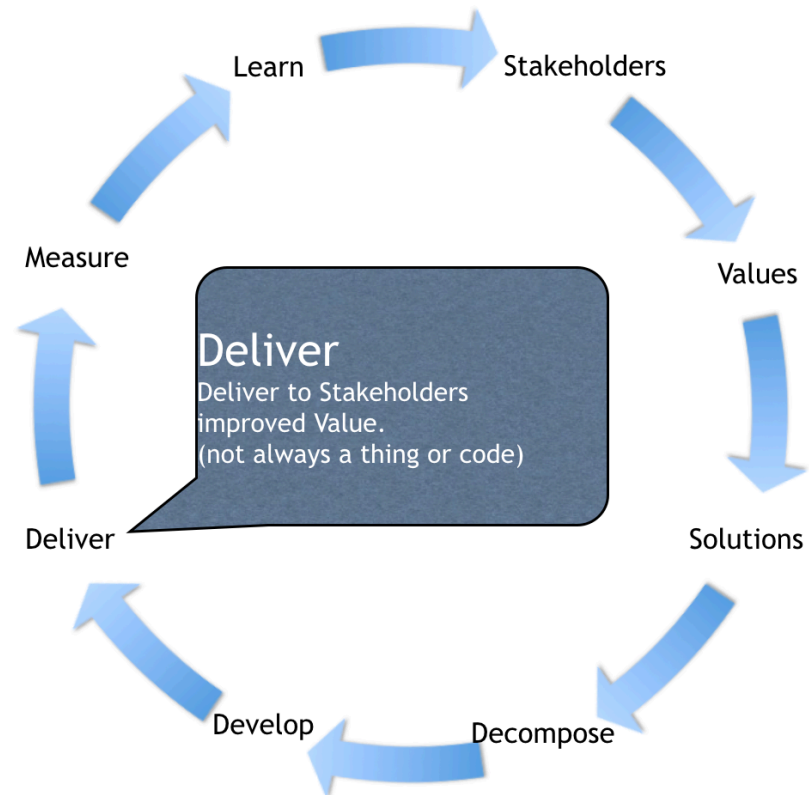
Engagement: defined as:
Physical, Virtual

1 of 2 selected, 20,43 GB available

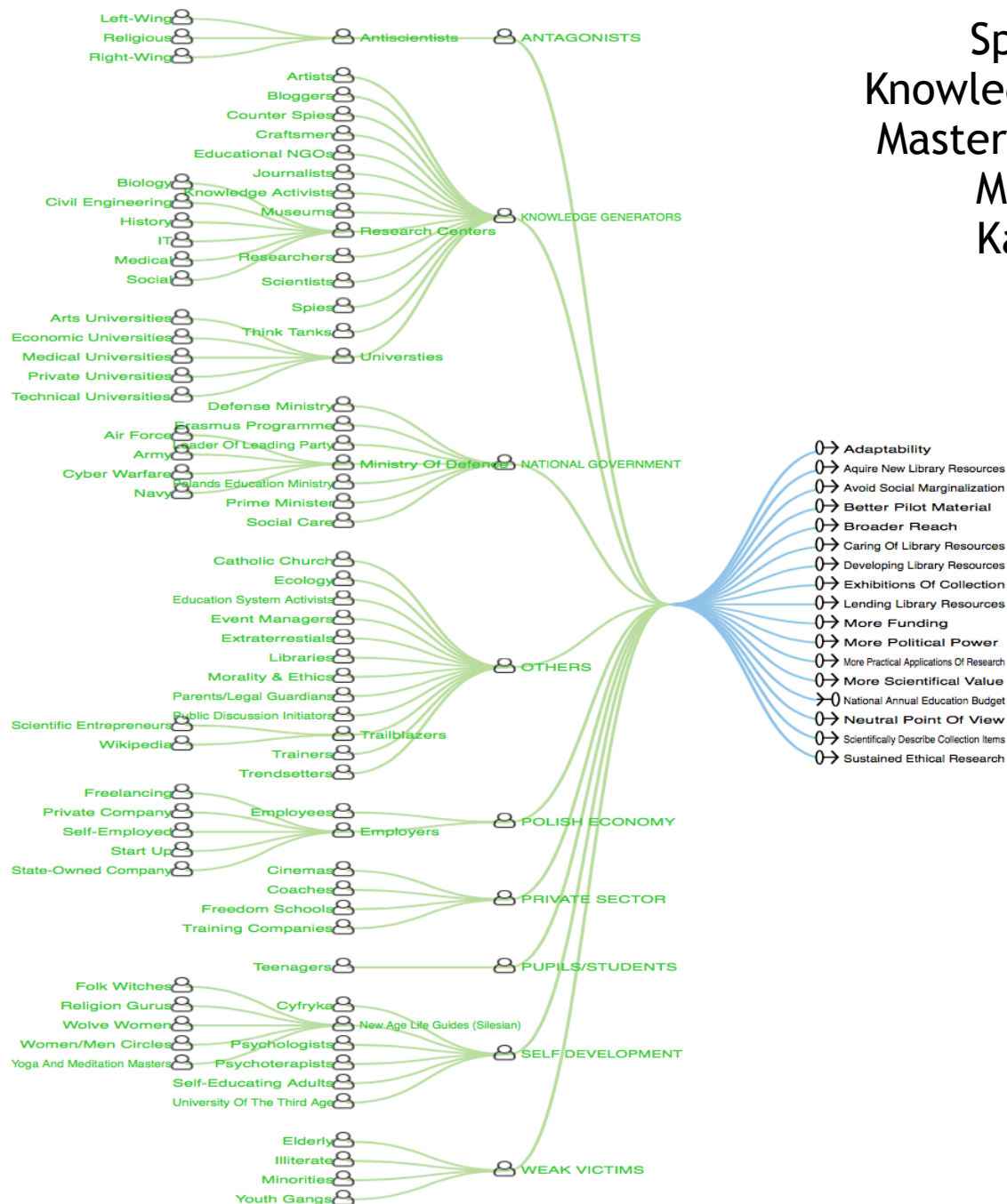
Press = Publish

Stakeholder-Driven Value Delivery

- all projects
 - are about
 - *delivering values*
 - to **stakeholders**

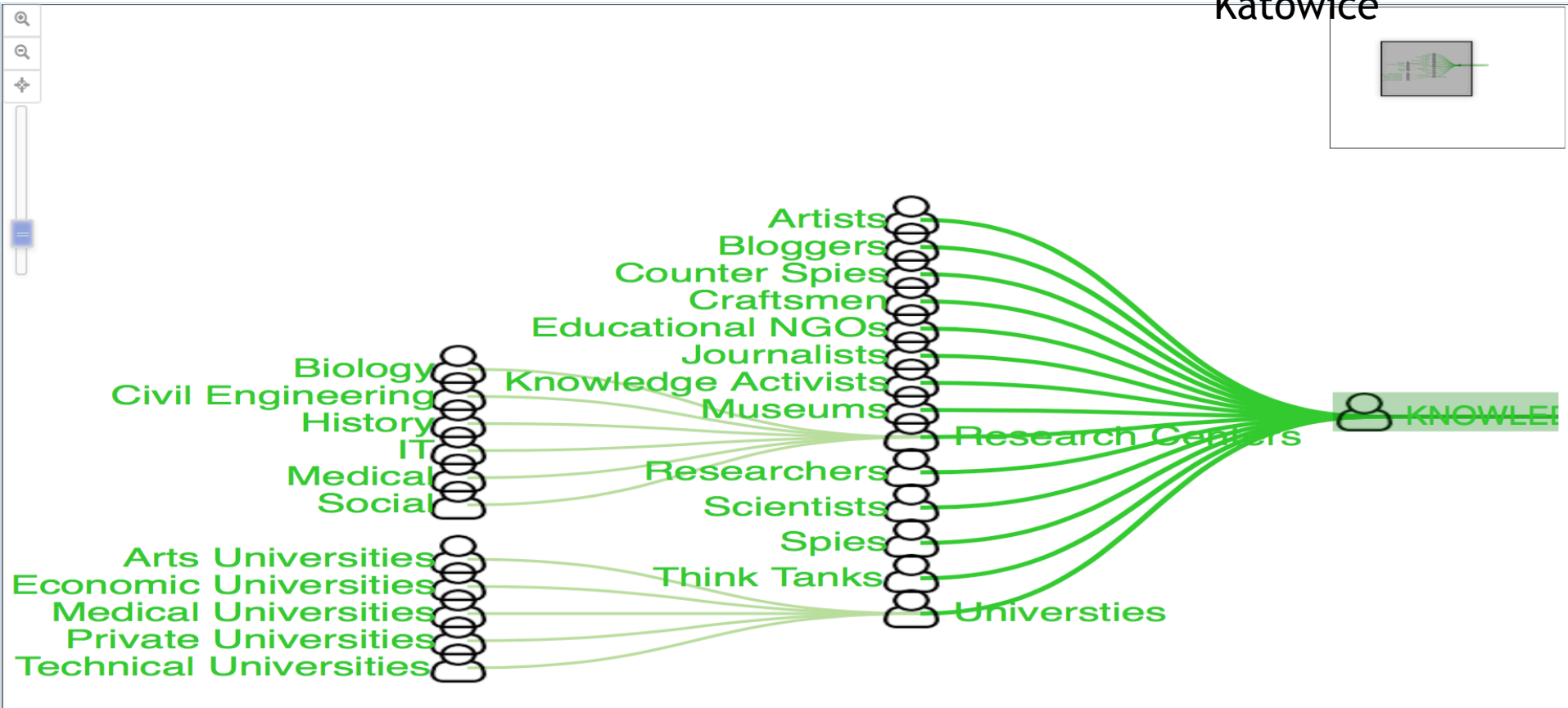


Spreading Knowledge in Poland Masterclass Project May 2018 Katowice



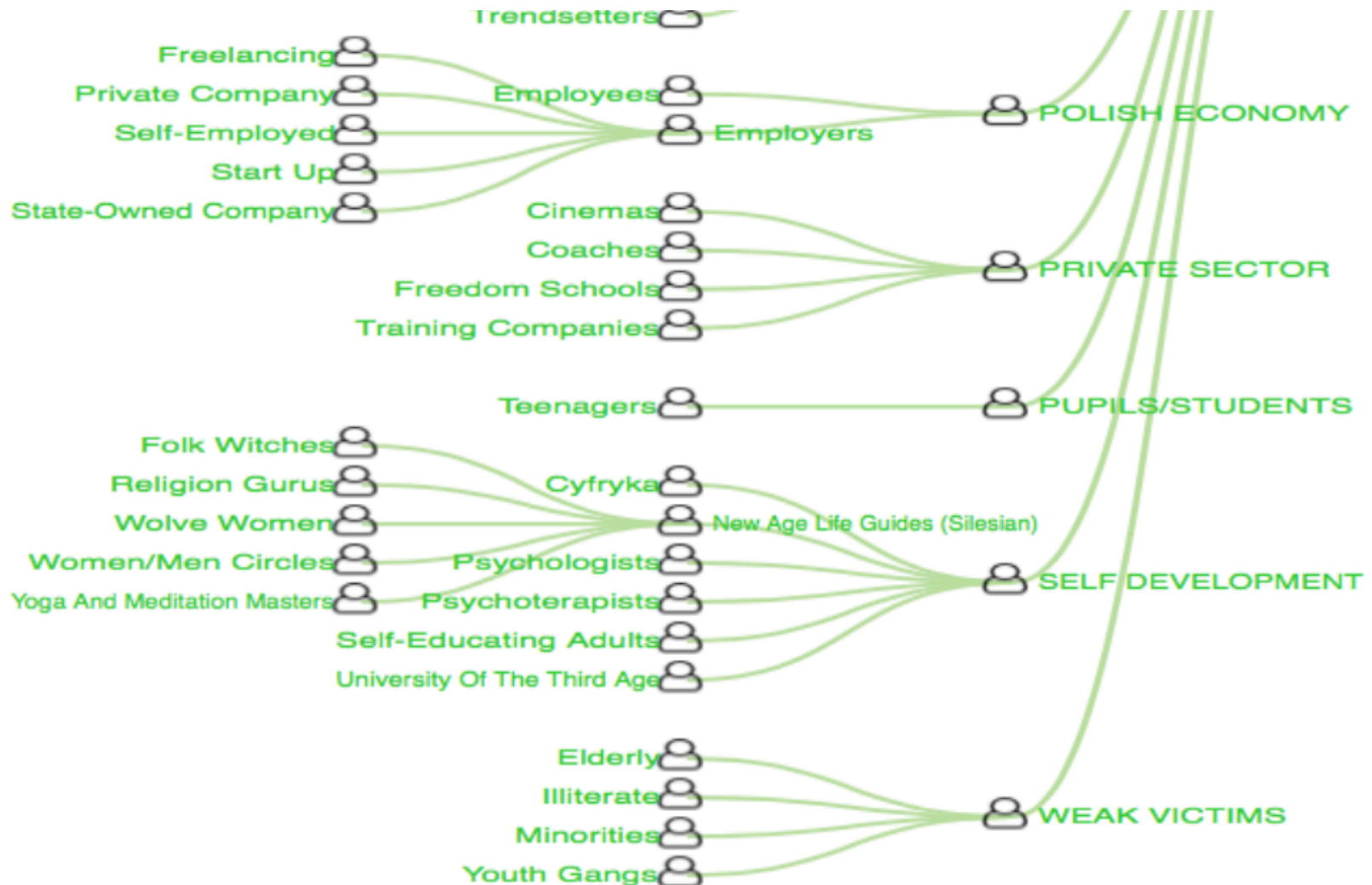
Enlarged view

Spreading
Knowledge in Poland
Masterclass Project
May 2018
Katowice

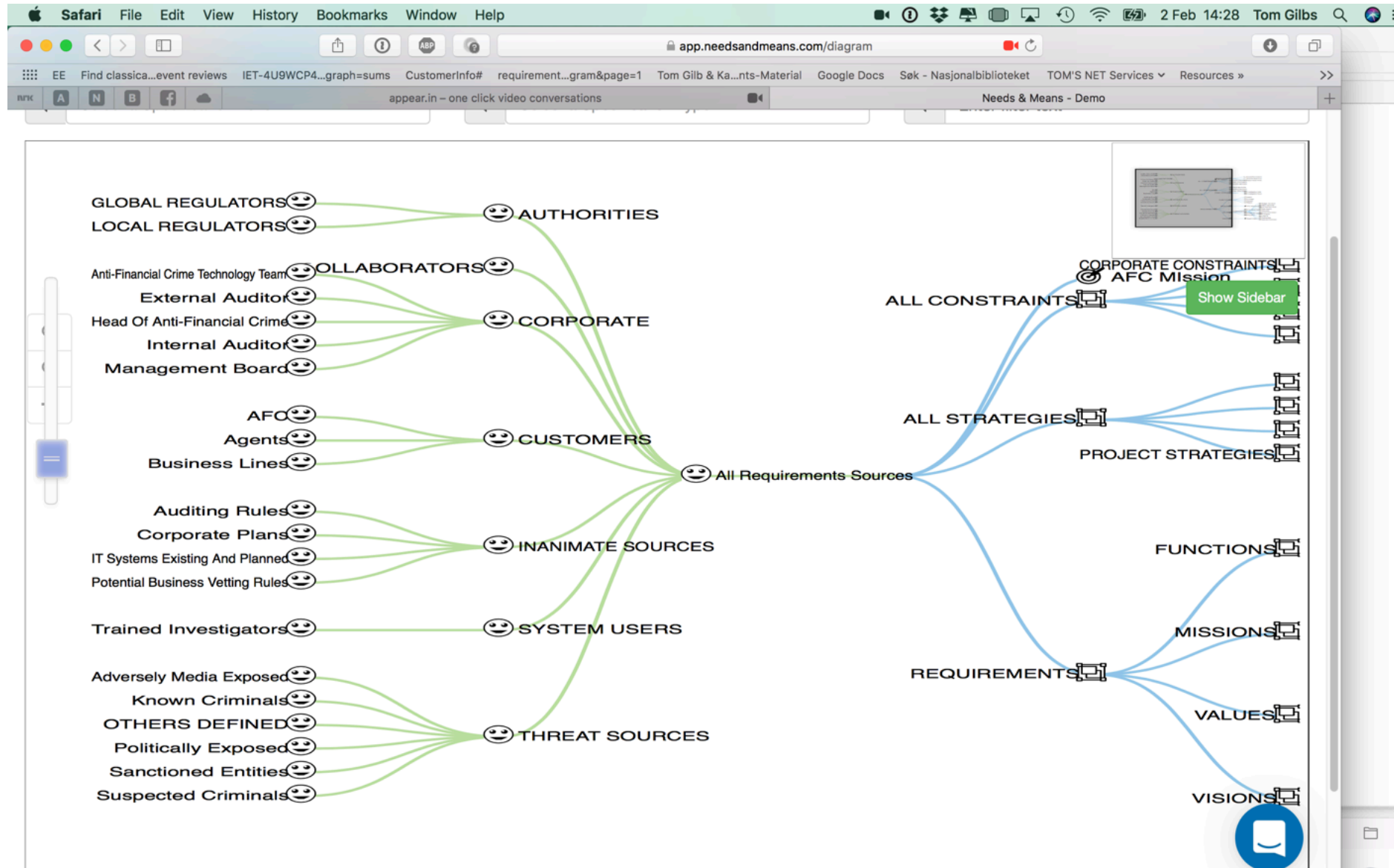


Enlargement of lower part of stakeholder diagram

Spreading
Knowledge in Poland
Masterclass Project
May 2018
Katowice



Bank Project Example 2018



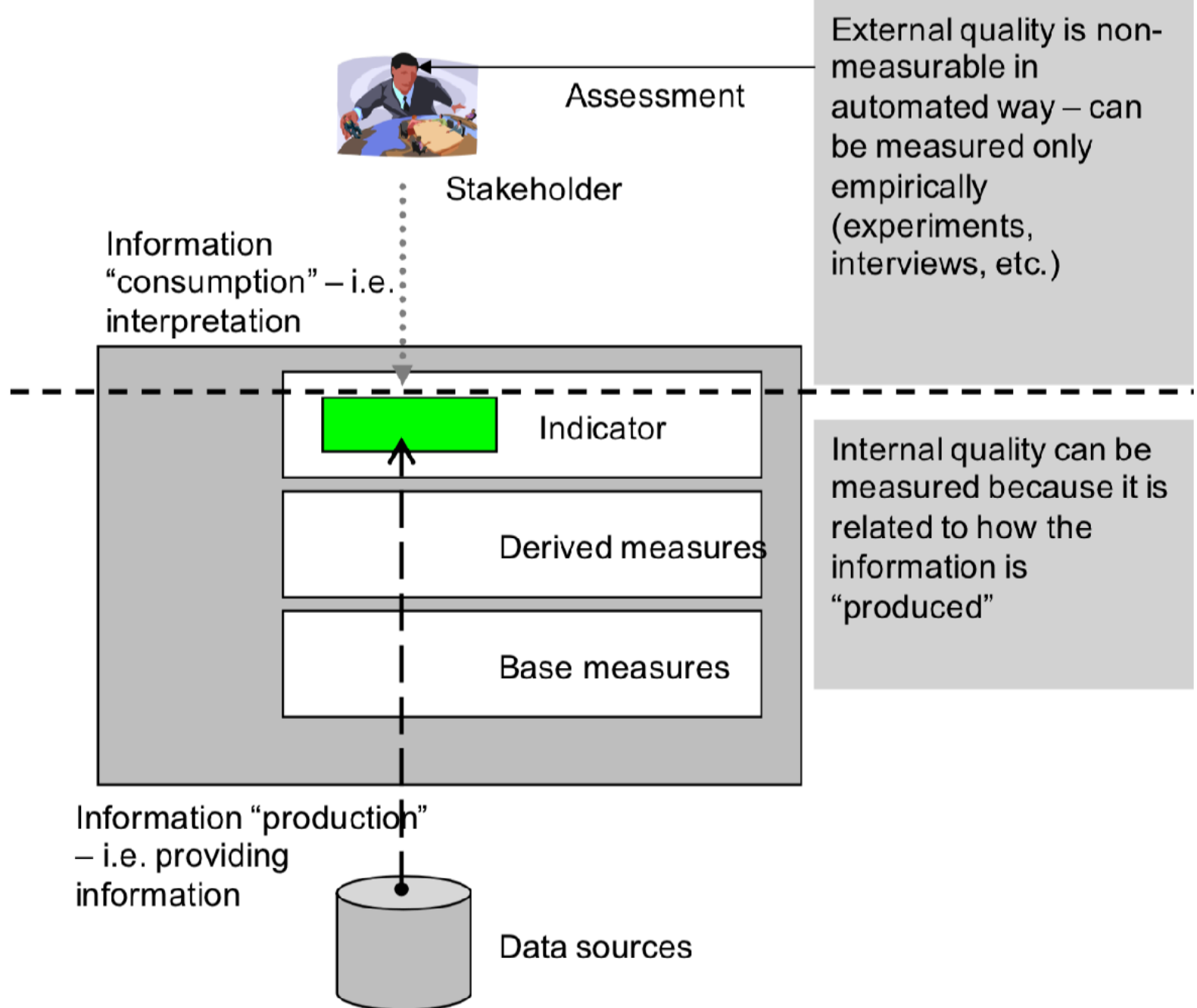


Fig. 4.3 Internal and external information quality

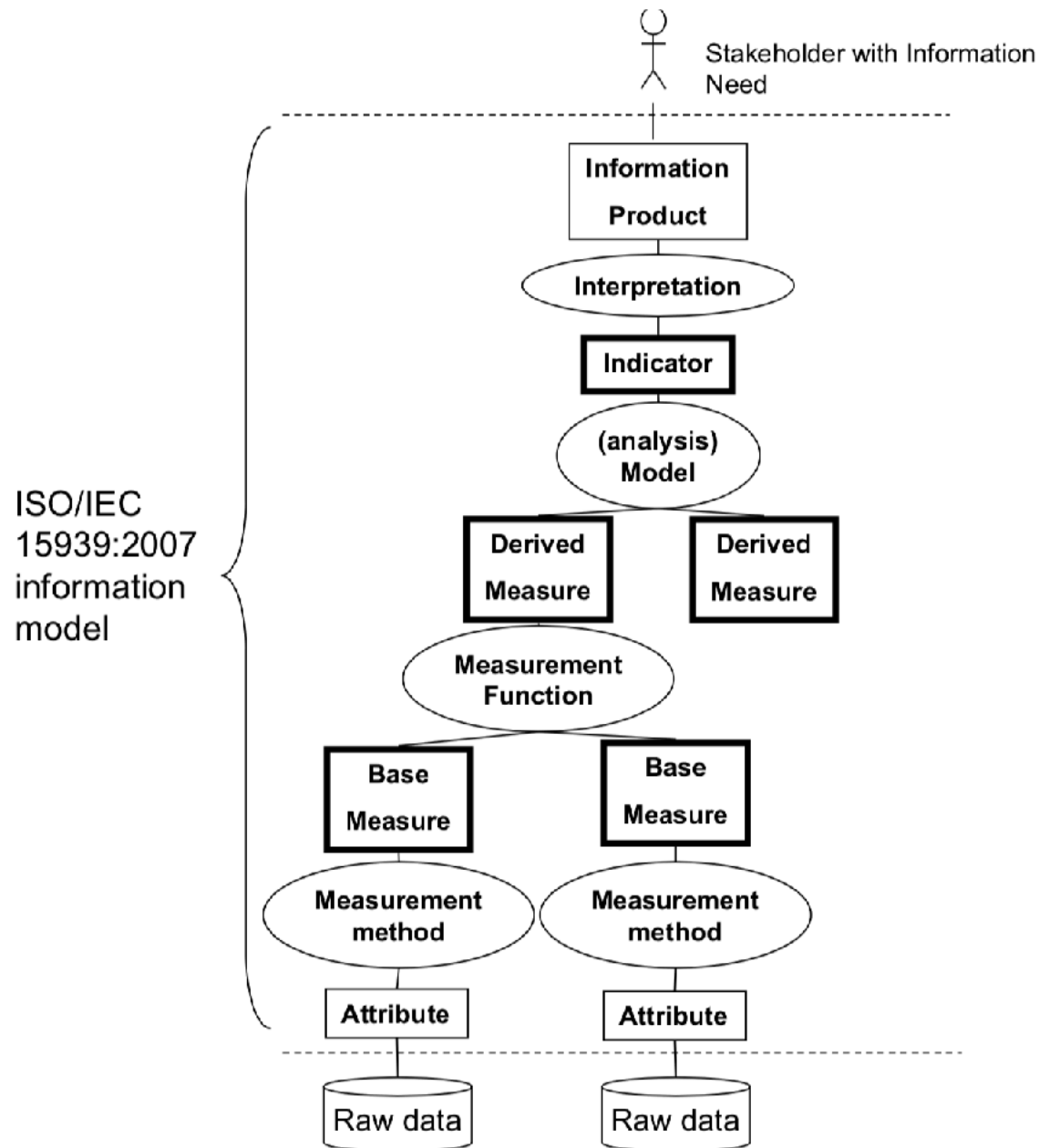
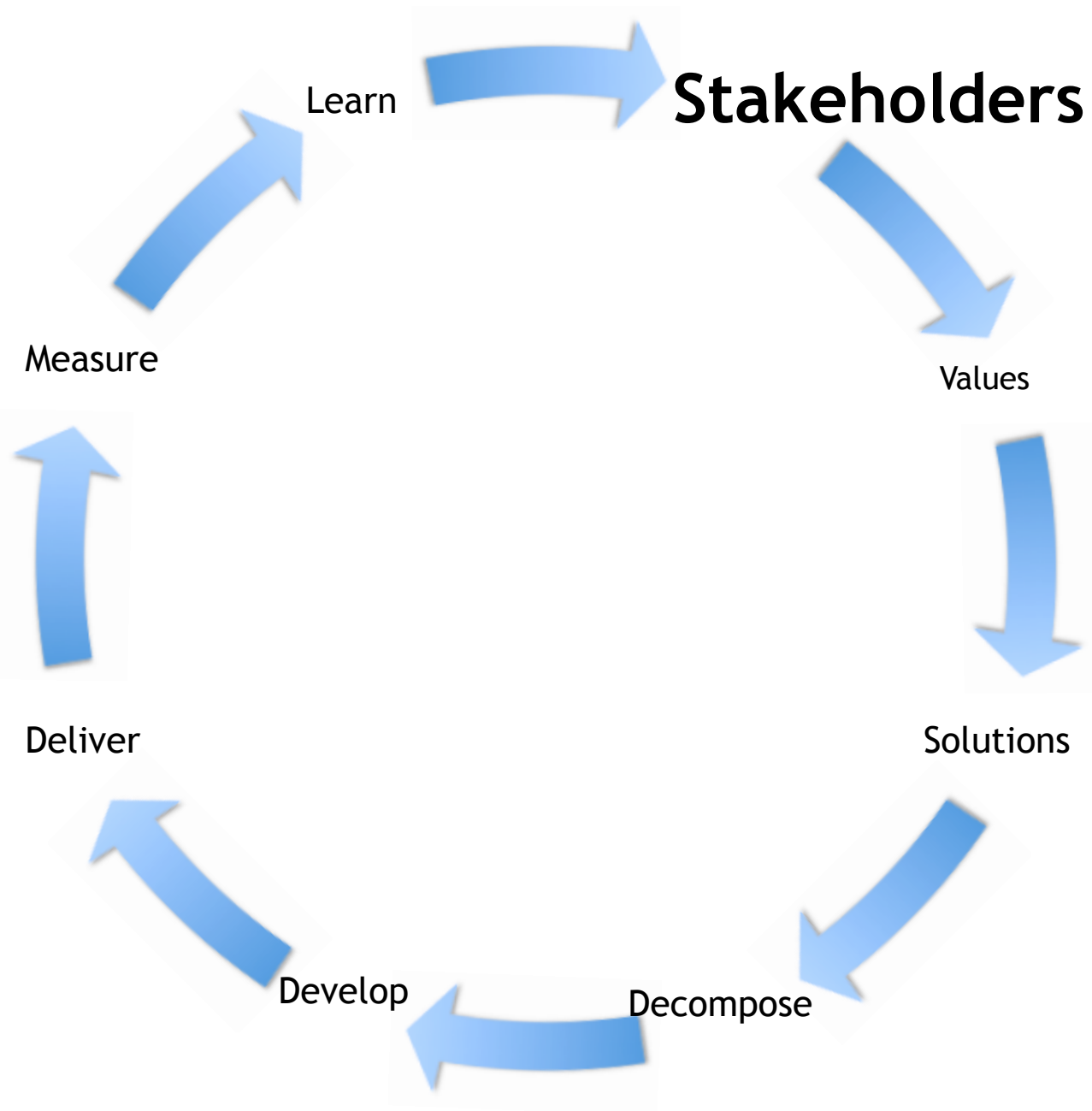


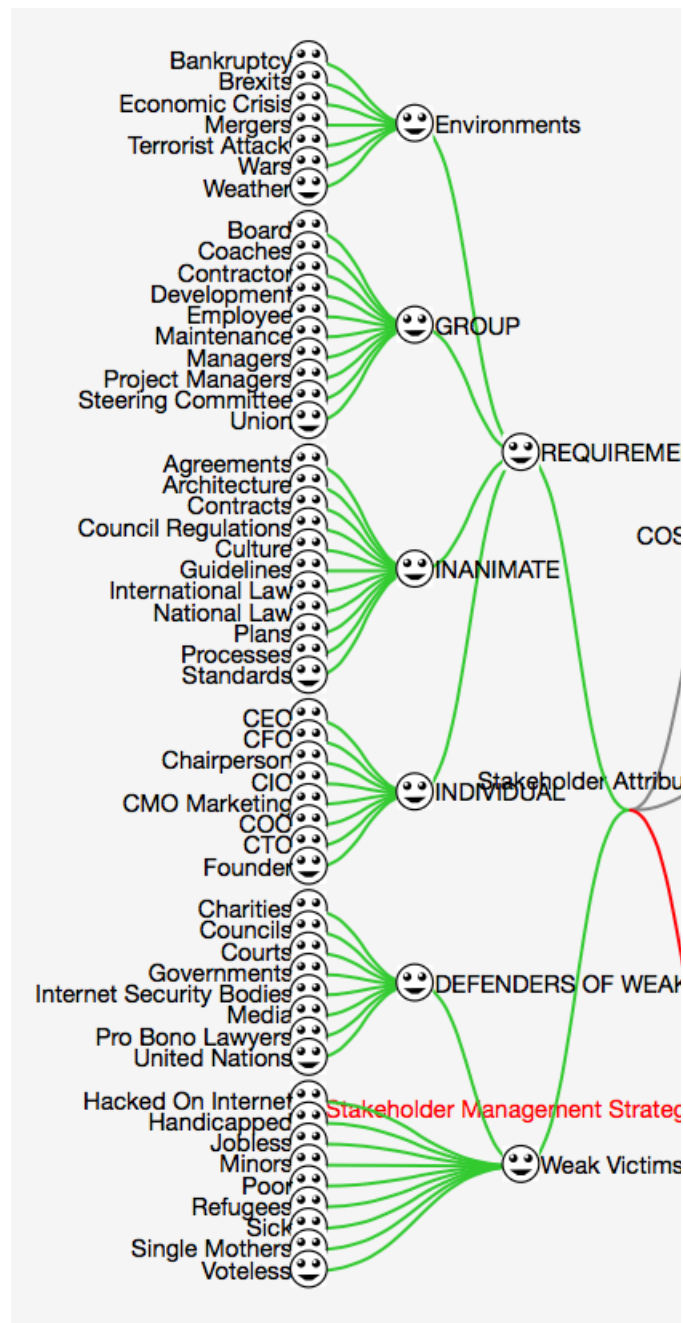
Fig. 4.2 Information model from ISO/IEC 15939, data sources and the stakeholder



Ten Stakeholder Principles
© Tom Gilb 2016
Stakeholder Power: The Key to Project Failure or Success

1. Some stakeholders are more critical to your system than others.
2. Some stakeholder needs are more critical to your system than others.
3. Stakeholders are undisciplined: they may not know all their needs, or know them precisely, or know their value. But they can be analyzed, coached, and helped to get the best possible representation.
4. Stakeholders may be inaccessible, unwilling, inanimate, oppositional, and worse; nevertheless, we need to deal with them intelligently.
5. Stakeholders might well ask for the wrong thing, a 'means' rather than their real 'ends'. But they can be guided to understand that. Or their requests can be interpreted in their own real best interests.
6. Stakeholders do not want to wait years, experience delays, invest money, and then receive little or no value. They want as much 'value improvement' of their current situation as they can get, as fast as they can get it, and for as little cost as possible.
7. Stakeholders are not likely to have any realistic idea of what their real needs and demands are, nor what it will cost to satisfy them. So their evolved real requirements need to be based on value for costs, not on value alone. Delivering small increments, based on high value-to-cost, is one smart way to deal with this.
8. If you think you have found 'all of the critical stakeholders', you should assume there is at least one more, and when you find that one, it's quite likely there is another. They will emerge, and they are not all there at the beginning.
9. If you think you have found all critical needs of a stakeholder, there will always be at least one more need hiding, more likely several.
10. If you do not understand and act on these principles, you will blame your failure on 'system complexity', and the unexpected and wicked problems. But in reality, it is your own fault and responsibility – a more positive and effective approach is to deal with it - up front, and constantly.

Good quality image
 2020 used in SEA book
 2020 1.1

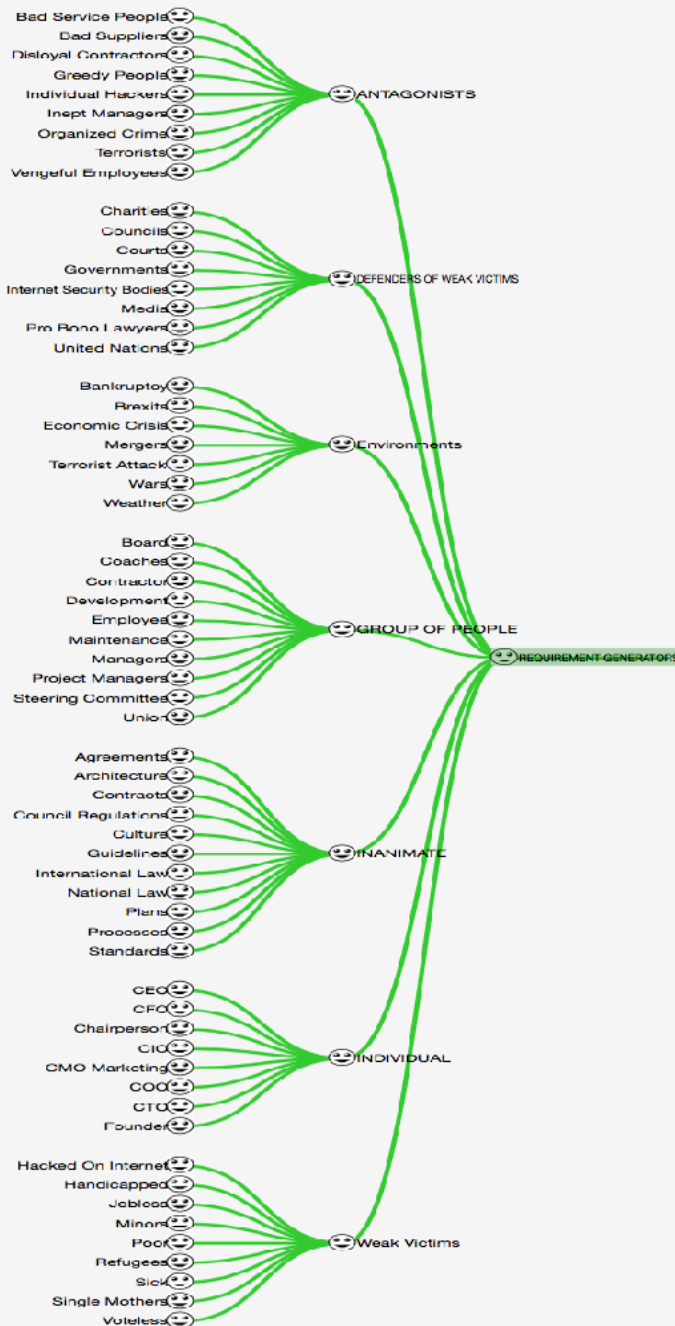


Generic Stakeholder map 'Requirements Sources'

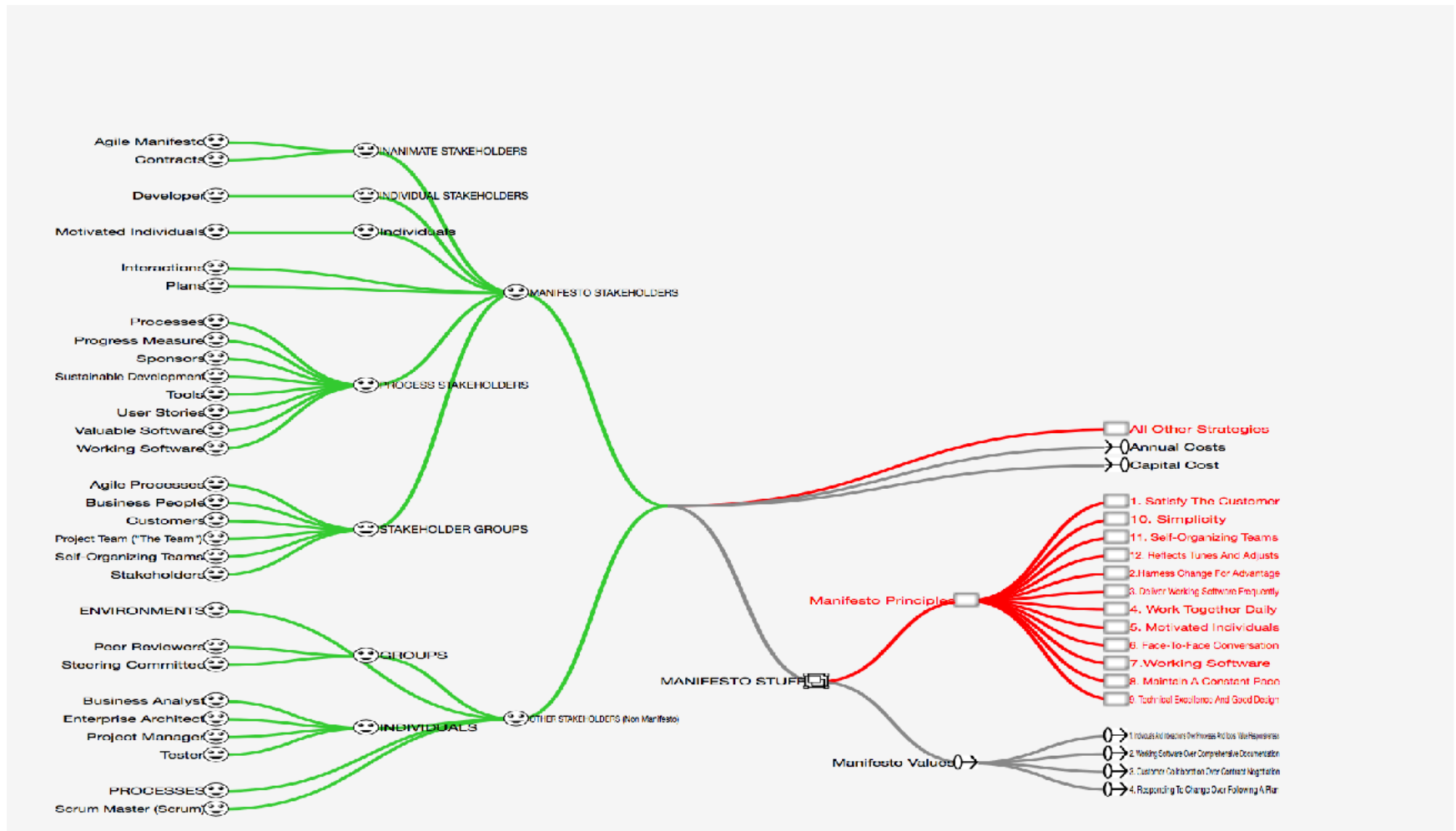
Notice the new categories
of stakeholders

1. Antagonists
2. Defenders of weak victims
3. Environments
4. Groups of People
5. Inanimate
6. Individuals
7. Weak Victims

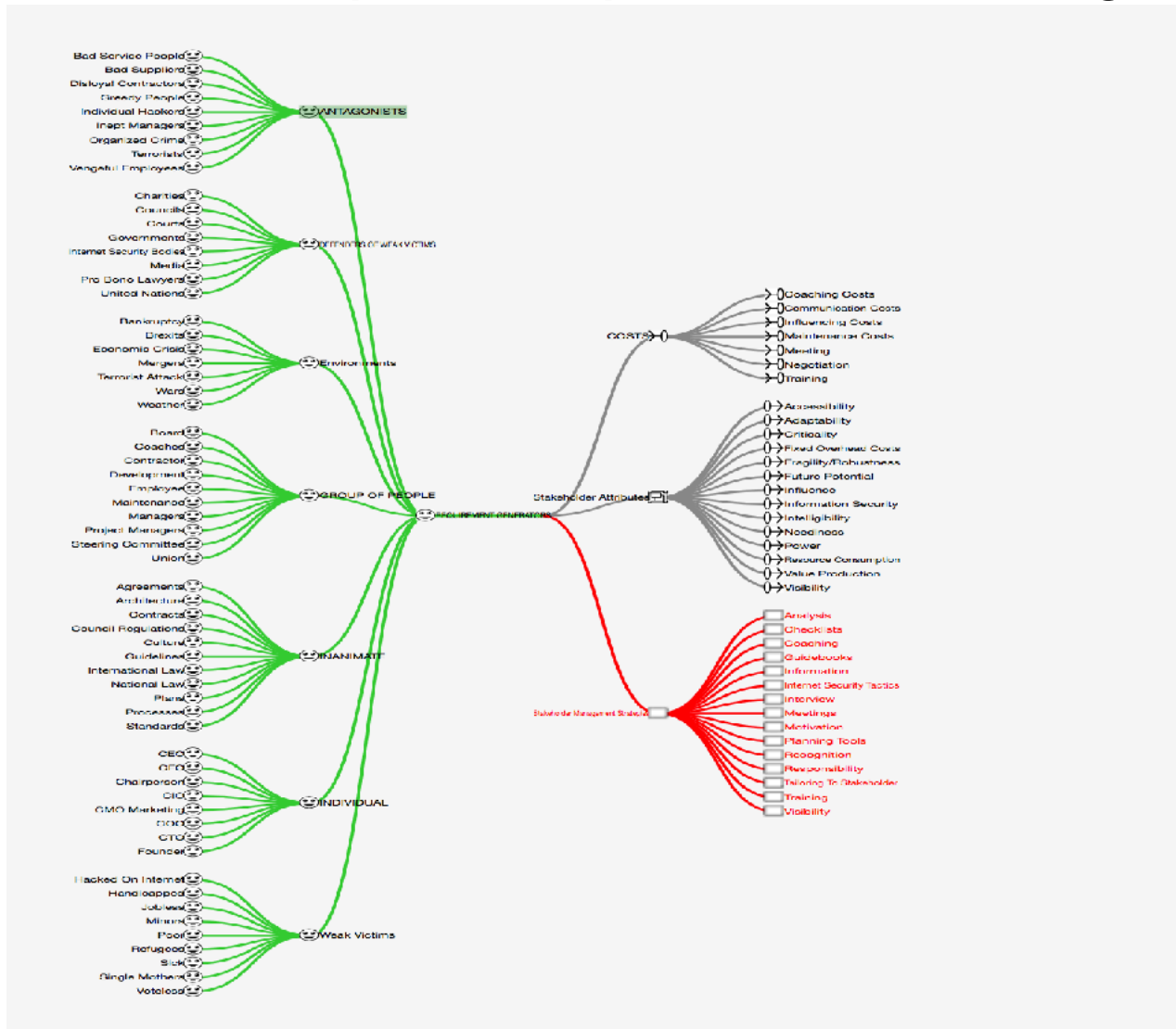
Bad image 2020



A Stakeholder example related to the Manifesto Values and Principles

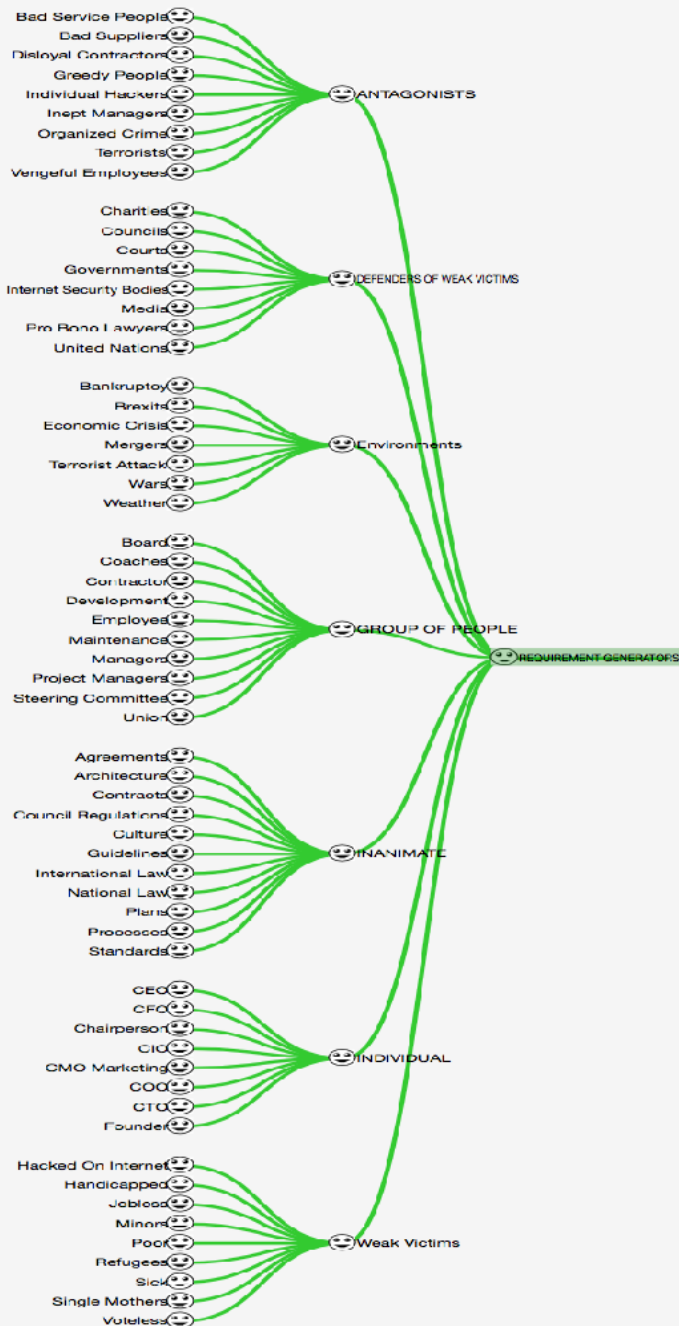


A Generic Stakeholder Map BAD QUALITY IMAGE 2018 with related examples of requirements and designs




Not good quality image 2020

Generic Stakeholder map 'Requirements Sources'




Not good quality image 2020

Stakeholder Selection for a single requirement

 1. Individuals And Interactions Over Processes And Tools: Value Responsiveness

[Permalink](#)
0.0.1 [Show Side](#)

[Level?](#)  [Value](#) [Label?](#)

[Is Part Of:](#) [Manifesto Values](#) [Value](#)

Levels help to segregate between your 'stakeholder' requirements, your 'product' requirements and your 'solution' ideas.

ns Over Processes and ToolsThe first value in the Agile Manifesto is "Individuals and interactions over processes and tools." Valuing people more highly than processes

Ambition Level: to meet stakeholder needs reasonably, in part by being as responsive to emerging needs as possible

Scale: Hours from [Need] of [Stakeholder] [Emerges] until it is [Noted] in [Project Documentation] and [Quality Controlled] and [Released] and can be applied for specified [Purposes]

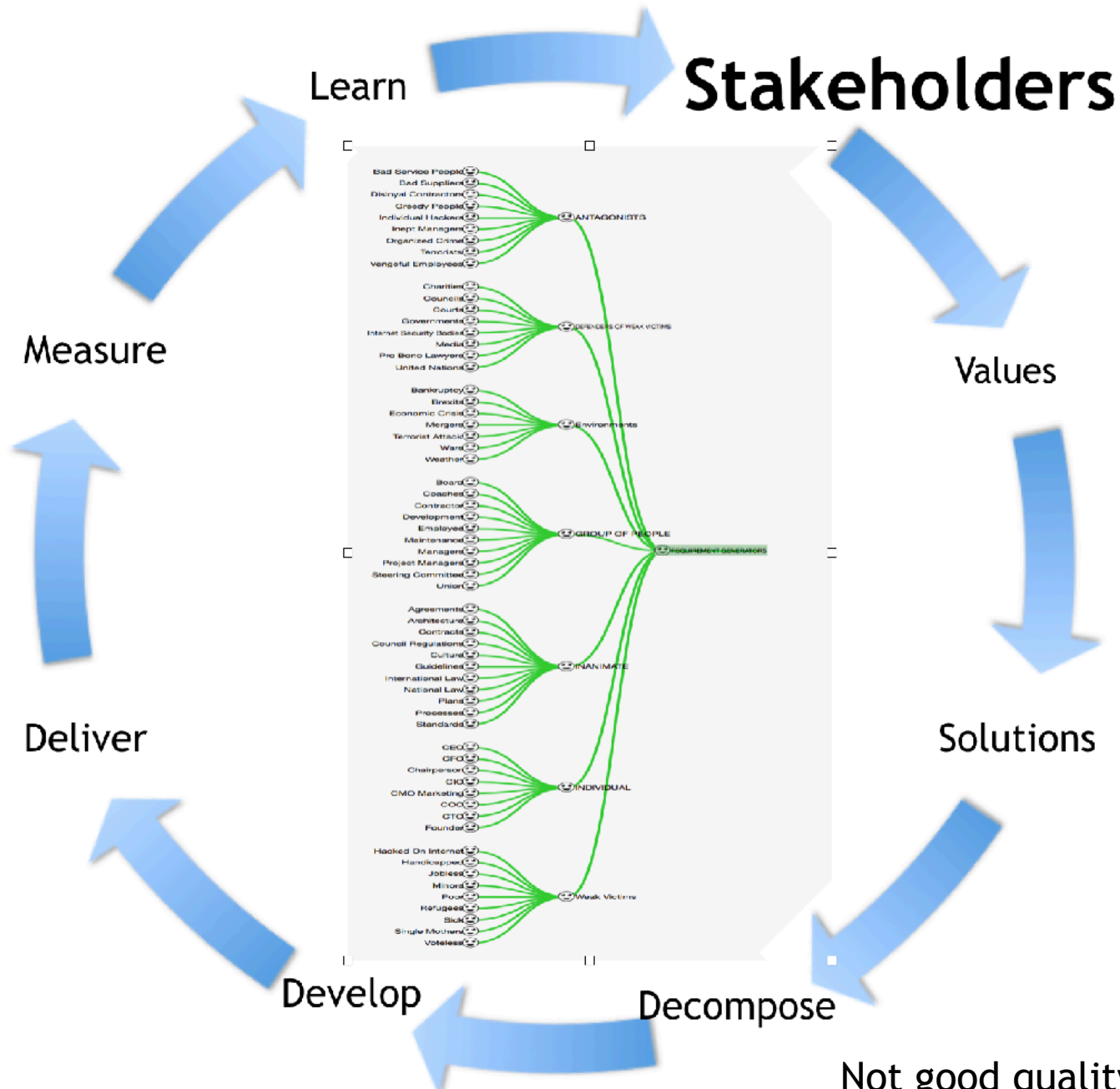
Stakeholders: Business Analyst, PROCESSES, Project Manager, Peer Reviewers.

Status: Level: 0 Response Hours [Need = { }, Stakeholder = { }, Emerges = { }, Noted = { }, Project Documentation = { }, Quality Controlled = { }, Released = { }, Purposes = { }] When ?

Wish: Level: 0 Response Hours [Need = { }, Stakeholder = { }, Emerges = { }, Noted = { }, Project Documentation = { }, Quality Controlled = { }, Released = { }, Purposes = { }] When ?

Stakeholder Selection for a single requirement (Value Responsiveness), and their Stakeholder roles

Stakeholders: Change... (by tomgilb - 5 minutes ago) 0			
Stakeholder ^	Roles	Notes	Actions
Business Analyst	× Expert × Owner	a function that identifies and specifies requirements	
PROCESSES	× Authority × Internal	processes, scubas requirements specification, Spec QC, architecture and Testing will determine the speed of the change process	
Peer Reviewers	× Authority × Decision Maker	Peer Reviewers, exampleusing the Spec QC process will determine if a spec change can exit to the next process, and this be effective.	
Project Manager	× Authority × Internal × Owner × Responsible	PM has overall control and responsibility for specification changes and their implementation in practice.	



Onofri slides on Stakeholders 2014


<https://www.slideshare.net/simone.onofri/ipma-2014-world-congress-stakeholder-engagement-between-traditional-and-agile-project-management>

The screenshot shows a web browser displaying a SlideShare presentation. The address bar shows the URL: www.slideshare.net/simone.onofri/ipma-2014-world-congress-stakeholder-engagement-between-traditional-and-agile-project-management. The page features the SlideShare logo, a search bar, and navigation tabs for Home, Explore, Presentation Courses, and PowerPoint Courses. The main content area displays the presentation title, 'IPMA 2014 World Congress - Stakeholder Engagement between Traditional and Agile Project Management', with 2,741 views. Below the title are 'Share' and 'Like' buttons. The presenter's information, 'Simone Onofri, Cyber Defense Lead - Europe South', is shown with a '+ Follow' button and social media icons for LinkedIn, Facebook, and Twitter. The publication date is 'Published on Oct 3, 2014'. A short description follows: 'If you are Agile or Traditional, or a mix of two, you cannot survive without (engaging) your stakeholder. After a "big picture view" on how stakeholders can be managed referring in Traditional Management and how this is vital in the Agile approach.' The publication details are 'Published in: Leadership & Management' and the license is 'License: CC Attribution-NonCommercial-NoDerivs License'. On the right side, there is a vertical list of related presentations with thumbnails and titles, including 'Introduction to Network Penetration', 'Security Project Management', 'ORM Integration', 'OWA: How the New Agile in Security', and 'Stakeholder Engagement'.

2,741 views

IPMA 2014 World Congress - Stakeholder Engagement between Traditional and Agile Project Management

Share Like ...

 **Simone Onofri**, Cyber Defense Lead - Europe South
+ Follow

[in](#) [f](#) [t](#)

Published on Oct 3, 2014

If you are Agile or Traditional, or a mix of two, you cannot survive without (engaging) your stakeholder. After a "big picture view" on how stakeholders can be managed referring in Traditional Management and how this is vital in the Agile approach.

Published in: [Leadership & Management](#)
License: [CC Attribution-NonCommercial-NoDerivs License](#)

Related presentations:

- Introduction to Network Penetration
- Security Project Management
- ORM Integration
- OWA: How the New Agile in Security
- Stakeholder Engagement

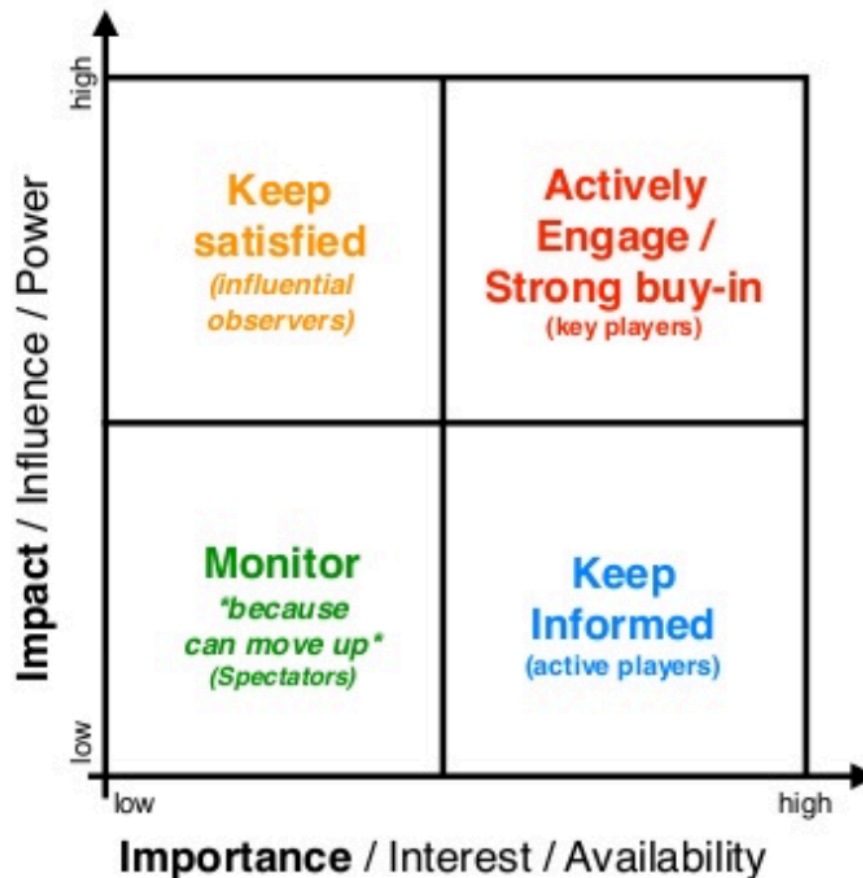
Onofri slides on Stakeholders 2014

Sample Stakeholder Profile

Project Identifier	P01 - New sales system
Stakeholder Identifier	S01 - Sales director
Name and surname	Favourite Stakeholder
Impact / Influence/ Power	High
Importance / Interest /	High
Resistance	Consider the digital system less reliable than paper-work
Benefits	Increase productivity of his staff and more probability to get the Objectives for the next semester.
Dis-Benefits	Reduction of administrative staff, means for him less people and less "power".
Risks	Burn-out
How to engage	Face to face meeting preferred, also video calls (he must see you). E-mail only
Last Contact date	2014-10-01
Stakeholder Log	Event 1, Event 2...
Next action	to do something

Onofri slides on Stakeholders 2014

The global picture



Subraniam Stakeholder slides

<https://www.slideshare.net/anandsubramaniam/stakeholder-engagement-1772901>

The screenshot shows a web browser displaying a SlideShare presentation. The address bar shows the URL: www.slideshare.net/anandsubramaniam/stakeholder-engagement-1772901. The presentation title is "Stakeholder Engagement" and the author is "Anand Subramaniam". The main content of the slide reads: "Stakeholder Engagement", "Process to assess the effectiveness of the engagement", and "Anand Subramaniam". A red progress bar is visible at the top of the slide content. On the right side, there is a "Recommended" section with four video thumbnails and their titles: "Teacher T...", "Teaching...", "Social Me...", and "Stakehold...". The bottom of the slide features a red progress bar and a small logo in the bottom left corner that says "CONSULT 102".

www.slideshare.net/anandsubramaniam/stakeholder-engagement-1772901

Stakeholder Engagement

SlideShare Search

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Clip slide

Stakeholder Engagement

Process to assess the effectiveness of the engagement

Anand Subramaniam

Recommended

- Teacher T... Online Cour
- Teaching... Classroom Online Cour
- Social Me... Classroom Online Cour
- Stakehold... Presentati Jim Soltis,

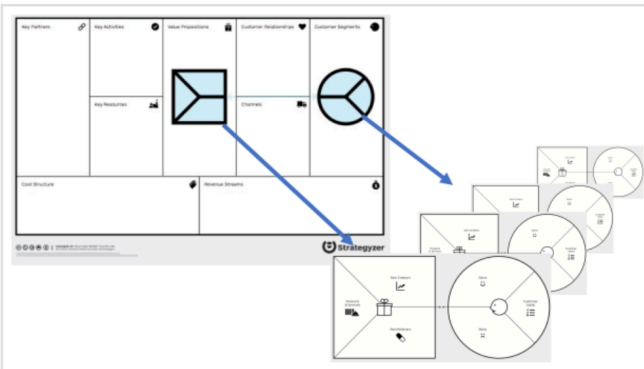
Chapter 5 objectives objectives

Steve blank on Regulatory Stakeholders

<https://steveblank.com/2018/10/09/startups-and-regulated-markets/>

Diagram Your Business Model

The best way to start is by [drawing a business model canvas](#). In the customer segments box, you're going to discover that there may be 5, 10 or more different players: users, beneficiaries, stakeholders, payers, saboteur, rent seeker, influencers, bureaucrats, politician, regulators. As you get out of the building and start talking to people you'll discover more and more players.

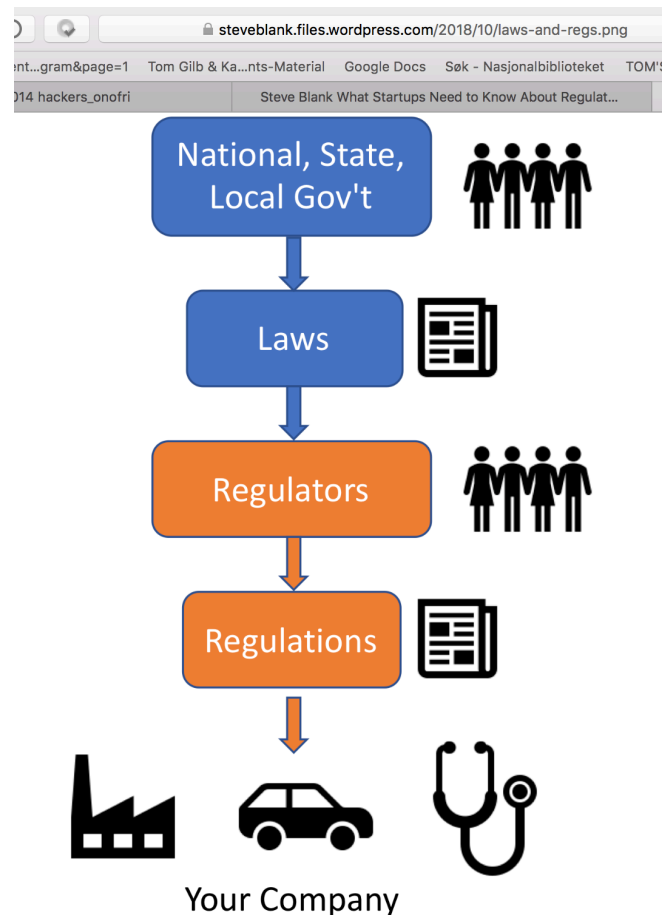


Instead of lumping them together, each of these users, beneficiaries, stakeholders, payers, saboteur, rent seekers, etc. require a [separate Value Proposition Canvas](#). This is where you start figuring out not only their pains, gains and jobs to be done, but what products/services solve those pains and gains. When you do that, you'll discover that the interests of your product's end user versus a regulator versus an advocacy group, key opinion leaders or a politician, are radically different. For you to succeed *you need to understand all of them*.

One of the critical things to understand is how the regulatory process works. For

Steve Blank's Hierarchy of Stakeholders

<https://steveblank.com/2018/10/09/startups-and-regulated-markets/>



**HERE IS A LIST OF 5 STAKEHOLDERS FOR ONE (AGILE MANIFESTO) VALUE.
THE SCALE OF MEASURE IS DEFINED,
AND THE REQUIRED FUTURE LEVEL NEEDS TO BE DETERMINED
IN COLLABORATION WITH THESE STAKEHOLDERS.**

➔ 1. Individuals And Interactions Over Processes And Tools: Value Responsiveness

Level? **Value** **Label?**

Is Part Of: Manifesto Values (Value) by tomgilb - 2 hours ago

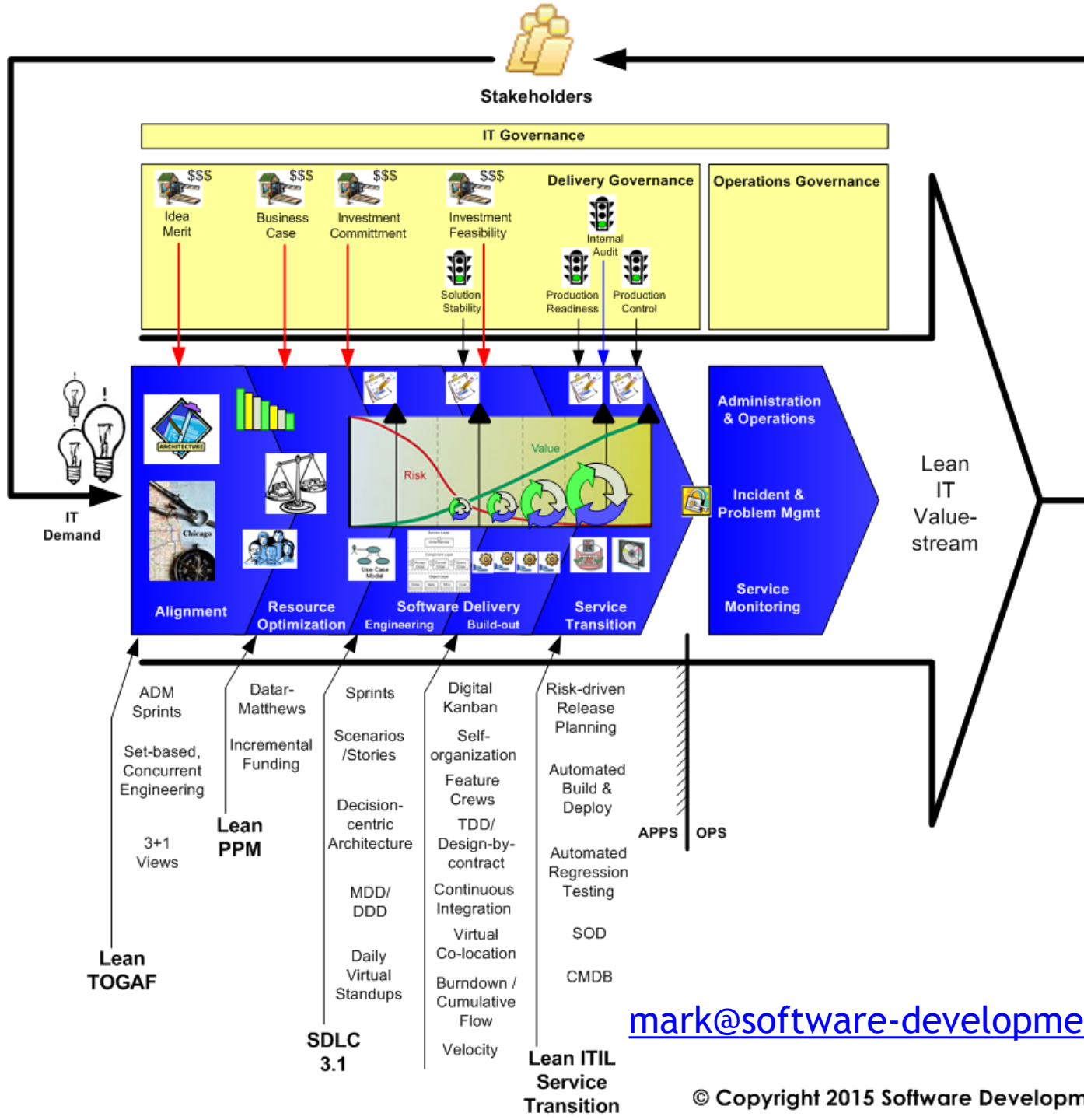
Description: 1. Individuals and Interactions Over Processes and ToolsThe first value in the Agile Manifesto is "Individuals and interactions over processes..."

Ambition Level: to meet stakeholder needs reasonably, in part by being as responsive to emerging needs as possible

Scale: Hours from [Need] of [Stakeholder] [Emerges] until it is [Noted] in [Project Documentation] and [Quality Controlled] and [Released] and can be applied...

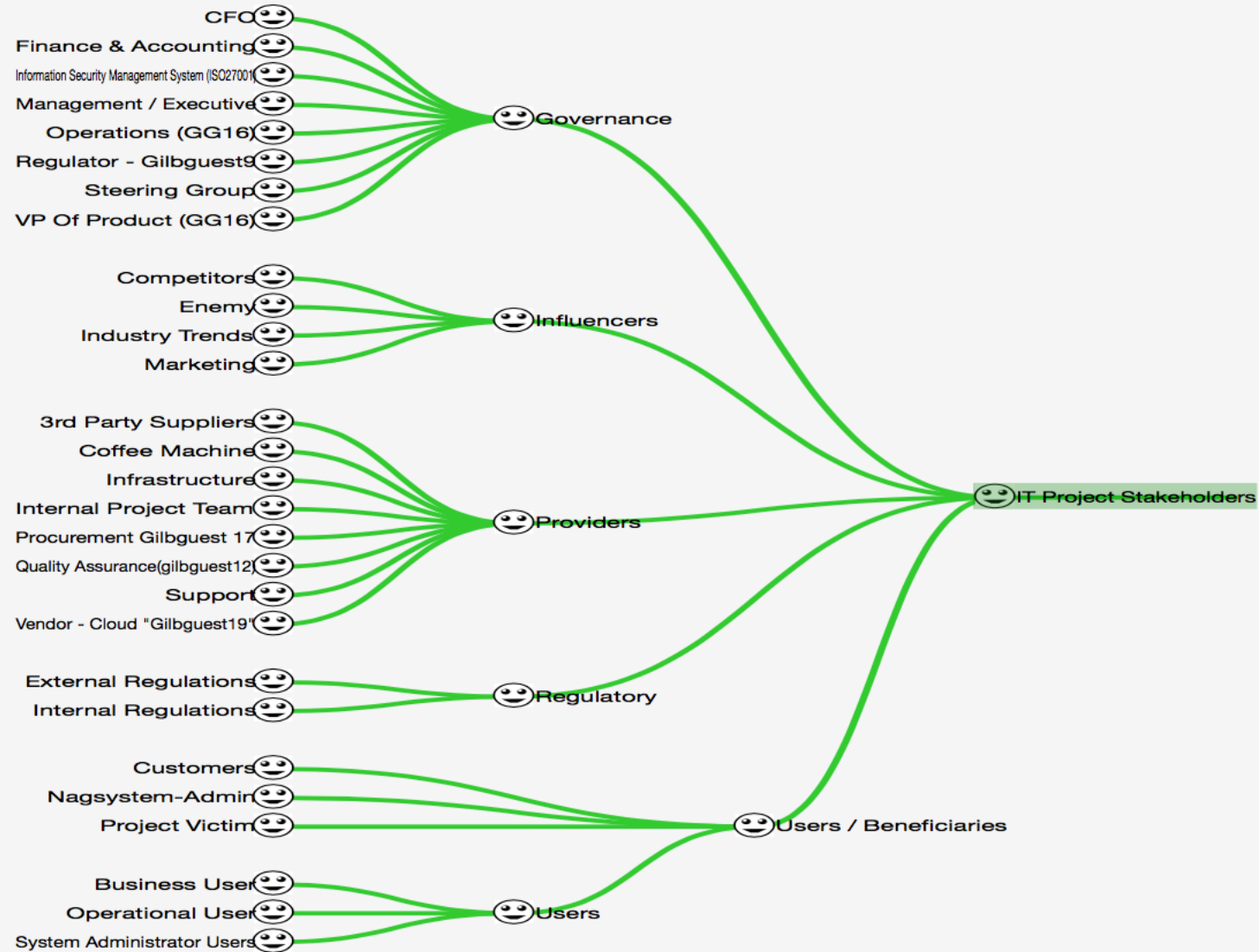
Stakeholders: Change... by tomgilb - a day ago 0

Stakeholder ^	Roles	Notes	Actions
Business Analyst	* Expert * Owner	a function that identifies and specifies requirements	[Trash]
MANIFESTO STAKEHOLDERS	* Authority	The original Manifesto signers might like to comment on our attempt interpret what they actually meant by this value.	[Trash]
PROCESSES	* Authority * Internal	processes, scubas requirements specification, Spec QC, architecture and Testing will determine the speed of the change process	[Trash]
Peer Reviewers	* Authority * Decision Maker	Peer Reviewers, exemplifying the Spec QC process will determine if a spec change can exit to the next process, and this be effective.	[Trash]
Project Manager	* Authority * Internal * Owner * Responsible	PM has overall control and responsibility for specification changes	[Trash]



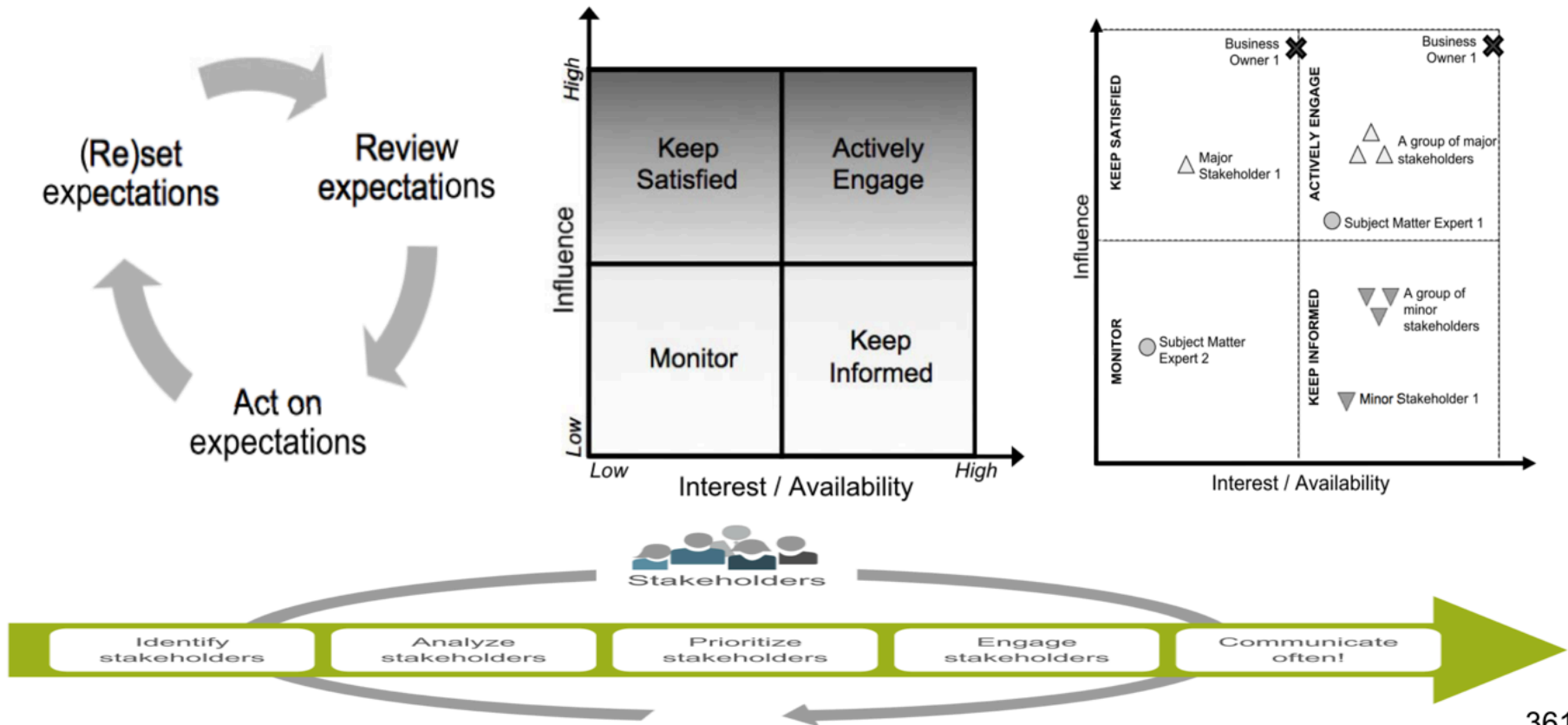
mark@software-development-experts.com

Good quality type

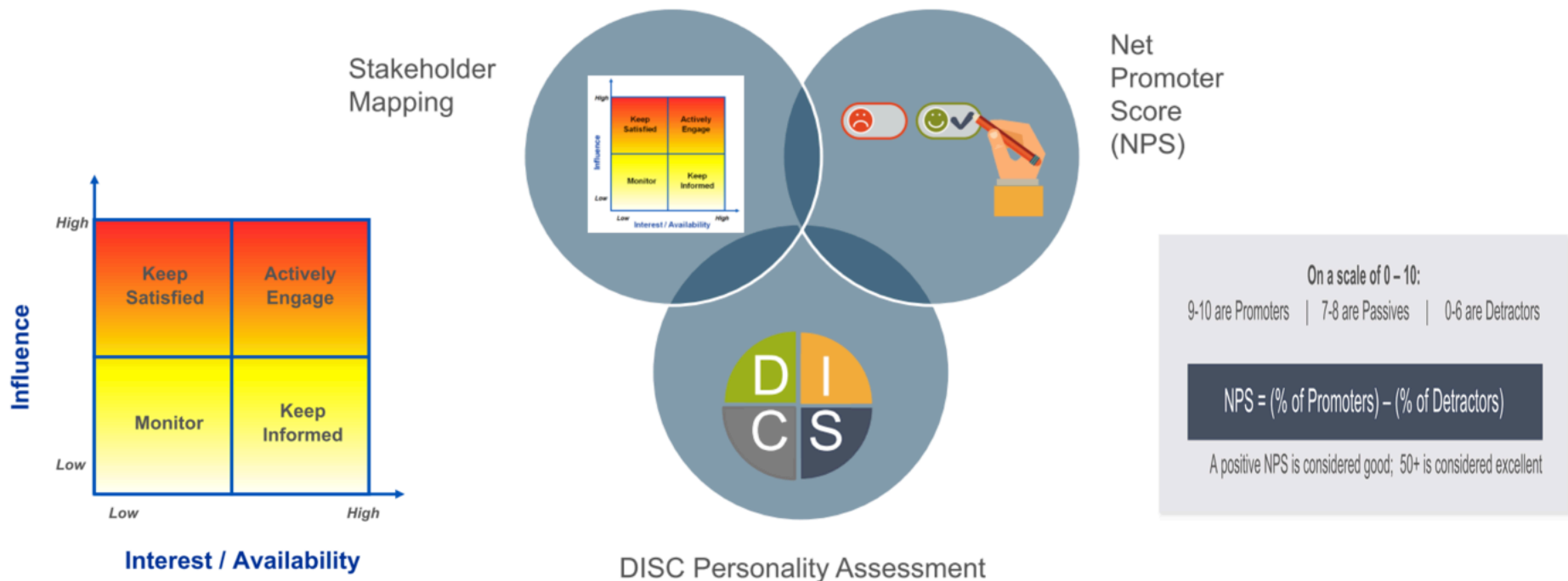


Stakeholder Management

Stakeholder engagement is like refining your backlog. You should continuously inspect and adapt!

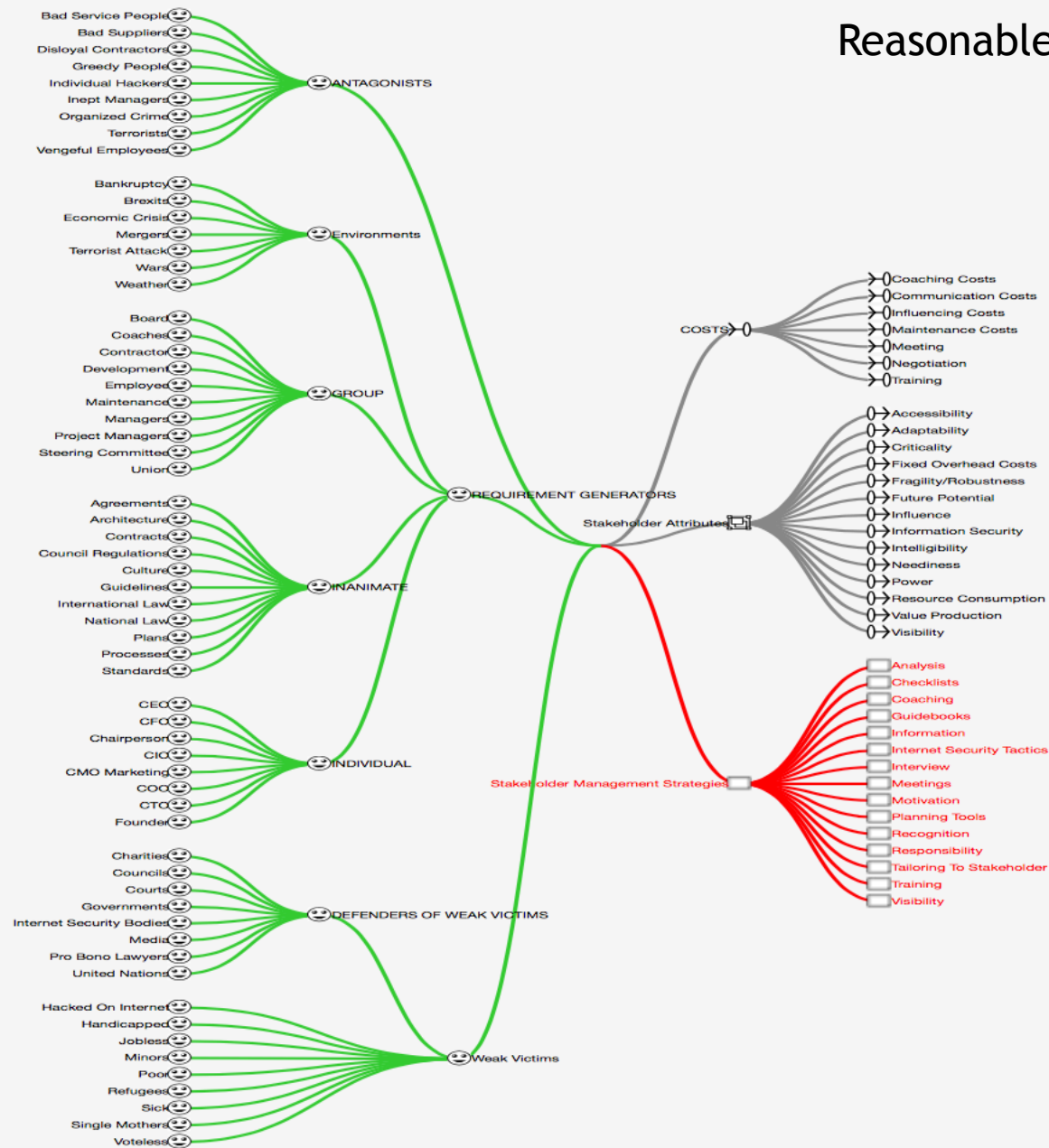


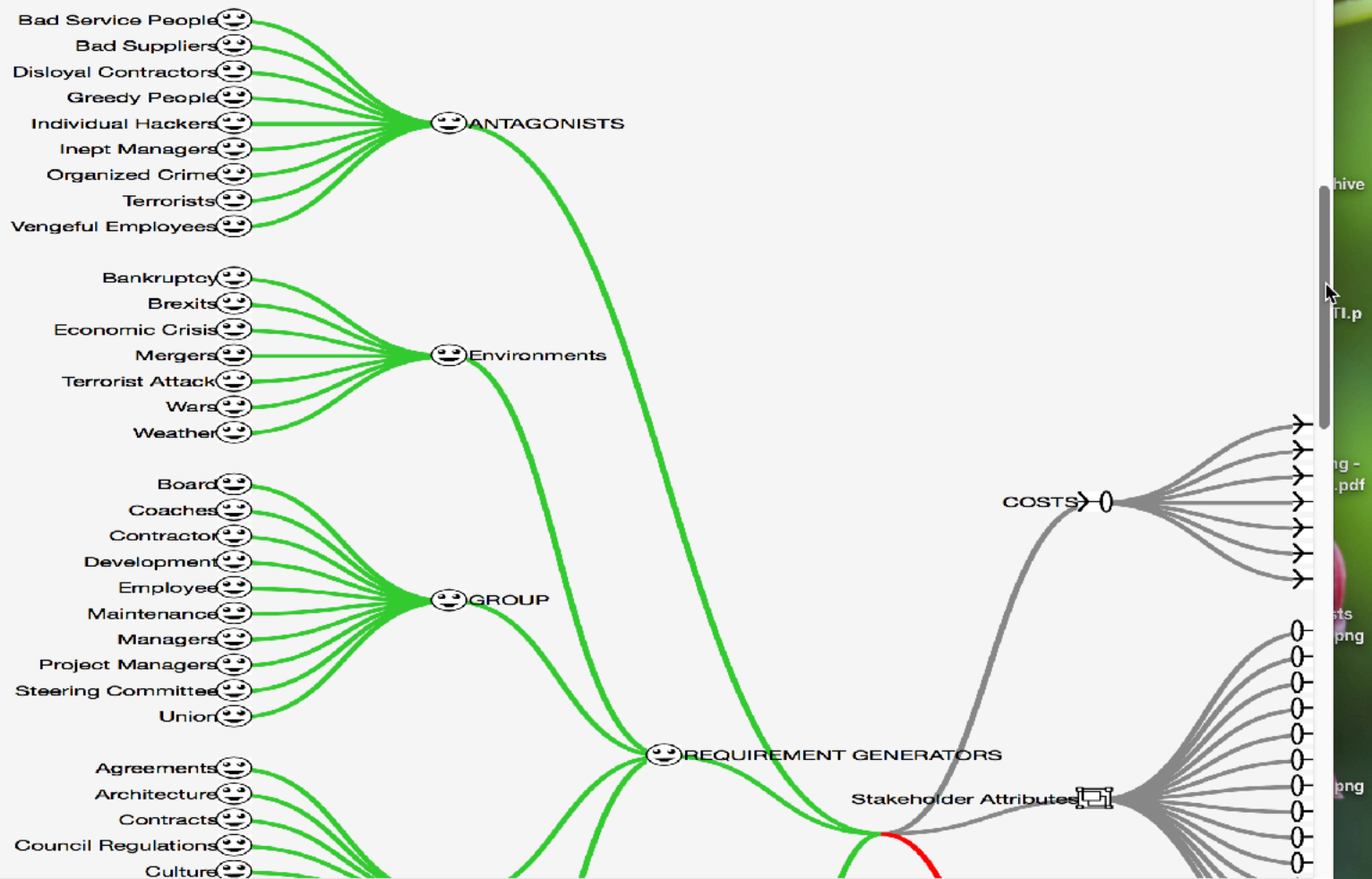
Stakeholder Management Toolbox



Source: The Four Fictional Faces of Scaled Stakeholder Management (Drew Jemilo)

Reasonable quality



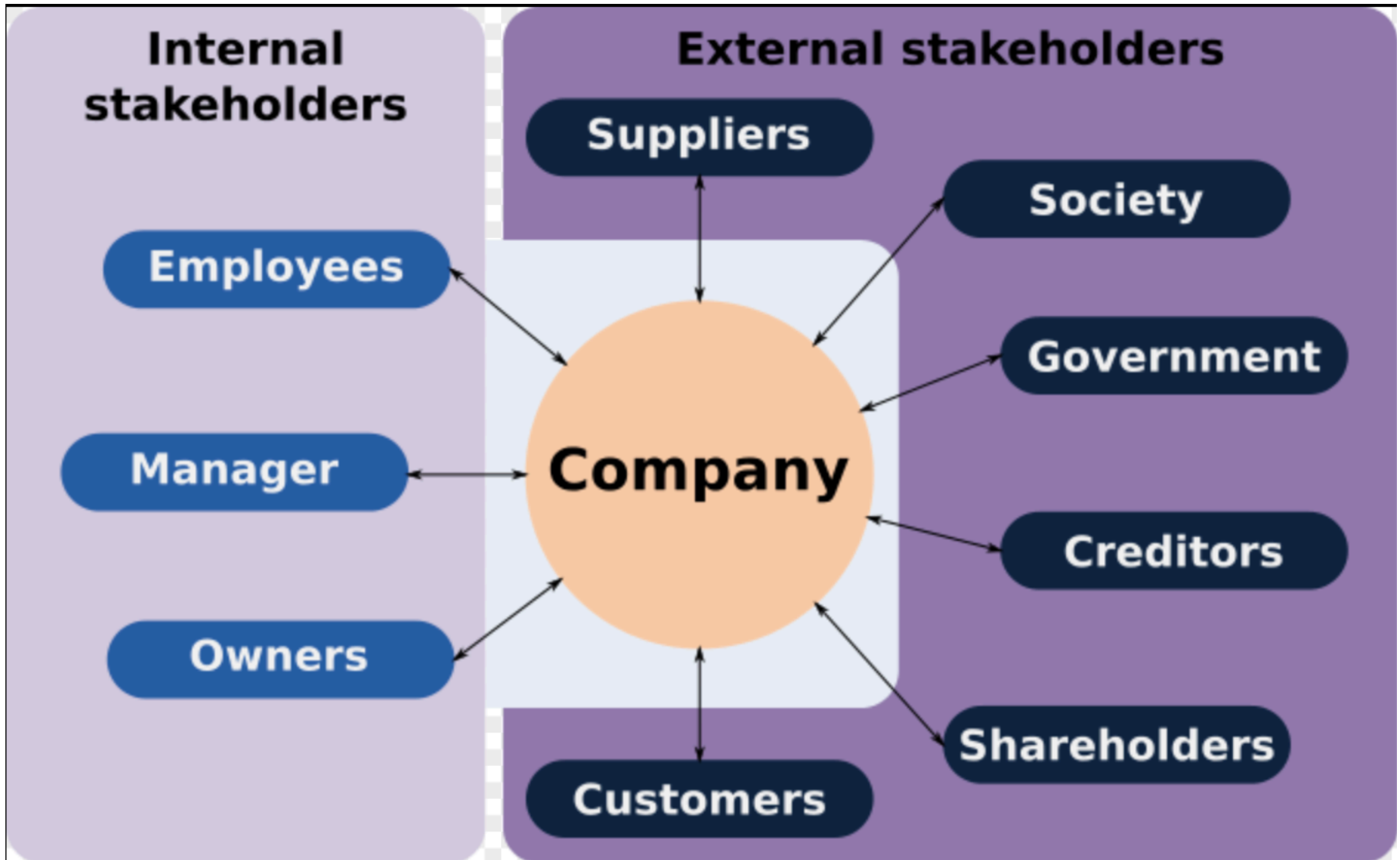


**The Basic Design Steps Logic:
a summary
Notice the emergence of the Stakeholder concerns**

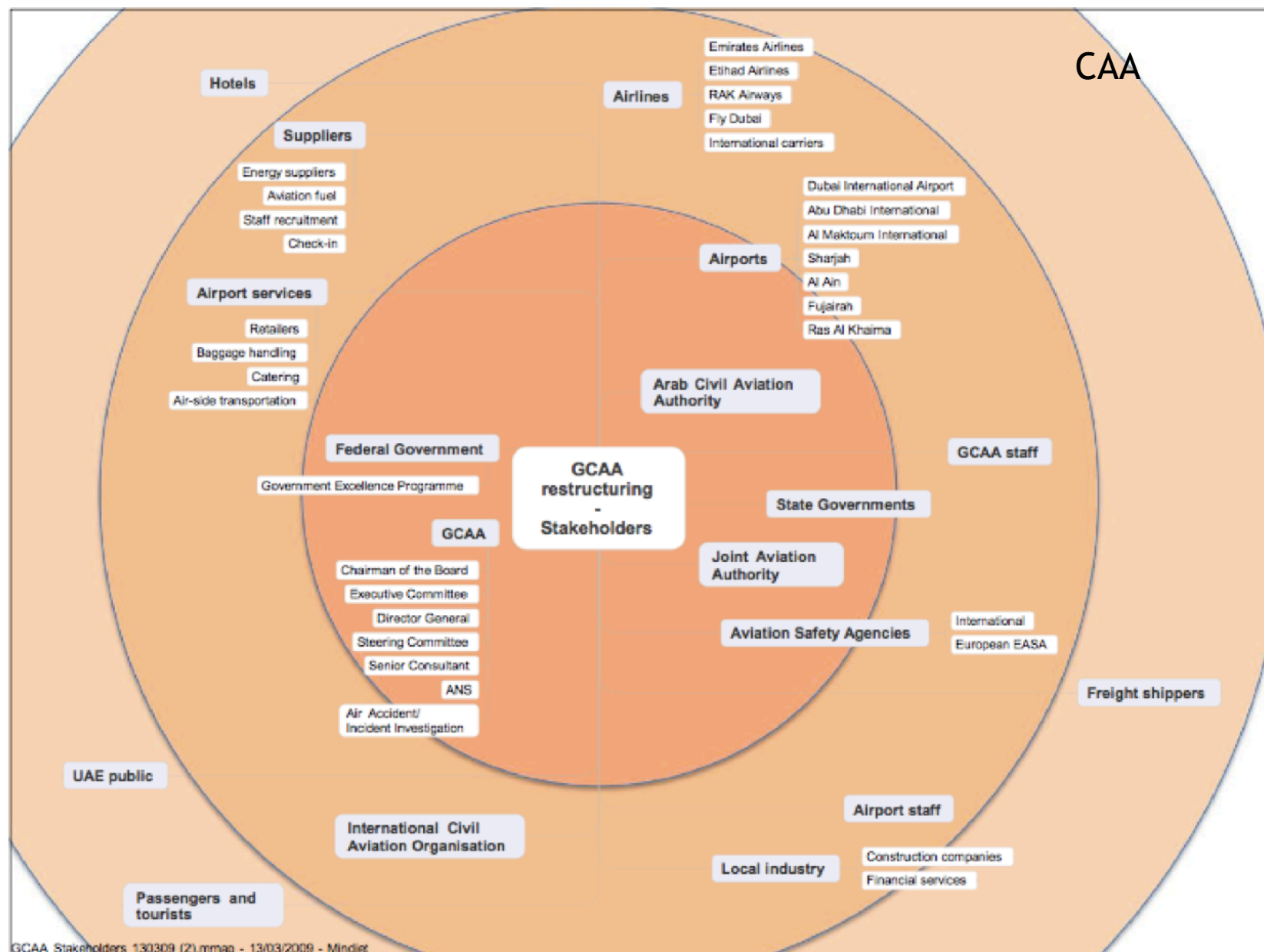
**The Logic of Design:
Design Process Principles.
Tom Gilb, 2016, Paper.
<http://www.gilb.com/dl857>**

1. Constraints determine environments.
2. Environments determine stakeholders
3. Stakeholders have values and priorities
4. Values have many dimensions
5. Stakeholders determine value levels
6. Design hypotheses should be powerful and efficient ideas, for satisfying stakeholder needs
7. Design hypotheses can be evaluated quantitatively, with respect to all quantified objectives and resources
8. Designs can be decomposed, to find more efficient design subsets, that can be implemented early
9. Designs can be implemented sequentially, and their value-delivery, and resource costs, measured
10. Designs that unexpectedly threaten achievement of objectives, or excessive use of resources, can be removed or modified.
11. Designs that have the best set of effects on objectives, for the least consumption of limited resources, should generally be selected for early implementation.
12. A design increment can have unacceptable results, in combination with previous increments, and they, or it, might need removal or modification
13. When all objectives are reached, the process of design is complete: except for possible optimization of operational resources, by even-better design.
14. When deadlined and budgeted implementation-resources are used up, it might be reasonable to negotiate additional resources; especially if the incremental values are worth the additional resources.

SLIDES ADDED BY TOM 24 JUNE 2017, and Tuesday 30 June GilbFest



[https://en.wikipedia.org/wiki/Stakeholder_theory#/media/File:Stakeholder_\(en\).svg](https://en.wikipedia.org/wiki/Stakeholder_theory#/media/File:Stakeholder_(en).svg)



GCAA Stakeholders 130309 (2).mmmap - 13/03/2009 - Mindjet

Impact assessment table

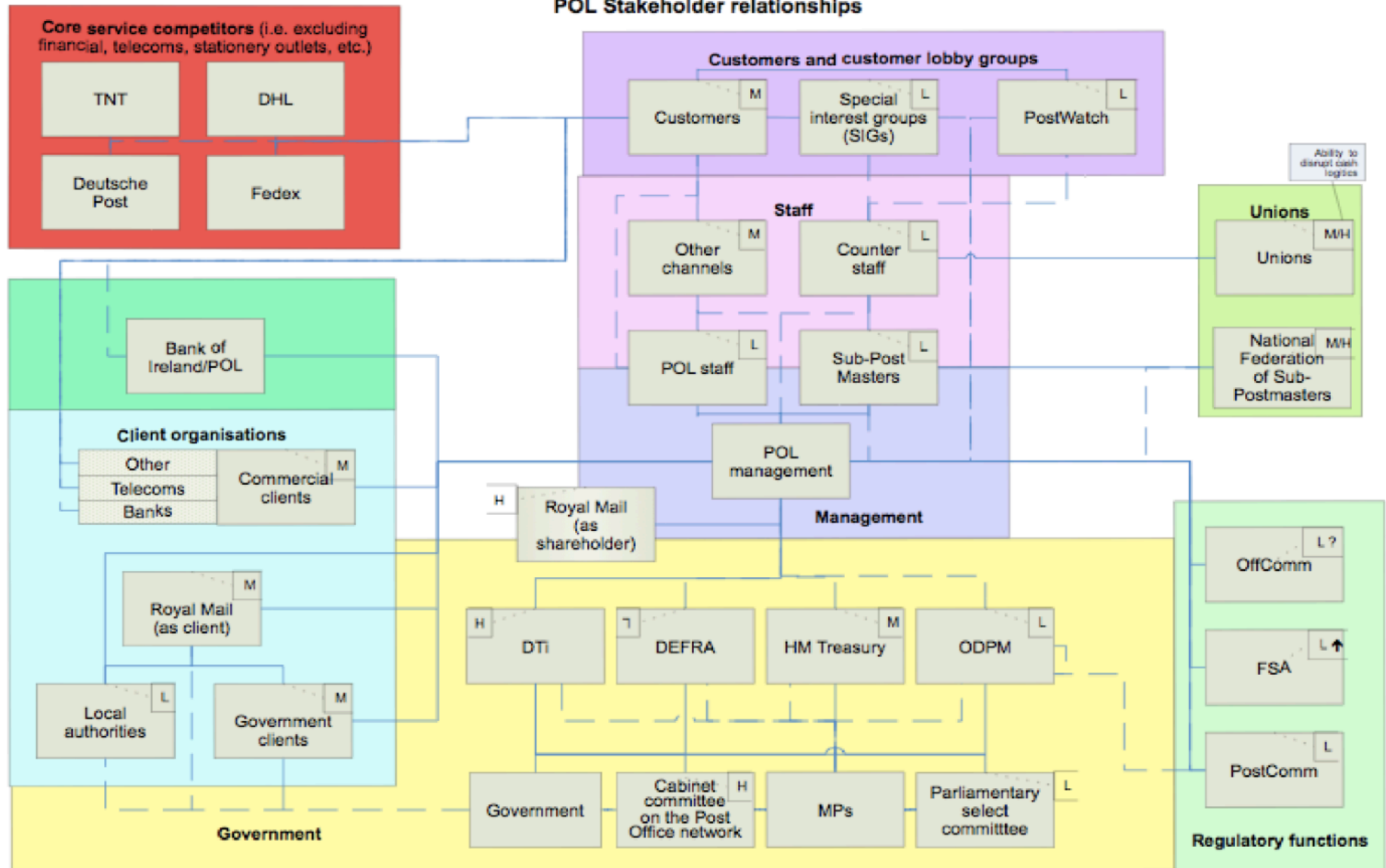
Purpose: to assess the current and future commercial importance of stakeholders in a value network.

Current importance is impacted by the introduction of new technology.

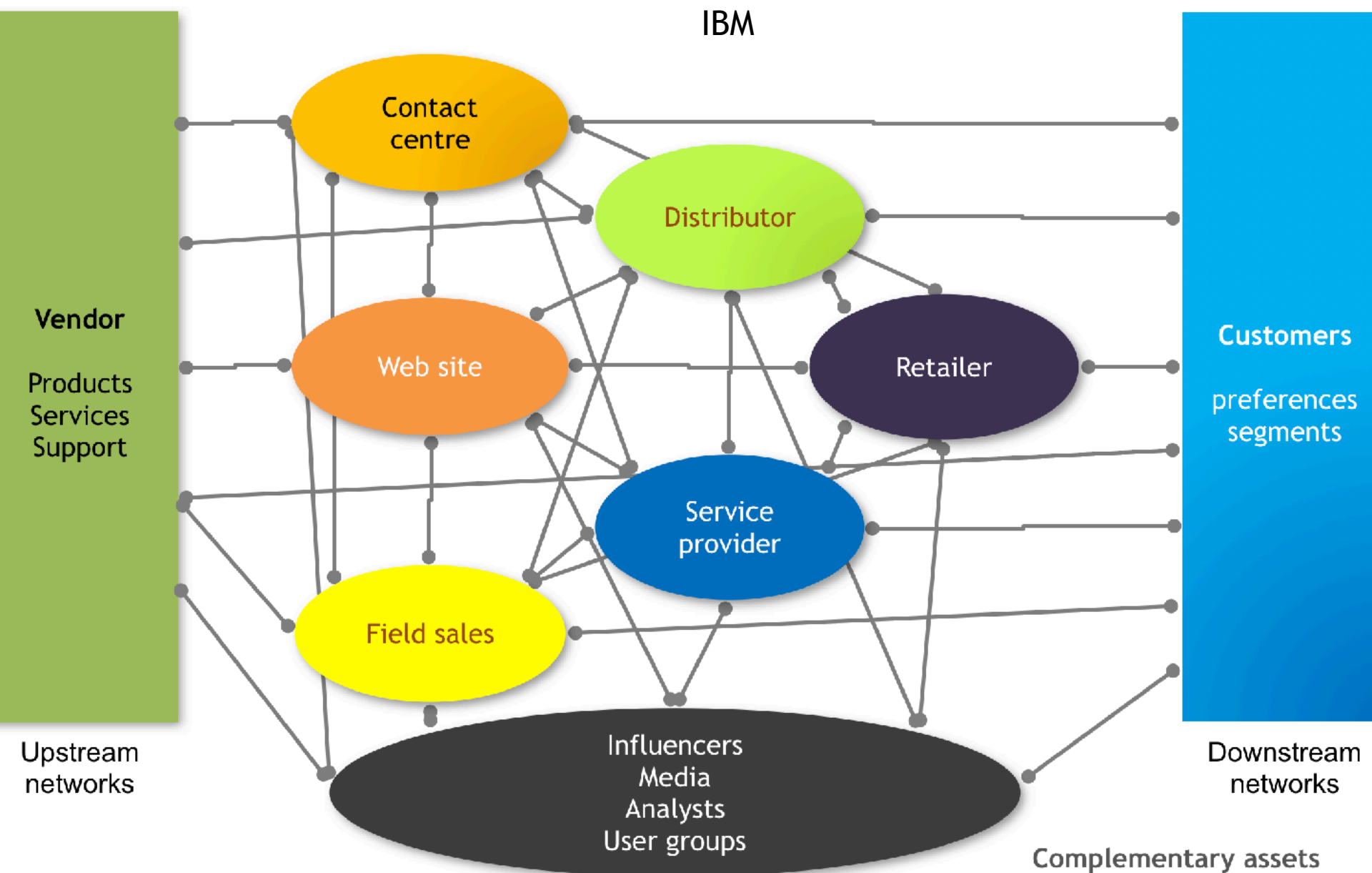
Notes

Stakeholder	Stakeholder type		Current importance of stakeholder in value network	Future importance of stakeholder on introduction of new technology	Propensity of stakeholder to change from current to future role in the value network	The scores in this tables are represented by the thickness of the connections between the stakeholders in the value network. The connections are shown in the value network map generated by uploading the worksheets to kumu.io
Label	Type	Description	Current importance	Future importance	Propensity to change	The headings of the columns in this row are required for the upload to kumu.io
Standards organisation	Certifier		4	4	1	Scoring
eTailor	Retailer		2	3	5	5 = very high importance
Brand owner manufacturer	Brand		5	4	3	4 = high importance
Content processor	Production factory		5	5	4	3 = medium importance
Advertising agencies	Cooms		3	4	4	2 = low importance
Distributor	Distributor		2	3	3	1 = very low importance
Design agency	Agency		2	4	4	
Health and safety regulator	Certifier		5	5	2	The double space between Design and in cell A9 inserts a return so the Label is on two lines in the kumu map.
Content packager	Service provider		5	5	2	

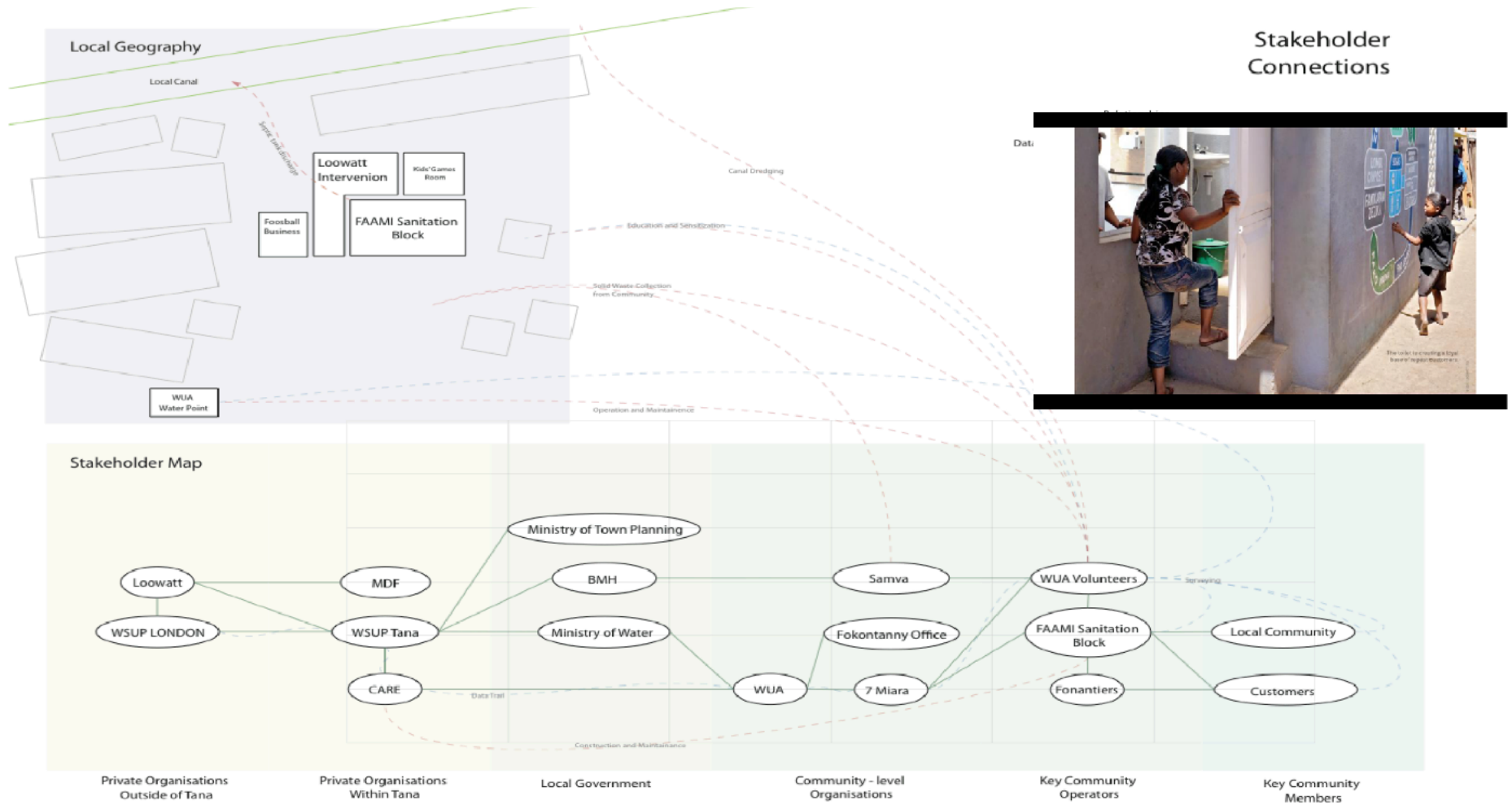
POL Stakeholder relationships



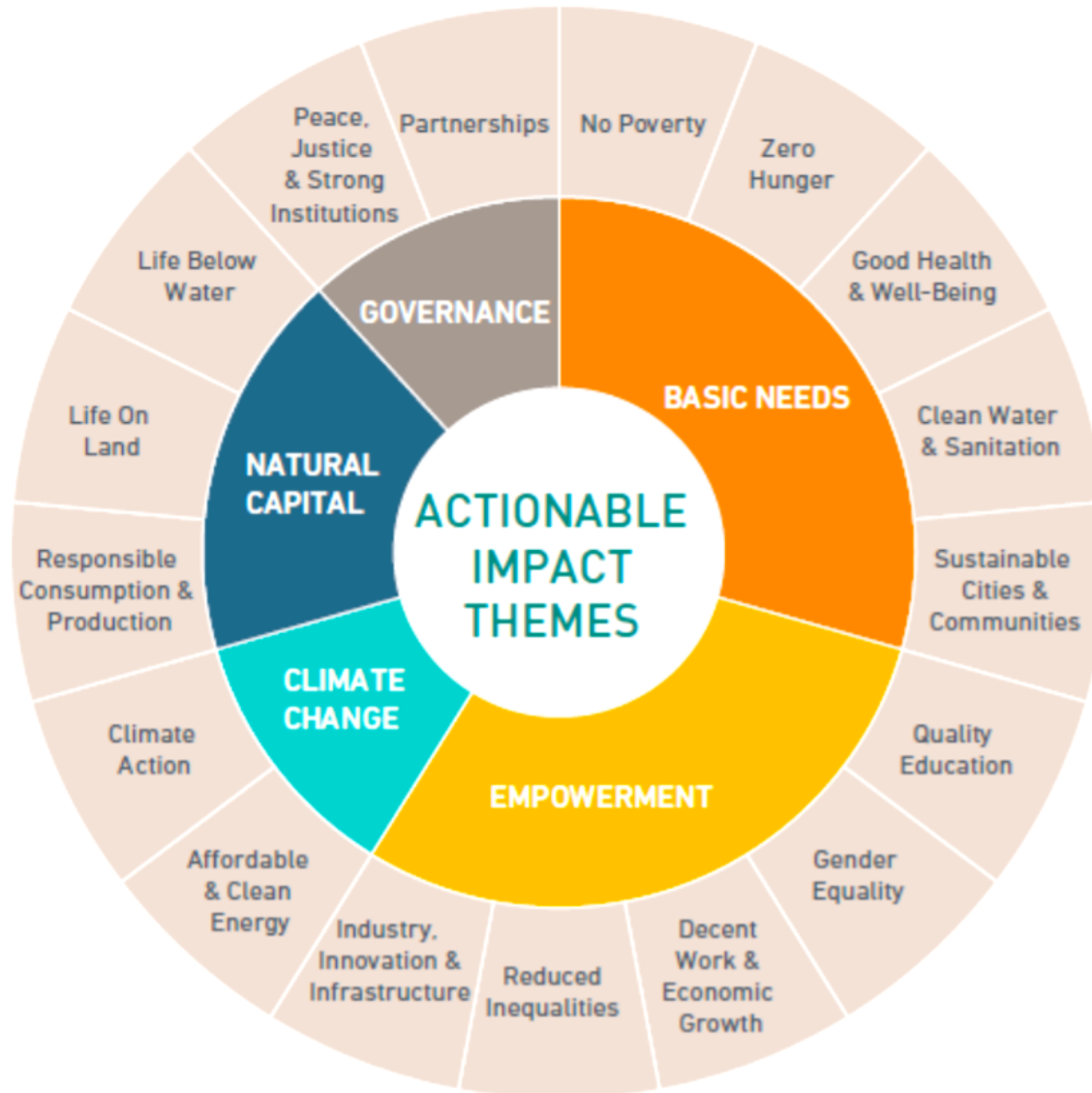
L = low influence, M = medium influence, H = high influence file name = stakeholder relationships 0.5 240506.vsd



The child is enjoying a legal bathroom experience.



IMPACT STAKEHOLDERS



Business Objectives v1.5 (sample)

Customer wants to...		So, the current strategy is to...	If so, Customer would see...	Through the following metrics...	As measured by...	Monitored by...	Moving from...	To...	Priority
Business Objective	Subordinate Objective	Outcomes Required	Measure	Metric	Meter	Monitor	Now	Target	(H/M/L)
1. To create a new IT architecture that will be used by Customer in the future and will enable us to remove reliance on the Customer legacy systems.	1.1 To choose set of Software development tools that can be used by all of Customer IT	A chosen set of Software development tools used by all of Customer IT: - Agreed set of tools - Implemented - Customer staff trained - Sustainable - Workable within the Customer ISMS (and UK legislation)	- Agreement between key Stakeholders has been achieved before development effort gets too great. - A documented evaluation of the tool has been completed. - Does a tool pass or fail a formal review after a period of use. - Formal training course is available and course completion is tracked and signed off by the team lead.	- Agreement reached Y/N - Evaluation is completed Y/N - Formal Review is completed Y/N - For each person using the tool, training course completion is signed off	- Tracking Sheet for each Tool. - For each person, Training Tracking Sheet for the tools used.	- Tool Tracking Sheets: Adam Bright - Training tracking sheet: Product team (Adam?)	Nothing for the new technology environment.	Implement tracking sheets for each new design documentation tool from now.	II
	1.2 To choose a set of design documentation tools that can be used by all of Customer IT	A chosen set of Design documentation tools used by all of Customer IT: - Agreed set of tools - Implemented - Customer staff trained - Sustainable - Workable within the Customer ISMS (and UK legislation)	- Agreement between key Stakeholders has been achieved before development effort gets too great. - A documented evaluation of the tool has been completed. - Does a tool pass or fail a formal review after a period of use. - Formal training course is available and course completion is tracked and signed off by the team lead.	- Agreement reached Y/N - Evaluation is completed Y/N - Formal Review is completed Y/N - For each person using the tool, training course completion is signed off	- Tracking Sheet for each Tool. - For each person, training tracking sheet for the tools used.	- Tool Tracking Sheets: ? - Training tracking sheet: ?	Nothing formally identified. Currently - Excel - yEd - JIRA - Confluence.	Implement tracking sheets for each new technology tool from now.	II
	1.3 To prove that we can remove reliance on the legacy system	Show we can remove reliance on the legacy system: - A POC has been built and is demonstrably sustainable within the context of a migration plan for the legacy systems	- Migration Plan exists - POC has been commissioned (to build one or more digital services in the new technology environment and to implement them) - A Sustainability Evaluation has been completed.	- Migration Plan completed Y/N - POC has been completed Y/N - Sustainability Evaluation completed and the POC has passed / failed and why.	Tracking Sheet for the POC.	Damon Petta	Nothing	POC Passed.	II

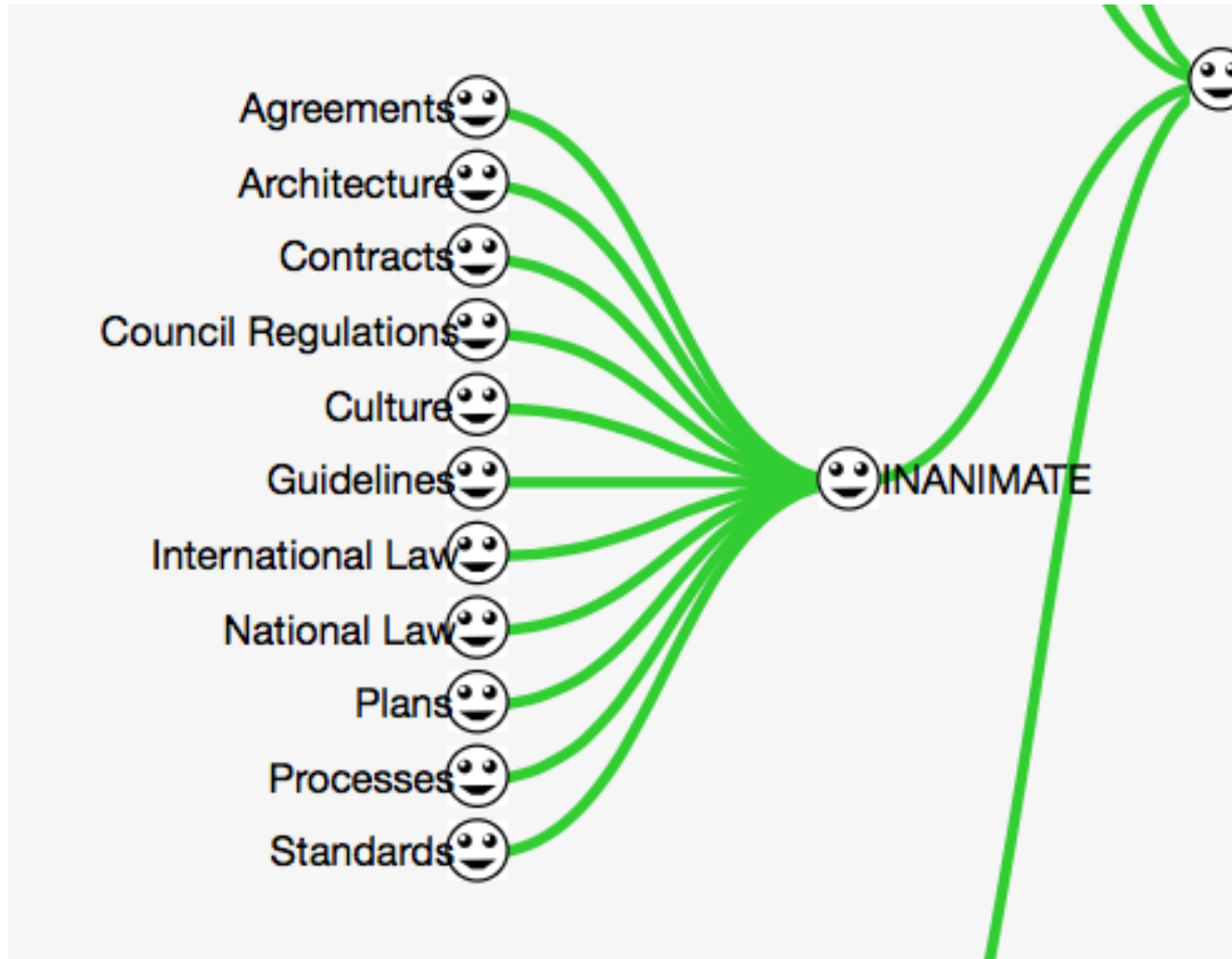
Stakeholder Value delivered #1

Business Objectives July 2016:				Value delivered						
Type of Requirement	Requirement Description	Outcome required	What achieved?		The Customer	EW	3SP1	3SP2	IT Director	Dev Teams
1 Business Objective	1. To create a new IT architecture that will be used by the Customer in the future and will enable us to remove reliance on the Customer's legacy systems.	Value required: - Agreed IT Architecture to use - Agreed IT Analysis and Design standards and tools to use - Agreed IT Development standards and tools to use - IT System Implementation and Operating standards to use - To demonstrate how the new technology delivers real business value	- The Customer employed an IT Architect who is developing the new IT architecture in parallel to current development - IT Analysis and Design standards and tools identified and agreed. All these standards have been successfully implemented. - IT Development standards and tools agreed but some replaced by new Customer developers brought onto the team who wanted to use the tools with which they were familiar - Only system development team to fully utilise JIRA - System testing standards agreed although testing toolset "evolved". - System implementation standards reviewed and recommendations made and agreed - still to be implemented.	Pre-Jun 2017	🟡 Most of the original outcomes required were achieved. Some new (middleware) requirements have been introduced since by the Customer and although these have presented some problems, the Customer realise that this is for reasons outside the control of this project.	🟡 EW have established a good reputation in general and especially for the BA work done.			🟡 As part of the Business Analysis, a review of the Customer-3SP1 service contract highlighted serious risks to be addressed, on which the IT Director has subsequently acted.	🟡 Better defined standards and better quality QA. "Best defined system ever" in the Customer <- Customer Development Manager, Mar 2017
				Post Jan 2018					🟡 New system designed for adaptability and easy maintenance.	
2 Business Objective	2. To build a set of Customer Energy services to enable us to interact with the SMETS 2 environment using the new chosen technology	Value required: - All key SMETS2 business services (workflows) identified, defined and prioritised for development - Development Roadmap identified and harmonised with key 3SPs - New system developed and tested to ensure (prioritised) requirements met - Commercial Releases of the new system agreed with the business and met on time	- All significant business workflows and supporting digital services identified and prioritised - Development Roadmap was developed, prioritised and agreed. The priorities were also agreed with the 3SP at the time. - Original commercial release not met. However, the (first version of the) most important workflows were developed and tested as much as was possible at the time. These constituted technical releases.	Pre Mar 2017	🟡 With 3SP1: - Established the fundamental system and isolated the 3SP services to specific pattern of work and hence services. - Had substantial difficulty in rationalising information environment with the 3SP Service Request input and output and eventually blocked on every workflow	🟡 - EW BA and QA teams worked closely with that of UW and shared progress and lack of it openly with all. - EW Dev team became very frustrated and disillusioned - EW provided much of the evidence required for a forthcoming legal challenge to 3SP1	🟡 3SP1 not "collaborative" and slow to respond to problems. Judged increasingly as unreliable and poor quality		🟡 System development running seriously over-budget, apparently for technical reasons.	
				Post Mar 2017	🟡 With Aproz, so far (as WIP): - Sorted out information blockers and discovered that the 3SP1 software would not have worked without substantial re-definition and development. - Progress slow to start as we re-established agreed patterns but now accelerating as supporting services required completed and tested.	🟡 - New development schedule is demanding but appreciation of the work done so far is growing	🟡 Loss of Customer to 3SP1 will have caused serious economic and reputational damage	🟡 Acquisition of the Customer was a big deal and will be of major economic benefit.	🟡 Original business decision to appoint 3SP1 taken before the IT Director was appointed. This absolved the IT Director, but the budget hole remained.	

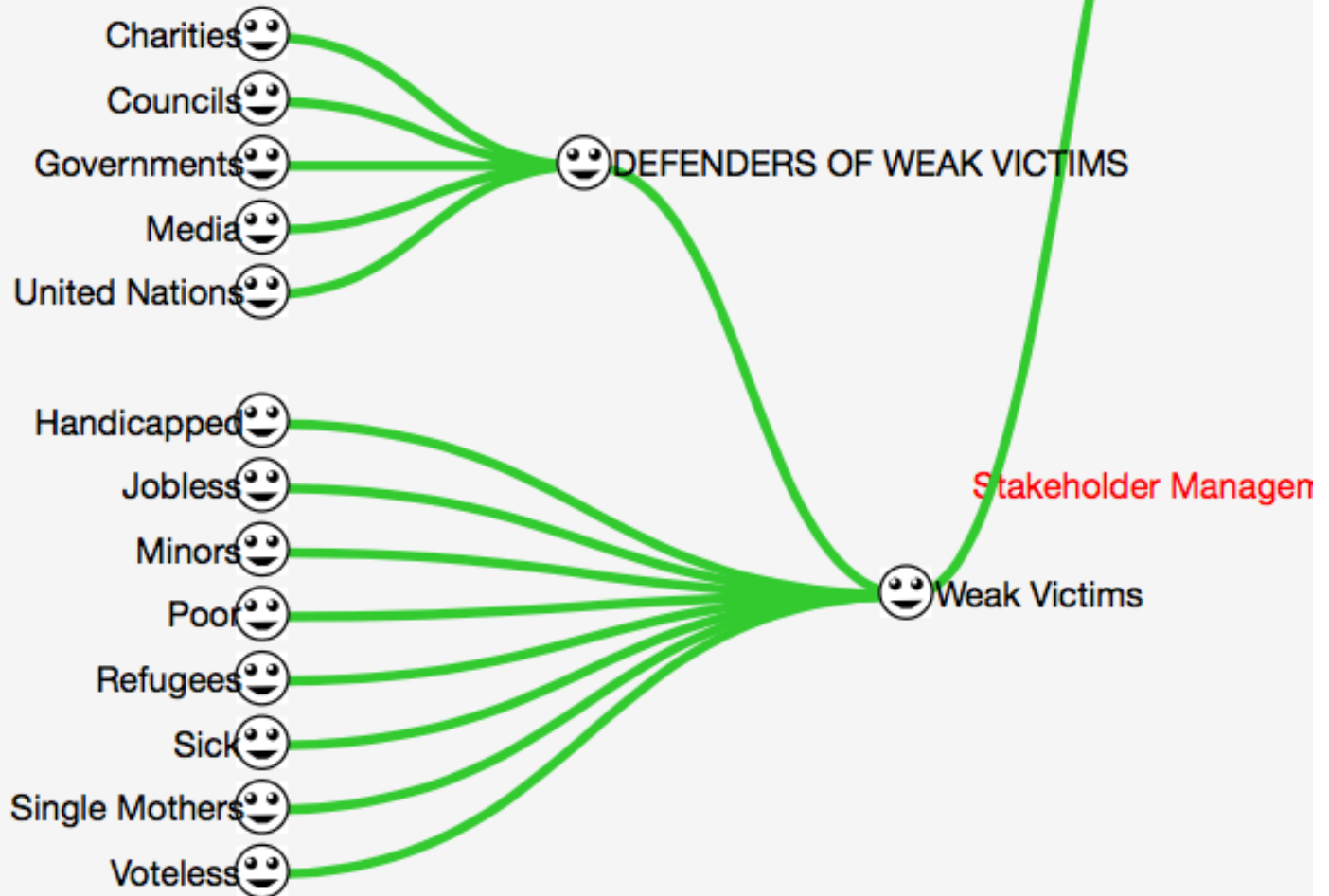
Stakeholder Value delivered #2

Business Objectives July 2016:				Value delivered						
Type of Requirement	Requirement Description	Outcome required	What achieved?		The Customer	EW	3SP1	3SP2	IT Director	Dev Teams
3 Business Objective	3. To integrate with the SMETS 1 environment using the new chosen technology (removing reliance on the legacy interface) (Note: This objective is incremental to objective 2 and in practice can be merged with objective 2).	Value required: - Integration requirements with existing SMETS1 and "Classic Meter" systems identified - Existing systems integrated successfully.	- The SMETS1 and Classic integration points were identified as digital services to allow for a dataset focused and modular integration and to facilitate later deprecation of legacy systems.		😊 - Other SPs and UW systems are being integrated as services at the level of each workflow (so far successfully) - New UW middleware is the only problem area here.				😊 Service-based structure designed to integrate legacy systems and pre-SMETS2 technology 3SPs will facilitate the deprecation and decommissioning of old systems and services.	😊 New system designed for adaptability and easy maintenance.
4 Business Objective	4. To instal, commission and be able to operate the first SMETS 2 Meter by Dec 2016.	Value required: - Commercial Releases of the new system agreed with the business and met on time		Pre-Dec 2016	😊 - The DCC failed to meet deadlines and much of the industry has been experiencing difficulties, so this objective has progressively moved out				😊 IT Director under pressure to deliver on time because of impact on related projects	
5 Business Objective	5. To instal and commission 250 SMETS 2 Meters to meet the early roll out obligation	Value required: - Next level of priorities from the Development Roadmap completed - Target of 250 SMETS2 meters installed met by 1Apr2017 (Initially). This also required the Customer to get Information Security clearance for itself and the appointed 3SP from the DCC.	- As a result of the difficulties above, the Customer were not able to attempt automation of the next level of automation priorities, let alone commission even one new SMETS2 meter. - The 3SP1 failed to get Information Security clearance (too many qualifications).	Pre-Mar 2017	😊 - The "early roll-out obligation" progressively moved out but the Customer was still required to meet Information Security requirements even though the 3SP1 did not, a £6m fine for not meeting this objective seems to have been avoided for the time-being (but has not been removed).				😊 - The prospect of an industry fine is greatly diminished but not removed. - This still remains an important target but now of lesser importance.	
Business Risk	Subsequent, unwritten objective: To minimise risk of adverse impact to other objectives from a potentially rogue 3SP	Value required: - If the 3SP failed to deliver adequate services for testing, implementation or subsequent operation, provision has been made in system design and development to provide for such a failure - Monitoring of the 3SP performance was carried out and documented	- A good record of interactions with 3SP1 was kept by the Customer and EW. - As soon as the decision was made to terminate the contact with the 3SP1 a baseline of all relevant IT documentation was taken. - EW extracted from this baselined documentation much of the evidence for the legal challenge to the 3SP1.		😊 - After the EW report, the Customer monitored the 3SP1 carefully from several perspectives, not least of these, Info Security. - It is extremely likely that if the Customer had not switched to the 3SP2, staying with the 3SP1 would have cost them dearly; in development, on-going maintenance and support, not only from a direct cost perspective, but also from the indirect cost, error and time-delay perspectives.	😊 - EW highlighted the severity of the risk associated with 3SP1 on several fronts. - EW BAs were also instrumental in monitoring the activities of 3SP1 and reporting many of the deficiencies of the 3SP1 approach and analysis. - EW BAs also provided much of the evidence for the legal challenge to 3SP1 - It has since become clear that the solution provided by the 3SP1 could not have worked in some areas, let alone worked efficiently.			😊 - The IT Director was instrumental in persuading the more recalcitrant Board to switch from 3SP1. - Support from EW BAs in particular will help boost the wisdom of this move for the future.	

Inanimate Stakeholders



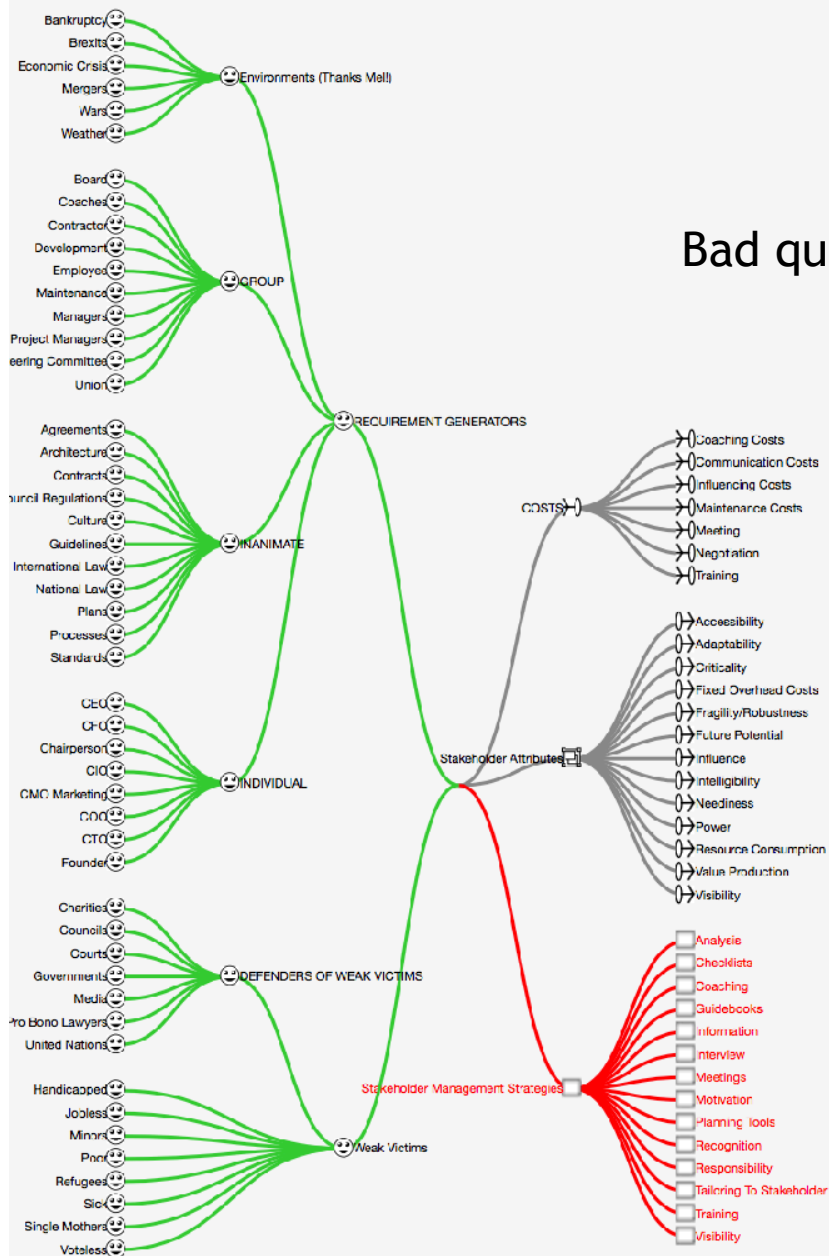
Victims and defenders





Stakeholder Categories

Bad quality discard 2020 tg

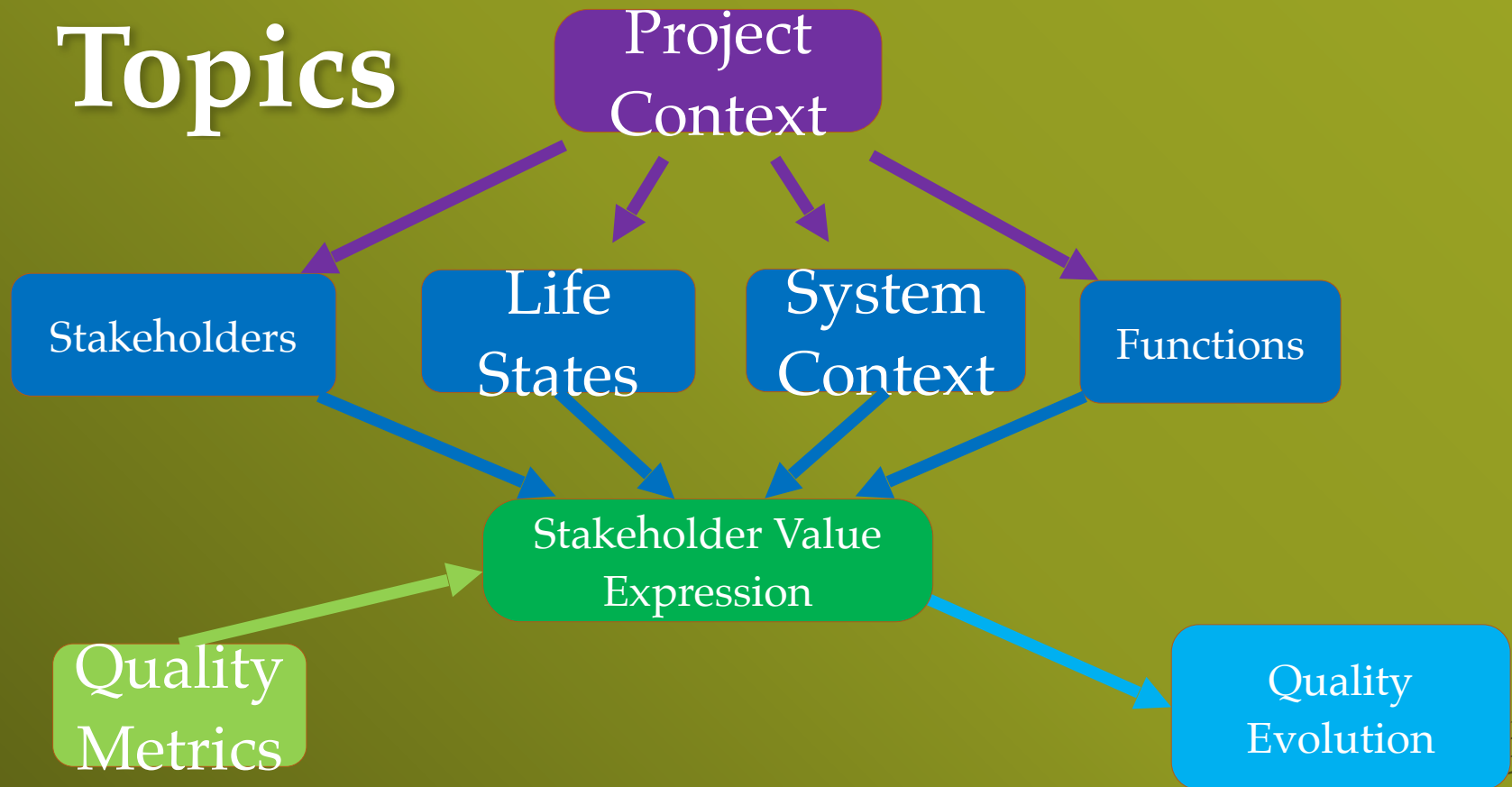


Stakeholder Value: Project Success

A CASE STUDY OF THE **QUALITY EVOLUTION**
OF STAKEHOLDER VALUE EXPRESSION
DURING THE DEVELOPMENT OF THE PROCUREMENT CONTRACT
FOR
A FLEET OF VEHICLES FOR THE NORWEGIAN ARMY, VALUED AT
3000 MILL. NOK – €330M - £273M - \$360M

By Simon Wright – Systems Engineering
Insultant

Topics



Project Context



Therefore I cannot tell you
everything

Copyright Simon Wright, Symtech Ltd 2017

Key values



FORSVARSMATERIELL

Landdivisjonen

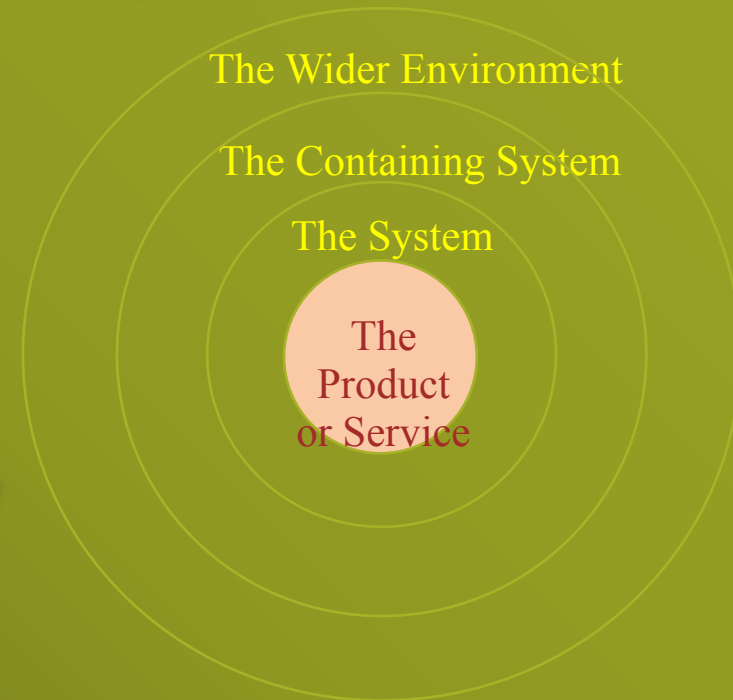


27.06.2017

My thanks go to the
Land Division of the
Norwegian Defence
Material Agency for
allowing me to present
our work on Project
VIDAR

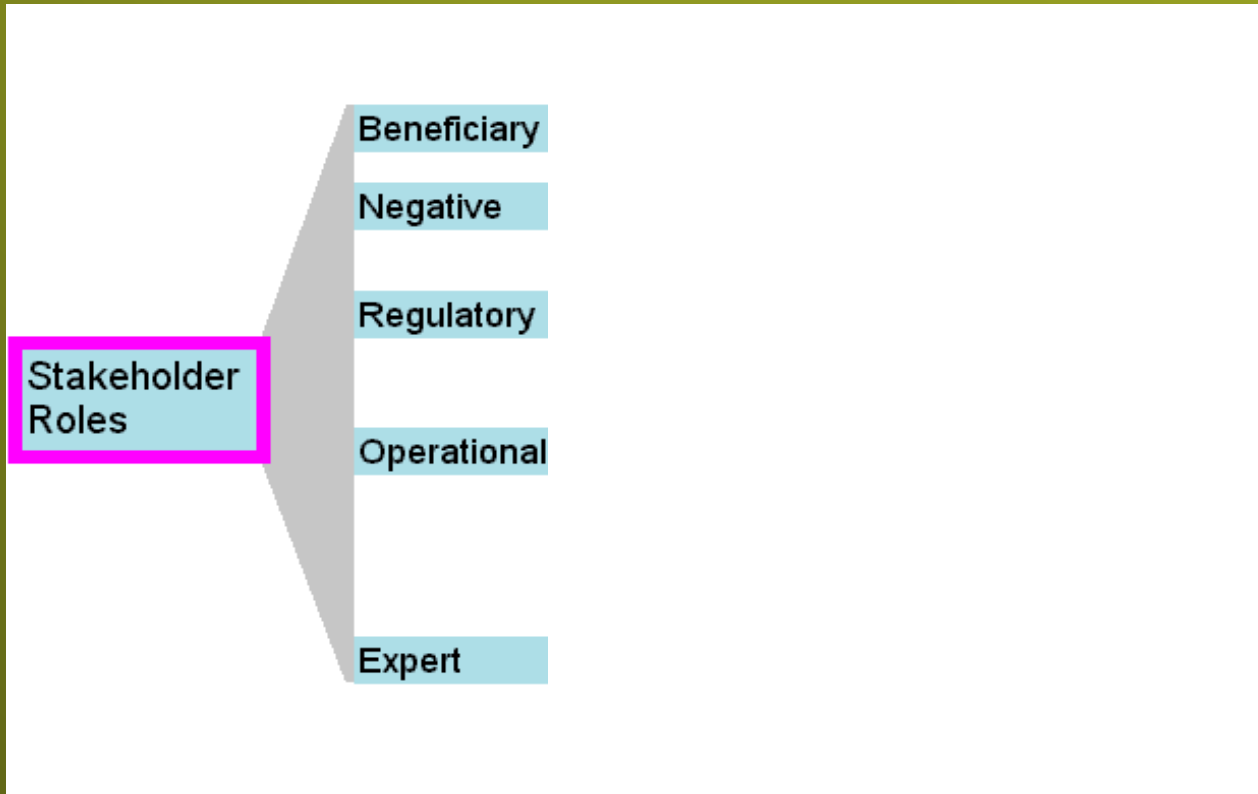
Stakeholder Identification

- The Product or Service
 - Contains no stakeholders
- The System (of interest)
 - The Product or Service plus the people who operate the product or deliver the Service
 - Also often includes training, support and maintenance
- The Containing System
 - Those who immediately benefit from the functions carried out by the System or Interface with it
 - Are usually, but not necessarily, different from the operators
- The Wider Environment
 - People who are affected indirectly, such as derived benefit of induced harm.

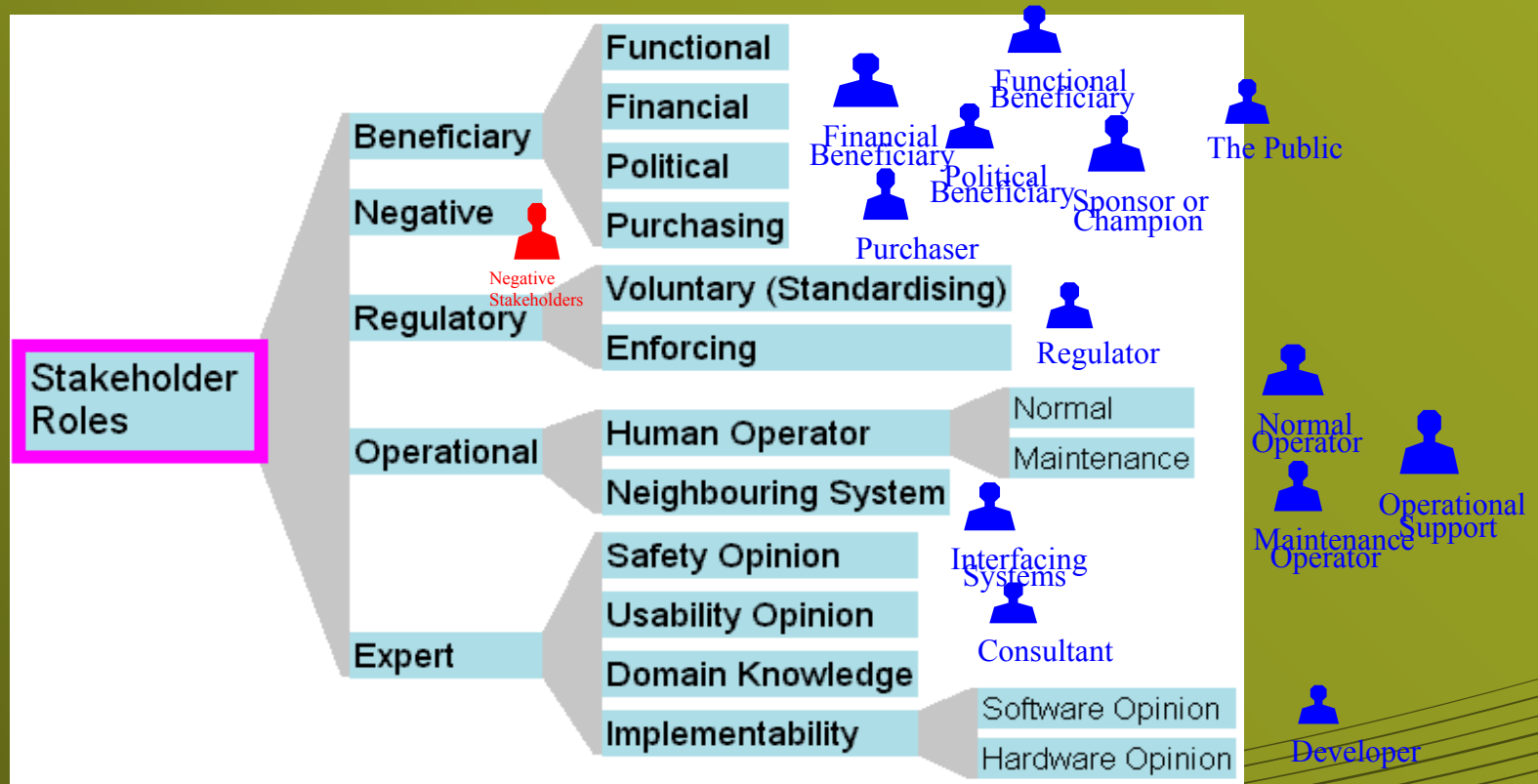


© Ian Alexander
2006

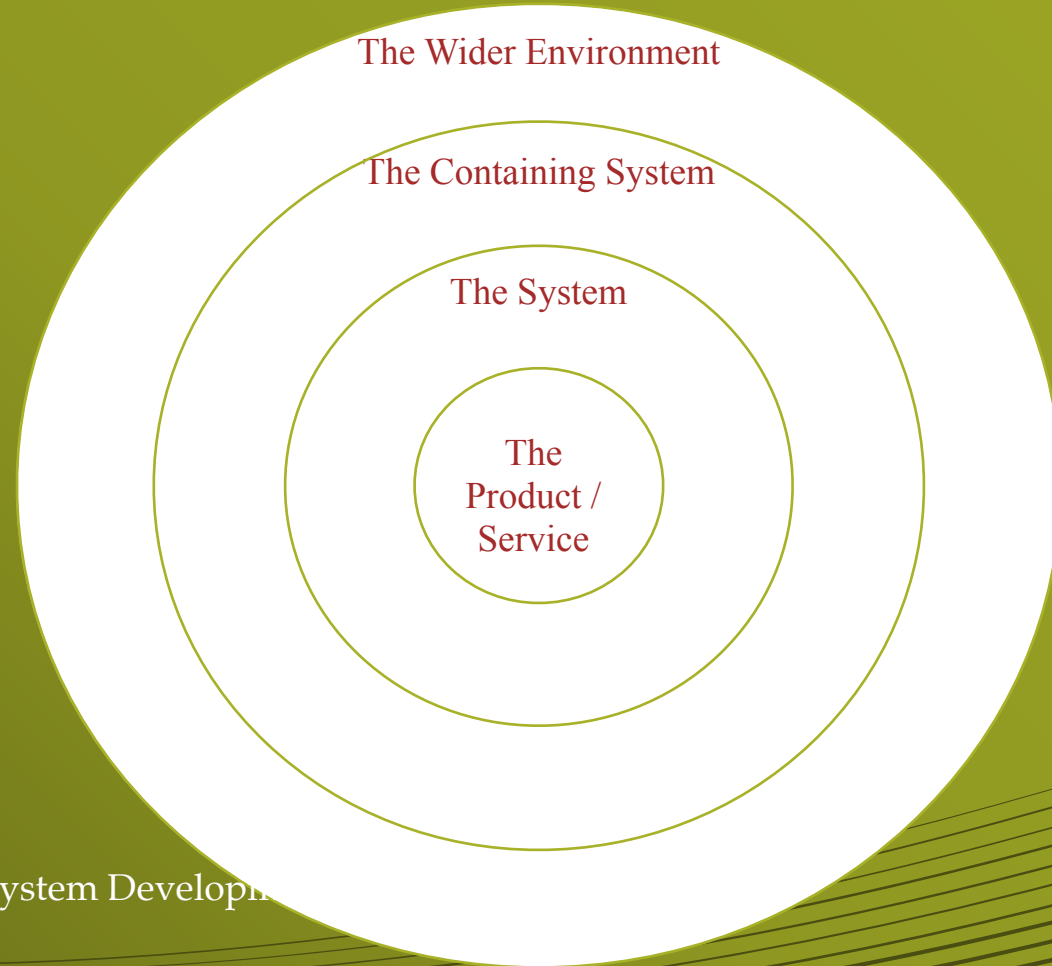
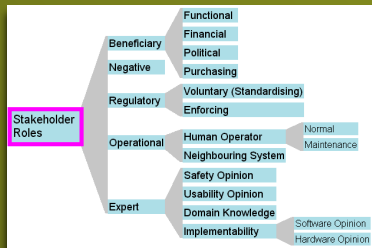
Classes of stakeholder (= role)



Classes of stakeholder (= role)



Roles to levels



A Taxonomy of Stakeholders - Human Roles in System Development

Ian F. Alexander

International Journal of Technology and Human Interaction, Vol 1, 1, 2005,
pages 23-59

http://www.scenarioplus.org.uk/papers/stakeholder_taxonomy/stakeholder_taxonomy.htm

Stakeholder Analysis

Result: A list of stakeholder roles

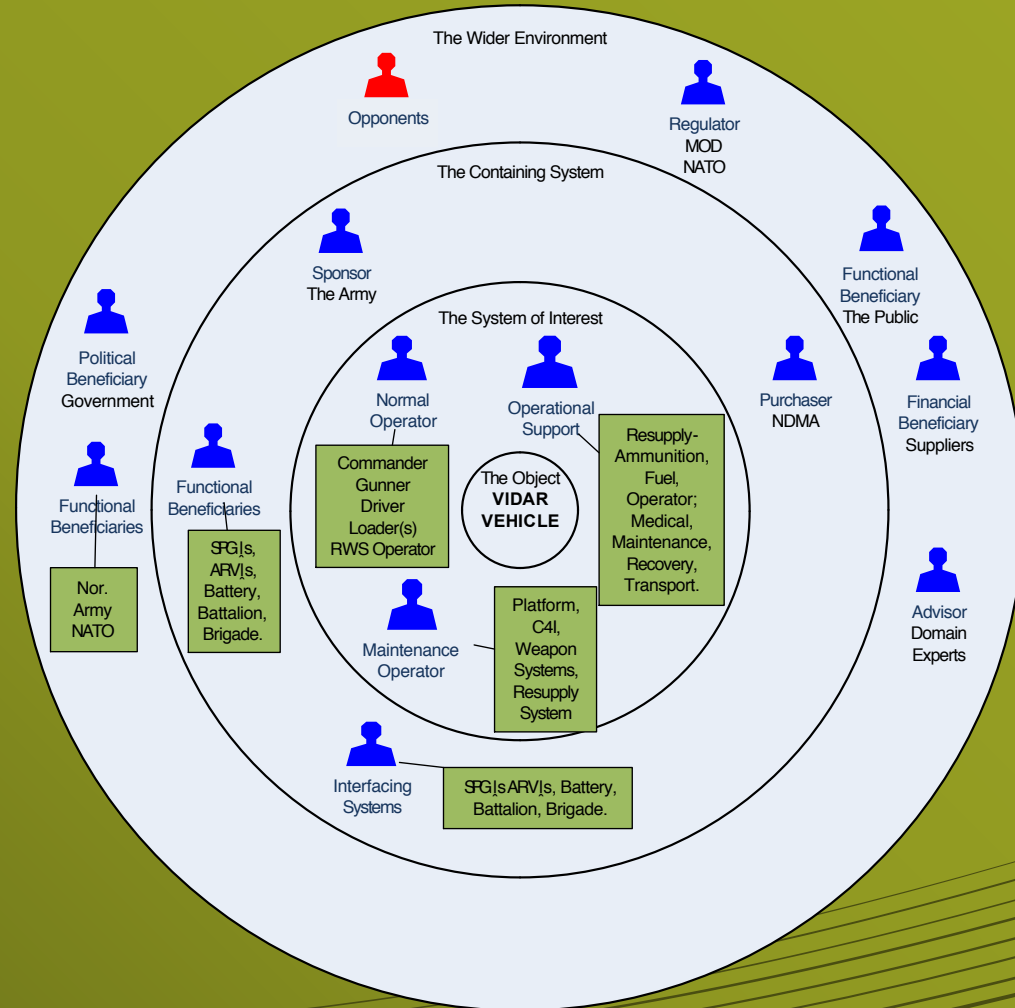
Output: Subjects for value statements

As a **Commander** I want ...

As a **Loader** I want

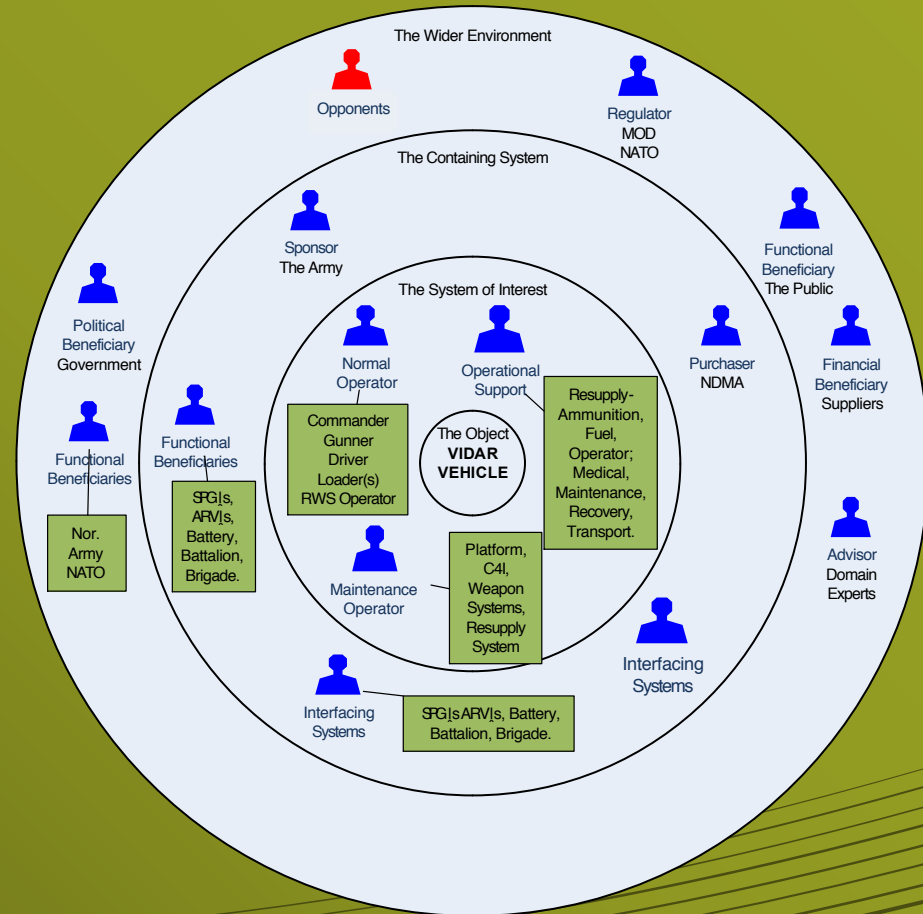
As a **Gunner** I want

Outcome: A shared understanding.



Interfacing Systems

- Many of the domain experts spoke about the need to use systems to perform specific functions that did not feature in the Context diagrams nor in the Stakeholder diagram
- The 'missing' equipment was specific to Norway
- The description of what was needed was incomplete
- We discovered a new State – the Purchased State and a new key value.



Stakeholder Value

- can be verified
- must be **met** by the product in order to deliver the expected stakeholder value
- is qualified by measurable conditions and bounded by constraints
- defines performance or capability
- Expressed in a pattern
- “low resistance” to next level.

As a	[Actor – who/ what does the action]
I want to	[Action – what happens e.g. store, update, send data]
the	[Object – what is acted upon]
on/at the	[Target – where the output is sent]
with	[Performance - frequency and /or quality characteristic]
when	[Trigger – causes of action; data receipt/user
interaction]	
unless/ even if	[Constraint – business rule or limiting factor]
So that	[Rationale - description of value or benefit is achieved].

As a Commander I want to fire (the) two shells at the target within X seconds when the cannon is loaded even if the target is outside of the maximum

Planguage Definition

A stakeholder is

any person, group or object,

which has some direct or indirect interest

in a defined system.

Stakeholders can exercise control over

- both the **immediate system operational characteristics**,
- as well as over **long-term system lifecycle considerations**
 - (such as portability, lifecycle costs, environmental considerations, and decommissioning of the system).

Notice:

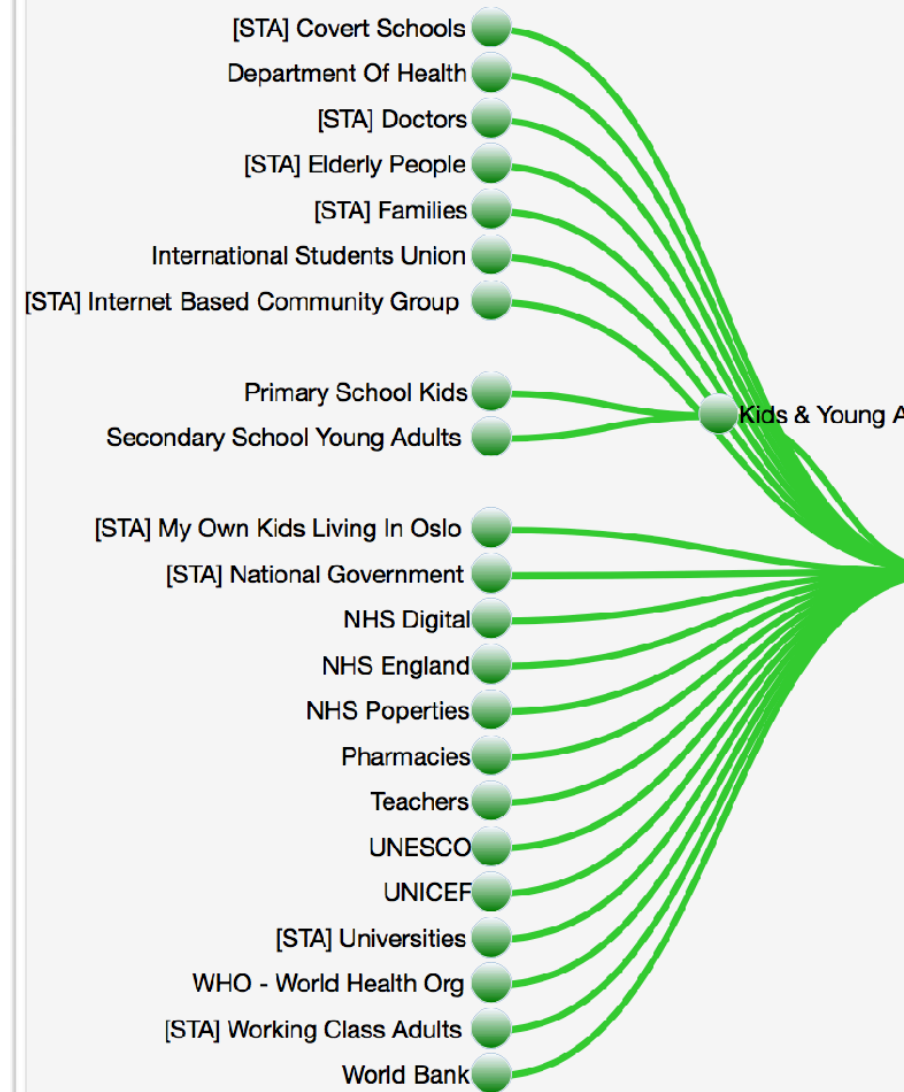
'or object'.

This includes laws, regulations, plans, policies, customs, culture, standards.

Inanimate.

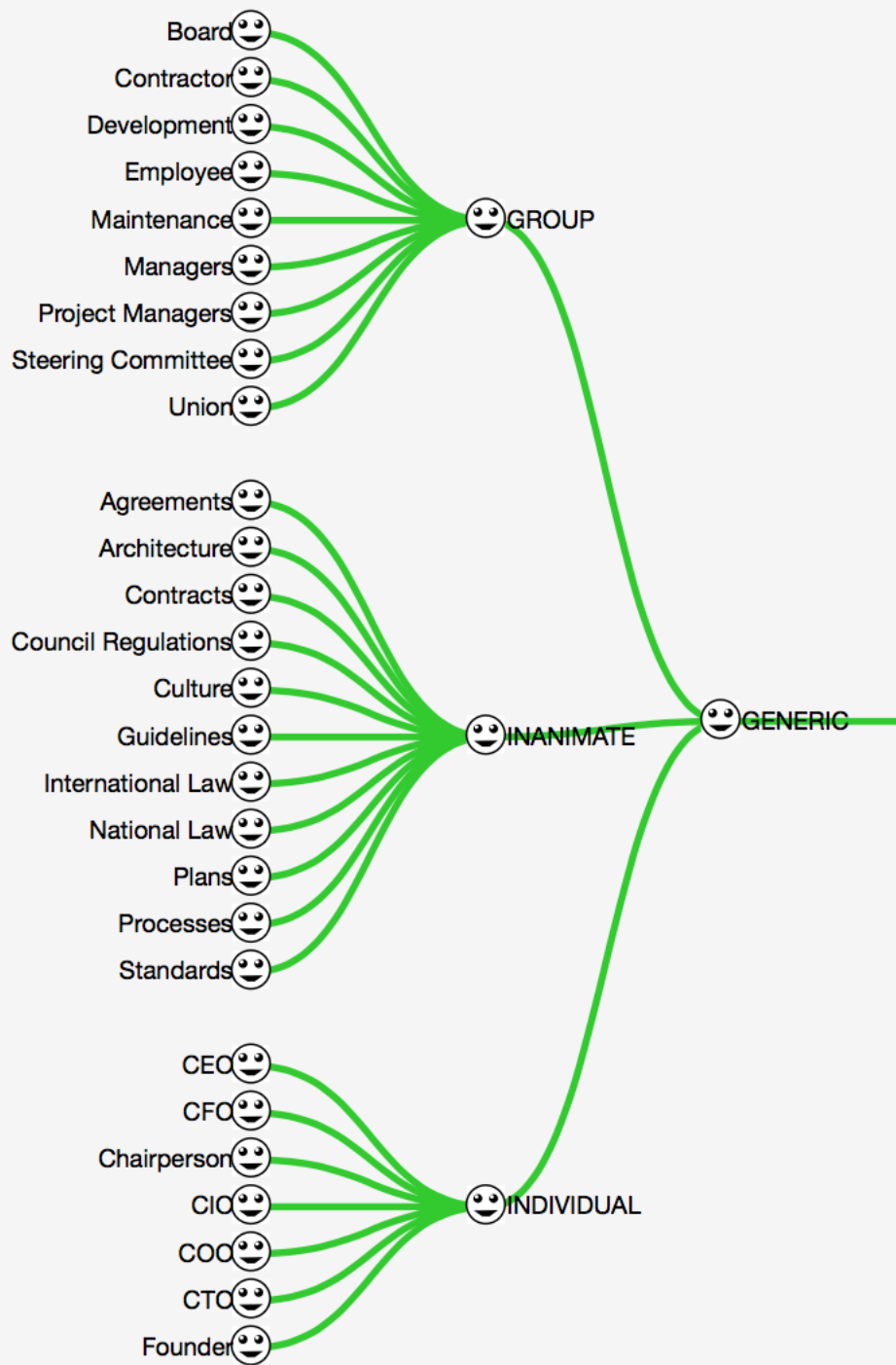
- you cannot ask them or discuss with them.
- But you can analyze them, their priority, the degree of relevance.
- They can determine if your system is illegal, or acceptable.
- Determine success or failure.

Icon  (Source of requirement)



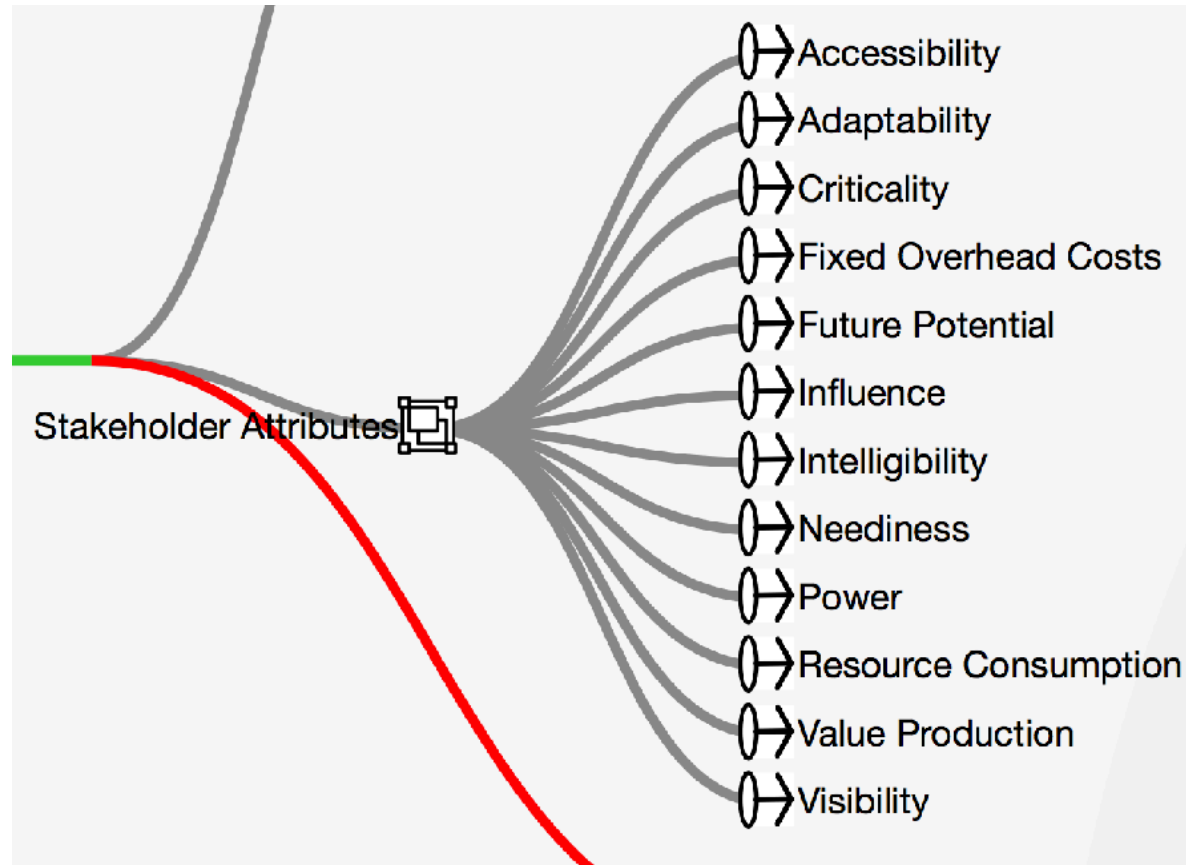
3 Basic Stakeholder Types

Groups
Inanimate
Individual



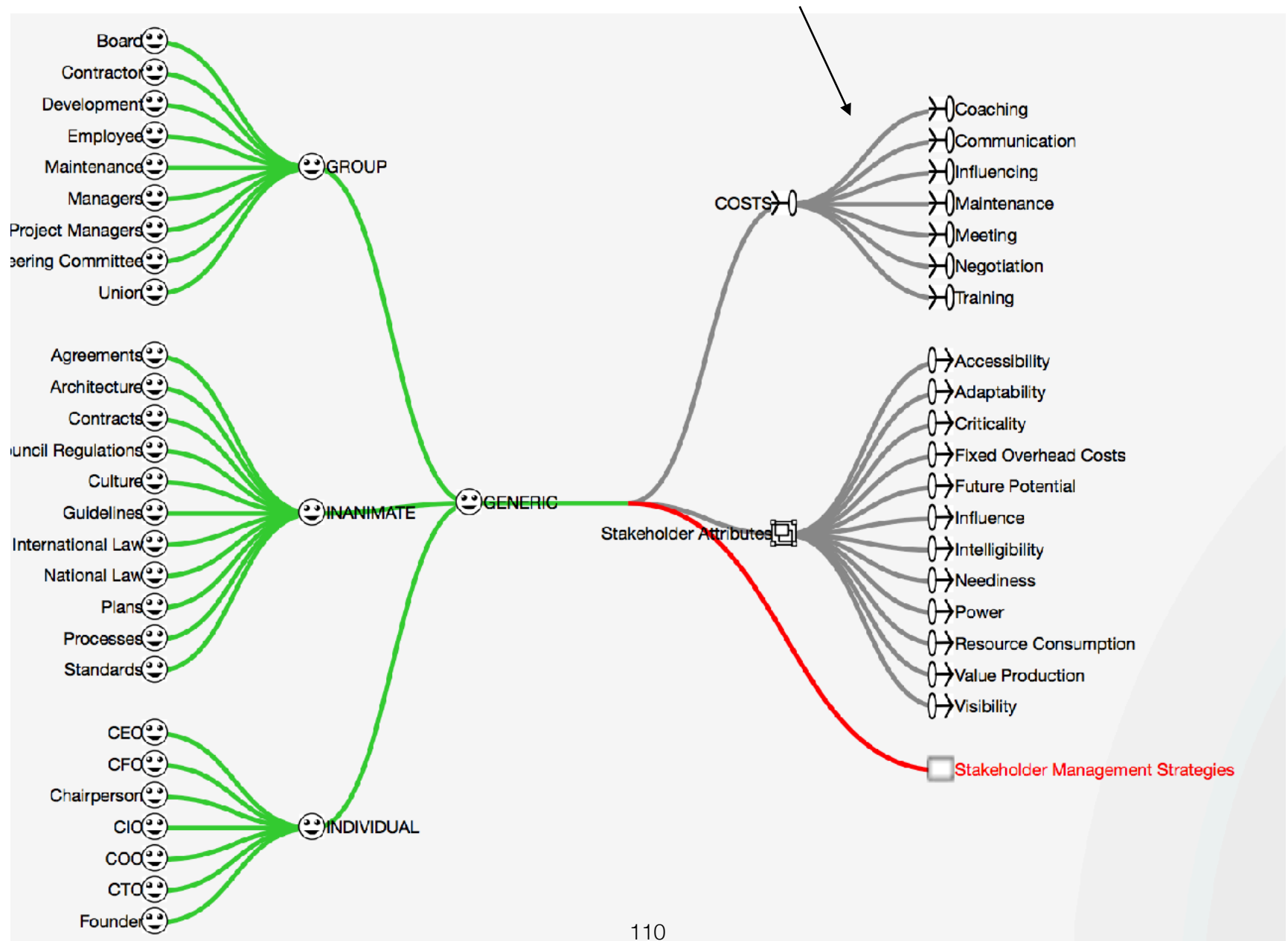
Stakeholder Attributes

- Some attributes of stakeholders
- which can be defined in more detail,
- and can be quantified
- status estimated
- and potentially *improved*

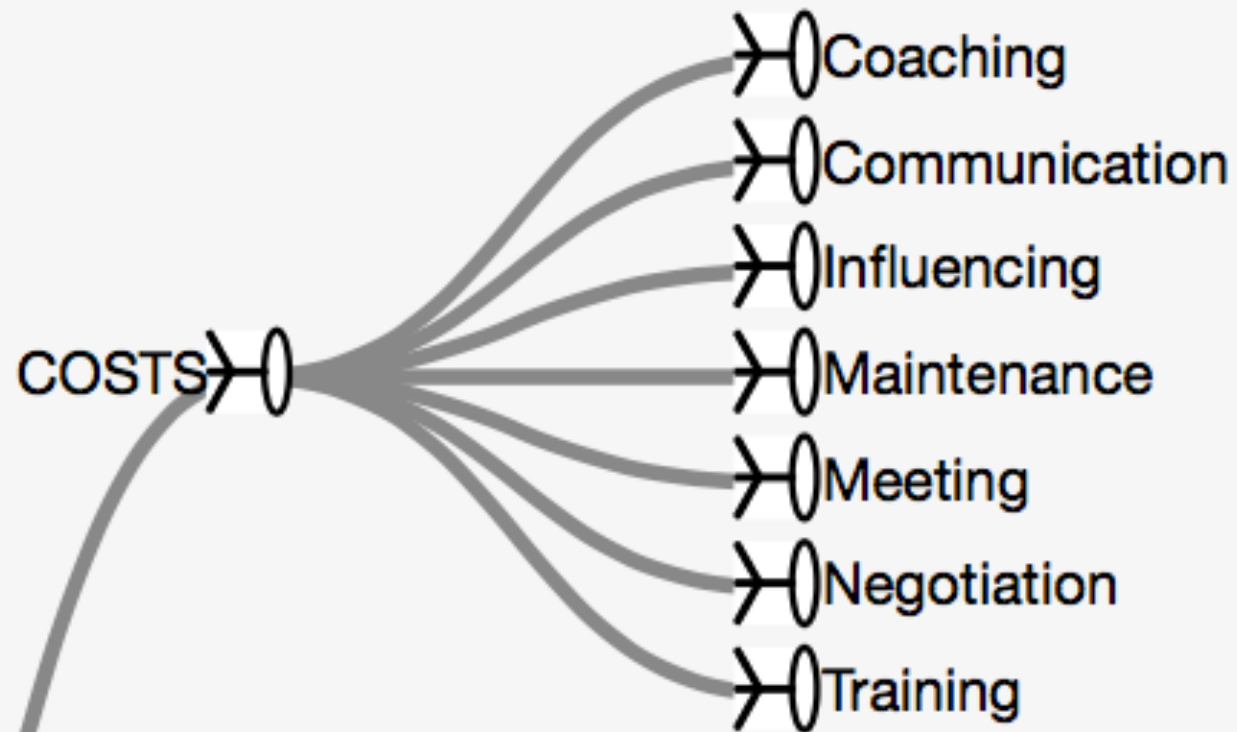


this is an arbitrary but useful, incomplete set. TsG 24 June 2017

Stakeholder Costs



Stakeholder Costs



Gilb's Stakeholder Principles.

1. Some stakeholders are more critical to your system than others.
2. Some stakeholder needs are more critical to your system than others.
3. Stakeholders are undisciplined: they may not know all their needs, or know them precisely, or know their value. But they can be analyzed, coached, and helped to get the best possible deal.
4. Stakeholders may be inaccessible, unwilling, inanimate, oppositional, and worse: but we need to deal with them intelligently.
5. Stakeholders might well ask for the wrong thing, a 'means' rather than their real 'ends'. But they can be guided to understand that. Or their requests can be interpreted in their own real best interests.
6. Stakeholders do not want to wait years, get delays, invest shitloads of money, and then little or no value. They want as much 'value improvement' of their current situation, as they can get, as fast as they can get it. For as little cost as possible,
7. Stakeholders cannot have any realistic idea of what their needs and demands will cost to satisfy. So their adopted requirements need to be based on value for costs, not on value alone. Delivering small increments, based on high value-to-cost, is one smart way to deal with this.
8. If you think you have found 'all critical stakeholders', I think you should assume there is at least one more, and when you find that one, They will emerge, and they are not all there at the beginning.
9. If you think you have found all critical *needs* of a stakeholder, there will always be *at least one more* need 'hiding'.
10. If you do not understand, and act on the principles above; you might blame your failure on 'system complexity', and the unexpected and wicked problems. But in reality, it is your own fault and responsibility; deal with it - up front and constantly.

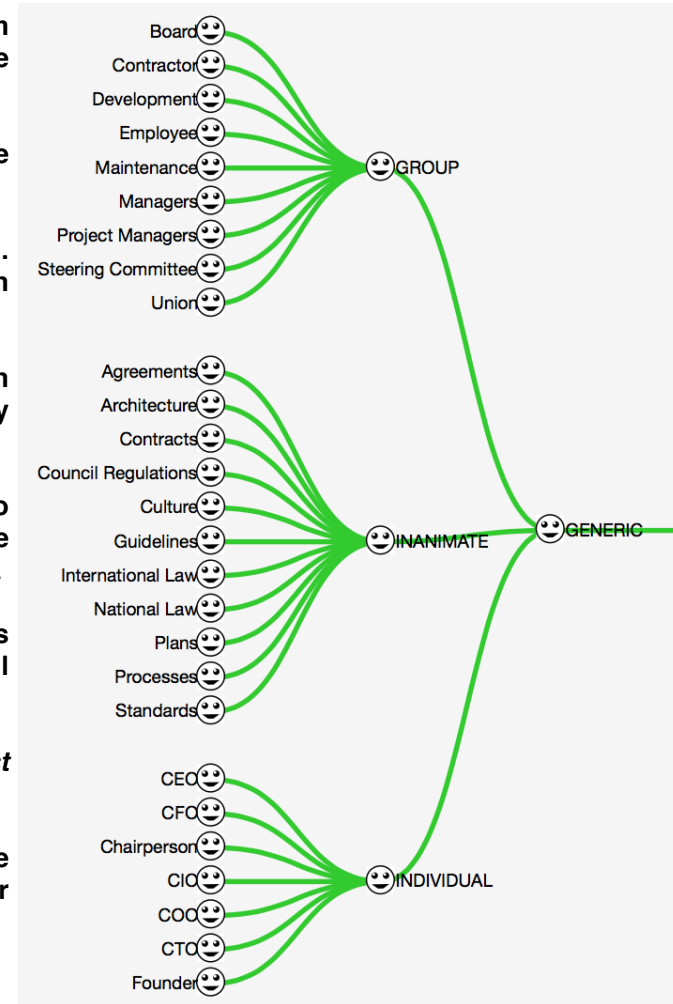
•SOURCE, 2016 Paper

"Stakeholder Power: The Key to Project Failure or Success"

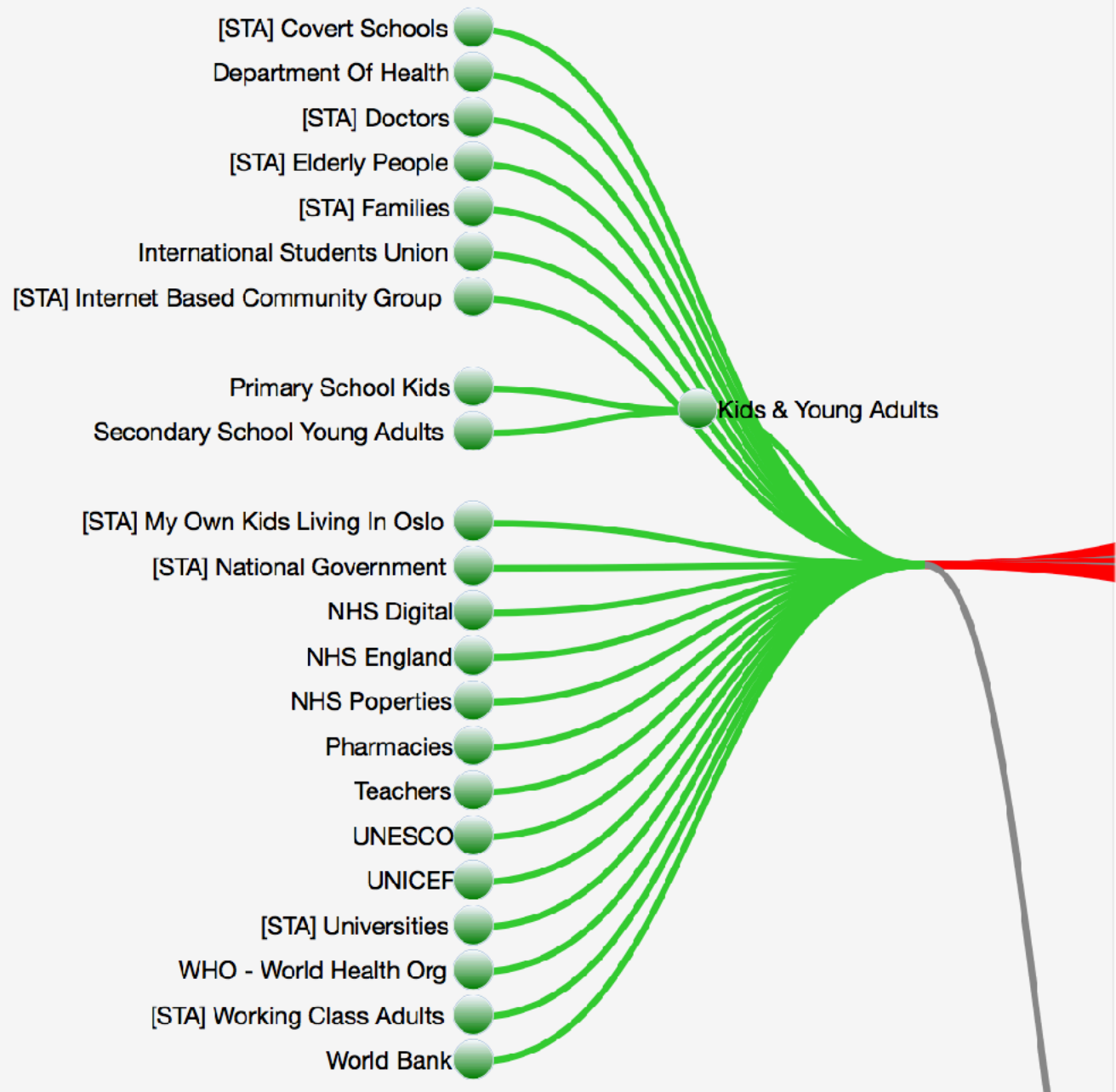
including 10 Stakeholder Principles

<http://concepts.gilb.com/dl880> (COPY FEB 2017)

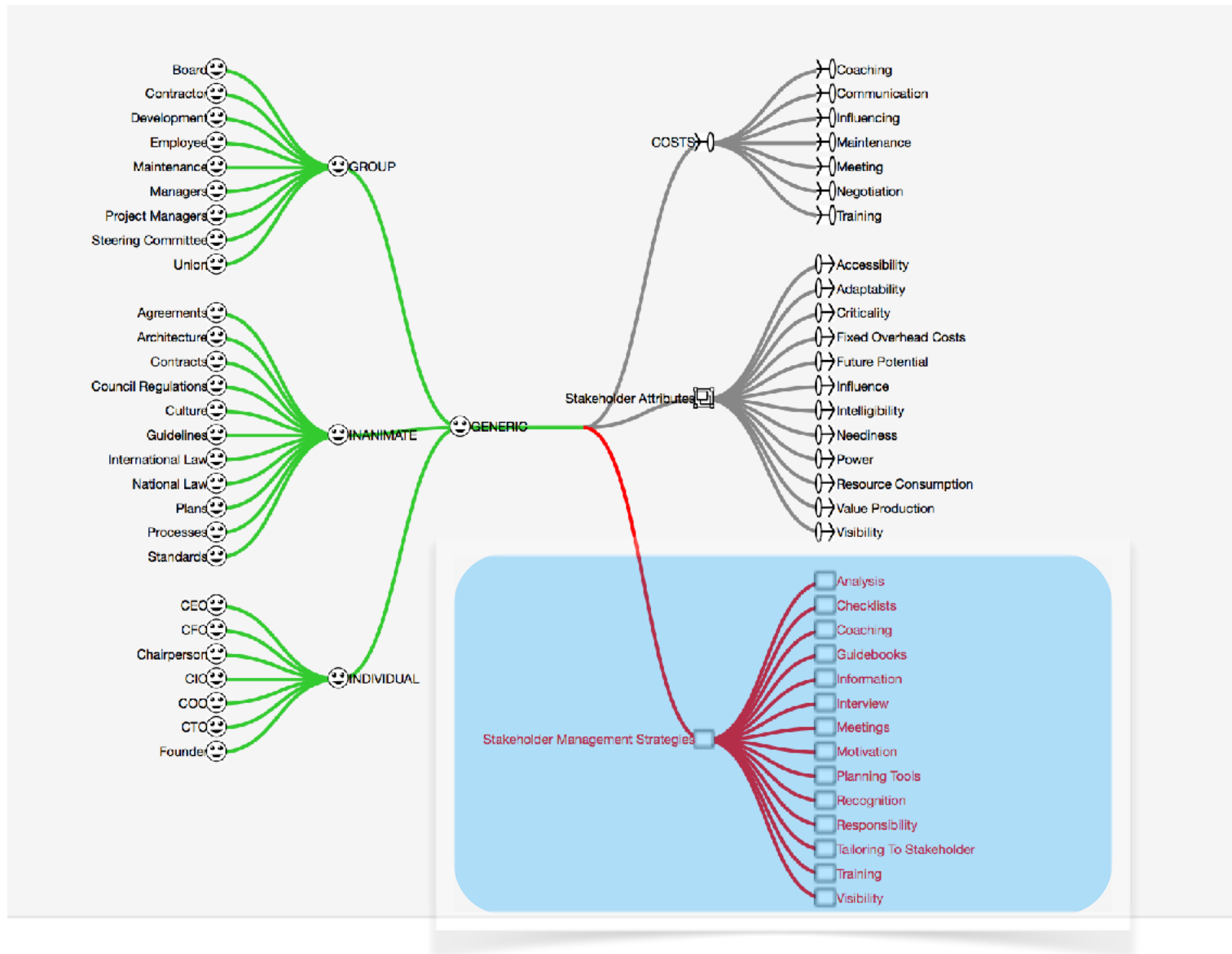
<http://concepts.gilb.com/dl872> (FEB 2016)



Stakeholder Diagram



Adding Strategies for Improving Stakeholder Attributes



Stakeholder Value And Strategy Table

Settings...

+ Add

Sort

Duplicate...

Δ: INCREMENTAL

Show Sidebar

Stakeholder Ends and Means

the ???? signifies that we did not yet estimate the effectiveness of the ideas for getting better

☐ Analysis

Level? Solution Idea Label?

(by - 20 minutes ago)

[Permalink](#)

Row: 0.0.1	
Col:	
Scale:	

Click inside an ir

Is Part Of: [Stakeholder Management Strategies](#)

Summary: Serious analysis of individual stakeholder types so we can have best possible relations

Description:

(by tomgilb - 2 minutes ago) 3

D1. CONVENIENCE: Determine best times and best ways to communicate with stakeholders, and to get decisions. Document this in the stakeholder object in these plans. Make sure responsible spec owners are aware of and use these possibilities.

D2. VALUE LEVELS: Determine the top 5 at least critical needs of each stakeholder type, and each major stakeholder variation (Scale Parameters). Both short term and longer term. Make estimate of the long term value of reaching suggested Goal levels

D3. Communicate, with stakeholder representatives permission, all plan changes that they are a stakeholder to, to at least the Representative Stakeholder.

D4. PLAN ACCESS: Give read access, and change incident access to stakeholder representatives who want it, to the plans.

D5. CONTINUOUS CRITICISM: Create a digital stakeholder steering committee to give advice on all aspects of the plan and the project. They will have access to plans and changes, and ability to both log remarks in a common place in the plan, in comments in particular specs, to communicate with Spec Owners, and to email key named participants and managers or committees.

D6. WARNINGS: Stakeholders have the right, under their signature, in a Comment related to any aspect of the plan, at any time to remark on anything they want; but especially on predicted negative consequences of that part of the plan. The idea is that nobody can suppress such opinions. We encourage it. And it is clear and official that they did try to warn people, perhaps named peopler, who have the right to a Comment Answer, and who cannot deny that these warnings were made.

Source:

tom gilb, trying to give a reasonably good example of deep and powerful strategic planning.

‘Accessibility’ defined quantitatively



Accessibility

Level? Value Label?

[Permalink](#)

0.0.1

(by - an hour ago)

Is Part Of: [Stakeholder Attributes](#)

Ambition Level: we want to access the stakeholder insights, opinions and needs as soon as possible, same day would be great

Scale: Days from defined [Need] by a type of [Stakeholder] until we have a defined [Information] correct to a defined [Place]

Stakeholders: 0

Status: Level: 7 Days to Get Info [Need = { <All> }, Stakeholder = { Critical }, Information = { Changed Stakeholder Authority }, Place = { Digital Planning S...}

Wish: Level: 1 Days to Get Info [Need = { <All> }, Stakeholder = { Critical }, Information = { Changed Stakeholder Authority }, Place = { Digital Planning S...}

‘Adaptability’ Value defined

⇒ Adaptability

[Permalink](#)

0.0.1

Level? Value Label?

(by - an hour ago)

Is Part Of: [Stakeholder Attributes](#)

Ambition Level: give a high degree of stakeholder ability to respond to planning changes, both in seeing consequences, reviewing the..

Scale: % capability for a [Stakeholder Class] to correctly and within 5 minutes of effort do a defined [Stakeholder Action]

Stakeholders: Architecture, Managers, Project Managers, Steering Committee, Union

Status: Level: **30** % Quick Actions [Stakeholder Class = { <All> }, Stakeholder Action = { <All> }] When 24th June 2017

Wish: Level: **90** % Quick Actions [Stakeholder Class = { <All> }, Stakeholder Action = { <All> }] When 24th June 2017

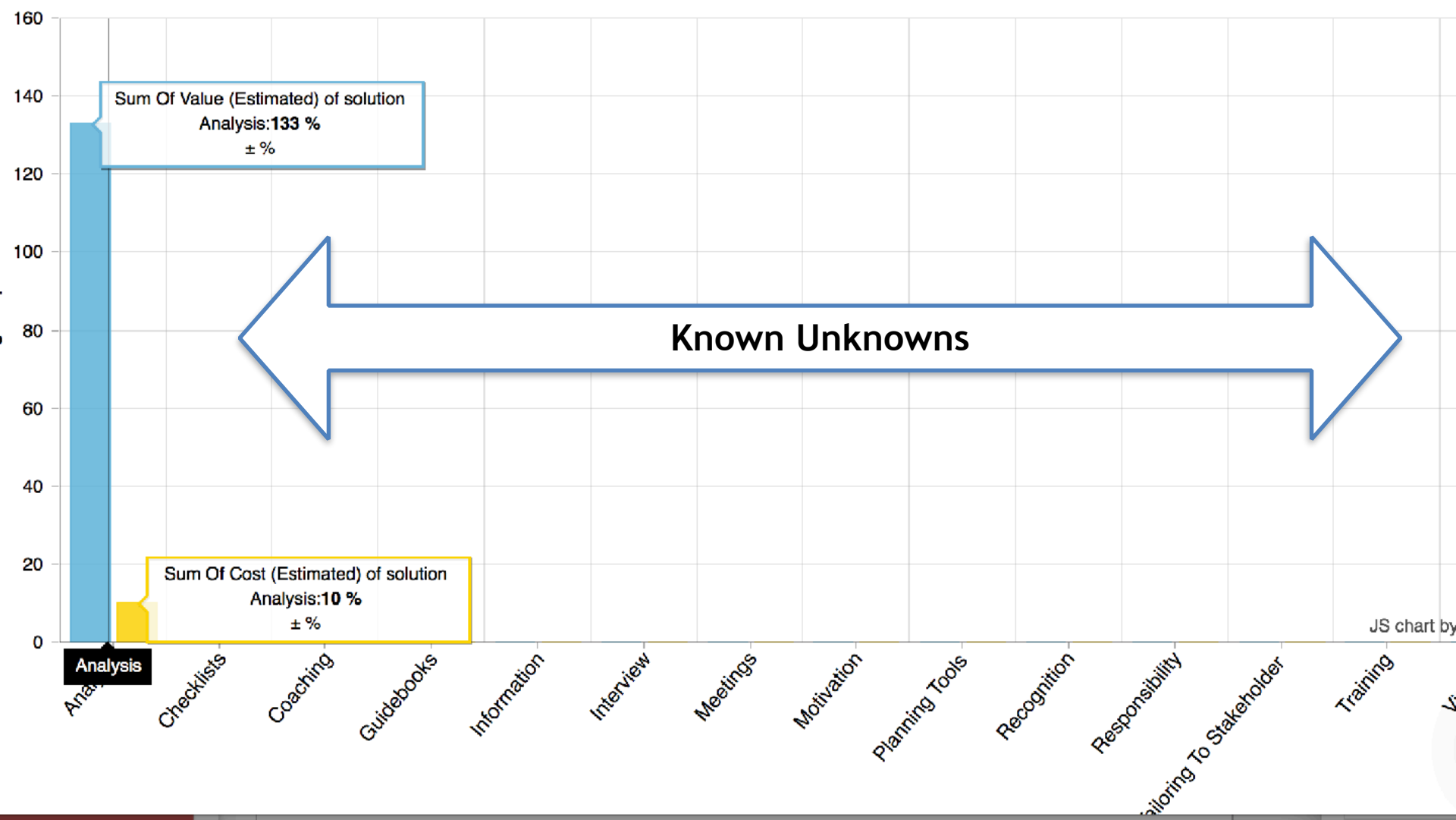
Stakeholder Value And Strategy Table									
Settings... Add Sort Duplicate... Δ: INCREMENTAL									
		<input type="checkbox"/> Analysis	<input type="checkbox"/> Checklists	<input type="checkbox"/> Coaching	<input type="checkbox"/> Guidebooks	<input type="checkbox"/> Information	<input type="checkbox"/> Interview	<input type="checkbox"/> Meetings	<input type="checkbox"/> Mot
Requirements									
↳ Accessibility	Δ: -6	????	????	????	????	????	????	????	????
Status: 7 → Wish: 1 Days to Get	Δ%: 100 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
↳ Adaptability	Δ: 20	????	????	????	????	????	????	????	????
Status: 30 → Wish: 90 % Quick Action	Δ%: 0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
↳ Criticality	Δ: ????	????	????	????	????	????	????	????	????
Status: 0 → Wish: 0	Δ%: 0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
↳ Fixed Overhead Costs	Δ: ????	????	????	????	????	????	????	????	???
Status: 0 → Wish: 0	Δ%: 0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
↳ Future Potential	Δ: ??	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
Status: 0 → Wish: 0	Δ%: 0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
↳ Influence	Δ: ????	????	????	????	????	????	????	????	????
Status: 0 → Wish: 0	Δ%: 0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
↳ Intelligibility	Δ: ????	????	????	????	????	????	????	????	????
Status: 0 → Wish: 0	Δ%: 0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %
↳ Neediness	Δ: ????	????	????	????	????	????	????	????	????
Past: 0 → Goal: 0	Δ%: 0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %	0 %

Known Unknowns

Untitled

gs... + Add ▾ ◀ Sort ▾ Duplicate... INCREMENTAL

Sum of Value and Cost



END OF SLIDES ADDED 24JUNE 2017 BY TOM

GENERIC STAKEHOLDER STUFF

Oslo Training Workshop Example

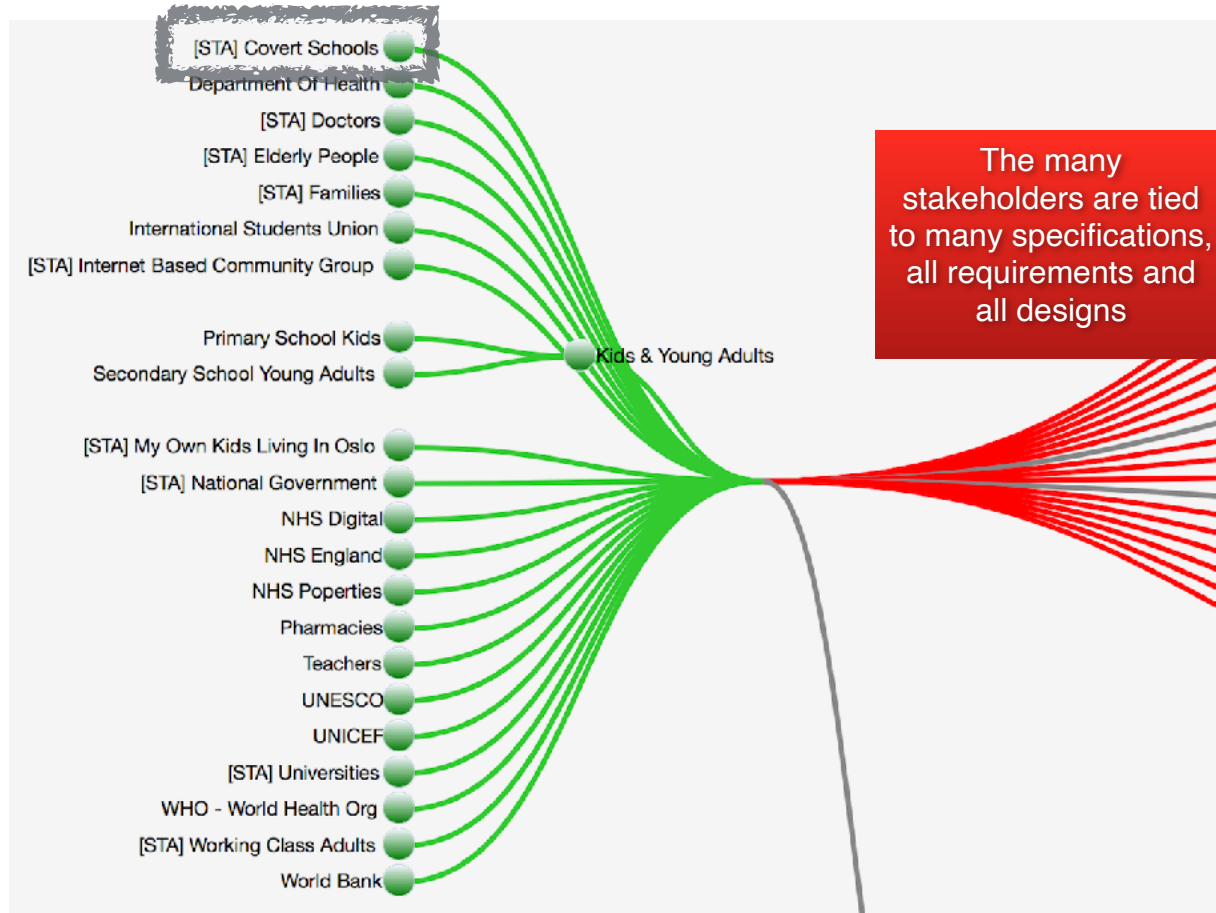
March 2017

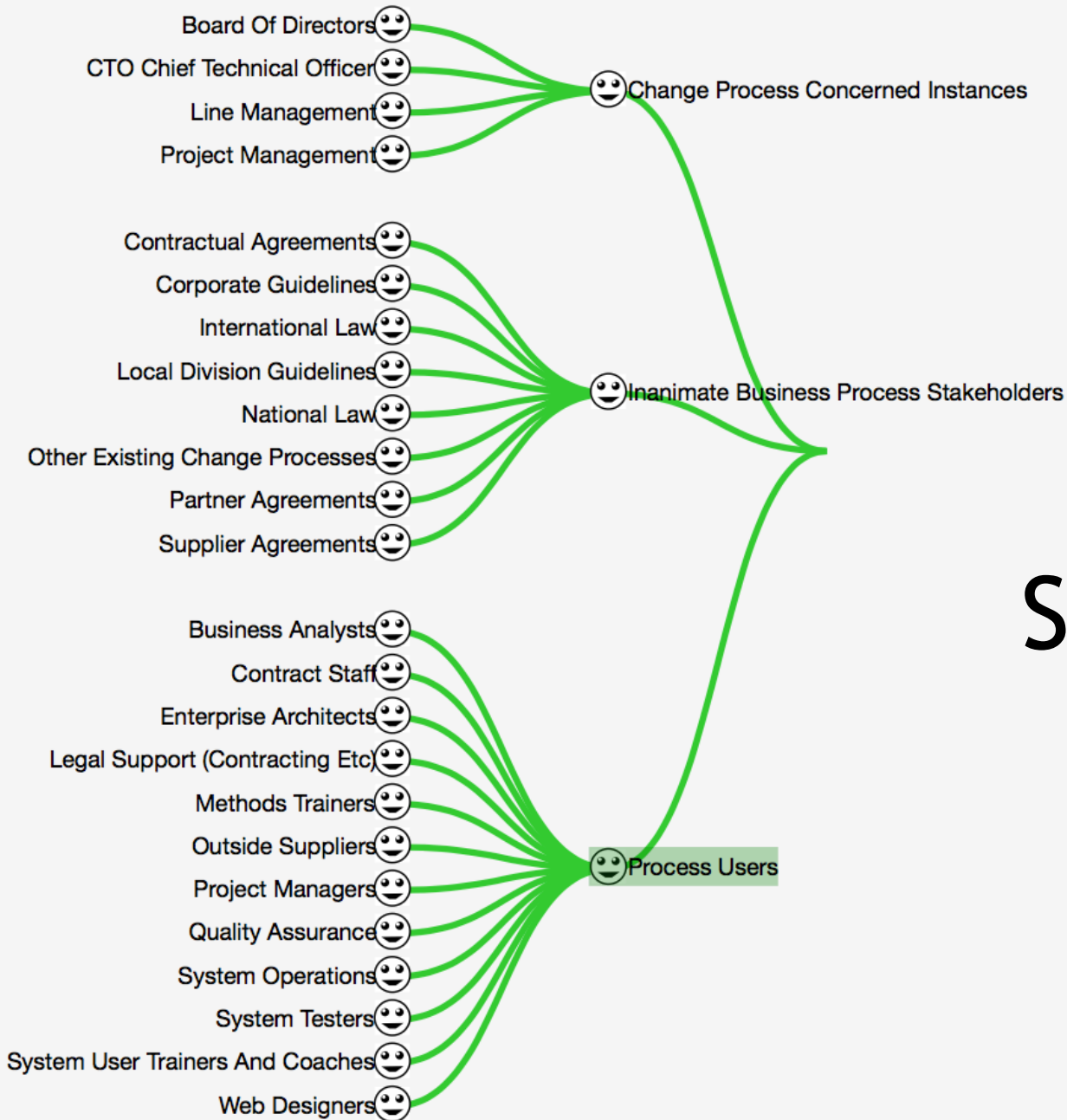
Tool: Needs and Means

Method: Planguage

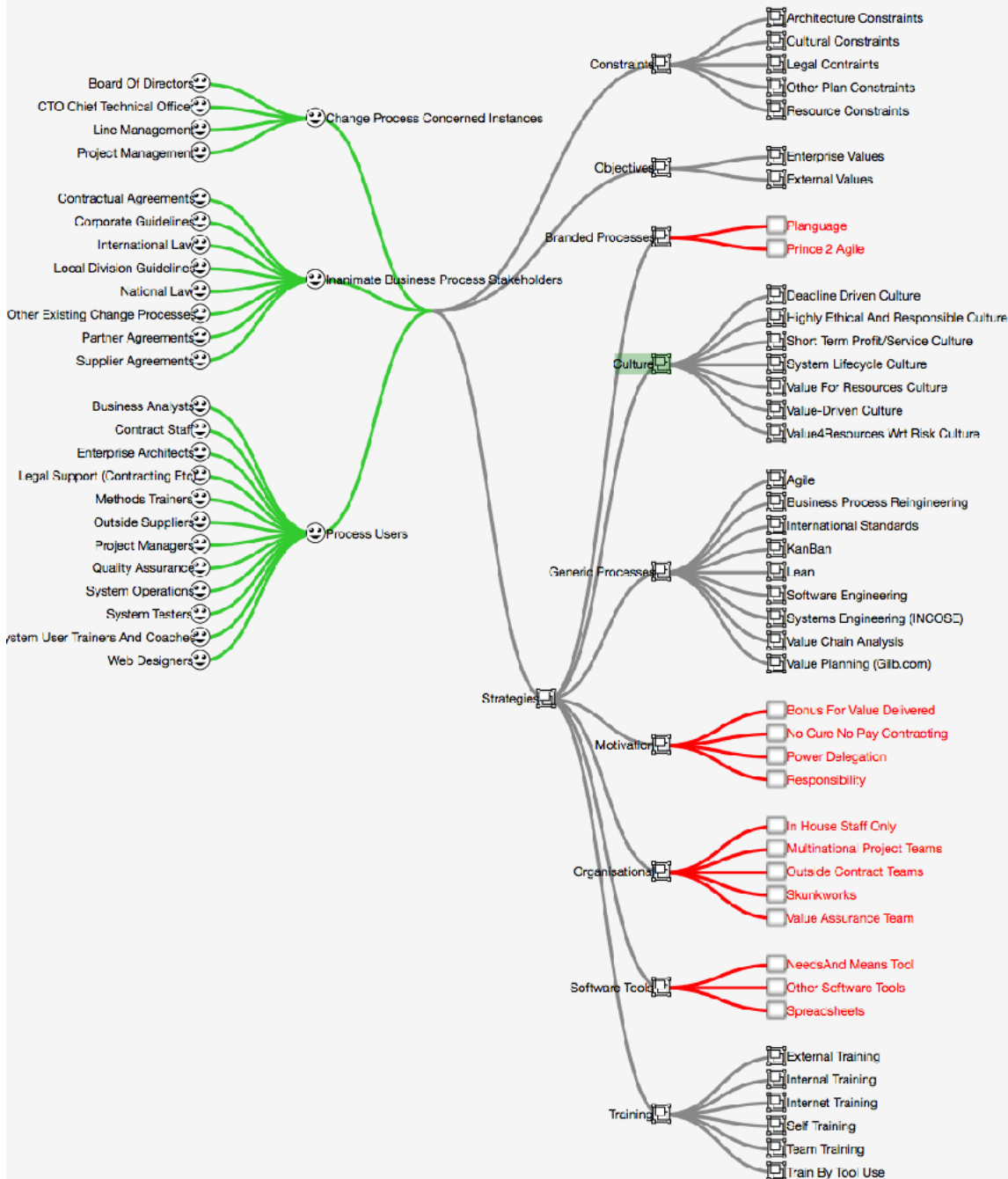
Oslo Software Architecture Meetup, 2 day Course
Planning for Health and education as a team

A set of stakeholders for one health and education project





Business Process Stakeholders



Business Process Strategies

from r smith

www.stakeholdermap.com

Lots of stakeholder - related content.

e.g. their definition of critical stakeholder ("Key Player") <https://www.stakeholdermap.com/stakeholder-analysis/Stakeholder-Analysis-keyplayers.html#>

Stakeholder lists: <https://www.stakeholdermap.com/stakeholder-list.html>

IT stakeholder list: <https://www.stakeholdermap.com/stakeholders-it-project.html>

Defining a set of Objectives which are related to one defined stakeholder

Covert Schools

Stakeholder Stakeholder Empty (by gilbguest4 - 22 days ago) 0.0.1

Is Stakeholder Of: Educational Safety Value Affordability Of Education Value

Summary: Groups of learners and teachers that are in danger when found to be in a locally unacceptable form of education as well as the

Description: A description is a set of formal words and / or diagrams (by gilbguest4 - 23 days ago) 0

- * religious schools where the population is offended or persecuting the minority religions
- * schools that accept female students and therefore are targeted by extremist groups opposing the education of women.
- * female students in countries where women may not be educated in western style subjects
- * cultural or social reasons for instance countries where violence against women is so prolific that families are too scared to send their girls to school.
- * freedom of education not applied uniformly in the world

Source:

http://www.academia.edu/5891451/Educating_Girls_in_the_Middle_East
<http://www.worldbank.org/en/topic/girlseducation/overview>
<https://www.theguardian.com/world/2006/oct/01/afghanistan.theobserver>
https://en.wikipedia.org/wiki/Freedom_of_education

Defining a list of stakeholders which are related to an Objective

Educational Safety

Stakeholder Value Empty

(by gilbguest4 - 22 days ago)

Permalink
0.0.1

Is Part Of: TOP CRITICAL OBJECTIVES Value

Ambition Level: All children should be able to attend education in complete safety.

Scale: Number of [Educational Participants] in a [Region] registered as victims of [Assault] due to their [Engagement] in some form of [Edu..

Status: Level: 185000 Persons per year [Educational Participants = <All>, Region = Afghanistan, Assault = <All>, Engagement = Physical, Education = Hi..

Wish: Level: 100000 Persons per year [Educational Participants = <All>, Region = Afghanistan, Assault = <All>, Engagement = Physical, Education = High..

Stakeholders: Change (by gilbguest4 - 23 days ago) 0

+ Link to Stakeholder

Tag	Actions
Covert Schools	
Internet Based Community Group	

Enter additional stakeholder information

Educational Safety

Stakeholder  Value  **Empty** 


(by gilbquest4 - 22 days ago)

 [Permalink](#)

0.0.1

Is Part Of: **TOP CRITICAL OBJECTIVES** Value

Ambition Level:

(by gilbquest4 - 22 days ago)  0 

All children should be able to attend education in complete safety.

Source:

<https://childrenandarmedconflict.un.org/countries-caac/afghanistan/>


<http://www.unwomen.org/en/what-we-do/ending-violence-against-women/facts-and-figures>

https://www.unicef.org/esaro/7310_Gender_and_education.html

<http://theirworld.org/news/10-countries-where-girls-education-has-been-attacked>

http://www.ungei.org/srgbv/files/Study_on_Violence_Against_Schoolgfiles_final.pdf

Scale:

(by gilbquest4 - 22 days ago)  0 

Number of **[Educational Participants]** in a **[Region]** registered as victims of **[Assault]** due to their **[Engagement]** in some form of **[Education]**.

Short Description: Persons per year, **Time Units:** Year

Assault: defined as:

Killed, Physical assault

Education: defined as:

Preschool, High School, University

Educational Participants: defined as:

Teacher, Student

Engagement: defined as:

Physical, Virtual

The Scale definition, scale 'parameters' - give additional information regarding stakeholders: such as where, when, which type, under what circumstances



Educational Safety

Stakeholder Value **Empty**

(by gilbguest4 - 22 days ago)

0.0.1

Is Part Of: **TOP CRITICAL OBJECTIVES** **Value**

Ambition Level: (by gilbguest4 - 22 days ago) 0

All children should be able to attend education in complete safety.

Source:

<https://childrenandarmedconflict.un.org/countries-caac/afghanistan/>

<http://www.unwomen.org/en/what-we-do/ending-violence-against-women/facts-and-figures>

https://www.unicef.org/esaro/7310_Gender_and_education.html

<http://theirworld.org/news/10-countries-where-girls-education-has-been-attacked>

http://www.ungei.org/srgbv/files/Study_on_Violence_Against_Schoolgirls_final.pdf

Scale: (by gilbguest4 - 22 days ago) 0

Number of **[Educational Participants]** in a **[Region]** registered as victims of **[Assault]** due to their **[Engagement]** in some form of **[Education]**.

Short Description: Persons per year, **Time Units:** Year

Assault: defined as:
Killed, Physical assault

Education: defined as:
Preschool, High School, University

Educational Participants: defined as:
Teacher, Student

Engagement: defined as:
Physical, Virtual

2 stakeholders are now linked to 'Educational Safety' Objective

The screenshot shows a web application interface for managing requirements. The browser address bar displays `app.needsandmeans.com/requirements?tab=requirementsDiagram&pa`. The application has a top navigation bar with icons for navigation and a search bar. Below the navigation bar is a toolbar with buttons for 'Duplicate...', 'Choose Parent...', 'Decompose...', 'Delete...', and a dropdown menu. The main content area is titled 'Educational Safety' and includes a 'Permalink' section with a version number '0.0.1'. The objective is defined by 'Stakeholder' and 'Value' fields, with the value currently being 'Empty'. The objective is part of 'TOP CRITICAL OBJECTIVES'. The 'Ambition Level' is 'All children should be able to attend education in complete safety.' The 'Scale' is 'Number of [Educational Participants] in a [Region] registered as victims of [Assault] due to their [Engagement] in some form of [Edu...'. The 'Status' is 'Level: 185000 Persons per year [Educational Participants = <All>, Region = Afghanistan, Assault = <All>, Engagement = Physical, Education = Hi...'. The 'Wish' is 'Level: 100000 Persons per year [Educational Participants = <All>, Region = Afghanistan, Assault = <All>, Engagement = Physical, Education = High...'. The 'Stakeholders' section shows a 'Change...' button and a list of stakeholders: 'Covert Schools' and 'Internet Based Community Group'. A blue arrow points from the 'Wish' and 'Status' fields to the 'Stakeholders' section, indicating that these fields define the set of stakeholders and other dimensions.

app.needsandmeans.com/requirements?tab=requirementsDiagram&pa

Untitled

Duplicate... Choose Parent... Decompose... Delete...

Educational Safety [Permalink](#)

Stakeholder Value *Empty* (by gilbguest4 - 22 days ago) 0.0.1

Is Part Of: **TOP CRITICAL OBJECTIVES** Value

Ambition Level: All children should be able to attend education in complete safety.

Scale: Number of [Educational Participants] in a [Region] registered as victims of [Assault] due to their [Engagement] in some form of [Edu...]

Status: Level: 185000 Persons per year [Educational Participants = <All>, Region = Afghanistan, Assault = <All>, Engagement = Physical, Education = Hi...]

Wish: Level: 100000 Persons per year [Educational Participants = <All>, Region = Afghanistan, Assault = <All>, Engagement = Physical, Education = High...]

Stakeholders: Change... (by gilbguest4 - 23 days ago) 0

+ Link to Stakeholder

Tag Actions

Covert Schools

Internet Based Community Group

notice that the Wish and Status define not only a set of stakeholders, but other dimensions such as 'where' and 'doing what'

How to add a defined stakeholder to any objective

The screenshot shows a web browser window with the URL `app.needsandmeans.com/requirements?tab=requirementsDiagram&page=1`. The browser's address bar and tabs are visible at the top. The main content area displays a requirements diagram for 'Educational Safety'. A modal dialog box titled 'Select a Stakeholder' is open in the center. The dialog has a header 'Select a Stakeholder' and a sub-header 'Select a stakeholder. More information...'. Below this, there is a search bar labeled 'Stakeholder:' with a magnifying glass icon. A list of stakeholders is displayed below the search bar, each with a blue 'Stakeholder Type' label to its right. The list includes: Covert Schools, Department Of Health, Doctors, Elderly People, Families, International Students Union, and Internet Based Community Group. At the bottom of the dialog, there are 'Cancel' and 'Select' buttons. The background interface shows various sections: 'Educational Safety' with a 'Stakeholder' field set to 'Empty', 'Is Part Of: TOP CRITICAL OBJECTIVES', 'Ambition Level: All children should be able to', 'Scale: Number of [Educational Participants]', 'Status: Level: 185000 Persons per year', 'Wish: Level: 100000 Persons per year', 'Stakeholders: Change...' with a '+ Link to Stakeholder' button, 'Tag' with a dropdown arrow, 'Covert Schools', 'Internet Based Community Group', 'Enter additional stakeholder information', 'Source: Type something', and 'Add Comment...'. On the right side, there is a 'Parameters' section with a list of parameters (Cost Impact, Ambition Level, Assumption, Authority, Budget, Dependencies, Description, Due, Goal, Intended Readership, Issue, Meter) and a 'Scale Library' section with a '+ Rules & Processes' button. A 'Hide Sidebar' button is at the top right of the sidebar.

Select a Stakeholder

Select a stakeholder. More information...

Stakeholder:

Select a Stakeholder

Covert Schools Stakeholder Type

Department Of Health Stakeholder Type

Doctors Stakeholder Type

Elderly People Stakeholder Type

Families Stakeholder Type

International Students Union Stakeholder Type

Internet Based Community Group Stakeholder Type

Cancel Select

Summary of a Stakeholder spec

Specification Detail

 Duplicate...

 Choose Parent...

 Decompose...

 Delete...



Covert Schools 




 Permalink

Stakeholder  Stakeholder  **Empty** 

(by gilbguest4 - 22 days ago)


0.0.1

Is Stakeholder Of: **Educational Safety**  **Affordability Of Education** 


Summary: Groups of learners and teachers that are in danger when found to be in a locally unacceptable form of education as well as those prevented from attending schooling by family members.   




Summary: Groups of learners and teachers that are in danger when found to be in a locally unacceptable form of education as well as those prevented from attending schooling by family members.

Description: * religious schools where the population is offended or persecuting the minority religious schools that accept female student. 

Risk: RiskMitigation 

Detail of the Stakeholder summary

Covert Schools 





Stakeholder  **Stakeholder**  **Empty** 


(by gilbguest4 - 22 days ago)

Permalink

0.0.1

Is Stakeholder Of: **Educational Safety** **Value** **Affordability Of Education** **Value**

Summary: **Change...** (by gilbguest4 - 22 days ago)  0   

Groups of learners and teachers that are in danger when found to be in a locally unacceptable form of education as well as those prevented from attending schooling by family members. 

Source:

Malala - the girl who was shot for going to school
<http://www.bbc.com/news/magazine-24379018>

Acid attacks, poison: What Afghan girls risk by going to school
<http://edition.cnn.com/2012/08/02/world/meast/cnnheroes-jan-afghan-school/>

https://www.unicef.org/mena/Education_Under_Fire.pdf

<http://reliefweb.int/report/afghanistan/girls-attacked-attending-school>

https://www.unicef.org/somalia/SOM_resources_situationalaysissummary.pdf

<http://www.theverge.com/2015/2/11/8014563/bill-gates-education-future-of-online-courses-third-world>

Detail of the Stakeholder Description

Covert Schools 

 [Permalink](#)


Stakeholder  Stakeholder  **Empty** 

(by gilbguest4 - 22 days ago)

0.0.1

Is Stakeholder Of: **Educational Safety** Value **Affordability Of Education** Value

Summary: Groups of learners and teachers that are in danger when found to be in a locally unacceptable form of education as well as tho...

Description:  A description is a set of formal words and / or diagrams

(by gilbguest4 - 23 days ago)  0   

- * religious schools where the population is offended or persecuting the minority religions
- * schools that accept female students and therefore are targeted by extremist groups opposing the education of women.
- * female students in countries where women may not be educated in western style subjects
- * cultural or social reasons for instance countries where violence against women is so prolific that families are too scared to send their girls to school.
- * freedom of education not applied uniformly in the world

Source:

http://www.academia.edu/5891451/Educating_Girls_in_the_Middle_East
<http://www.worldbank.org/en/topic/girlseducation/overview>
<https://www.theguardian.com/world/2006/oct/01/afghanistan.theobserver>
https://en.wikipedia.org/wiki/Freedom_of_education

Competence Strategies: A means to 'Educational Safety'

Safari File Edit View History Bookmarks Window Help

app.needsandmeans.com/iet/IET-S7RQ54G?subpage=table

Untitled

Duplicate... Choose Parent... Decompose... Delete...

Competence Strategies

Level? Solution Idea Empty (by tomgilb - a few)

Summary: Various strategies for increasing competence

Description:

- D1: Arrange small scale relevant in-house training
- D2: Encourage every single individual to choose one course to attend with the NeXT 3 months
- D3: Implement a 1 hour a week concept to read the last updates on Your Field
- D4: Give each employee an area of expertise to Train the others in
- D5: Implement one e-Learning a month for all staff

Source:
Tonje

Value Impact: Planned: ???? ± 0

Value Impact: Change... (by c)

Educational Safety

Number of **[Educational Participants]** in a **[Region]** registered as victims of **[Assault]** due to their **[Engagement]** in some form of **[Education]**.

Status: 185000 Persons per year [Educational Participants = <All>, Region = Afghanistan, Assault = <All>, Engagement = Physical, Education = High School]

Wish: 100000 Persons per year [Educational Participants = <All>, Region = Afghanistan, Assault = <All>, Engagement = Physical, Education = High School]

Scale Level Impact (Estimate): Persons per year

1 of 2 selected, 20,44 GB available

Row: **Decision Influence**
Col: **Competence Strategies**

Value Impact: Change...

Scale Level Impact (Estimate): Percent
Δ 2C ± 5

Scale Level Impact (Actual): Percent
Δ SC ± 0

Credibility:
0.2
We have one measurement somewhere

Evidence:
Increasing competence
SHOULD
increase decision influence

Source:
Type something
Add Comment...

Estimation of impact of 'Strategies', on a defined set of stakeholder and stakeholder circumstances, in the '[Scale Parameters]

Global Edu ...
Create
Specifications...
Value Tables
More...
tomgilb

Global Edu And Health Project / Value Tables / TOP LEVEL VALUE TABLE

TOP LEVEL VALUE TABLE

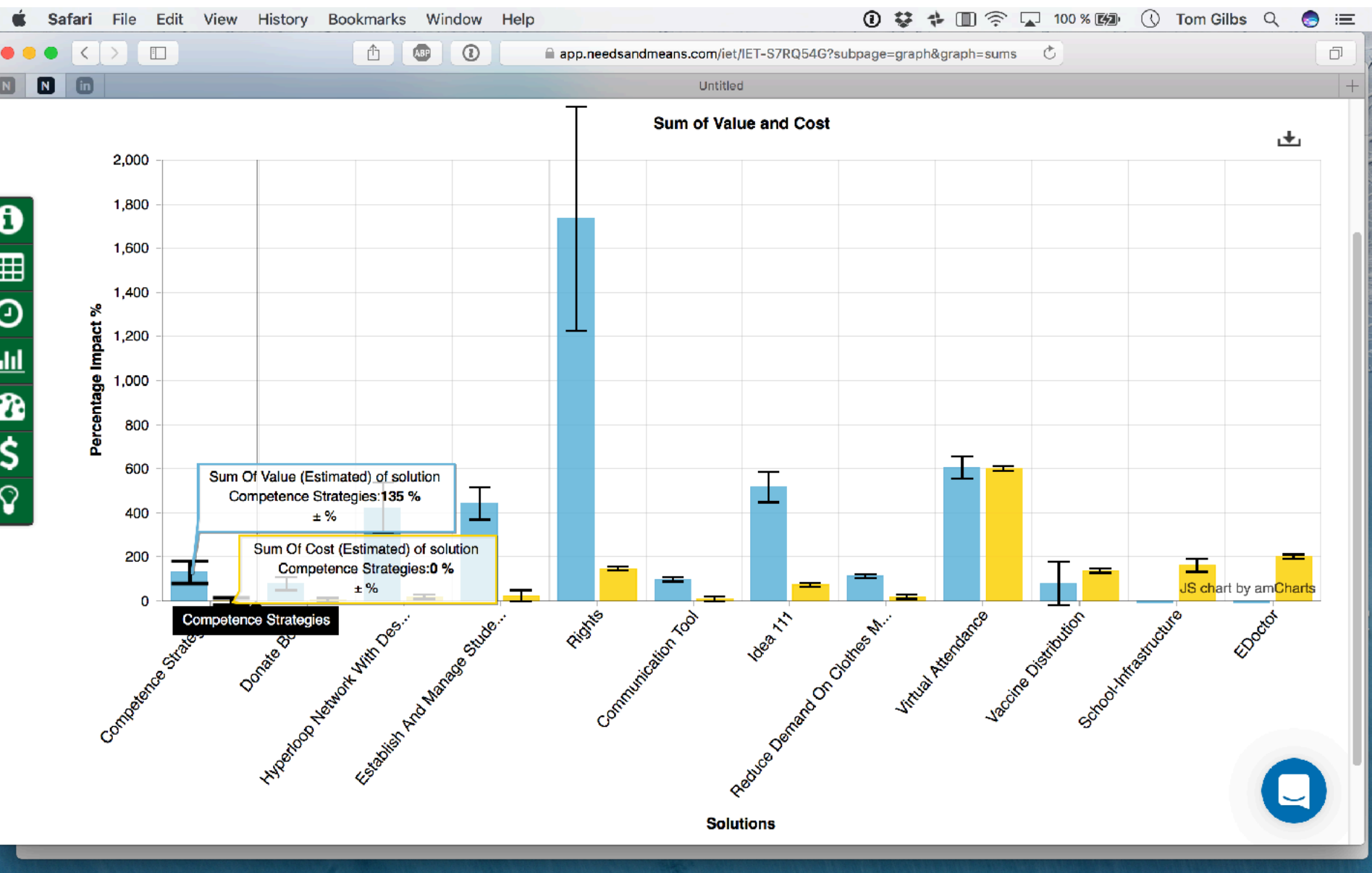
Settings...
Add
Sort
Duplicate...
Δ: INCREMENTAL

Requirements	Competence Strat...	Donate Books	Hyperloop Networ...	Establish And Ma...
Educational Safety Status: 185000 → Wish: 100000 Persons per Number of [Educational Participants]... [Educational Participants = <All&g...] 2020	0 ± 0 0 ± 0 % 0 % (x 0.0)	0 ± 0 0 ± 0 % 0 % (x 0.1)	-5000 ± 1000 6 ± 1 % 0 % (x 0.0)	0 ± 0 0 ± 0 % 0 % (x 0.0)
Decision Influence Status: 0 → Wish: 100 Percent % of achieved [Number of members] wi... [Number of members = 10.000.000, 1st January 2025	20 ± 5 20 ± 5 % 4 % (x 0.2)	0 ± 1 0 ± 1 % 0 % (x 0.0)	0 ± 0 0 ± 0 % 0 % (x 1.0)	25 ± 15 25 ± 15 % 0 % (x 0.0)
Accident Emergency Healthc... Status: 8 → Wish: 6 Minutes Time required to get by [Transportat... [Transportation = Ambulance, Re...] 13th March 2019	???? ± 0 0 ± 0 % 0 % (x 0.0)	0 ± 0 0 ± 0 % 0 % (x 0.0)	-7 ± 1 350 ± 50 % 0 % (x 0.0)	0 ± 0 0 ± 0 % 0 % (x 0.0)
Youth Literacy Status: 50 → Wish: 75 % of [Youths] considered literate in... [Youths = Teen, Areas = Africa]	5 ± 5 20 ± 20 % 0 % (x 0.0)	10 ± 0 40 ± 0 % 4 % (x 0.1)	0 ± 0 0 ± 0 % 0 % (x 0.0)	10 ± 5 40 ± 20 % 0 % (x 0.0)

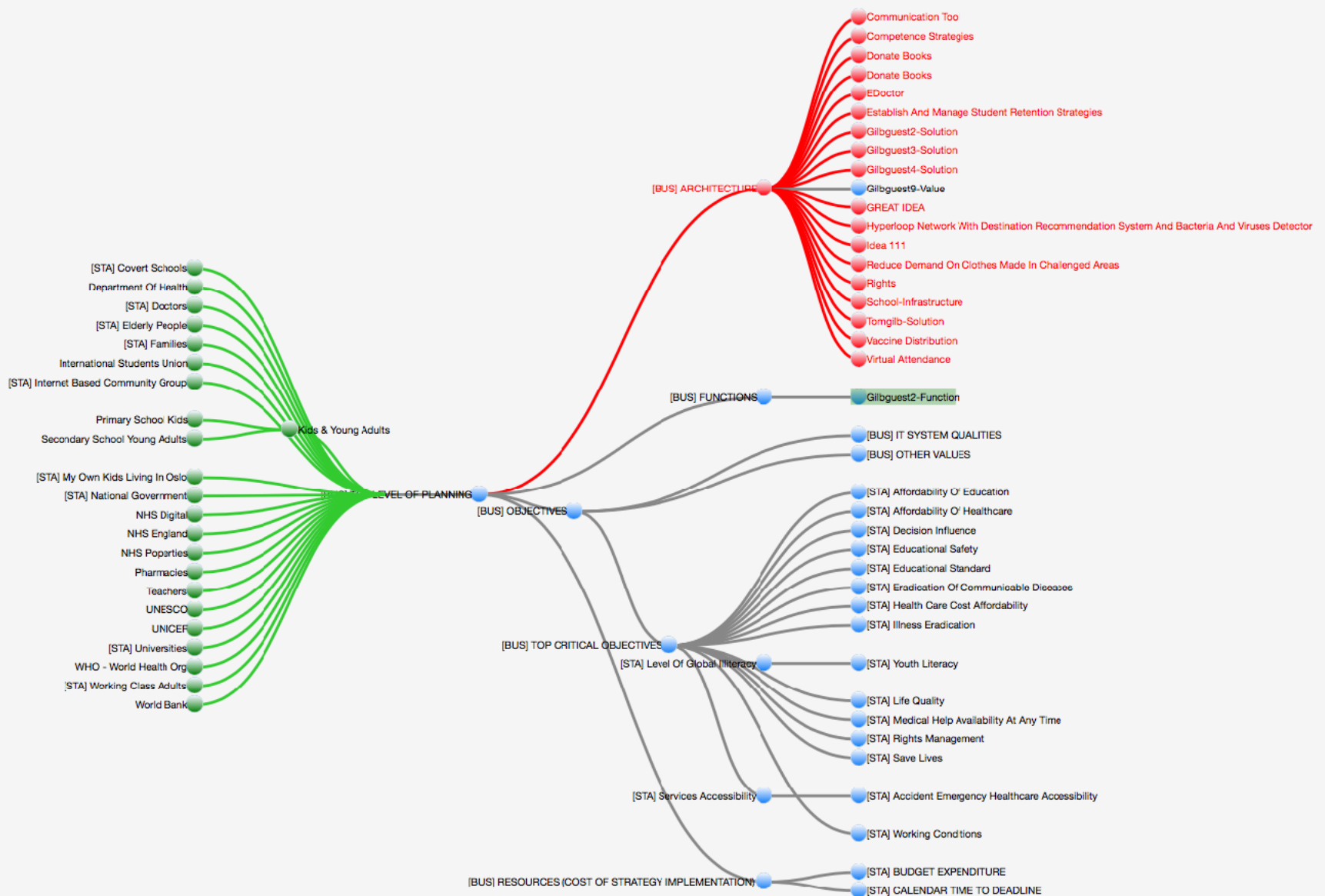
Selected Impact Target

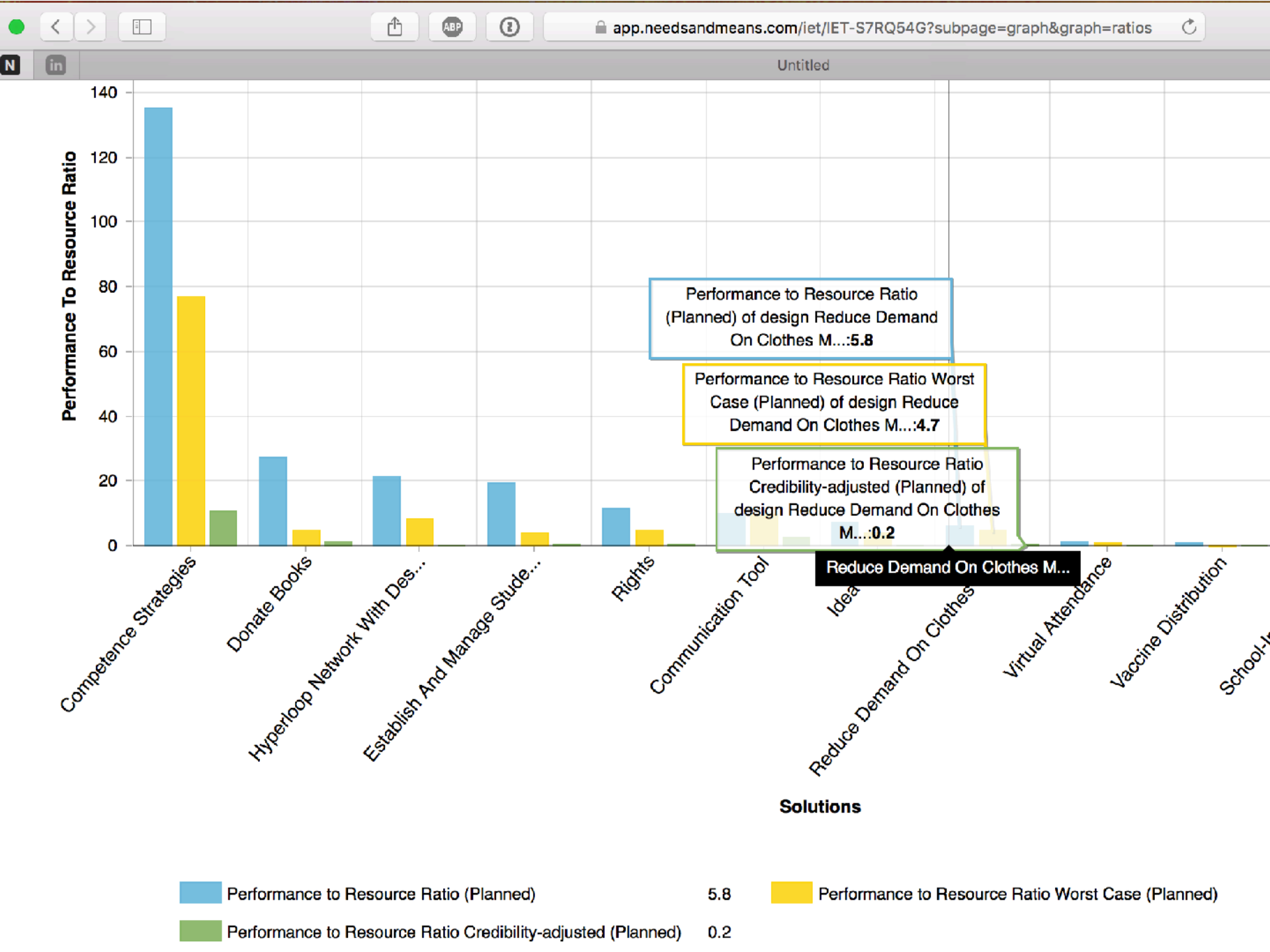
Row: Decision Influence
Col: Competence Strategies

Value Impact: Change...
Scale Level Impact (Estimate): Percent
Δ 20 ± 5
Scale Level Impact (Actual): Percent
Δ SC ± 0
Credibility: 0.2
We have one measurement somewhere
Evidence:
Increasing competence
SHOULD
increase decision influence
Source:
Type something



Plan Element Overview Diagram





It's a Project Manager's World

Newsletter with Dr. James Brown



- **Follow the money!** Whoever is paying is definitely a stakeholder. Also, if the program produces savings or additional costs for an organization, then the organization is also a stakeholder.
- **Follow the resources.** Every entity that provides resources, whether internal or external, labor or facilities, and equipment, is a stakeholder. Line managers and functional managers providing resources are stakeholders.
- **Follow the deliverables.** Whoever is the recipient of the product or service the program is providing is a stakeholder.
- **Follow the signatures.** The individual who signs off on completion of the final product or service (or completed phases of the product or service) is a stakeholder. Note: This may or may not be the recipient referred to in the previous bullet. Often there may be more recipients than signatories.
- **Examine other programs' stakeholder lists.** Include active programs and completed projects.
- **Review the organizational chart** to assess which parts of the organization may be stakeholders.
- **Ask** team members, customers, and any other confirmed stakeholder to help you identify additional stakeholders.
- **Look for the "Unofficial People of Influence."** These may be people who are trusted by high-level leaders or who wield a lot of power through influence and not position.

The goal of following these guidelines is to make sure every possible stakeholder is identified. Some of your stakeholders may play major roles, while others may have minor roles and little or no interest or interaction. Regardless of size or role, every stakeholder's needs must be assessed, and you cannot meet the needs of a stakeholder you have not identified. Reprinted from [The Handbook of Program Management](#)

<https://www.sebasolutions.com/dev/newsletter/?id=104>

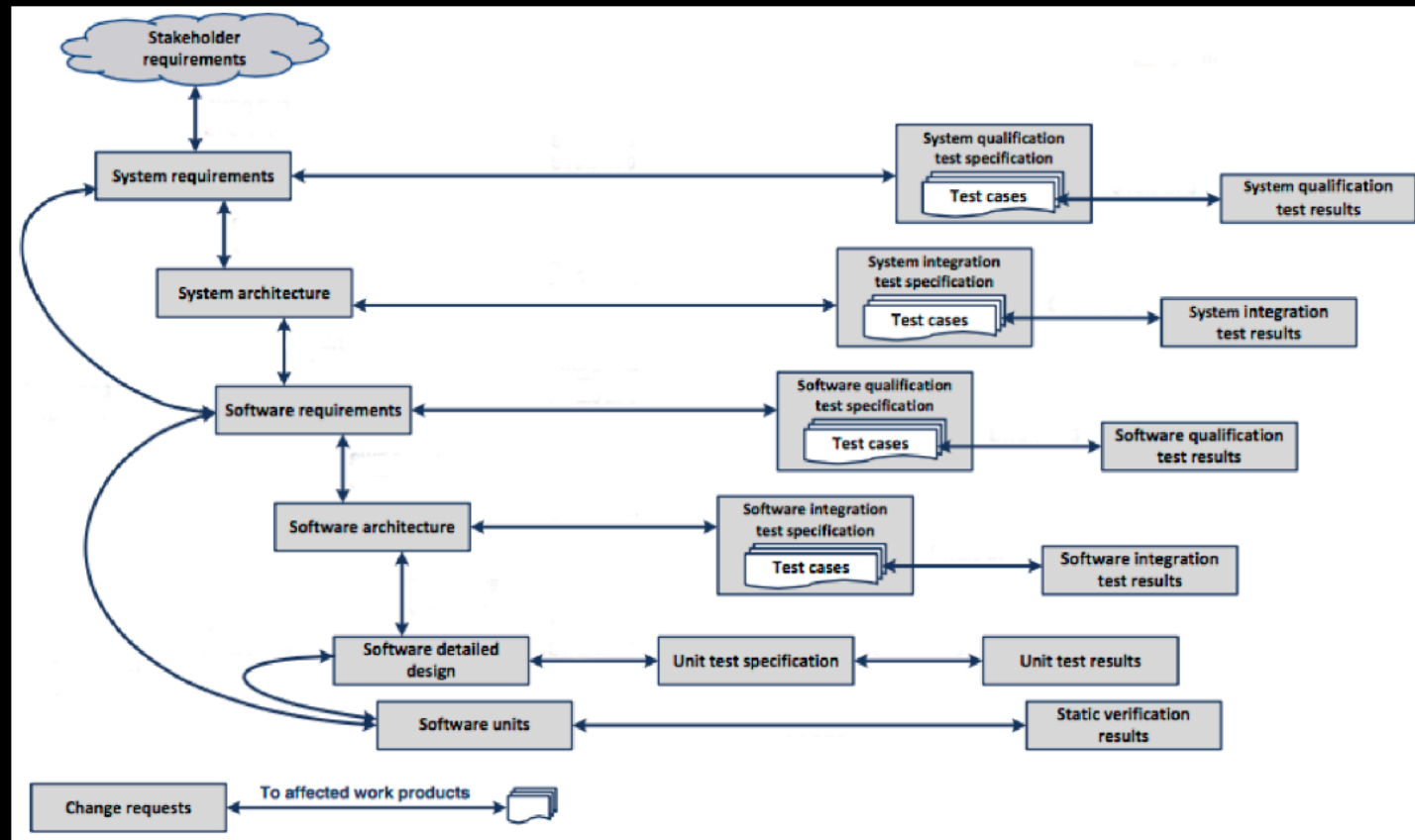
Stakeholder Requirements first



CHALMERS
UNIVERSITY OF TECHNOLOGY



UNIVERSITY OF GOTHENBURG



Automotive, S.I.G., 2010. Automotive SPICE Process Assessment Model. Final Release, v4, 4, p.46.

salomehonest@gmail.com, salomem@chalmers.se
Salome Maro, Chalmers 2017

Modeling Multi-level Stakeholder Relations Quantitatively using IE Tables

In order to save a large IT Scrum project that failed initially, (the new system drastically killed sales!). Kai modelled the (obviously, 'it failed') 'wicked system'. He built one Impact Estimation Table (aka Value Decision Table) for the top level of the Bring (Norwegian Post Office essentially) organization. This succeeded to resurrect the system, because it mapped the connection between technology and the higher levels of organizational objectives. The IT Development team was then instructed to focus on developing things that led to business (sales!) success.

Business Goals: The top management stakeholder level has problems, like *Increase Profit* and *Market Share*. Solutions have been identified (reduce *Training Costs*, and improve *User Productivity*). The expected, estimated, impact of these solutions on the (elsewhere, see Figure W4 for 'how it looks') *quantified* Problems, is given by the numbers estimated (later 'measured as a result') at their intersection. For example Training Costs reduction, if the solution works as expected, promised to move us 50% of the way towards our Market Share objective (the Problem,

Stakeholder Value: These solutions become the the Problem at the next level. The Stakeholder level. Think of these as the 30 or so individual transport companies that had been bought and merged to form Bring. It looks like the Solution named 'Intuitiveness' is estimated to contribute 10% of the progress we need towards the User Productivity problem objective. All objectives are of course quantified, elsewhere.

Product Val.: At the third level (Product Values), 'Find.Fast' (one of the Stakeholder solutions, is considered an IT System objective (a problem statement).

It looks like 'Service Guide' is a solution that is expected to contribute 40% towards the 'Find.Fast' Problem solution. And 'Service Guide' *also* is expected to contribute 80% towards a Performance problem.

Scrum Level: The Service Guide solution will be developed and implemented by the Scrum Team. Hopefully its impact will be approximately as expected, and will impact several levels up towards the Business Goals.

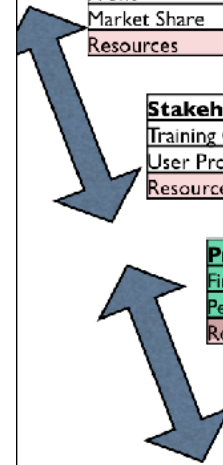
Business Goals	Training Costs	User Productivity
Profit	-10%	40%
Market Share	50%	10%
Resources	20%	10%

Stakeholder Val.	Intuitiveness	Find.Fast
Training Costs	-10%	50 %
User Productivity	10 %	10%
Resources	2 %	5 %

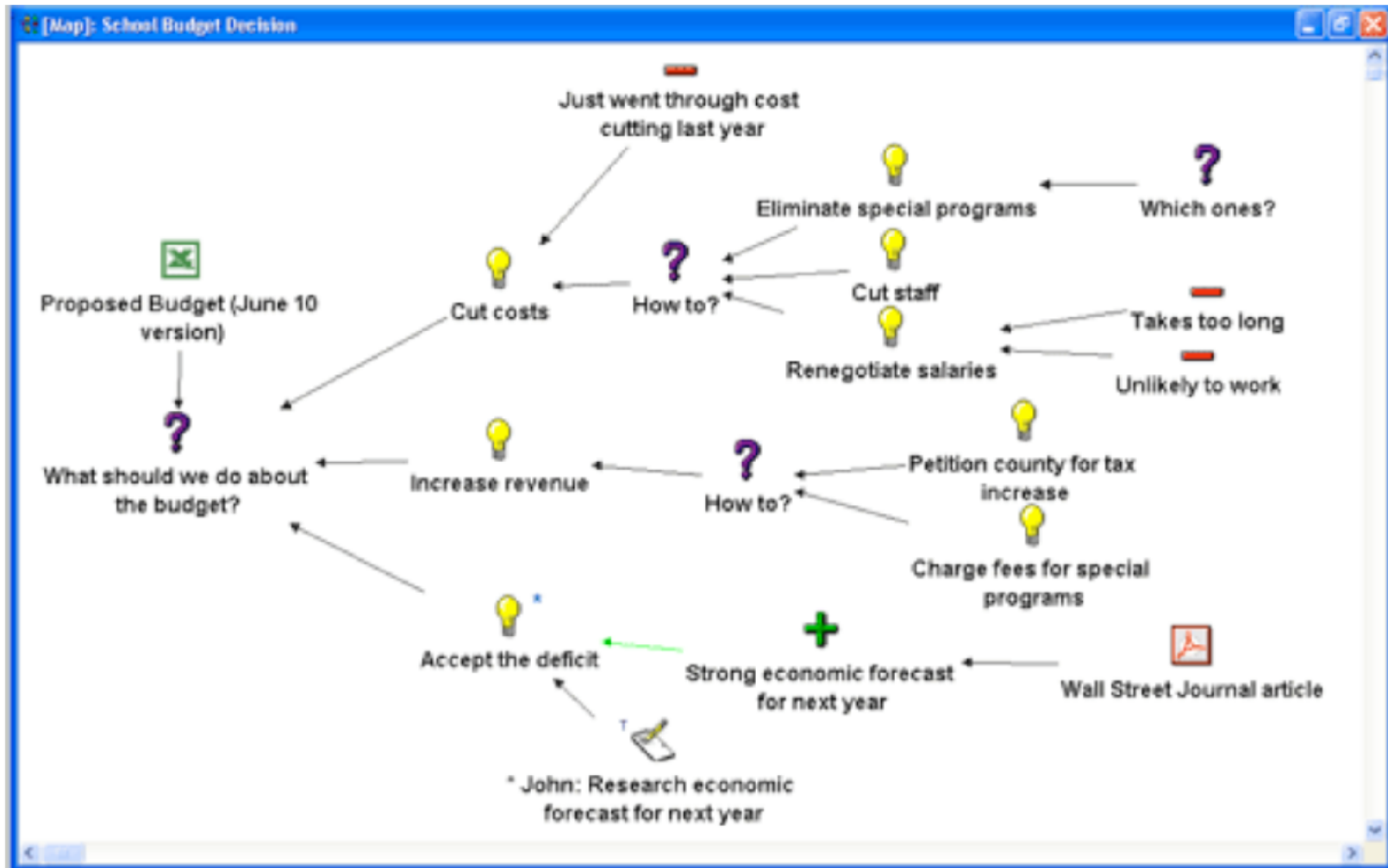
Product Values	GUI Style Rex	Service Guide
Find.Fast	-10%	40%
Performance	50%	80 %
Resources	1 %	2 %

Prioritized List
1. Service Guide
2. Solution 9
3. Solution 7

Scrum Develop
We measure improvements
Learn and Repeat



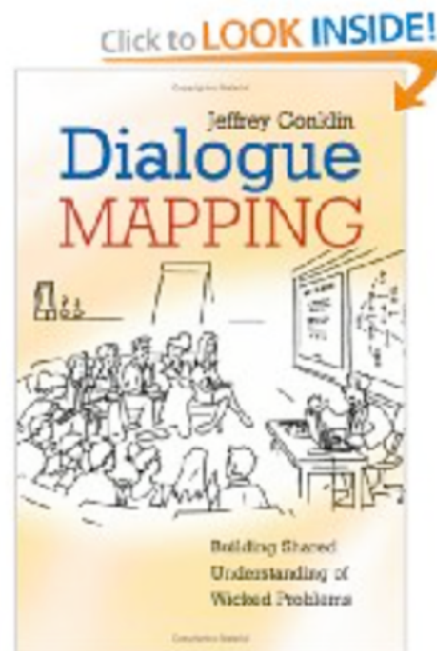
A Compendium Map



Jeff Conklin: Dialogue Mapping

Building Shared Understanding of Wicked Problems

By Dino Karabeg



“A tame problem:

1. **Has a well-defined and stable problem statement;**
2. **Has a definite stopping point, i.e., when the solution is reached;**
3. **Has a solution that can be objectively evaluated as right or wrong;**
4. **Belongs to a similar class of problems that are all solved in the same similar way;**
5. **Has solutions that can be easily tried and abandoned;**
6. **Comes with a limited set of alternative solutions.”**



Jeff Conklin

Degrees of Wickedness

“It turns out there's a slippery linguistic trap in the name 'wicked problem,' because the name implies there's a 'solution.'

It's more accurate to talk about the degree of 'wickedness' in a situation (or perhaps how messy a given 'mess' is).

(Framing the challenge in this way might help to break our addiction to racing around creating and exacerbating 'problems' with our 'solutions.')

The truth is that a wicked problem is a set of interlocking issues across many domains (i.e. political, environmental, economic, etc.),

and any attempt to bound the scope of the challenge is arbitrary.

Moreover, only a tame problem can be 'solved' —

wicked problems can only be managed more or less effectively, more or less efficiently.

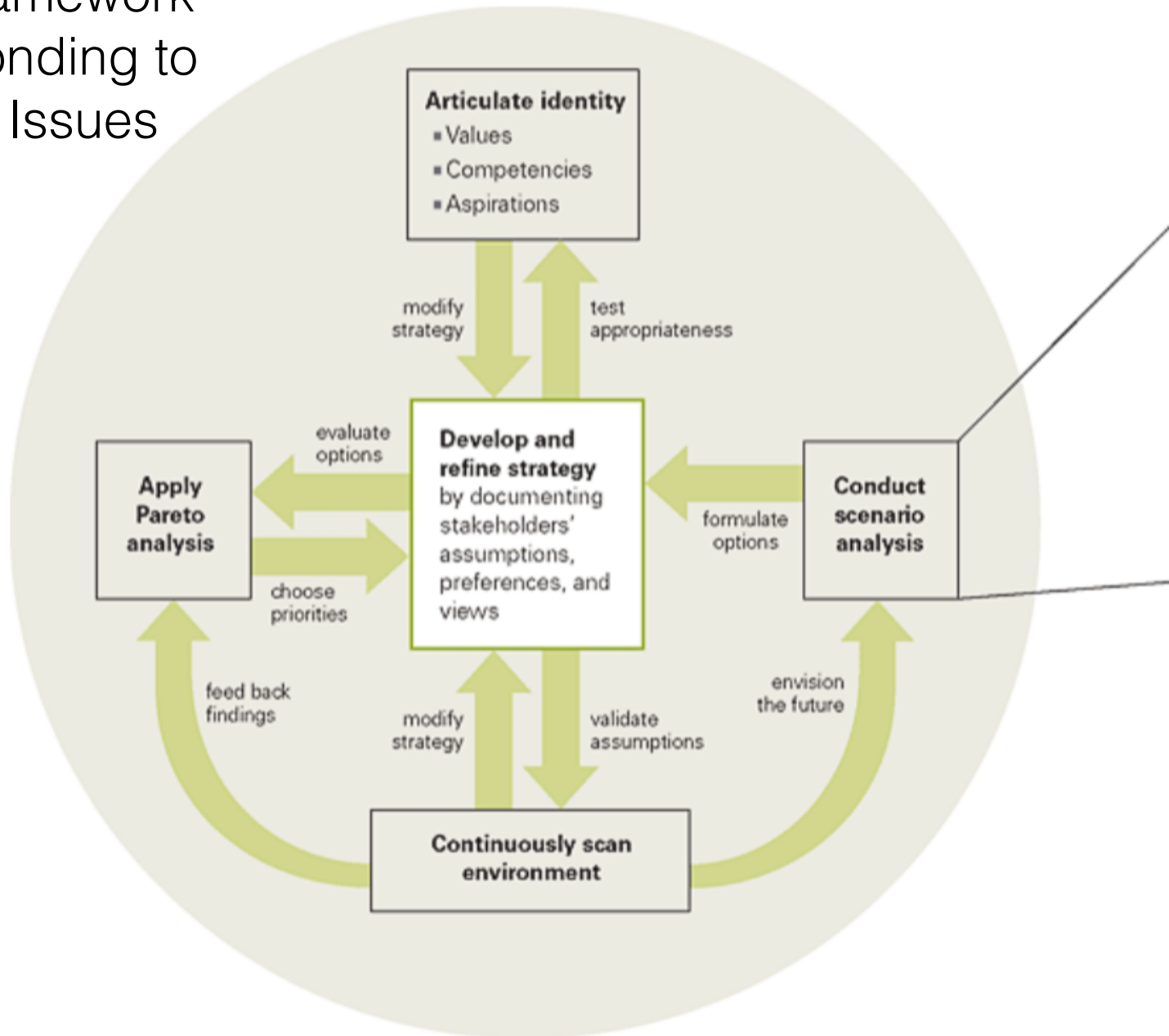
The best we can do is to find more elegant and expedient interventions,

but ultimately the human condition is that there's no getting away from the 'Whac-a-mole' phenomenon that even the most elegant intervention on a wicked problem will make some issue(s) more wicked for some stakeholder(s).”



Jeff Conklin

PPG's Framework for Responding to Wicked Issues



PPG's Framework for Responding to Wicked Issues

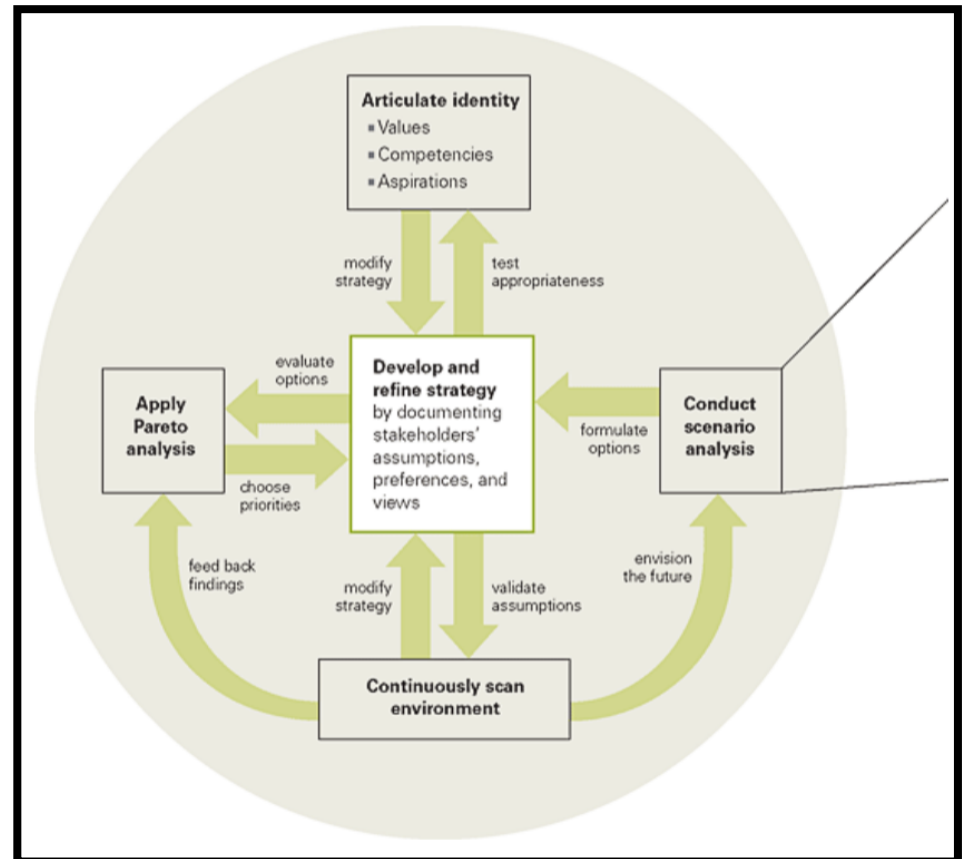
PPG Industries develops strategies

after seeking and documenting **stakeholders'** *assumptions, preferences, and alternate views.*

It evaluates the appropriateness of the strategies it draws up against its statement of identity and continually scans the environment and tests assumptions to see if it needs to change course.

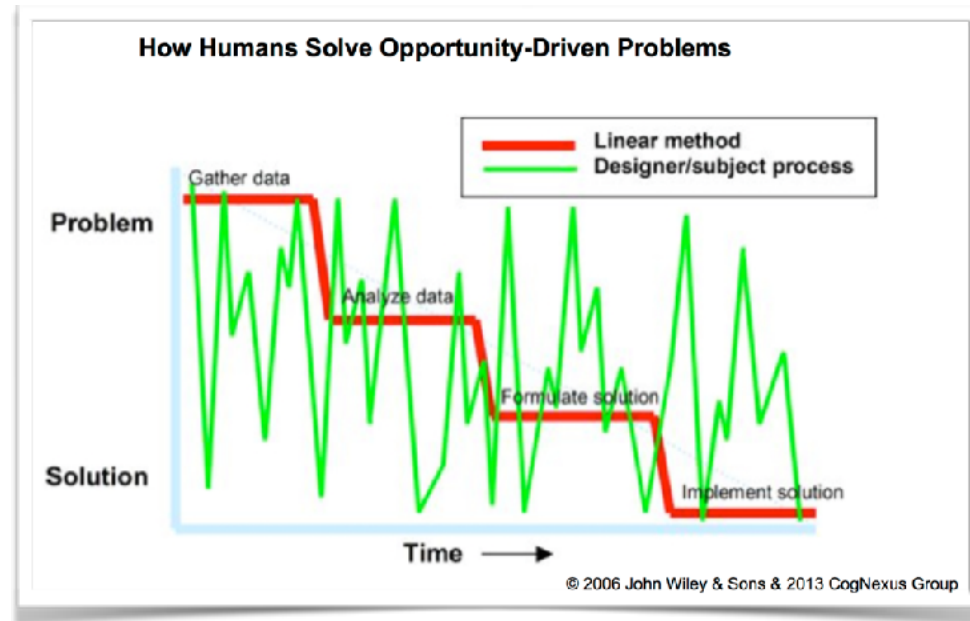
The assessment of possible scenarios helps PPG formulate new options,

and its managers apply Pareto analysis to identify **a small number of actions that are likely to have a large impact.**



Parallel Planning

- The Red Line is the way in which we're "supposed" to solve problems or design things.
- The green line represents the way that experienced engineers typically approach a novel, complex problem—
- they begin by positing a solution to a partially-understood problem space and then bump into problems or constraints, solve for them, and keep learning and expanding their knowledge of the problem domain as they solve it.
- When you have a whole bunch of **people from different perspectives** doing this in parallel, you get lots of spikes as different people make progress and others run into bottlenecks.
- **Opportunity**-driven problems don't lend themselves to a linear waterfall method, but we keep trying to shoehorn Wicked Problems into that linear approach.



• <http://cognexusgroup.com/wp-content/uploads/2013/07/Using-Dialogue-Mapping-to-Address-Wicked-Problems-05-23-2013.pdf>

• Slide by Tom Gilb Jan 10 2016

Chapter 10 Examples

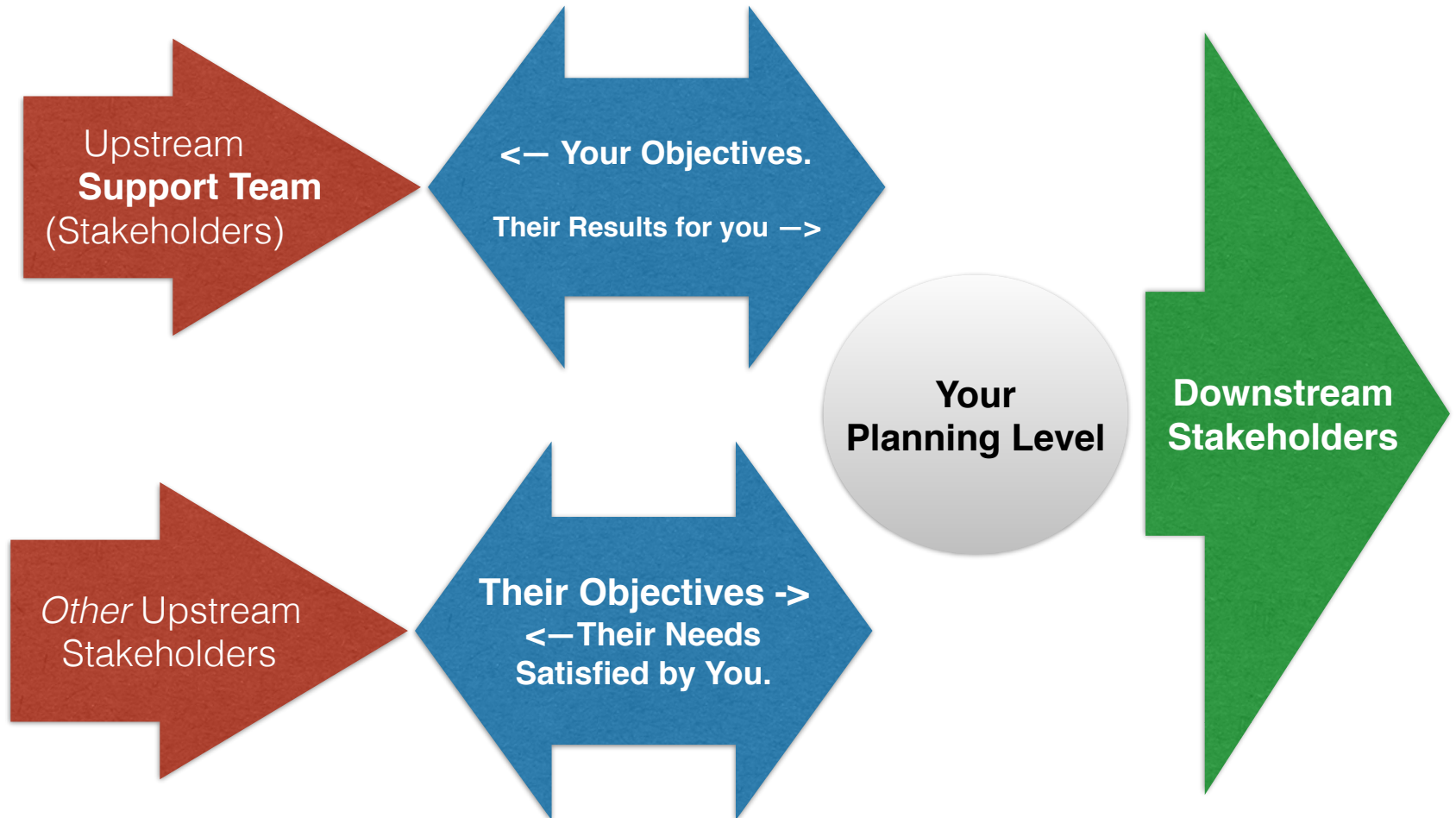


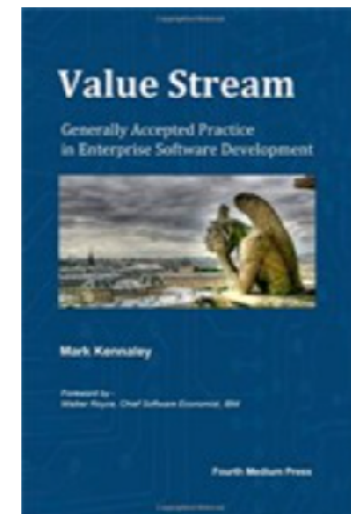
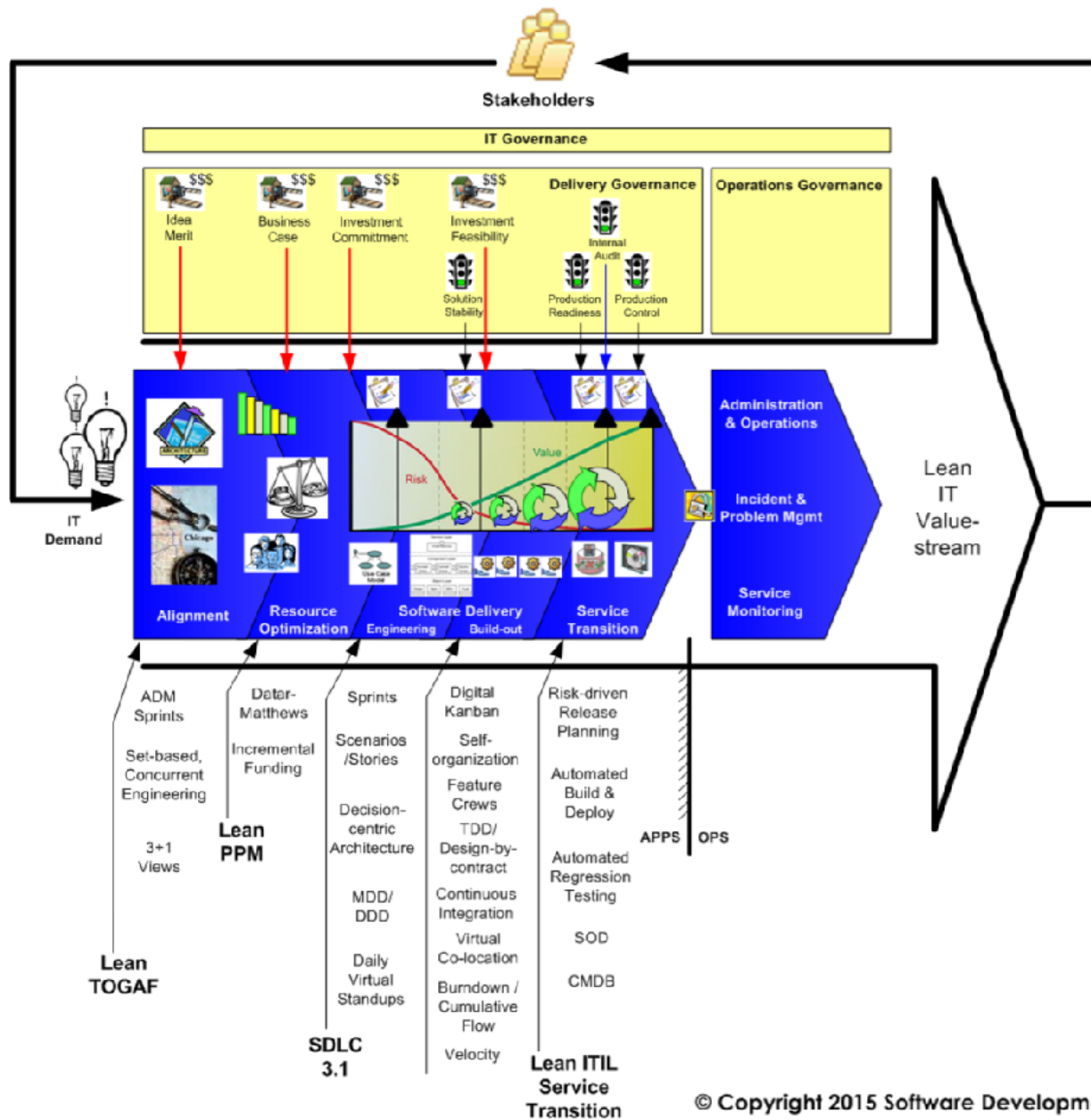
Figure 10.6 Functional view of the generic change management process

Means Objectives

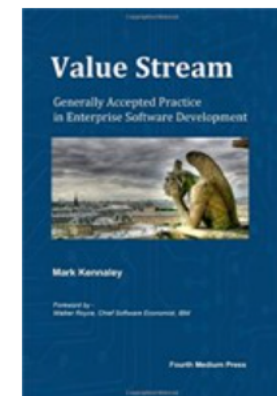
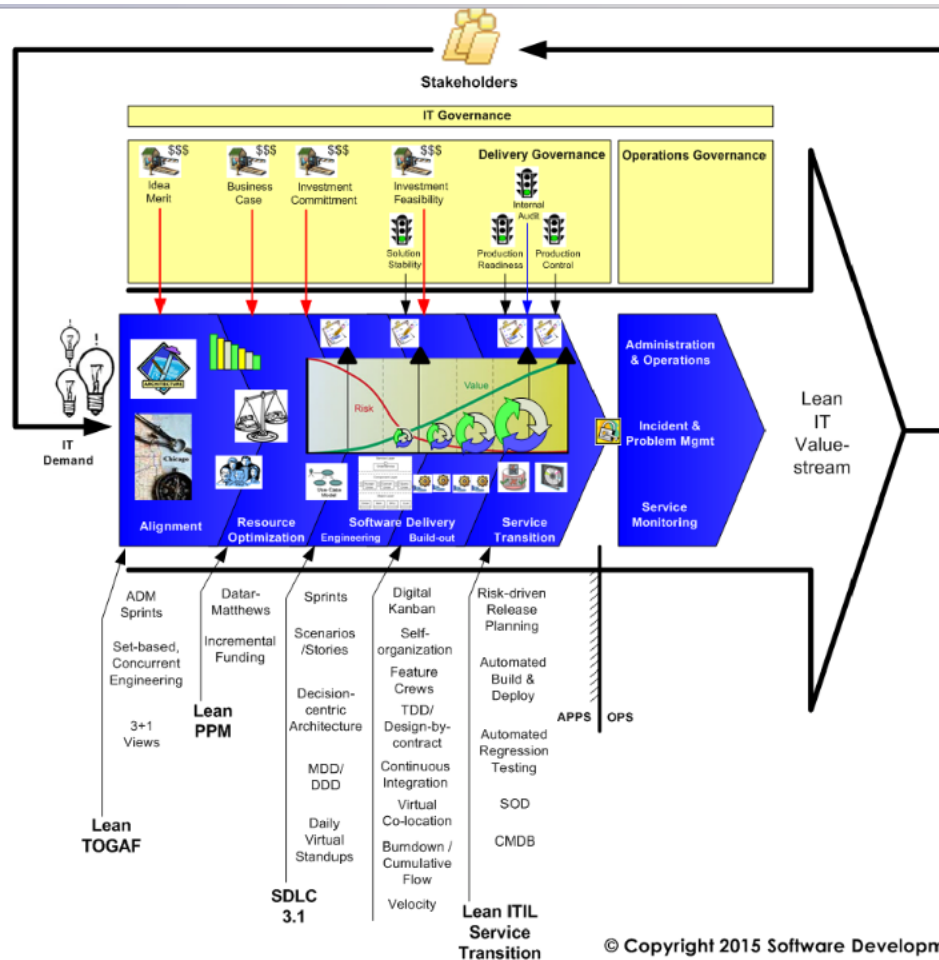
Strategic Objectives

Fundamental Objectives

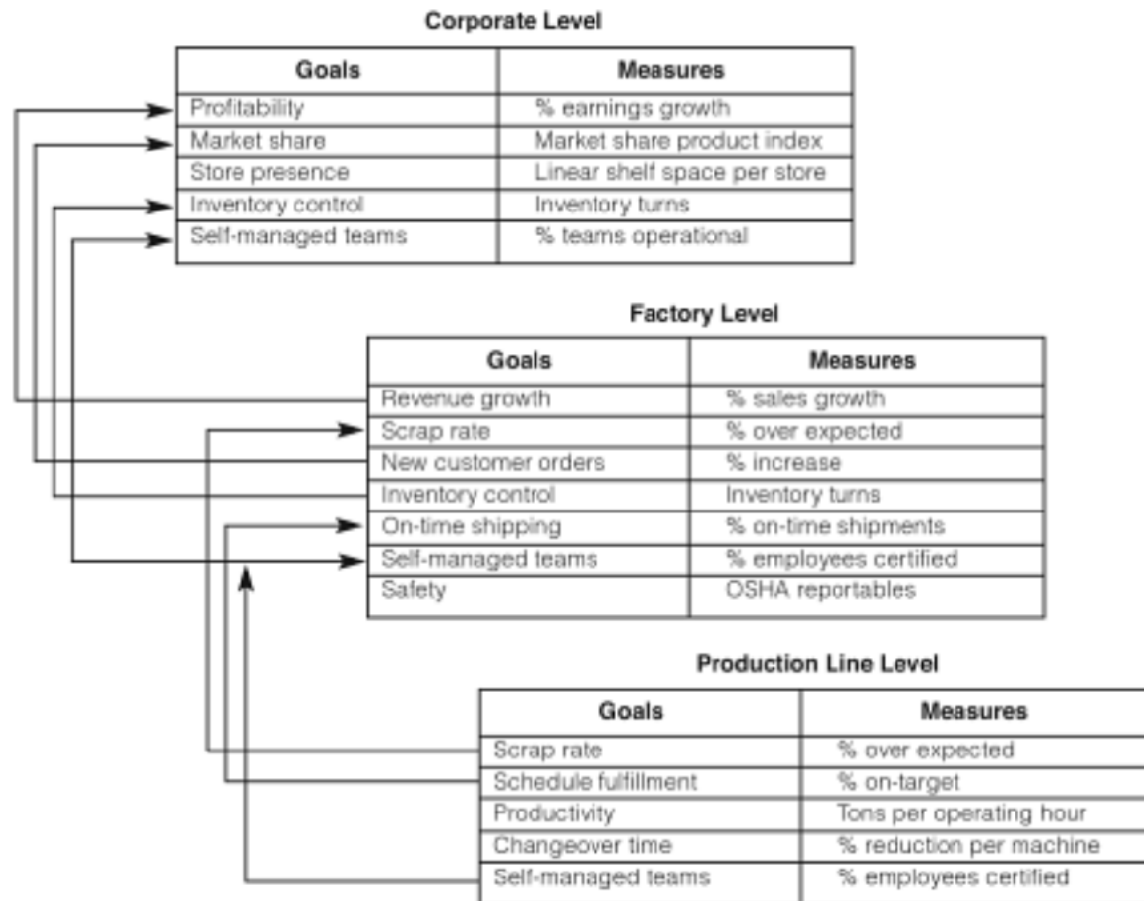




Value Stream Stakeholder



R I Wise



Statskraft Stakeholder Matrix

Stakeholder Analysis for Statskraft.pdf (1 page)

High Interest & Low Power Final customers Environmental activist groups Anti-corruption non-governmental organisations Labourers on the projects Local communities Local schools	High Power & High Interest Norwegian government National and regional governments where Statskraft operates globally: Nepal, Laos, Brazil, Zambia, etc. Suppliers of machinery for projects Engineers involved in the projects Joint-venture partners Local unions Landowners Regulatory bodies
Low Power & Low Interest University professors in related topics (chemical engineering, mechanical engineering, thermodynamics, etc) University students of related subjects (see above) Research centres of renewable energies Competitors	High Power & Low Interest Financial institutions

Courtesy of "Dimitrios Polychronopoulos" griegogrec@gmail.com
Bedriftsøkonomisk Institutt 2015

Organize



Staff



Playbook



Design



Inspect



Adapt



Learn



Simulate



Simulation

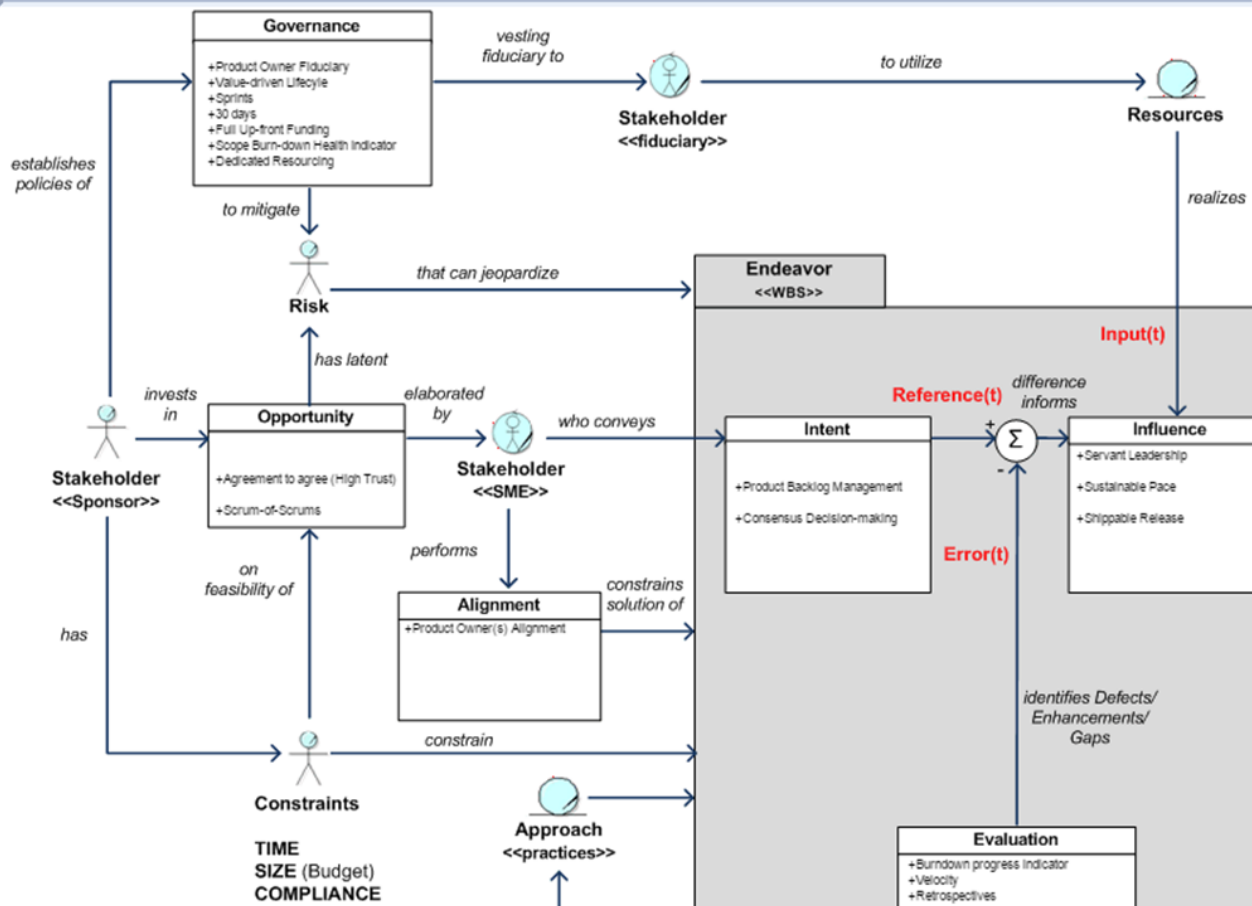
System Structure

System Dynamics

Value-Stream Analysis

Explore differences in socio-technical system configurations:

Select a method:



Brodie's Stakeholder Map 2014 PhD

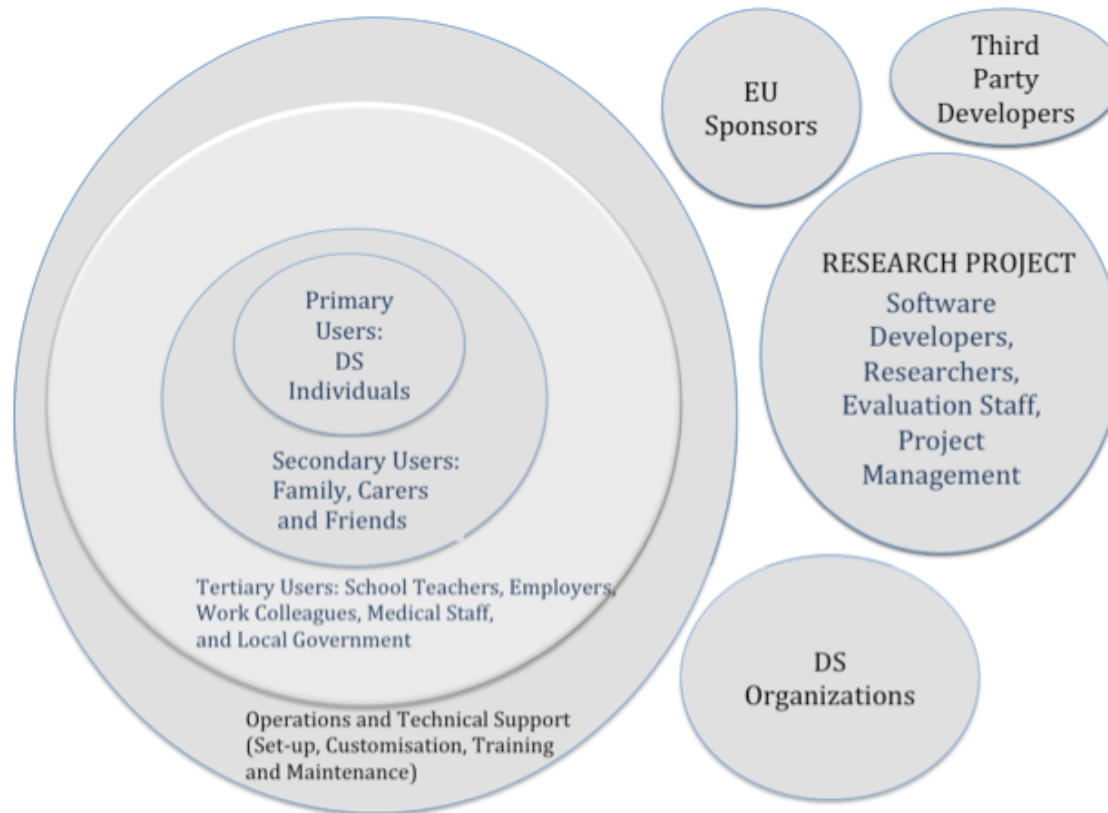


Figure 5.y: Various stakeholders

Brodie's Stakeholder Map 2014 PhD

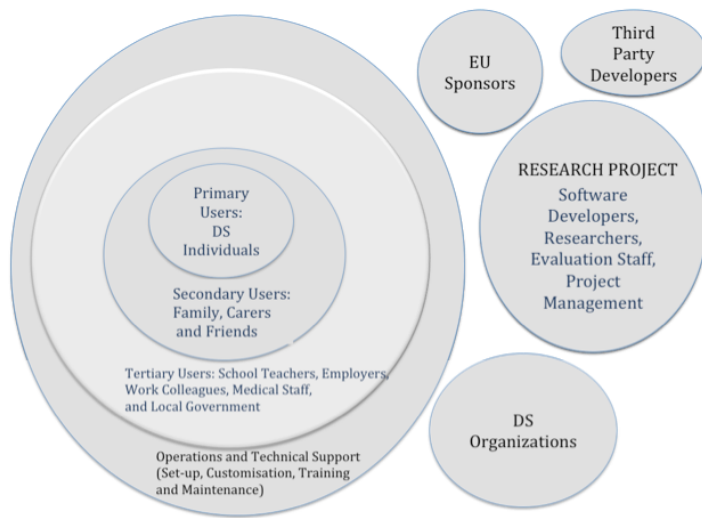


Figure 5.y: Various stakeholders

- **2. The stakeholders**
- The stakeholders identified to date include:
- Primary users (PU) - Down's Syndrome individuals
 - children
 - teenagers
 - adults (19% work and 23% attend a day centre)
- Secondary users (SU) - carers
 - Family or care home (85% + 3%)
 - Monitoring (as opposed to living alongside) (12%)
- Tertiary users (TU) - friends (Note: in their own right some could additionally be primary users)
- Tertiary users (TU) - teachers (including day centre staff) (23% attend a day centre + x% at school)
- Tertiary users (TU) - employers (19% work)
- Tertiary users (TU) - health-related staff (doctors, nurses, dentists, nutritionists, etc.)
- Down's Syndrome organizations
- Project system developers
- Technical support
- Operations
- Researchers
- EU project sponsors
- Legislation
- Third party developers
- Project management
- Research organizations
- Industrial partners.

Down's Syndrome Case Objectives, Functions: Brodie PhD Case 2014

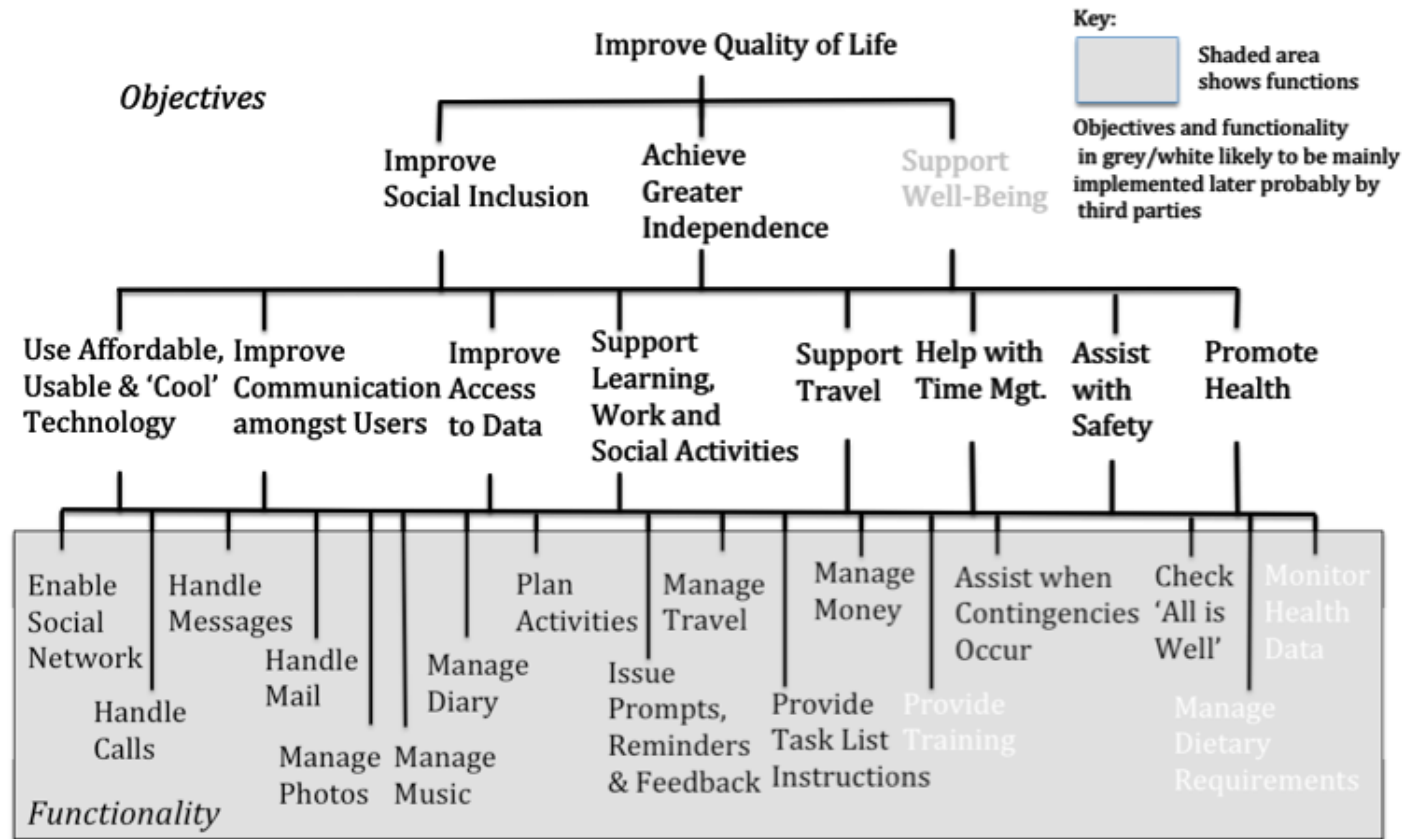
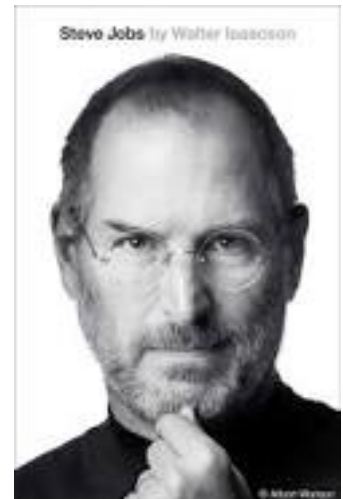


Figure 5.X: Primary user objectives and functionality

Steve Jobs on Experience and Design

- A lot of people in our industry haven't had very diverse experiences.
- So they don't have enough dots to connect, and they end up with very linear solutions without a broad perspective on the problem.
- The broader one's understanding of the human experience, the better design we will have.
-
- Via Michal Vallo Budapest talk 2014



Roxanne Miller's Stakeholder Lists

“The Quest for Software Requirements

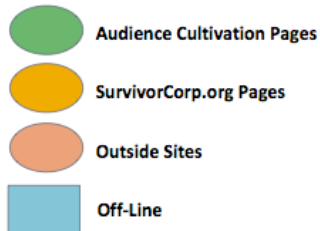
- ☐ Sponsor/Champion/Client
- ☐ End-User/Customer
- ☐ Business Subject Matter Expert (SME)
- ☐ Business Process Area Experts
- ☐ Technical Subject Matter Expert (SME)
- ☐ Government Authority
- ☐ Regulatory or Compliance Authority
- ☐ Industry Standards Authority
- ☐ Special Interest Groups
- ☐ Cultural Interest Groups
- ☐ Public Opinion Representatives
- ☐ Professional Organizations
- ☐ Market Analysts
- ☐ System End-users
- ☐ System Buyers
- ☐ Recycling and Waste Managers
- ☐ Usability and Efficiency Experts
- ☐ Business Support Departments
 - Audit
 - Sales
 - Marketing
 - Accounting
 - Legal
- ☐ User Acceptance Test Group
- ☐ Development Team Members
 - System Architect
 - Quality Assurance
 - System Analyst
 - Designer
 - Developer (Programmer)
 - Database Administrator (DBA)
 - Data Warehouse Specialist
 - Tester
 - Release Coordinator
 - Technical Writer
- ☐ Production Support Personnel
- ☐ End-user Trainer or Training Personnel
- ☐ Network Planner
- ☐ Usability Engineer
- ☐ Business Operations Support Personnel
- ☐ Technical Operations Support Personnel
- ☐ Implementation Architect
- ☐ Configuration Management
- ☐ Product Disposers
- ☐ Project Sponsor
- ☐ Business Process Owner
- ☐ Project Manager
- ☐ Requirements Management Process Owner
- ☐ Project Team Members
- ☐ Implementation Support Team
- ☐ Project Investors
- ☐ Maintenance and Service Staff

Create value for stakeholders



We believe that all of our shareholders and other **stakeholders** are best served by ... We will not jeopardize the important **values** we are creating at NCR and ...

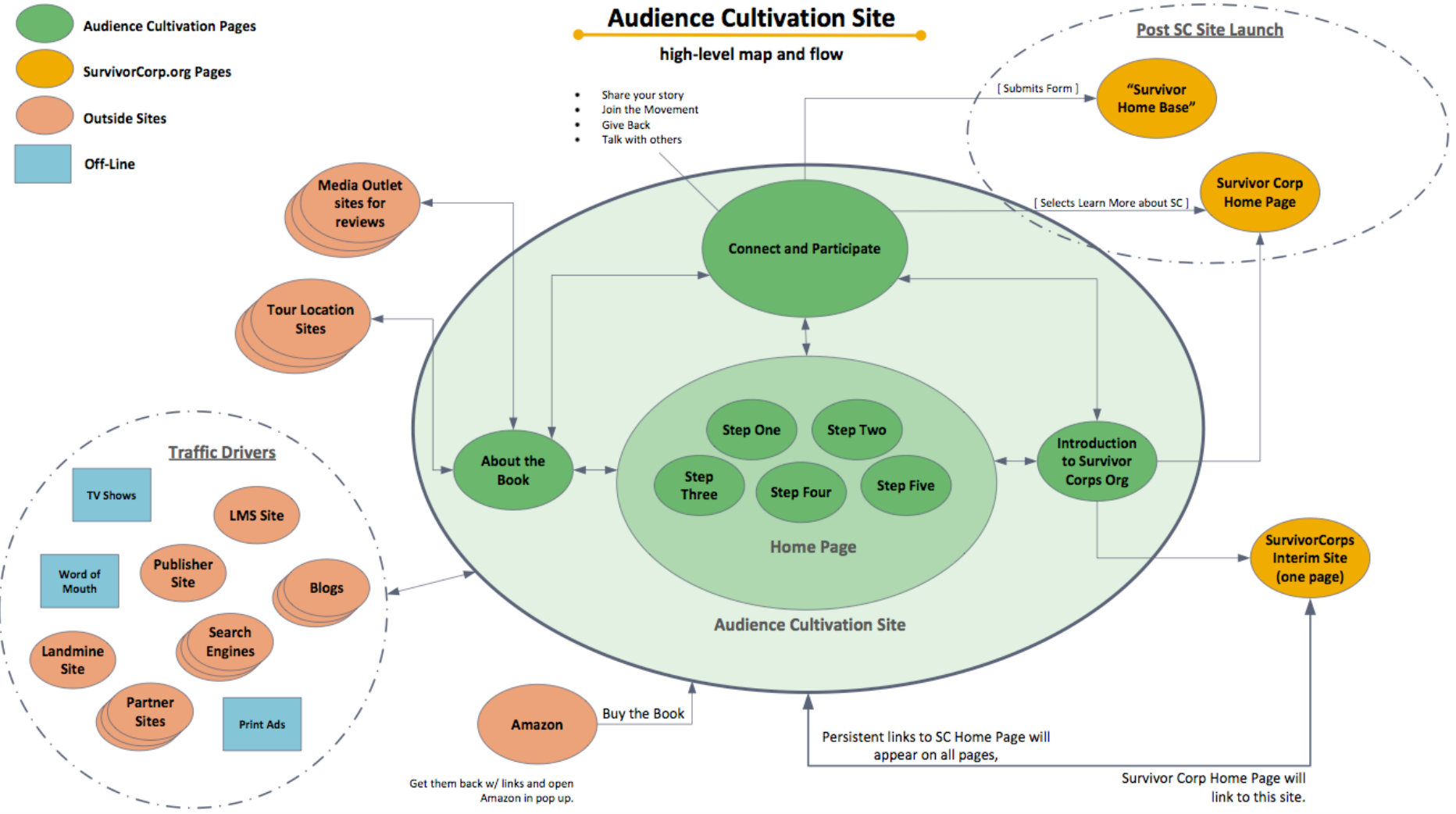
- **Stakeholders** are all constituencies with a stake in the fortunes of the company. NCR's primary mission is to **create value** for our **stakeholders**..
 - www.valuebasedmanagement.net/articles_mctaggart_governing_full.pdf - [Similar](#)
- 1887 , NCR took the initiative to identify its mission as to “**create value for stakeholders**”. Try as they might, NCR ultimately failed with this ...
- [maaw.info/ArticleSummaries/ArtSumEstes92\(2\).htm](http://maaw.info/ArticleSummaries/ArtSumEstes92(2).htm)
- 1987 A company wide program helped make NCR people aware of the company's mission to “**create value for stakeholders**”. New products included: ...
 - www.ncr.org.uk/page45.html
- In the late-80s, NCR took the initiative to identify its mission as to “create value for stakeholders”. Try as they might, NCR ultimately failed with this mission. The accounting system and accounting culture functioned to deter it from its mission, constantly pulling the company and all management decisions away from stakeholder value and back to stockholder value.
 - [http://maaw.info/ArticleSummaries/ArtSumEstes92\(2\).htm](http://maaw.info/ArticleSummaries/ArtSumEstes92(2).htm)



Audience Cultivation Site

high-level map and flow

- Share your story
- Join the Movement
- Give Back
- Talk with others



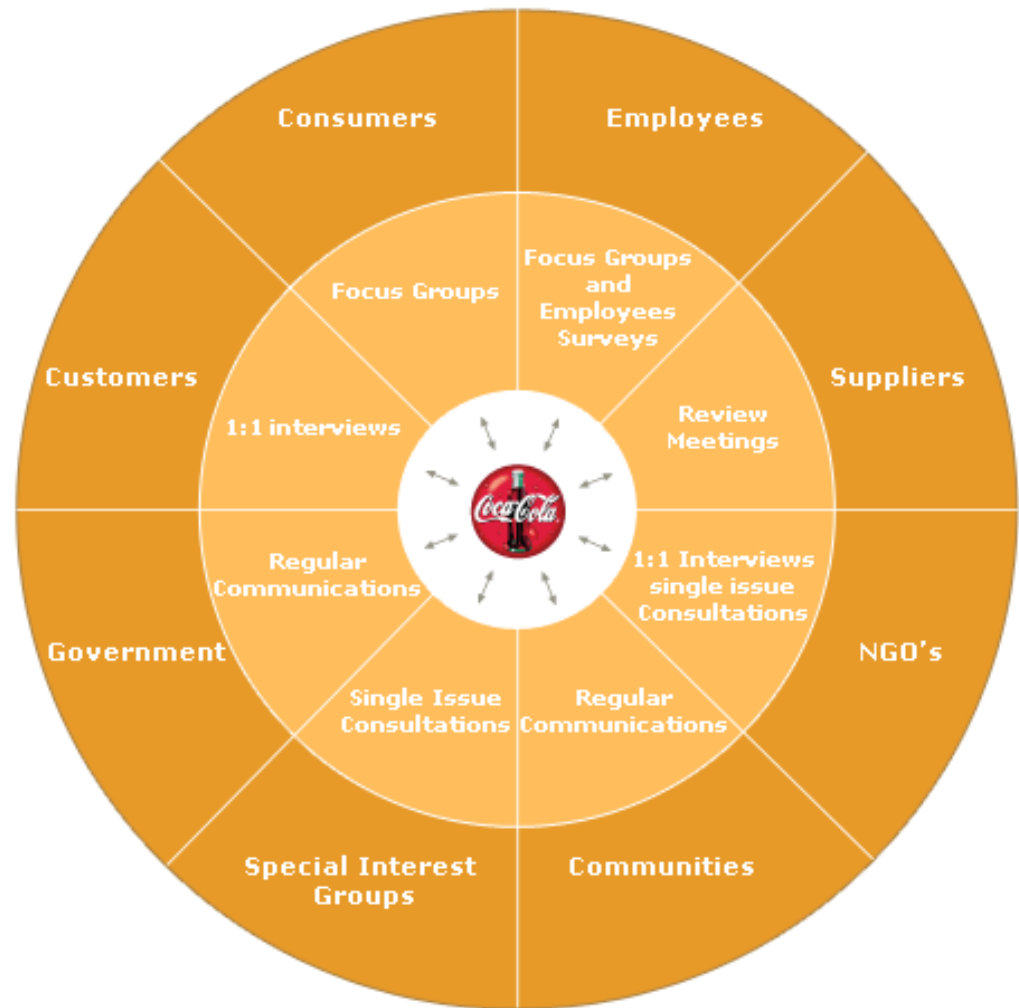
All Real Stakeholders:



- Many (30-40) multiple stakeholders to consider in QA:
- not just 'user' and 'customer'.
- This is a Scrum 'Product owner' responsibility:
 - but how well is it done in practice?
- We believe it is done badly,
 - and have constructive advice for doing it better.

Stakeholder: Concept *233 .

‘Stakeholders’ are:
Any person, group or thing
that can determine our
systems degree of success
or failure,
by having an opinion about
system performance
characteristics and
system lifecycle constraints



Stakeholder Related Concepts

Benefit **Concept *009**
Benefit is value delivered to stakeholders.

Client **Concept *235 May 6, 2003 TG**
A client is a person or group who has requested some defined work, system, or product, and will pay for it, directly or indirectly.

Client Stakeholder *650 May 21 2005
A Client Stakeholder states needs, approves requirements and receives benefits or results produced by a Server Stakeholder.

Consumer **Concept *038 May 6, 2003**
A consumer is a person or group, who makes use of ('consumes') a process output (product).

Decision-maker **Concept *237 January 27, 2003**
A decision-maker is a person or group, who will make a specific defined decision.

External Stakeholder: Concept *495 October 27 2001
External stakeholders are stakeholders which are directly impacted by, or which use, a defined focus system.

Internal Stakeholder *494 Oct 27 2001
Internal stakeholders are stakeholders that directly impact a defined focus system. They are related to the environment systems supporting the focus system.

Owner **Concept *102 February 5, 2003**
A person or group responsible for an object, and for authorizing any change to it.

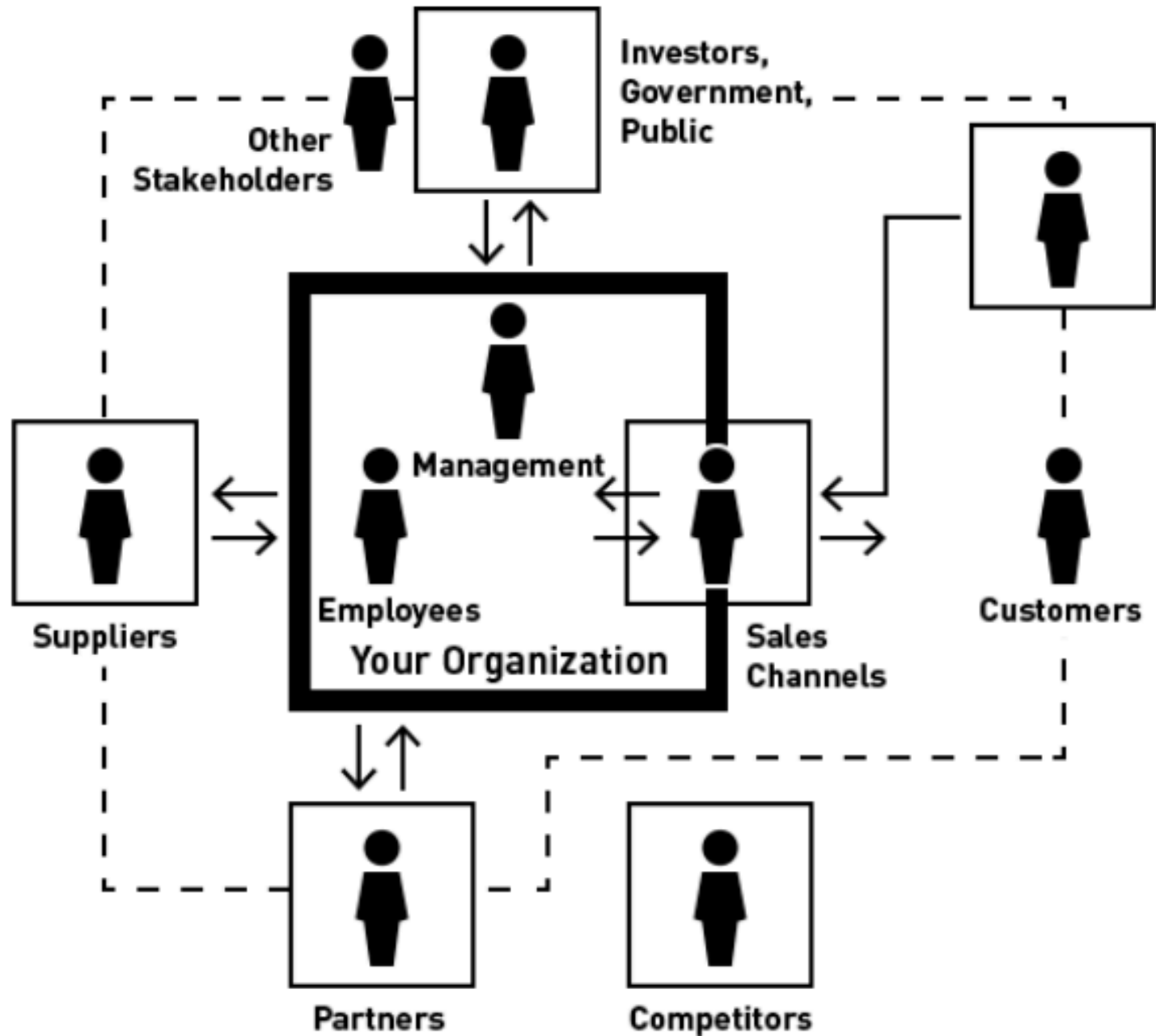
Role **Concept *253 February 27, 2003**
A role is a defined responsibility, interest or scope for people.

Server Stakeholder *651 May 21 2005, 2017
A server stakeholder attempts to deliver some results to satisfy the needs of a client stakeholder

Sponsor **Concept *396 May 6, 2003tg**
A sponsor is a person or group, who has an interest in supporting the achievement of specific system change.

Support System Concept *152 April 1, 2003
A support system is any system that has performance levels that impact a defined stakeholder environment. A support system is intended to contribute to the stakeholder benefit level.

User **Concept *234 May 6, 2003**
A user is a person or group, who actually will make *practical* use of a system.



The Stakeholder Analysis Worksheet

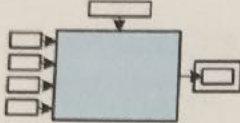
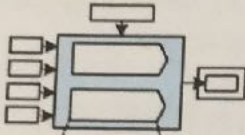
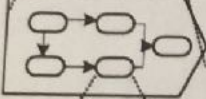
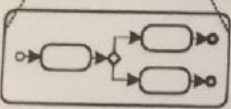
Stakeholder Analysis Worksheet

Organization-in-Scope: Copies-R-Us Store

Process-in-Scope: Make Copies

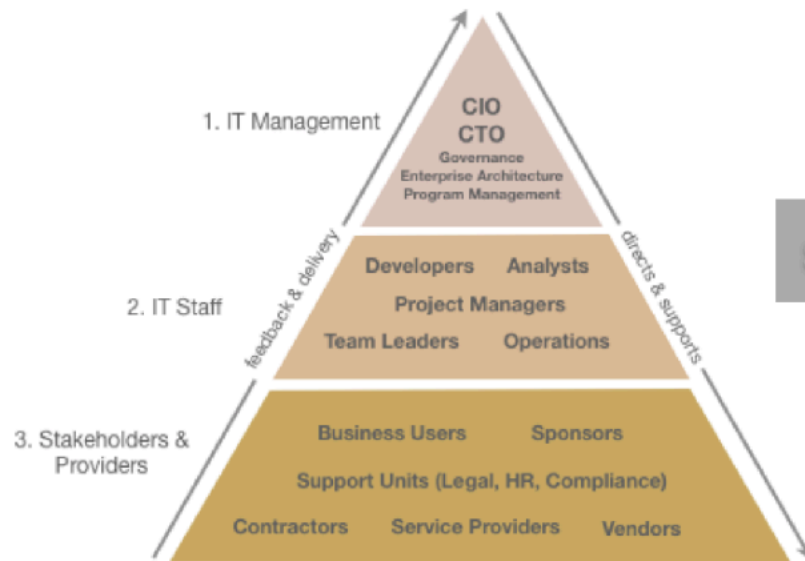
Stakeholder Type	Needs/Expectations	KPIs	Objective
Customer	High Quality Copies	Complaints about Quality %	0% Complaints about Quality
Copies-R-Us Corporation	Copiers Produce High Quality Copies	Complaints about Quality %	<2% Complaints about Quality
Customer	Faster Service than Competitors	% of Customers Saying Service is Faster than other Copy Stores	95% of Customers Say Copies-R-Us is Fastest Copy Store
Copies-R-Us Corporation	Reasonable Profit	Average Profit per Job %	10% Profit per Job Average
Credit Agency	Consistent Number of Credit Approval Requests	Number of Credit Approval Requests per Month	> 300 Credit Approval Requests per Month
Delivery Service	Consistent Number of Deliveries	Number of Deliveries per Month	> 100 Deliveries per Month

Types of Decomposition and Alignment

	Vision Statement	Organization /Process	Stakeholders	KPI/Measures	Manager's Objectives	Business Rules	
Decomposition ↓	The goals of this organization are...	Organization 	The Stakeholders of the Organization are...	The organization scorecard defines the high priority measures the organization seeks to achieve...	Manager's objectives, incentives & bonuses aligned to organization goals	These policies will govern and be implemented by this organization	Alignment ↑
	The goals of this value chain are...	Value Chains or Level 1 Processes 	The Stakeholders of the Value Chain are...	This value chain scorecard defines the high priority measures this value chain will be optimized to achieve...	Manager's objectives, incentives & bonuses aligned to value chain goals	These policies will govern and be implemented by this value chain	
	The goals of this process are...	Level 2 Processes 	The Stakeholders of this process are...	The process scorecard defines the high priority measures this process will be optimized to achieve...	Manager's objectives, incentives & bonuses aligned to process goals	These policies and business rules will govern and be implemented by this process	
	The goals of this subprocess are...	Level 3 Process, Etc. 	The Stakeholders of this subprocess are...	This subprocess scorecard defines the high priority measures this subprocess will be optimized to achieve...	Manager's objectives, incentives & bonuses aligned to subprocess goals	These business rules will govern and be implemented by this subprocess	

Old Model of IT

centralized hierarchical
automation of business



- Applies technology to what the business does today
- Good at maintaining status quo
- Focus on efficiency, economy of scale, continuity
- Well-defined processes designed for monolithic IT



Some Rights Reserved. 2015. adjuvi by Dion Hinchcliffe

New Model of IT

decentralized network enablement
of digital transformation

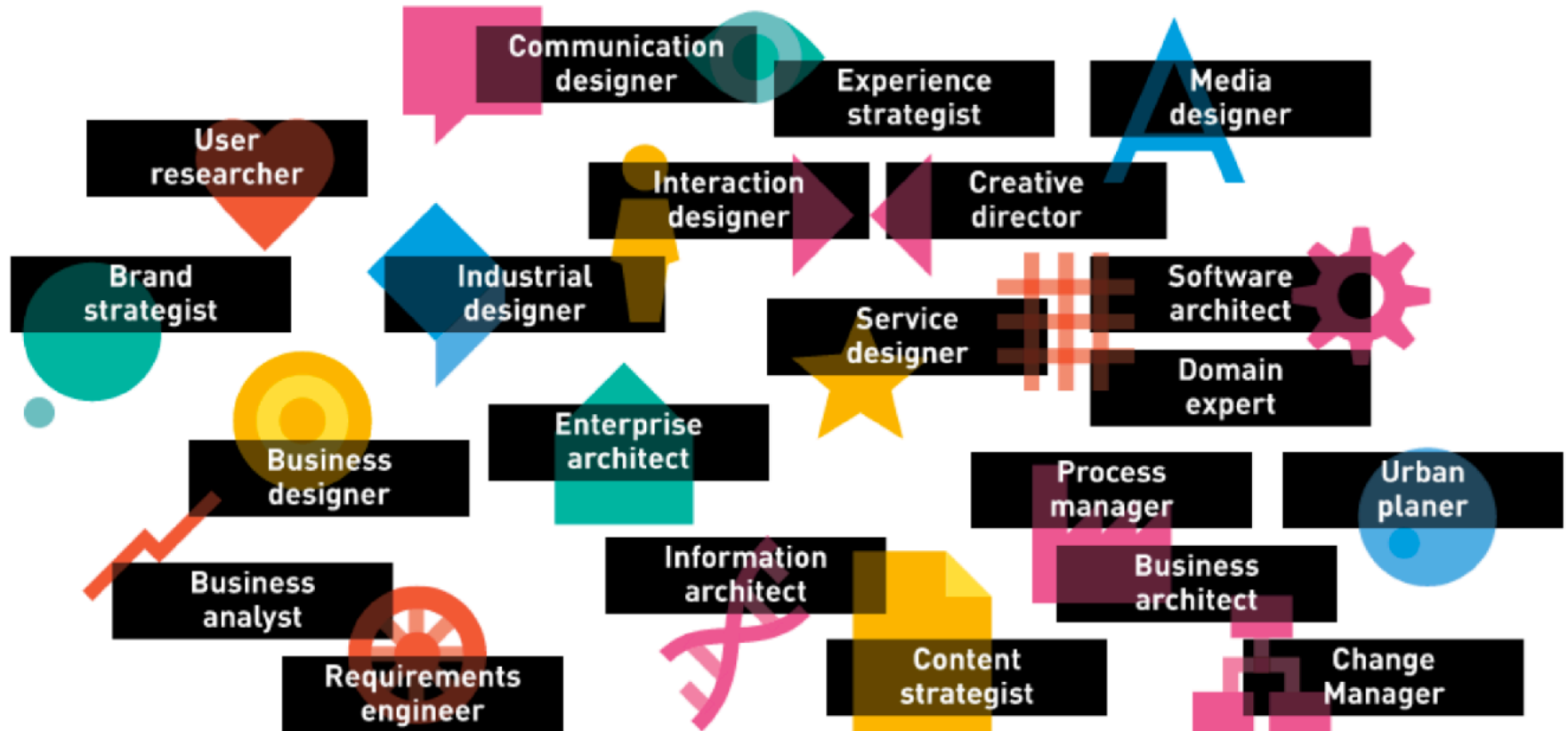


- Explores how technology re-imagines the business
- Good at managing constant technology change
- Focus on responding to opportunities at scale
- Dynamic self-organizing processes for small IT in volume

https://dionhinchcliffe.files.wordpress.com/2015/05/old_it_versus_new_it_networks_of_change_agents_enablement.png

Developer Stakeholders

2017 03 02 eda_c QualiSoft frokostmøte - NETIGATE.pdf



Source: Milan Guenther 2017

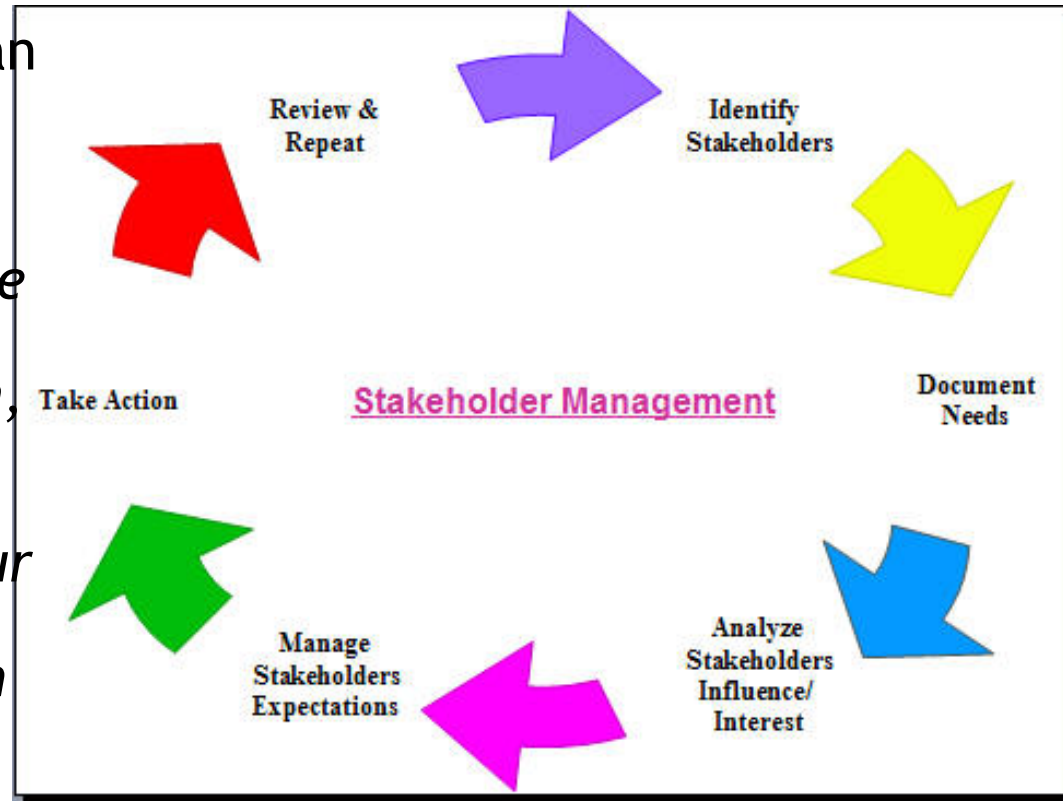
Stakeholder Interests

For example they might have an interest in

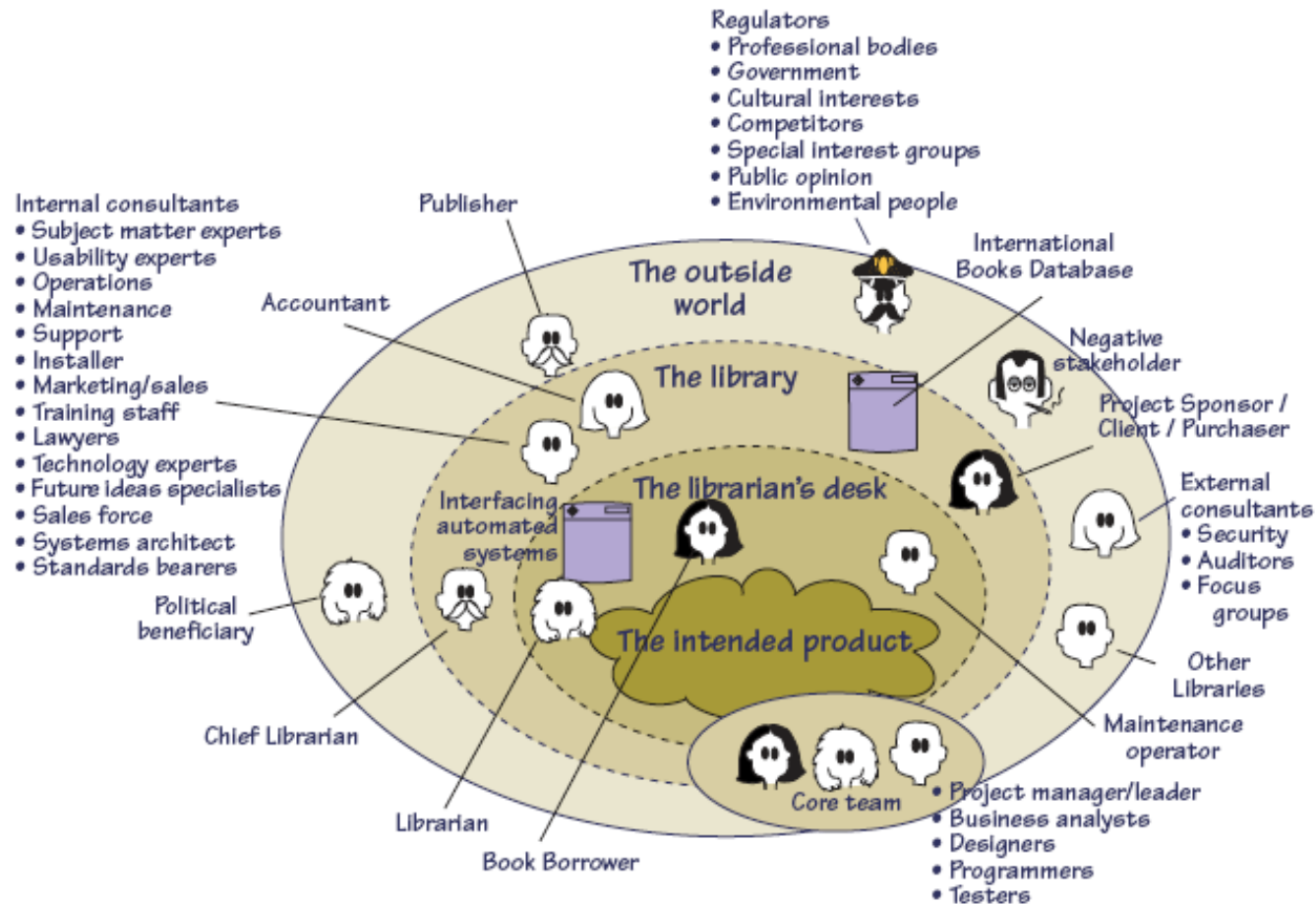
1. *Setting the objectives for a process.*
2. *Evaluating the quality of the product*
3. *Using the product or system, even indirectly*
4. *Avoiding problems for themselves as a result of our product or system.*

.Being compatible with another machine or software component.

.Determining constraints on development, operation or retirement of the system.



Stakeholder Map



Suzanne Robertson
& James Robertson

Figure 1: A Stakeholder Map for the Library Loans project

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http://www.requirementsnetwork.com/sites/requirementsnetwork.com/files/Volere_Requirements-A_Socio_Technical_Discipline.pdf

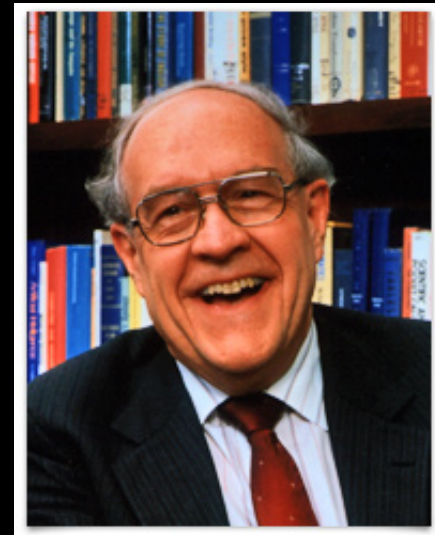
Fred Brooks, Jr. on Stakeholder specs

“The larger and more amorphous the user set, the more necessary it is to *define it explicitly* if one is to achieve conceptual integrity. Each member of the design team will surely have an implicit mental image of the users, and each designer’s image will be different. Since an architect’s image of the user consciously or subconsciously affects every architectural decision, it is *essential* for a design team to arrive at a single shared image.

And that requires writing down the attributes of the expected user set, including:

- Who they are
- What they need
- What they think they need
- What they want “

The Mythical Man-Month,
Anniversary Edition 1995, pp 258-9



‘Requirement’: Defined

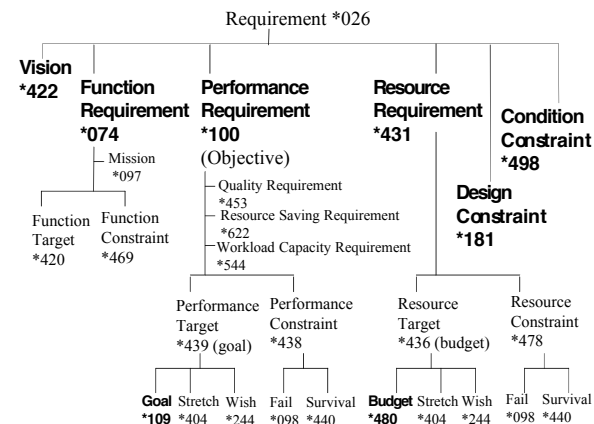


– “stakeholder-prioritized future state”.

• Some consequences of this definition:

- requirements are *not* ‘absolute’
- a requirement’s effective priority’ is variable, and depends on *many* factors, like
 - Value of doing it, cost of doing it, related constraints,
 - stakeholder power, formal requirement inclusion.
- Language helps you intelligently manage requirement priorities, so that you get maximum value for your limited resources (= ‘competitiveness’).

Some
Formally
Defined
Requirement
Concepts and
types



Priority Determination Process

Establish and specify Stakeholder values and authority/power structure

Determine project stakeholders
Internal and External

Determine stakeholder values (requirements) and specify them in detail and to a high standard of testability and intelligibility

Document the relationships for the values (requirements) to levels of authority (law, architect, product planned, contract)

Determine resource assumptions (which resources will be available and when?)

Determine relative priority (immediate claim on resources)

Select a viewpoint level to judge priority from (project, product line, engineer)

Consider all relevant defined constraints and dependencies at this decision-point moment.
(what must you do, what can't you do)

Select prioritization policy.
(what do we want to do next? Value, Value / cost, Politics?)

Select the next priority investment based on framework and values.

Do an Evolutionary result to stakeholder delivery step and update information about everything.

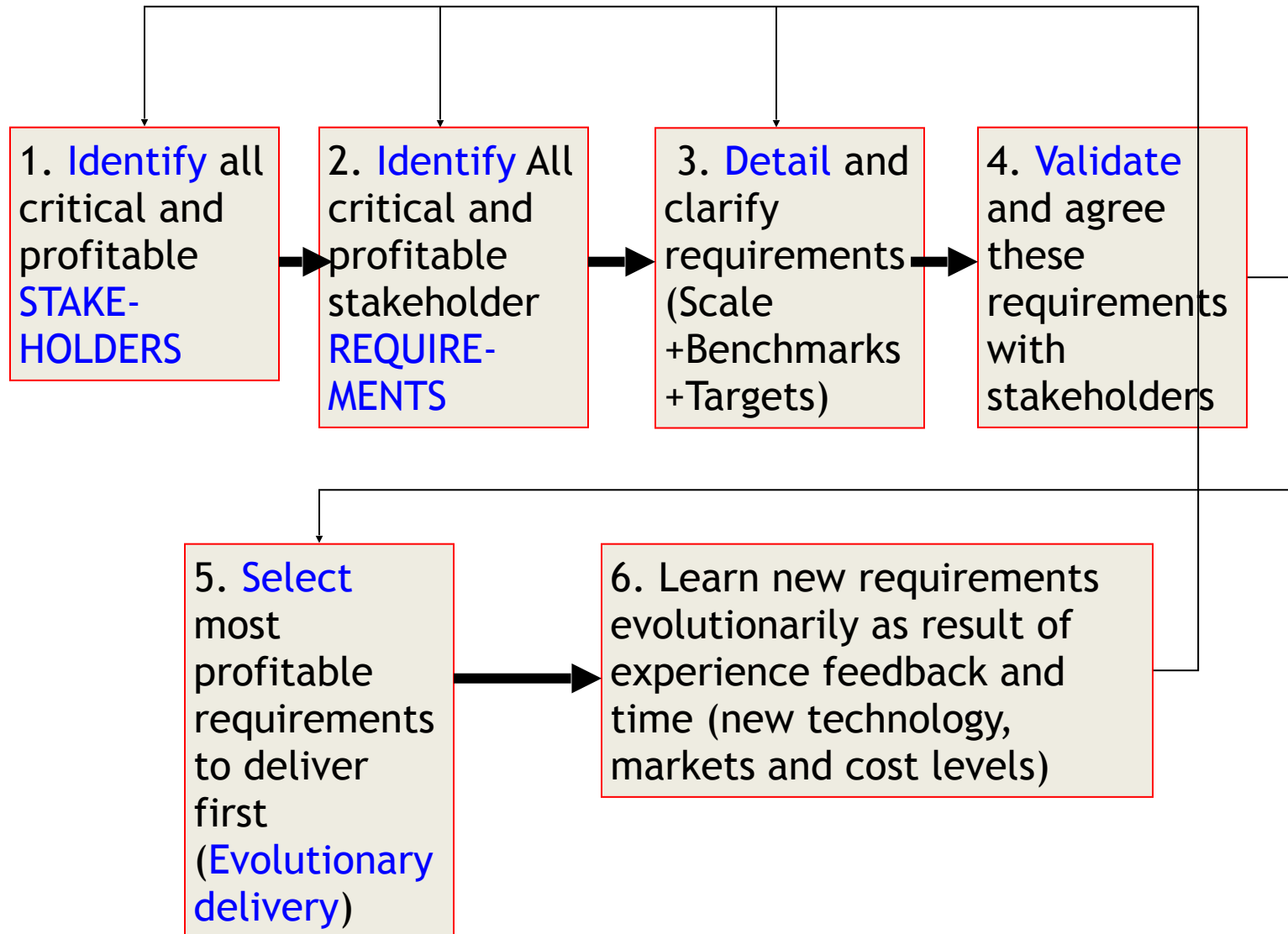
Carry out an Evo delivery cycle. Measure values delivered, costs incurred.

Update all long term cumulative values delivered and costs incurred. levels

Note any changed or new resources, values, technologies, stakeholders

Stakeholders:

How to find out about, and confirm, their requirements



1. Exercise in specifying a requirement 10 minutes each point (1.1 etc.)

As a team: (5 MINUTES?)

1.1 Name 4 critical Requirements for each Stakeholder. Draw Quality Arrows

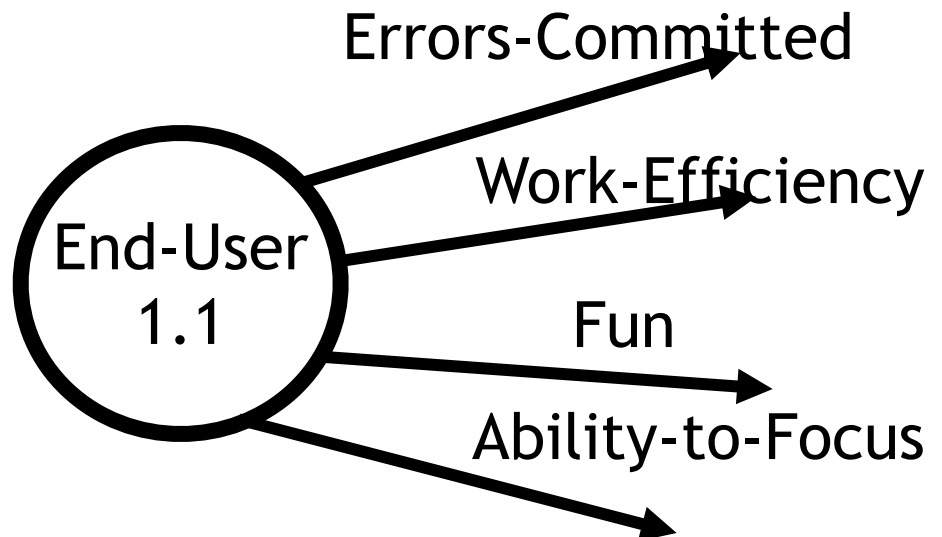
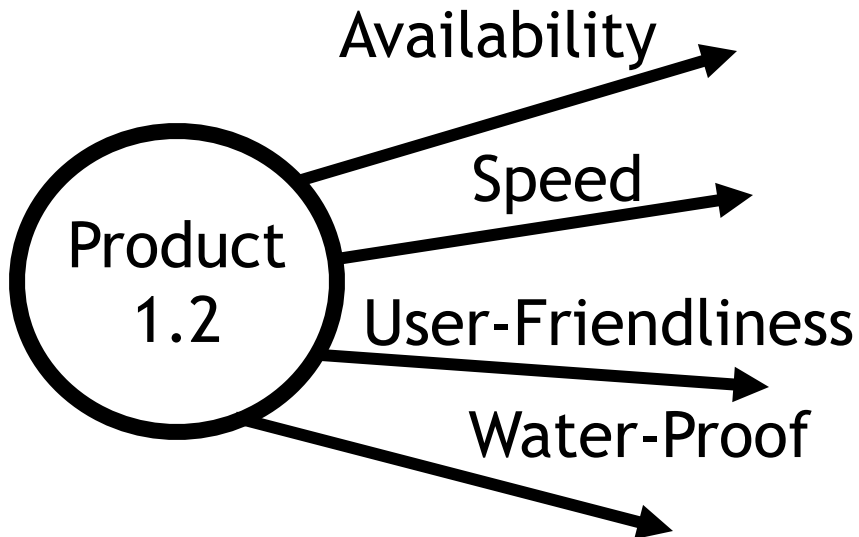
1.2 Name 4 critical Quality attributes for the Product. Draw Quality Arrows

Each team member: (5 MINUTES?)

1.3 Either: Detail at least one important Requirement for each Stakeholder

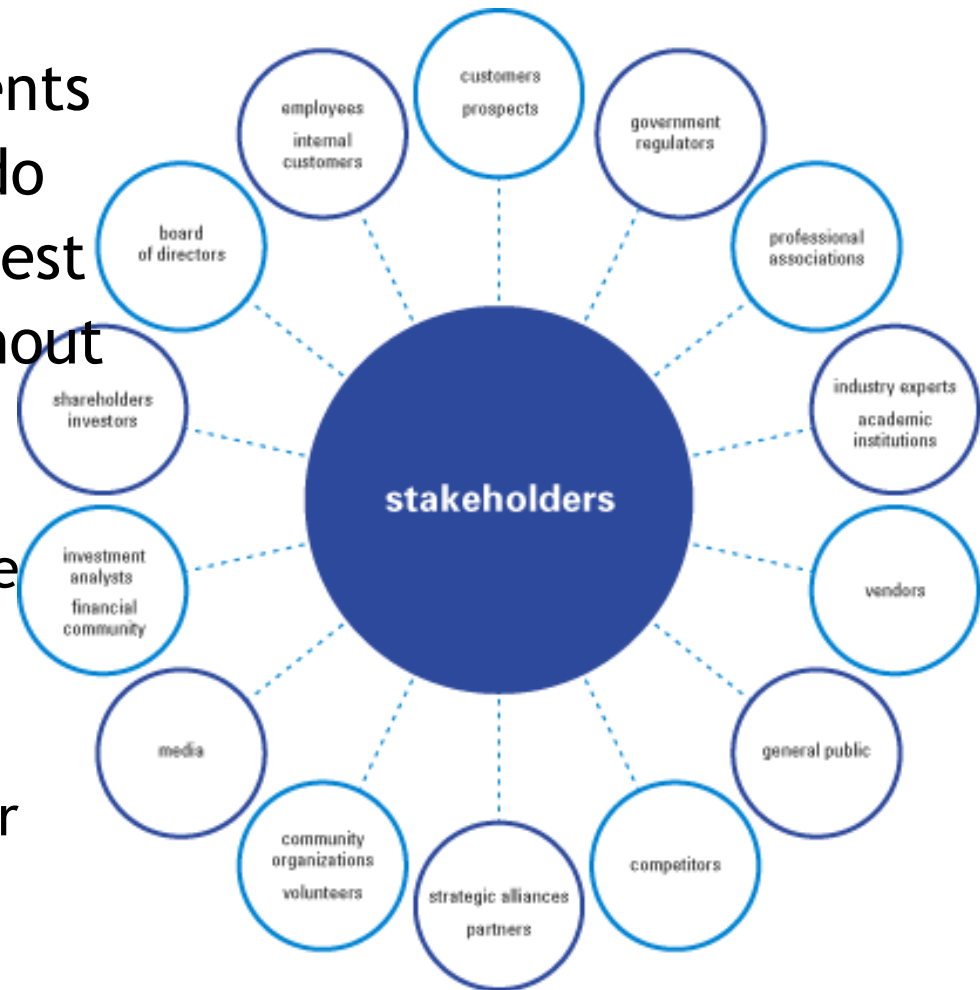
Or: 1.4 Detail at least one important Requirement for the Product

1.5 Each team member explains their effort to the others. (5 min.)



No Stakeholder?

- No Stakeholder: no requirements
- No requirements: nothing to do
- No requirements: nothing to test
- If you find a requirement without a Stakeholder:
 - Either the requirement isn't a requirement
 - Or, you haven't determined the Stakeholder yet
- If you don't know the Stakeholder:
 - Who's going to pay you for your work?
 - How do you know that you are doing the right thing?
 - When are you ready?





posten



bring

BEKK



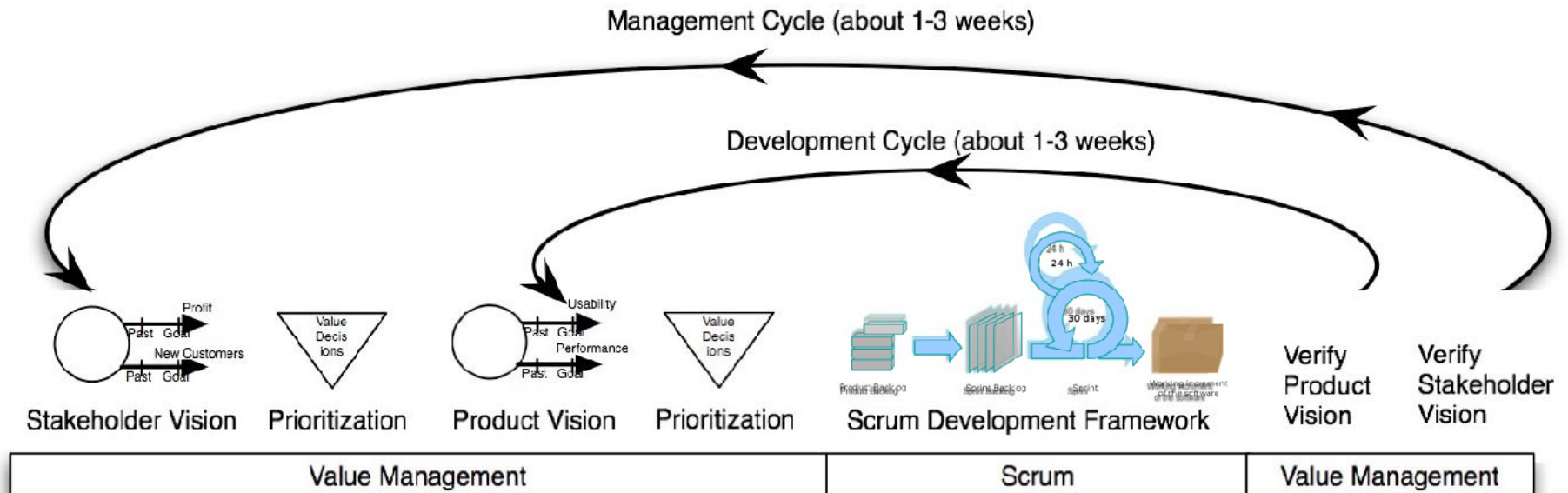
NETLIFE RESEARCH
design + usability

Value Management (Evo) with Scrum development



- developing a large web portal
www.bring.no/dk/se/nl/co.uk/com/ee
at Posten Norge

Value Management



Value Decision Tables

	Stakeholder Value 1	Stakeholder Value 2
Business Value 1	-10%	40%
Business Value 2	50%	10%
Resources	20%	10%

		20%	10%
Resources		Product Value 1	Find.Fast
Stakeholder Value 1		-10%	50 %
Stakeholder Value 2		10 %	10%

Resou	Solution 1	Service Guide
Find.Fast	-10%	40%
Product Value 2	50%	80 %
Resources	1 %	2 %

Prioritized List
1. Service Guide
2. Solution 9

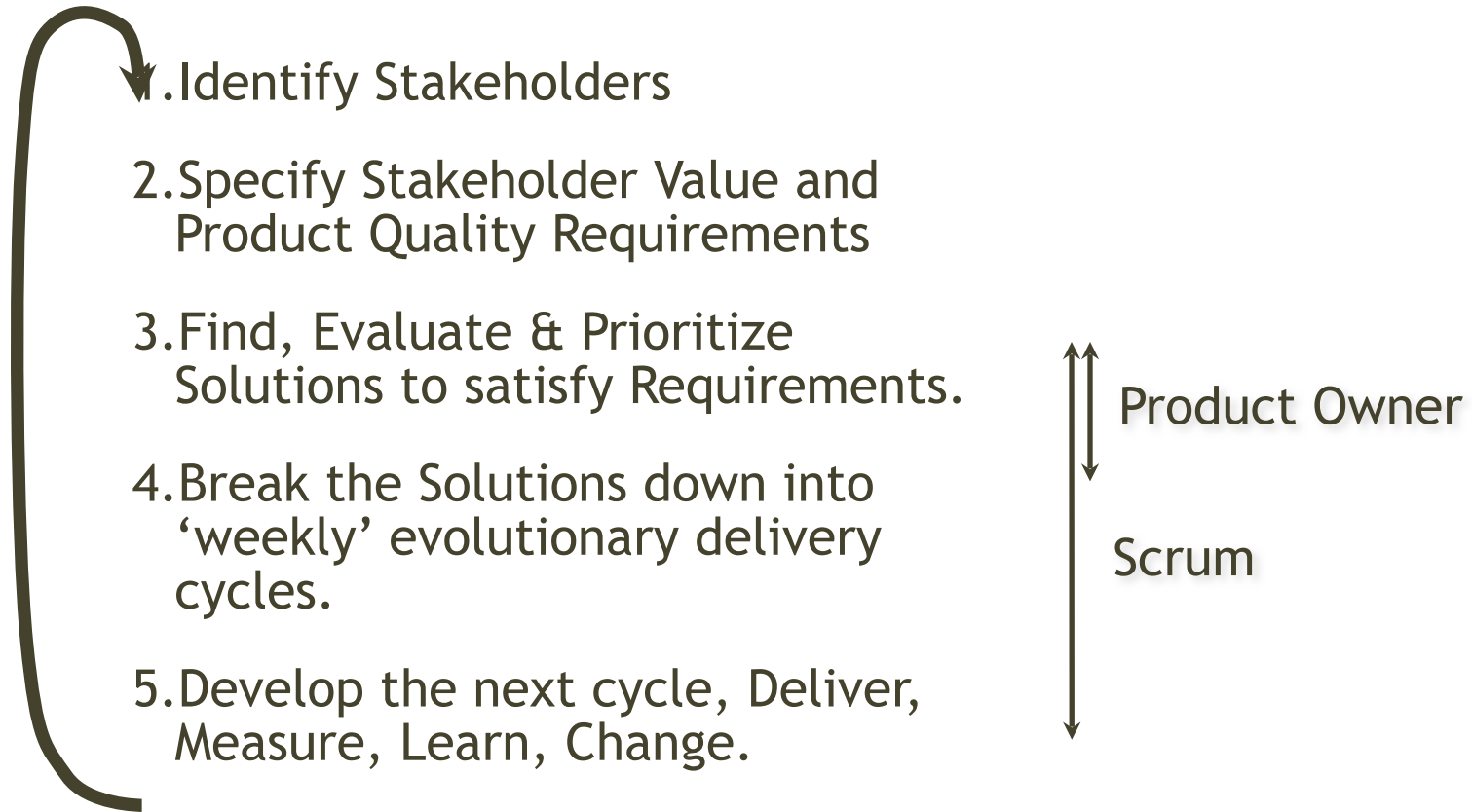
Scrum Develop
We measure improvements
Learn and Repeat

Wargame

Value Decision Table

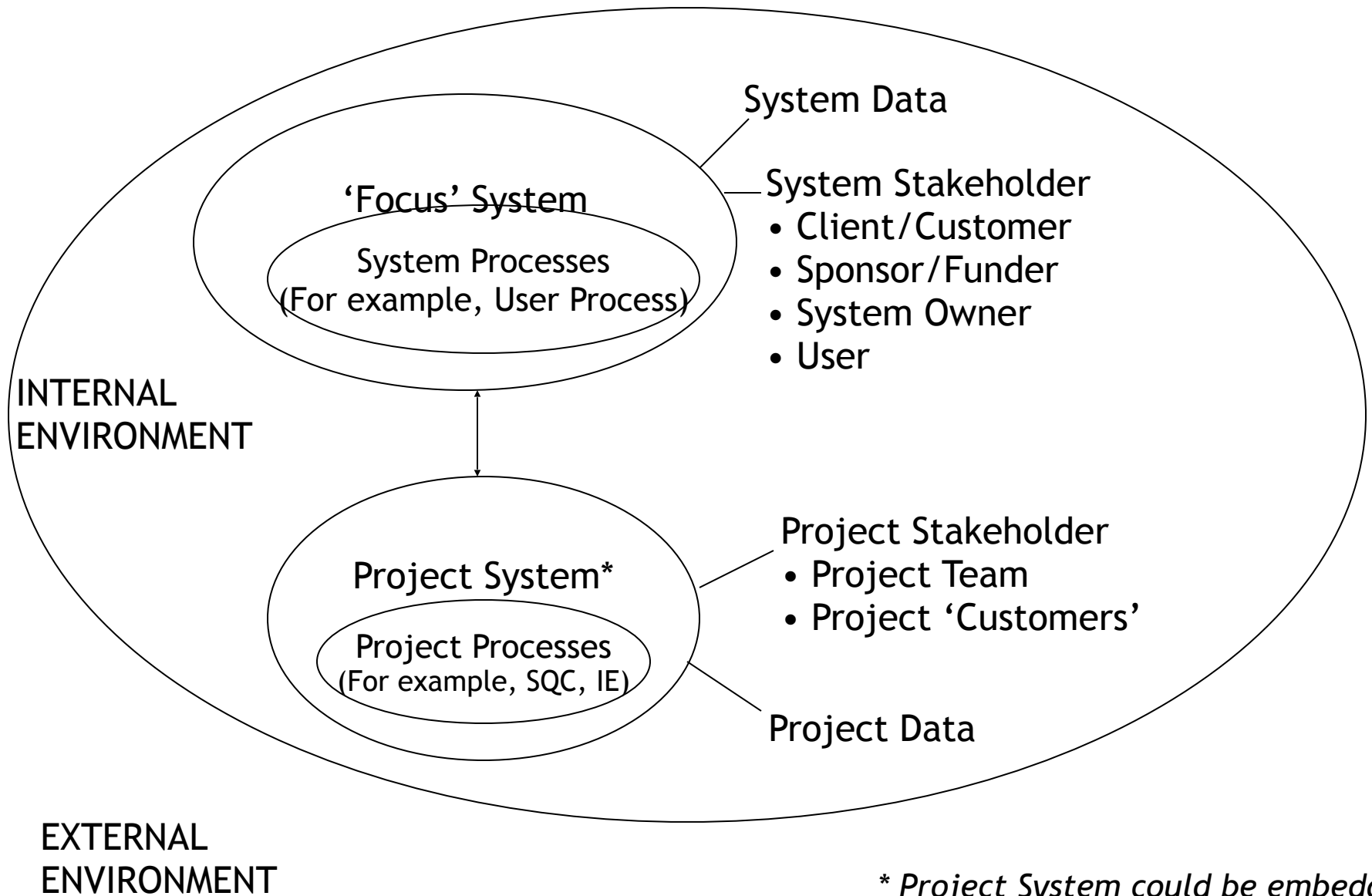
Core-Pro-Funct Posten Portal			Next-Level					K tr u
Value Result Requirements				Behovsorientert inndeling		Produktveileder		
Status when	Tolerable when	Goal when		units	% of Goal	units	% of Goal	
Finn.Raskt								
70	30	13						
14.12.2008	31.03.2009	31.03.2009						

Value Management Process (Evo)



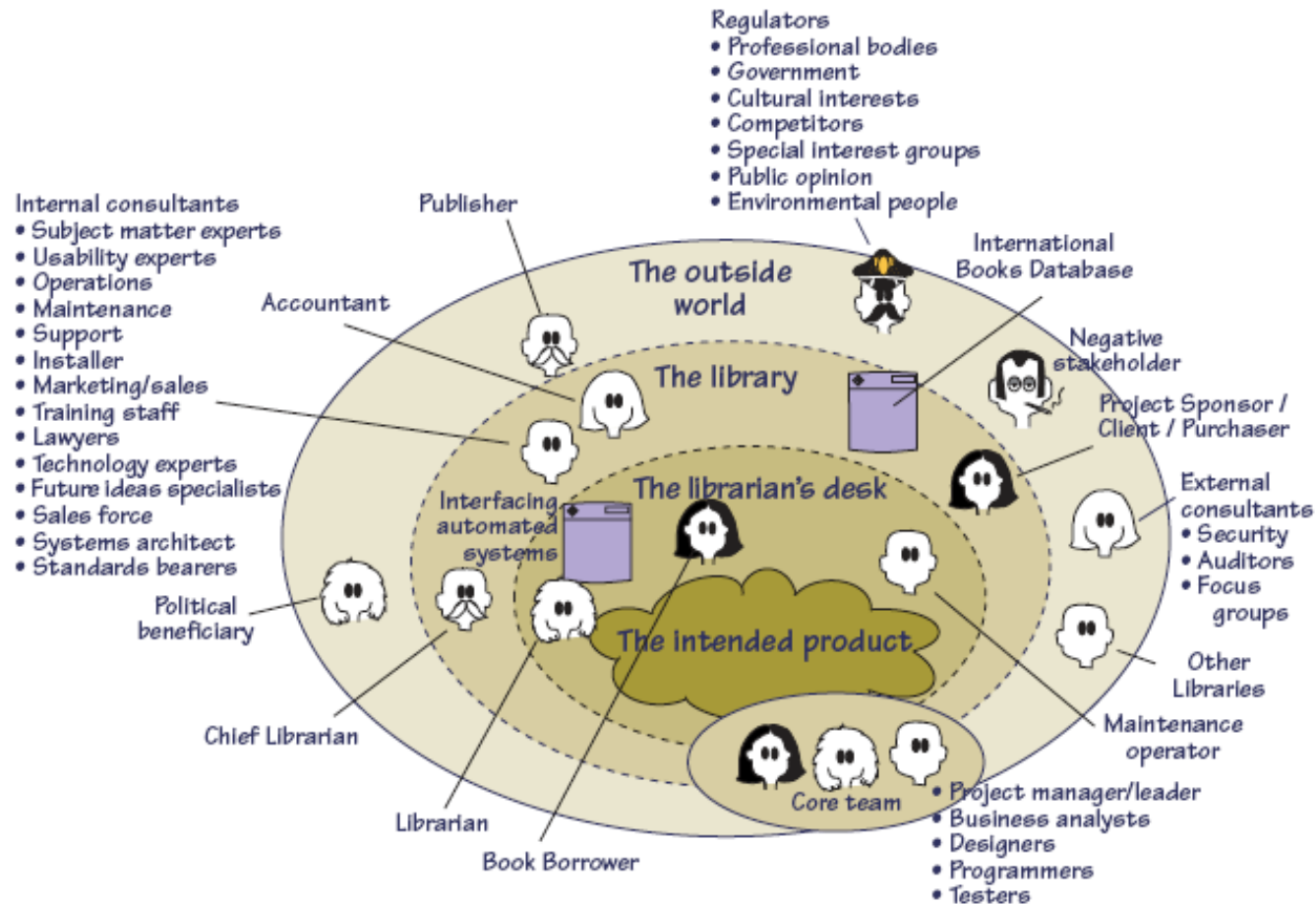
Stakeholders: Quality

- In order to understand QUALITY
- You have to understand
STAKEHOLDERS
 - And the qualities they prioritize



** Project System could be embedded in the 'Focus' System.*

Stakeholder Map



Suzanne Robertson
& James Robertson

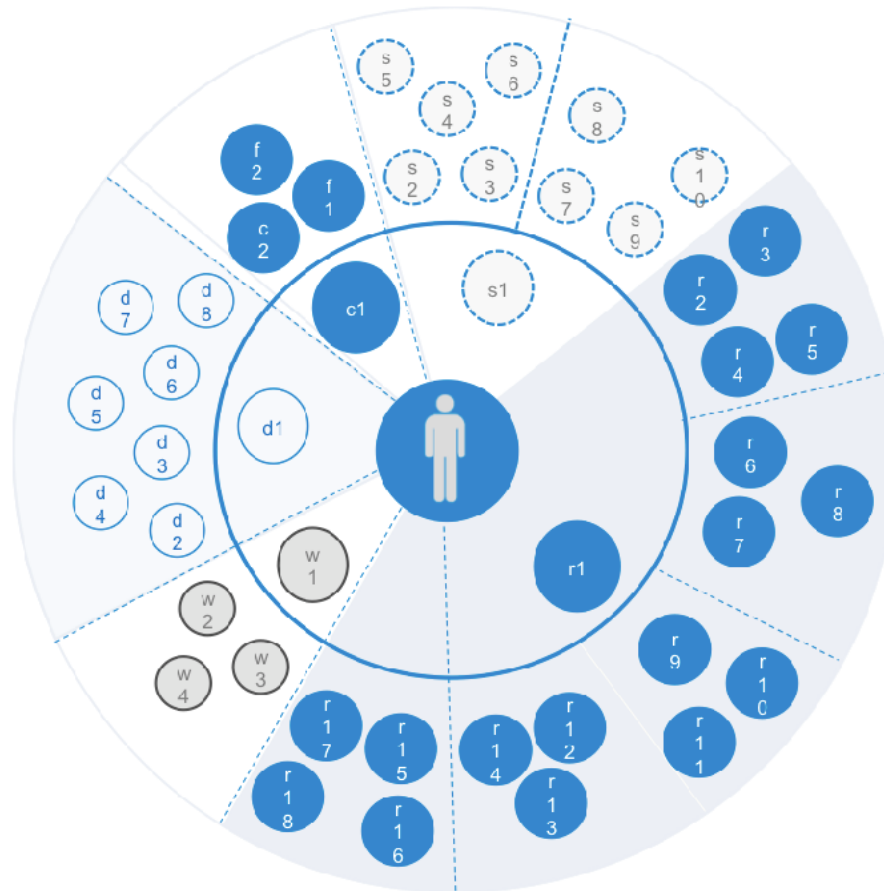
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http://www.requirementsnetwork.com/sites/requirementsnetwork.com/files/Volere_Requirements-A_Socio_Technical_Discipline.pdf

Man-Chie Tse & Ravinder Singh Kahlon

STAKEHOLDERS



Robertson's Volere Stakeholder Matrix 2003

Stakeholder Role (The job title, department or organisation that indicates a stakeholding)	Stakeholder Name (The name(s) of the responsible stakeholder(s))	Necessary Involvement (Estimate of when and how much time)	Classes of Knowledge						
			Goals	Business Constraints	Technical Constraints	Functionality	Look and Feel	Usability	Performance
Client									
Customer(s)									
Business/Subject Experts									
Future Ideas Specialists									
Current System Specialists									
Clerical User									
Technical User									
Potential User									
Sales Specialist									
Marketing Specialist									
Aesthetics Specialist									
Graphics Specialist									
Usability Specialist									
Safety Specialist									
Security Specialist									
Cultural Specialists									
Legal Specialists									
Environmental Specialists									
Maintenance Specialists									
Packaging Designer									
Manufacturer									
Product Installer									

Stakeholders, Goals, Scope

Copyright The Atlantic Systems Guild 2003

4

<http://www.volere.co.uk/pdf%20files/StkGoalsScope.pdf>

‘Requirement’: Defined

Concept *026

Version January 23rd 2008

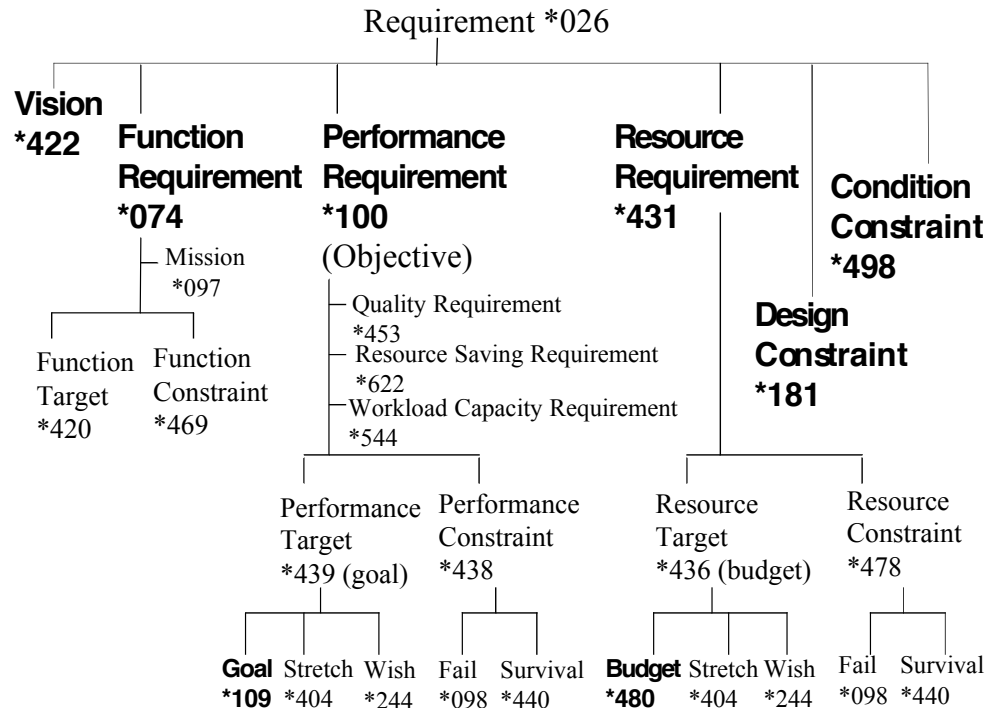
A ‘requirement’ is a
– “stakeholder-prioritized future state”.



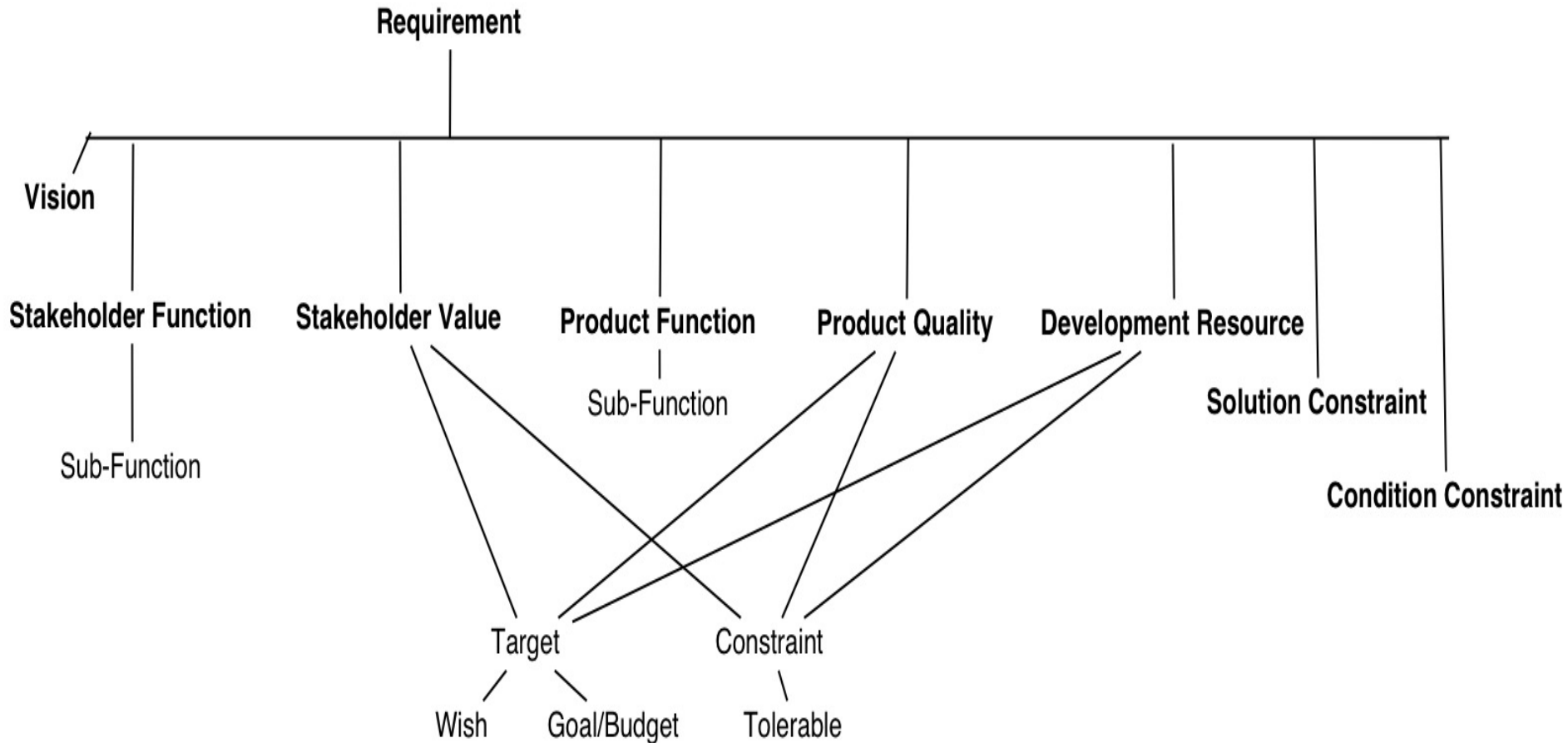
Some consequences of this definition:

- requirements are *not* ‘absolute’
- a requirement’s effective priority’ is variable, and depends on *many* factors, like
 - Value of doing it, cost of doing it, related constraints,
 - stakeholder power, formal requirement inclusion.
- Planguage helps you intelligently manage requirement priorities, so that you get maximum value for your limited resources (= ‘competitiveness’).

Some
Formally
Defined
Requirement
Concepts and
types



Stakeholder and Product Requirements Distinction



Specify Functions separately

(to increase focus on quality)

Product Qualities, Stakeholder Values, Solutions (Designs), Work Processes etc.

Need to be specified separately from

Function and Sub-Function specifications.

Because:

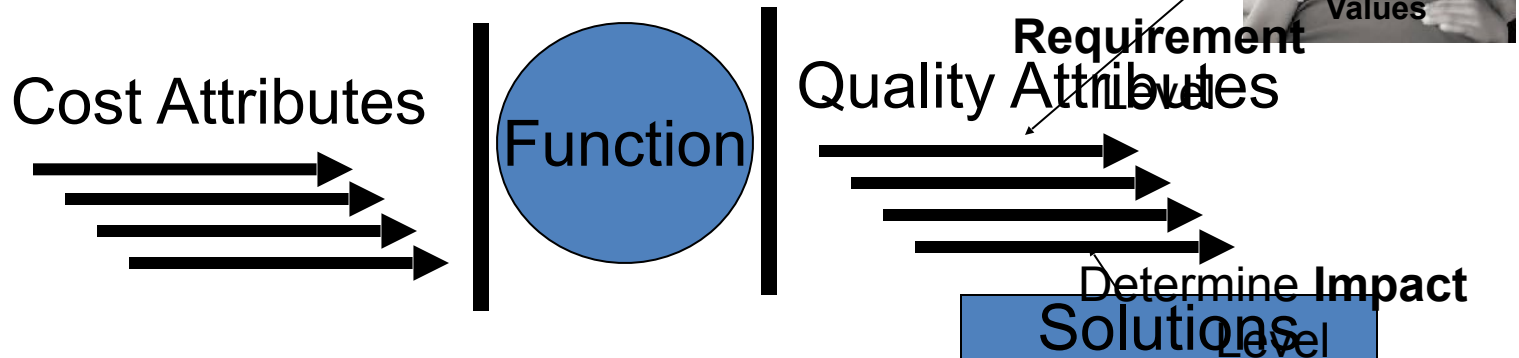
it helps us *focus* on designing the competitive quality and cost aspects of our product.

We can *more clearly see* the distinction between
function

(what we do in our business, fixed need) and

‘design’ (solutions)

(what we do to impact quality levels, variable choice,
change anytime)



Stakeholder: Concept *233 .

‘Stakeholders’ are:

Any person, group or thing
that can determine our systems degree of
success or failure,
by having an opinion about
system performance characteristics and
system lifecycle constraints

Stakeholder Interests

For example they might have an interest in

- 1. Setting the objectives for a process.*
- 2. Evaluating the quality of the product*
- 3. Using the product or system, even indirectly*
- 4. Avoiding problems for themselves as a result of our product or system.*
 - .Being compatible with another machine or software component.*
 - .Determining constraints on development, operation or retirement of the system.*

Stakeholders

- ❑ Why you have to identify them formally
- ❑ How to find out and confirm their requirements
- ❑ Example of classes of stakeholders
- ❑ How to specify stakeholders together with their requirements.



Stakeholder Rules

1. When should you decompose a generic stakeholder to more-specific stakeholders?
 1. When the decomposition yields unique requirements
 2. If in doubt, try it out
2. Any system interface is a potential stakeholder
 1. They will have requirements for the interface
3. Corporate specialist groups, like 'Security' are usually a stakeholder
 1. Assuming they can impact any requirements

Fred Brooks, Jr. on Stakeholder specs

“The larger and more amorphous the user set, the more necessary it is to *define it explicitly* if one is to achieve conceptual integrity.

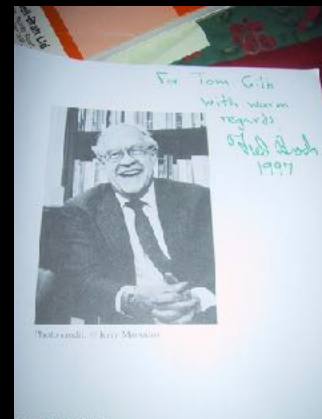
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Since an architect’s image of the user consciously or subconsciously affects every architectural decision, it is *essential* for a design team to arrive at a single shared image.

And that requires writing down the attributes of the expected user set, including:

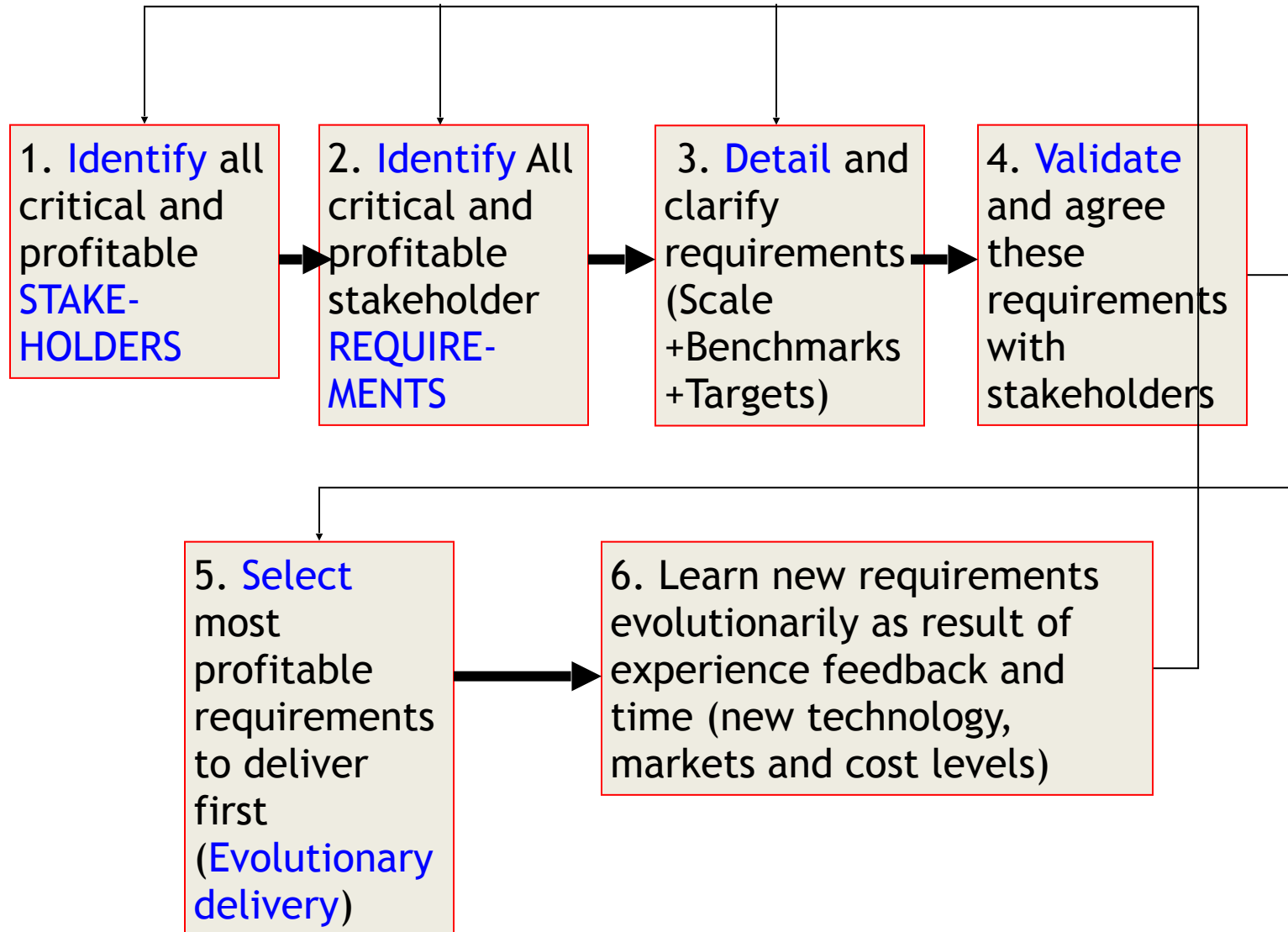
- Who they are
- What they need
- What they think they need
- What they want “

The Mythical Man-Month,
Anniversary Edition 1995, pp 258-9



Stakeholders:

How to find out about, and confirm, their requirements



Stakeholders: **Example of classes** of stakeholders;
Example from real customer requirements definition about 1997, USAintelli

- ☐ Government FCC
- ☐ Telecompany Corporate
- ☐ DEVELOPER
- ☐ MANUFACTURER
 - ☐ See detail next slide of probable values/requirements
- ☐ OPERATOR (like AT&T)
- ☐ DISTRIBUTION

- ☐ **LEASING/PURCHASE**
- ☐ **PHONE USER:**
- ☐ **System Owner (in office)**
- ☐ **MAINTENANCE:**
Employees of system owner
- ☐ **Responsible Site Administrators**
- ☐ **Responsible Installers**
- ☐ **Repair Centers**

Go to Stakeholder
Exercise

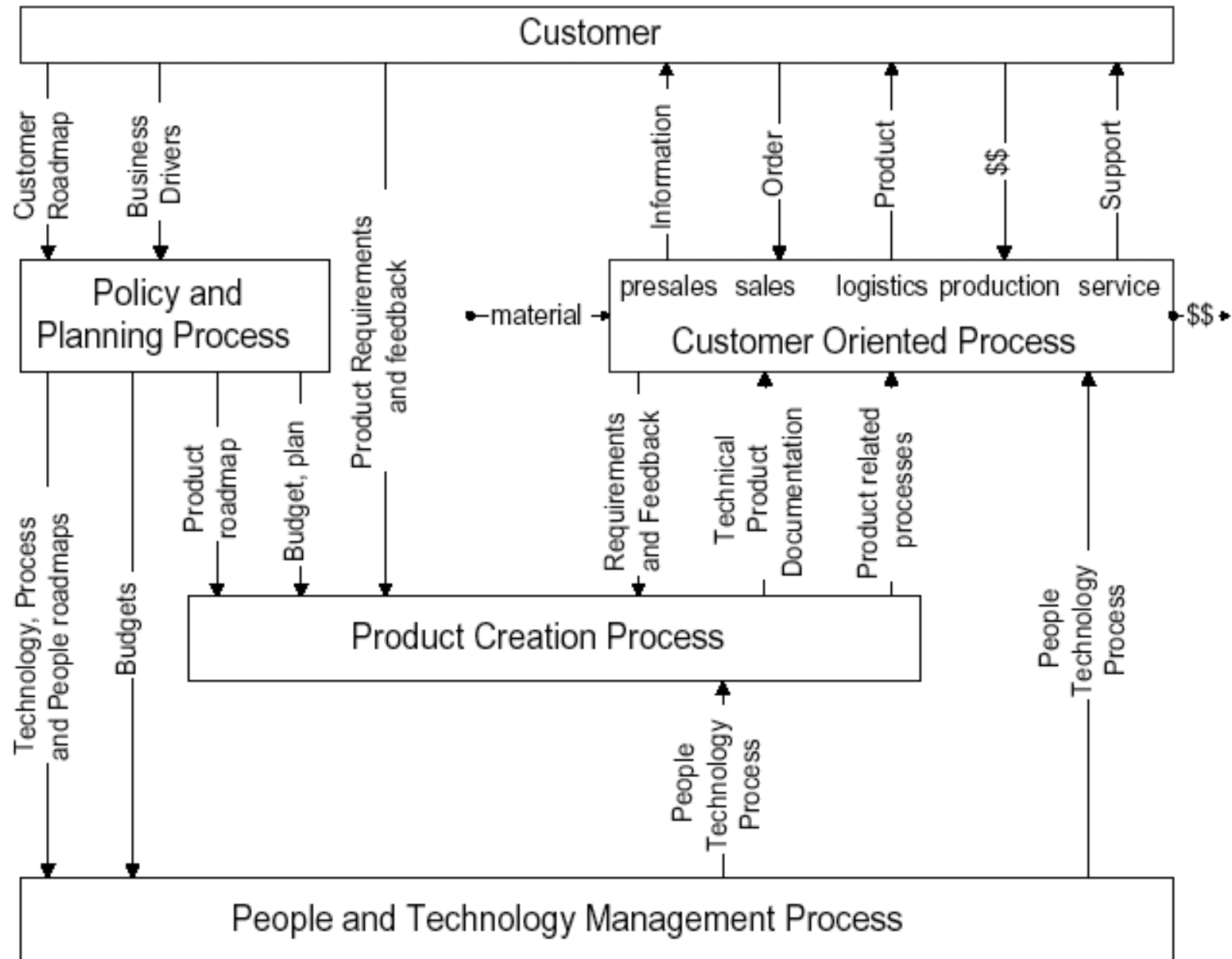
Stakeholders:

How to specify stakeholders together with their requirements.

- [?] The Planguage parameter term ‘Stakeholder’ can be used to specify one or more stakeholders explicitly.
 - [?] Internal Interests: Stakeholder = {End User, Help Desk, Installer}
- [?] We can attach stakeholder information to any elementary specification,
 - [?] Usability: Scale: Time to learn a task for a defined [Stakeholder]
 - [?] Goal [Stakeholder = Novice User] 10 minutes.
 - [?] Novice User: Defined As: anyone without any training in this system or task.
- [?] or to a set of specifications,
 - [?] Scale [Installers] time for successful installation
 - [?] Fail 20 minutes, Goal 10 minutes, Wish 5 minutes.
- [?] as appropriate.

Go to Stakeholder
Requirements
Exercise

Stakeholders (Philips, Gerrit Muller, 2001)



Stakeholder Artifacts: Zachman zifa.com

Viewpoint

A detailed real example of Quality Specification (Oct 2004, Europe)

Design Effort [Roadbed.Drainage System, Product XX]: 'Approved by Team' 13:59 Tuesday (Day 1)

Ambition Level: 10X "at least 10 times less engineering effort than now"

Administration:

Approved: by Team' 13:59 Tuesday (Day 1) ok to progress to strategy phase.

Type: Product Quality [Product XX].

Version: 12 Oct 2004 10:12, 11:38

Owner: Idar

Stakeholders: Senior Road Designers, Road Designers, Drainage System Designers, Contractors.

Scale: Hours of Engineering Effort per 10 km road to Complete Roadbed Description for a defined Ideal Engineering Level: default 100%.

Assumption: the level of qualities is the same for comparative measurements. E.g. we do not save time, only to turn around and use it to increase quality. We still saved time for the old quality level. <-TG

--- Benchmarks----- Analysis-----

Past [VXX Our Infrastructure Design, Finland] ??? <-IK

Bad: Past [IEL = 20%? "<wrong mass calculations & drawings, absence of stakeout data>", 2004, Project = <general guess IK>] <30> ±10 hours/10km <- SWAG IK

Good: Past [IEL = 90%? "<better mass calculations & drawings, some stakeout data>", 2004, Project = <general guess IK>, Excel & our product, Swedish Users] <80> ±20 hours/10km <- SWAG IK

Trend [Our Product XX] <customers are more demanding, 20% is no longer a good enough level>. <- Heidi

Record [InXXX, 2004] <better than us in design, high Engineering Level, more consistent but not redesign> <-IK
"our system is clearly worse here than the competitor – so we must improve"

--- Constraints----- Requirement-----

Tolerate [End 2005, Road Designers,] Past – 25% of hours

Rationale: least powerful sales argument for selling new version.

Survival [Anytime,] <today's level or better>

Rationale: we could lose customers to competitors.

--- Targets ----- Requirement -----

G1. Goal [IEL = 90%?, 2005 Q4, Norwegian & English] <8> ±2 hours/10 km <- Heidi, Berit, Inge

G2. Goal [IEL = 90%?, 2006 Q1, Swedish] <8> ±2 hours/10 km <- Heidi, Berit, Inge

--- Evolutionary Goals-----

Short Term 1: Goal [End November 2004, Stakeholder = {SVV, Road Designers}] Past -20%?

Short Term 2: Goal [End 2004] Past -40%?

Goal [End January 2005] Past -50%?

Goal [End Feb 2005] Past -60%?

Goal [End Mar 2005] Past -70%?

Goal [End Dec 2005] Past – 90% =Long Term

Note: we lack clarity in Stakeholder to be served at each step. This decides some things to be included such as which reports and export formats are necessary. <-TG 13 oct 04 10:53

----- Long Term Goals

Long Term: Goal [End 2005] > Past/10

Stretch[End 2006?] Past/20

Wish <wish from stakeholder> >Past/100 ??

--- Background -----

Impacts Stakeholder Values: Model

GLOSSARY-----

Hours of Engineering Effort: net, actually applied to the task hours.

Complete: {all considerations taken, engineering quality controlled, contractor approved, to a defined % level of IEL}

Roadbed Description: defined as:
{cross-section drawings, mass calculation, Geometrical Description: {existing terrain, related water and sewer, other roads, tunnel}, geometrical control}.

<Ideal> Engineering Level: IEL: defined as: doing all tasks to an ideal level of completion. This is often compromised intentionally to save engineering effort and time. <table to define % must be developed, or at least classify things>

Meter: <how to measure this in practice>

Design: defined as: design and redesign

Performance & Budget Targets

Definitions ----@----->

Target: Concept *048. November 8, 2001

A target is a stakeholder-valued positive requirement you are aiming at; hoping to deliver, at, near, or better.

A target is not a constraint, with its intent to restrict and avoid.

Target concepts include {Goal, Stretch, Wish, Ideal}.

A target requirement is like the scoring surfaces of a circular archery or darts target. The outer edge of this target is a constraint, not a target.

Performance & Budget Targets

Additional, useful, description parameters; Definitions

Wish: Concept *244 6 August 2002

A Wish parameter specifies a stakeholder need, without considering its cost or practicality.

A Wish goal, or wish budget, is a non-committed stakeholder-need scalar attribute level. It is requirement background, but it is not yet a Planned Goal.

Rationale:

Wish allows us to note stakeholder desires and needs in a requirement area, without actually committing to delivery. If we did not have a wish parameter to articulate these needs, then the information might never be collected, and maintained and we would lose the competitive advantage of knowing what our stakeholders desire - even when the resources or technology ultimately permit us to commit to delivery of the wish level or something nearer to it than was planned in the goal statements.

‘Wish’ allows us to express our values, without getting committed prematurely.

We can allow a stakeholder to tell us their dreams. But we don’t have to promise to deliver them until we know the price tag.

A Wish goal has no budget, so is not recognized as technically or economically feasible yet. It is stated so designers have an idea of what someone is dreaming of.

[Qualifier, Stakeholder]

Specify the Stakeholder to which this parameter applies. There are two categories of Stakeholder normally used, Internal and Stakeholder

Internal:

GOAL [Internal] 5 min

When a level is an internal level, write 'Internal' in the [qualifier]. This will allow you to express GOAL levels that are different than what is contracted, or those your Stakeholders require.

Stakeholder:

GOAL [End-User] 6 min

If the requirement applies to a specific Stakeholder, write down that Stakeholder in the [Qualifier]

Constraint Viewpoints

Constraint Specification Structure				System Lifecycle			Stakeholder Authority			Other
Scalar		Binary Veto / Demand		Engineering Process	Operational System	Other	Country Legislation	Chairman / CEO	Other	
Performance Constraint	Budget Constraint	Function Constraint	Condition Constraint							

Use Language X for all programming

Meet CO Emission Levels

Obey UK Environmental Emission Laws

Note: Denotes a Planguage Type. 'Constraint' and qualifiers can be used to specify the other classifications.

Related Design concepts

A design *specification* (*586) is a deliberately selected and documented means to reach defined 'ends'. It is a written proposal (*587) and articulation of a design idea.

A proposed design idea must be consistent with a related *set* of requirements; with all those requirements *at once*. 'Consistent' means it must help at least one single requirement towards specified states, without violating any constraint (function, condition constraint, scalar constraint).

A design is different from a requirement in that its proposal, or specification, can, in principle, be changed at any time for a better design, which better meets the requirements, without asking the opinion of the stakeholder (who set the requirement it is serving). Design is not holy and fixed. Requirements are inputs to the design process, design ideas are the output.

Alternative designs(*588) will have satisfactory, but *different*, performance and cost attributes. The alternative design idea attributes will be so significant that they do not need any *other* alternative design ideas in addition, or cannot afford it. *Supplementary* designs (*589) are needed to move the set of towards the design Goal levels, other target levels or towards meeting other requirements (constraints, functions).

A satisfactory design can have negative performance impacts and still be acceptable overall, as long as those negative side effects do not prevent us from reaching the Goal level of the attribute negatively impacted.

Priority Determination Process

Establish and specify Stakeholder values and authority/power structure

Determine project stakeholders
Internal and External

Determine stakeholder values (requirements) and specify them in detail and to a high standard of testability and intelligibility

Document the relationships for the values (requirements) to levels of authority (law, architect, product planned, contract)

Determine resource assumptions (which resources will be available and when?)

Determine relative priority (immediate claim on resources)

Select a viewpoint level to judge priority from (project, product line, engineer)

Consider all relevant defined constraints and dependencies at this decision-point moment.
(what must you do, what can't you do)

Select prioritization policy.
(what do we want to do next? Value, Value / cost, Politics?)

Select the next priority investment based on framework and values.

Do an Evolutionary result to stakeholder delivery step and update information about everything.

Carry out an Evo delivery cycle. Measure values delivered, costs incurred.

Update all long term cumulative values delivered and costs incurred. levels

Note any changed or new resources, values, technologies, stakeholders

Process: Requirement Specification. <-CE 2

Tag: Process.RS. Version: 6 July-2001. Owner: TG. Status: Draft.

Procedure

P1: Define the system scope and the overall scope of the requirements.
P2: Identify relevant (critical and profitable) stakeholders.
P3: Determine the requirements of each type of stakeholder. Ensure all specification statements are sources referenced.
P4: Categorize requirements by type (The major requirement types are function, performance, cost and constraint).
P5: (*'Stakeholder Value'*) Specify *Functional Requirements* (Process.FR. See Chapter 3).
P6: (*'Stakeholder Value'*) Specify *Quality Requirements* (Process.QR. See Chapter 4) including identifying or creating a *Scale Definition* (Process.SD. See Chapter 5).
Specify other Performance requirements (Capacity and Savings) in a similar manner.
P7: (*'Stakeholder Constraint'*) Specify *Cost Requirements* (Process.CR. See Chapter 6).
P8: (*'Stakeholder Constraint'*) Identify and question any constraints. (Are they real or was something else intended?) Specify the necessary *Constraints* (Process.CT. See Ch. 6).
P9: Specify all known significant relationships of the requirements to any other relevant requirements specifications (external or internal to the system). *You need to identify where there may be overlap or conflict or double accounting over benefits. There may even be synergy or a chance to 'subcontract' parts of the system development.*
Use Planguage terms such as {Source, Depends, Assumption, Authority, Impacts, Risk, Impacted By}.
P10: Get stakeholders to approve written requirements' specifications that specifically affect them.
P11: Carry out quality control on the requirement specifications. At least, analyze them by sampling. Using Specification Quality Control (SQC), they can exit at an appropriate low level of remaining major defects/page (such as a maximum of 1 major defects/page).
Note: this is an appropriate point in this procedure to carry out quality control. However, don't let this prevent you from carrying out quality control at other times. Far better you find out that there is a problem after writing three pages than after thirty pages.
Note: For the majority of the procedures in this book, the exit and entry conditions serve to remind you about the need for quality control: explicit reference to quality control within the main procedure is omitted.
P12: Once the requirements have exited quality control, review them with the aim of obtaining the relevant management approval. (*SQC checks the specification quality, 'review' checks the business relevance.*)

Entry Conditions

E1: Generic Entry Conditions apply. The specification quality control (SQC) entry condition applies to any source information, such as contracts and marketing plans.

E2: Key stakeholders are available for questions and reviews to resolve any uncertainty about sources and exact specification.

Exit Conditions

X1: Generic Exit Conditions apply. The requirement specification must have exited SQC.

X2: There is management *review* approval of the requirement specification.

1. Exercise in specifying Stakeholders

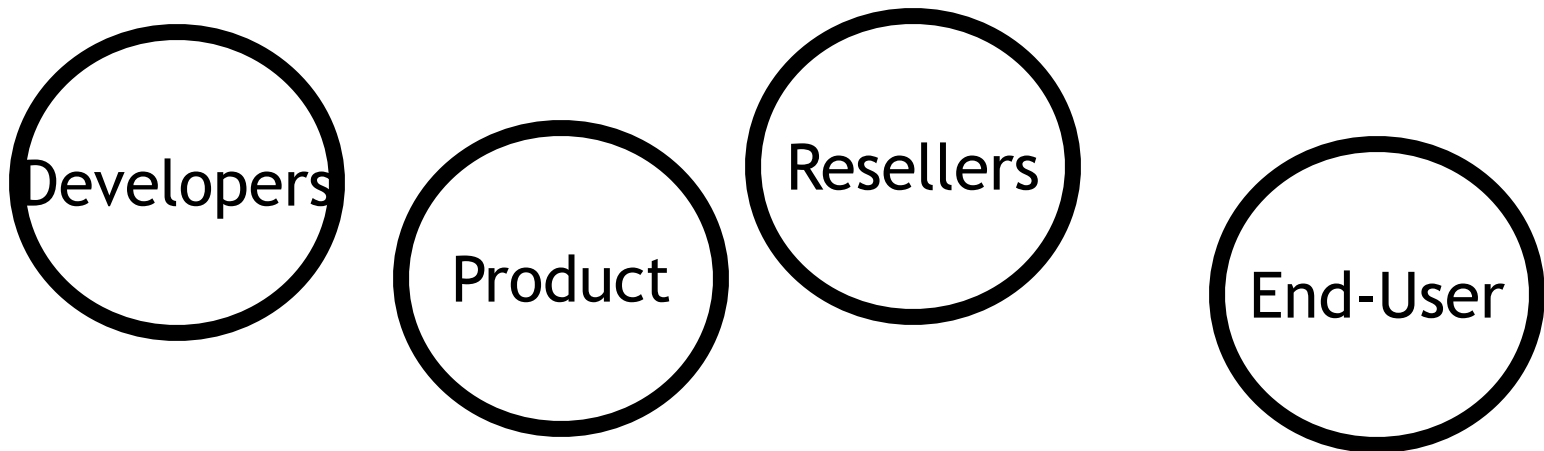
As a Team:

Use 2.5 minutes to discuss the project in general, share ideas.

List all Stakeholders with an interest in your project. (10 internal)
10 External) (5 very external):

20 minutes:

Give each stakeholder a name and draw circles around their names



1. Exercise in specifying a requirement

10 minutes each point (1.1 etc.)

As a team: (5 MINUTES?)

1.1 Name 4 critical Requirements for each Stakeholder. Draw Quality Arrows

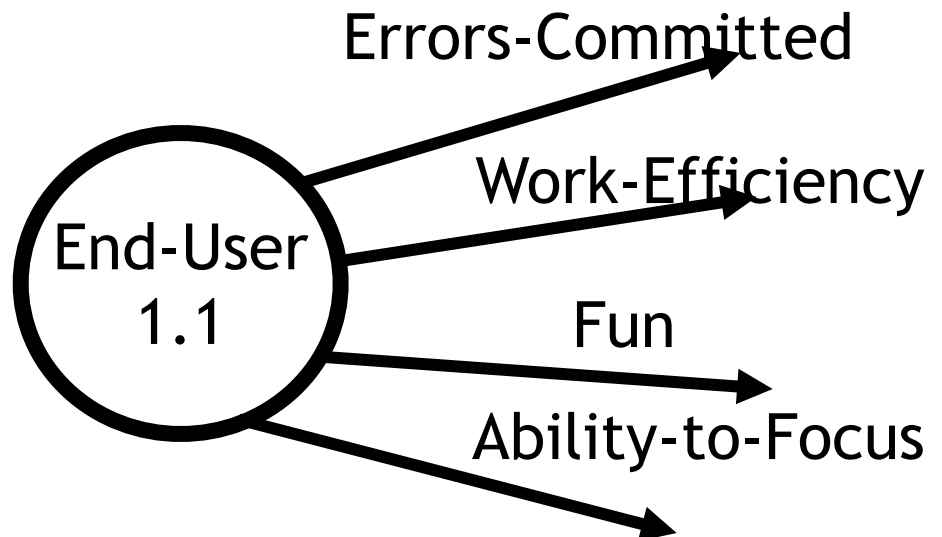
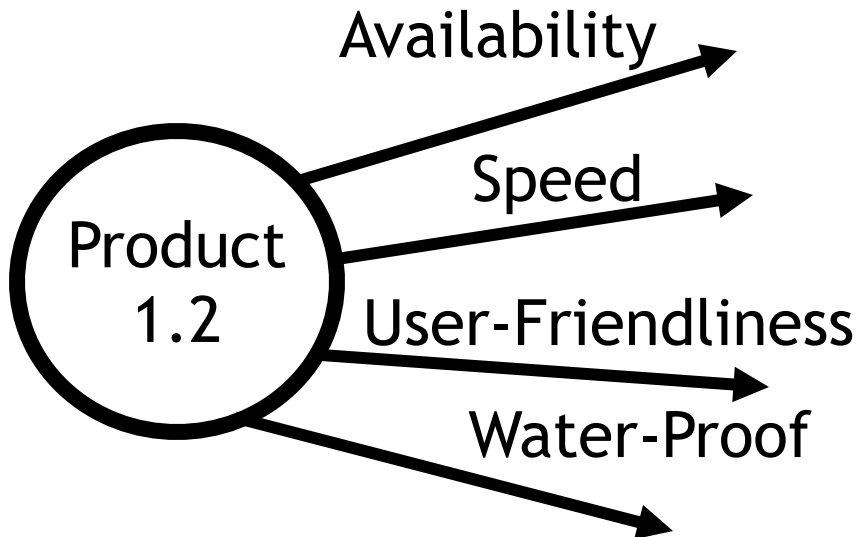
1.2 Name 4 critical Quality attributes for the Product. Draw Quality Arrows

Each team member: (5 MINUTES?)

1.3 Either: Detail at least one important Requirement for each Stakeholder

Or: 1.4 Detail at least one important Requirement for the Product

1.5 Each team member explains their effort to the others. (5 min.)



Quiz 1 Monday: Terms and Concepts

1. What is the distinction between a term and a concept?
2. How is a function different from a design?
3. How is a target different from a constraint?
4. What is the distinction between a scalar constraint and a binary constraint?
5. Distinguish between resource and cost.
6. Distinguish between Performance, Quality, Quantity, Capacity and Savings.
7. What is the difference between a Survival and a Fail constraint?
8. What is the difference between targets Ideal, Wish, Goal, Stretch?

9. Which 'types' of stakeholders should you identify and cater to?
10. What if a stakeholder has a requirement but it is technically or economically impossible for you to deliver?
11. Why is the distinction between internal and external stakeholders useful?
12. Distinguish: Scale, Meter..
13. Distinguish between Parameters: Risk, Impacts, Impacted By, Assumption.
14. Distinguish between Parameters : Authority, Owner, Source (A <- B) .

Stakeholder Impact Estimation: Brodie

Stakeholder Value						Key: s = seconds m = minutes d = days w = week	Designs by expected increment with design dependencies			
Regulator	IT Dept.	Customer	Rule Admin.	Business Unit	Back Office		1 Automate Rules Manual Testing	2 Back Office Loan Decisioning	3 Web Self-Service	4 Automate Rules Automate Testing
Bank System						By End Date: dd/mm/yyyy				
Requirements										
		4			4	Time for customer to submit request 30 min <-> 10 min	-	-	10 m 100%	-
					3	Time for Back Office to enter request 30 min <-> 10 min	-	-	0 m 150%	-
		9		9	18	Time to respond to customer request 5 days <-> 20 seconds	-	1 d 80%	20 s 100%	-
					1	No of Back Office complaints 10 per week <-> 0	5 50%	<1 90%	0 100%	(2) (80%)
		1			5	No of customer complaints 25 per week <-> 5	-	15 50%	5 100%	-
1			5	4	8	Time to update business rules 1 month <-> 1 day	2 w 50%	-	-	1 d 100%
1			3	4	6	Time to distribute business rules 2 weeks <-> 1 day	1 d 100%	-	20 s 103%	-
2	14	8	17	23	64	Cumulative Total for Performance Requirements	200%	170%	280%	50%
						Design Cost (M)	0.2	0.3	1.0	0.5
						Development Budget 2.5M <-> 300K	2.3	2.0	1.0	0.5
						Cumulative Perf. to Devt. Cost Ratio	1000	567	280	100
						Cumulative Stakeholder Value to Development Cost Ratio	23.5/0.2 =117.5	17.8/0.3 =59.3	13.7/1.0 =13.7	9/0.5 =18

Figure 4: An IE table for the bank system. The shaded area represents the extensions to IE

Stakeholders and Owners of Requirements

(edited by tom g mar 7)

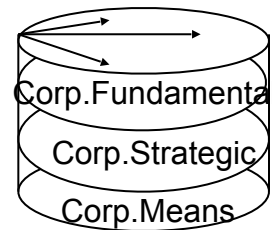
- A **Stakeholder** is an individual or group who has an 'interest' (Direct or indirect) in a requirement.
- An **Owner** of a requirement is
 - the person or group who sets the official requirement specification TG
 - The stakeholder who decides that a requirement must be implemented. STAKEHOLDERS DO NOT DECIDE THAT A REQUIREMENT MUST BE IMPLEMENTED. THEY MAY NOT EVEN BE AWARE THAT IT IS BEING DEALT WITH TG
- A **Designer**
 - Suggests designs for implementing a requirement; usually in the context of identifying designs which satisfy many requirements simultaneously. TG
 - WHO decides how a requirement will be implemented.
 - The Project manager and management review committees make the final decision on the suggested designs. TG

Levels of Objectives / Requirements and Design

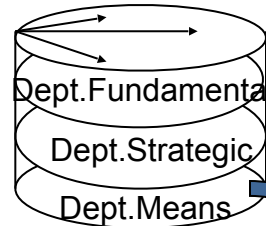
(excellent I have added w credit SP to my rqt slides tg/

Market Trends & Demands

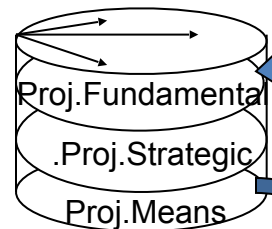
The number of organizational requirements layers can differ per organization



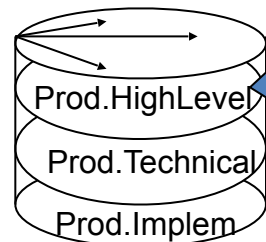
**Corporate Level
Objectives**



**Departmental Level
Objectives**



**Project Level
Requirements**

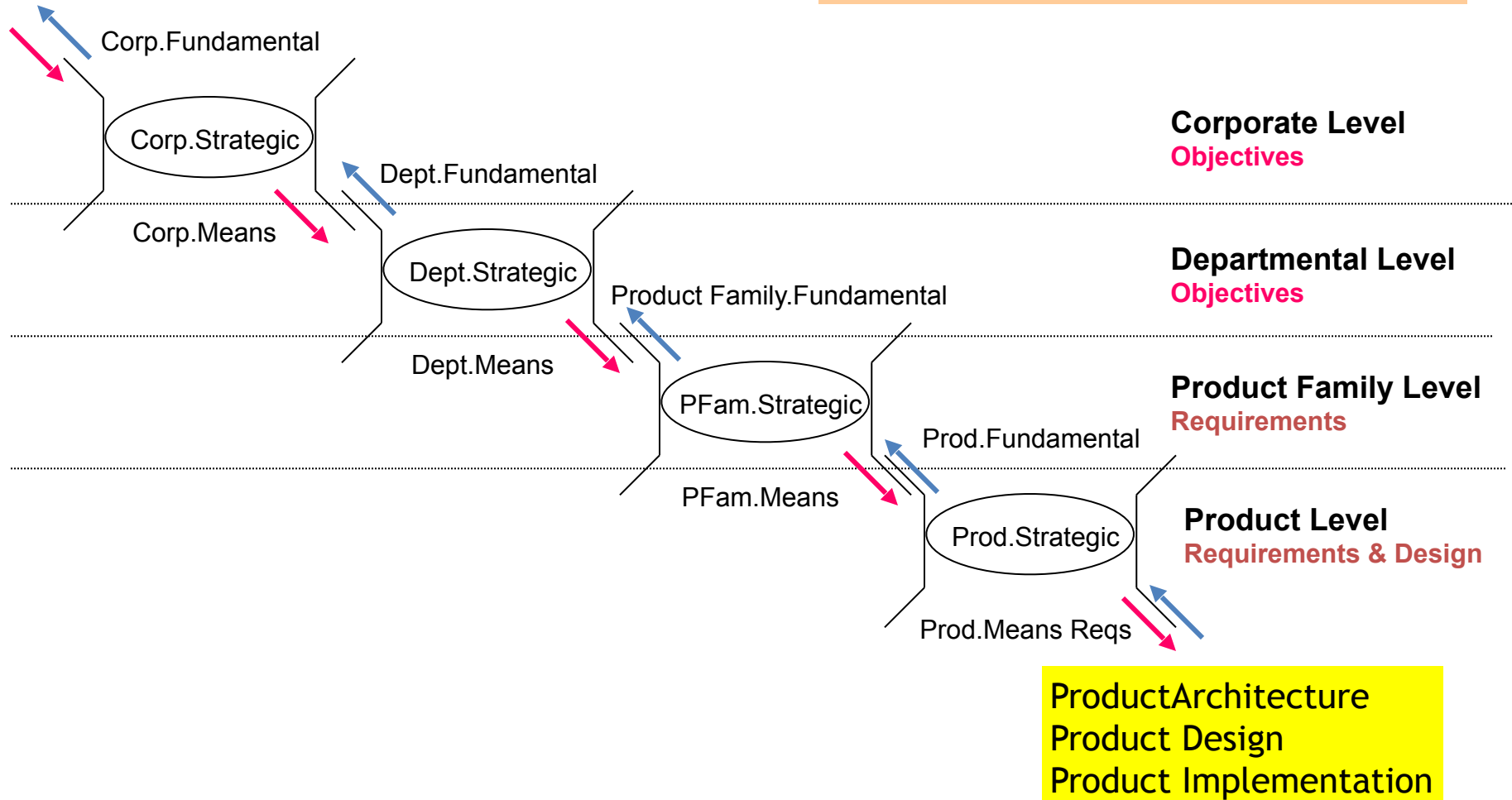


**Product Level
Design**

Levels of Objectives / Requirements and Design

The number of organizational requirements layers can differ per organization

Market Trends & Demands



Requirements and Design Hierarchies

Fundamental Requirement/objective:

- A requirement that is requested or imposed by a higher level (priority) requirement owner.

Strategic Requirement/objective:

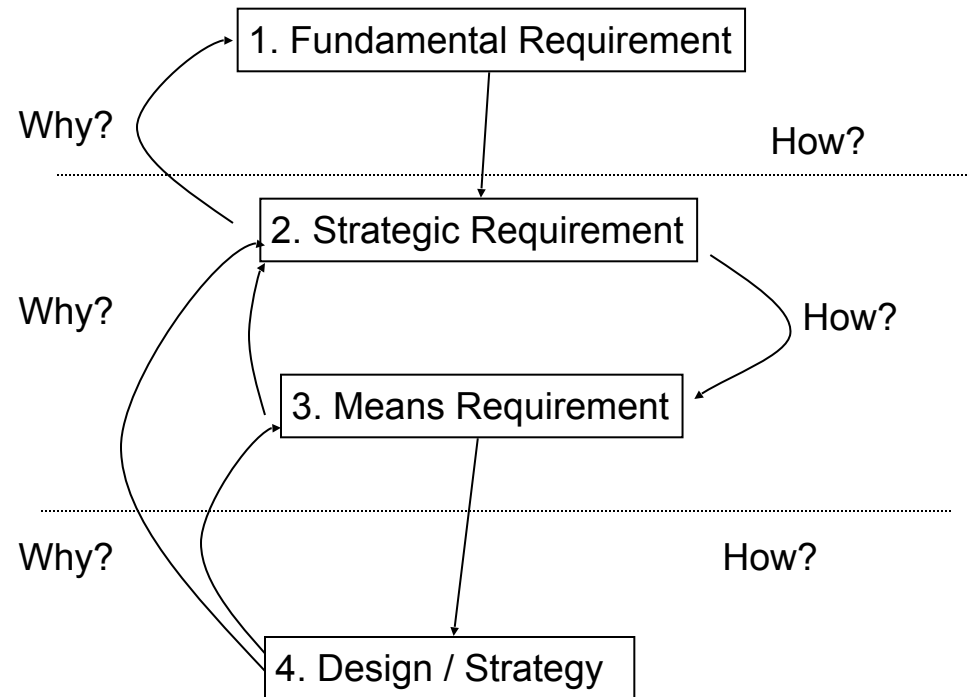
- A requirement of which the currently considered management level is the owner.
- A strategic requirement contributes to one-or-more Fundamental (higher priority) requirements.

Means Requirement/objective:

- A requirement of which, from the point of view of the Strategic Requirement Owner, is solely justified by its assumed contribution to their Strategic Requirements.
- A means requirement must intend to contribute to one or more strategic requirements.

Design:

- A design is a (partial) solution for one or more requirements,
- All levels of requirements can be viewed by some point of view as a 'design' for some other requirements.
- “One man's requirement is another man's design”



The requirements hierarchy helps to bring order in the decision making process over requirements

1. Procedure: Establish the project's initial lists of Fundamental, Strategic and Means Requirements at the **Departmental (Organizational) Level**

1. Establish the project's stakeholder list from the organizational stakeholder list. **Identify or specify project and product stakeholders which are not derivable from the organizational list.**
2. Establish three initially empty lists with fundamental, strategic and means requirements at the departmental level for the project.
3. Analyze the approved list of **Generic Strategic Product and Organizational Quality Attributes** and select the most important quality attributes for the project. Declare these as the initial **Dept.Strategic** requirements for the project. **Identify or make more specific any quality attributes which are not directly derivable from the approved list.**
4. All other generic product- and organizational quality attributes become the initial **Dept.Means** requirements.
This applies only if they arguably exist in order to serve “precedent” (priority) requirements.

Attributes that,
**cannot be justified by their contribution to precedent requirements
are not to be included in the general Dept.Means requirements.**

2. Procedure: Analyze the Project's Incoming Signals and Map them to Means, Strategic and Fundamental Requirements

For each incoming signal:

1. Is this incoming signal a mixture of requirements and design?
If so, rewrite the signal, so that “the requirement part and design are clearly distinguished.
The requirement part is ‘what the stakeholder really values’. The design part is our best current idea of how to deliver that value: subject to improvement”
4. Determine the requirement-type of the incoming signal: Pure Function, Pure Quality, Pure **Resource** Constraint, **Global** Constraint, Pure Design, or a mix of all of these?
Specify the requirement-type combination.
2. Ask yourself: “Who are the **stakeholders** for this incoming signal”, and specify who says so (source). Both ‘authority’ (which stakeholder) and information reference (document, web reference) are desired.
3. In order to find the fundamental requirement for this incoming signal, ask a number of times the question “WHY does the stakeholder want this incoming signal / requirement?”.
 - At what level in a **defined** organization (us , customer, supplier) **does the stakeholder reside** for this requirement (who imposes this requirement)?
 - Specify the owner of the incoming signal (who can change it?).
 - Is the fundamental requirement of the signal <More Fundamental> than the current list of **Dept.Strategic** requirements?
 - If so, add the fundamental requirement to the list of **Dept.Fundamental** requirements.
 - If not, add a reference to the best mapping **Dept.Strategic** and **Dept. Means** requirements that the incoming signal contributes to.

More Fundamental: Defined As: of higher priority. Has to be respected before another defined one.

Requirement

Concept *026 May 21st 2005 14:39

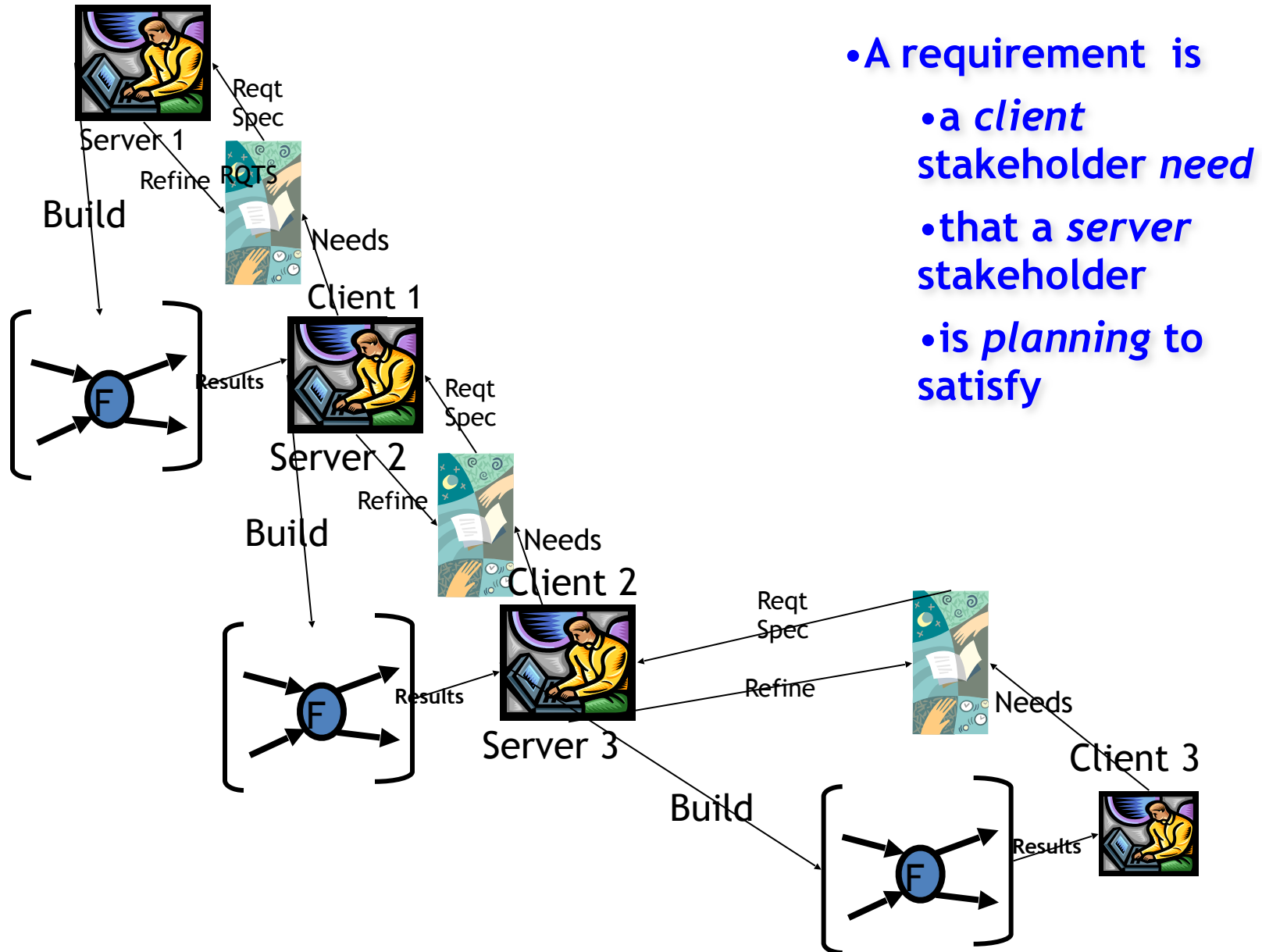
- A requirement is
 - a *client* stakeholder *need*
 - that a *server* stakeholder
 - is *planning* to satisfy

Note I later simplified the *026 definition to

Requirement Concept *026 January 23rd 2008 (+ “value”)

A ‘requirement’ is a
stakeholder-prioritized future state.

Requirement Stakeholder Levels



- A requirement is
 - a *client* stakeholder *need*
 - that a *server* stakeholder
 - is *planning* to satisfy

Stakeholders and Requirements

- A Stakeholder is anybody with a stake in what we are working on
- Customer, user, up to ourselves
- Every project has about 30 (± 20) Stakeholders
- The set of Stakeholders doesn't change much
- *Requirements* are what the Stakeholders require
but for a project ...
- Requirements are the set of stakeholder needs that a project is planning to satisfy

No Stakeholder?

- No Stakeholder: no requirements
- No requirements: nothing to do
- No requirements: nothing to test
- If you find a requirement without a Stakeholder:
 - Either the requirement isn't a requirement
 - Or, you haven't determined the Stakeholder yet
- If you don't know the Stakeholder:
 - Who's going to pay you for your work?
 - How do you know that you are doing the right thing?
 - When are you ready?

Which stakeholders are impacted by the requirements? What are the impacts?

Stakeholder Value

Which are the key requirements? What are the current levels and what are the target levels?

Which designs? When? What is their estimated or actual impact on the requirements?

Regulator	IT Dept.	Customer	Rule Admin.	Business Unit	Back Office	Total Value / Benefit	Requirements	D1: Automate Rules Manual Testing	D2: Back Office Loan Decisioning	D3: Web Self-Service	D4: Self-Service
		4				4	R1: Time for customer to submit request 30 min <-> 10 min	-	-	10 m 100%	
					3	3	R2: Time for Back Office to enter request 30 min <-> 10 min	-	-	0 m 150%	-
		9		9		18	R3: Time to respond to customer request 5 days <-> 20 seconds	-	1 d 80%	20 s 100%	-
					1	1	R4: No of Back Office complaints 10 per week <-> 0	5 50%	<1 90%	0 100%	(2) (80%)
		1			5	6	R5: No of customer complaints 25 per week <-> 5	-	15 50%	5 100%	-
1			5	4	8	18	R6: Time to update business rules 1 month <-> 1 day	2 w 50%	-	-	1 d 100%
1			3	4	6	14	R7: Time to distribute business rules 2 weeks <-> 1 day	1 d 100%	-	20 s 103%	-
2	14	8	17	23	64		Cumulative Total for Performance Requirements	200%	170%	280%	50%
							Development Budget 2.5M <-> 300K	2.3	2.0	1.0	0.5
							Development Cost for Design	0.2	0.3	1.0	0.5
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Sensitive data made anonymous

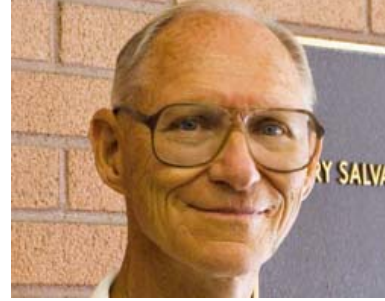
Which stakeholders benefit most or least?

What is the total stakeholder value (business benefit)?

Which design gives the highest ROI (stakeholder value/development cost)?

Are the current designs sufficient to meet each of the requirements?

Boehm's Stakeholder Categories (still missing inanimate stakeholders)



- Boehm has identified extensions to simplistic stakeholder concepts, that recognize that not all stakeholders are simply 'users' of a technical solution. He has proposed four broad categorizations of stakeholders from a project manager's point of view:
 - Users: who usually want lots of functions out of a fast, reliable technical solution
 - Bosses: who not only set ambitious goals, but want 'no surpris-es' along the way
 - Subordinates: who want technical advancement, neat designs, and who may not directly see the benefit of controls and transparency
 - Maintainers: who will inherit the technical solution and who want it bug-free and well-documented
 - Customers: those in a different division or organization w/ commissioned the system.

B.W. Boehm 1989



3 Stakeholder Steps



Research sponsored by the US Defense Advanced Research Projects Agency (DARPA) identifies three important steps required at the start of each step in the use of iterative methods:

- Identify the stakeholders for the coming iteration
- Identify their win conditions
- Reconcile their win conditions

Over three years 16 projects using an iterative approach incorporated these steps and showed:

- Greater flexibility in adapting to risks and uncertainties
- Better discipline in achieving operational capability
- Enhanced trust between the project stakeholders

Barry Boehm 1994

UK Firecontrol

- The failed UK Firecontrol project was an example where the poor stakeholder engagement together with a flawed technical solution resulted in project cancellation. The stakeholder engagement required on the project was both complex and broad. The aim was for the existing 46 existing local control centers to be reduced to just 9 regional control rooms. A firm of management consultants had already advised against fast centralization, and had instead recommended a reduction to 21 centers. The changes were regarded with hostility by a broad range of stakeholders, including Chief Fire Officers, the Firefighters Union, the Local Government Association and the Fire Brigade Union.
- When the project was eventually canceled at a cost of £469m, the UK NAO found that a major reason why the project had failed was due to:
- insufficient communication and engagement with stakeholders during the initiation and design of the project which led to concerns about its rationale and purpose from the outset. Fire and Rescue Authorities and their Services criticized the lack of clarity on how a regional approach would increase efficiency. The Local Government Association similarly asserted throughout the planning and delivery of Firecontrol that a centrally-dictated, one size fits all model was not an appropriate way to optimize resilience.
- NAO #206 National Audit Office, cited in , ***Agile Project Management for Government***

Active senior engagement with stakeholders

- Active senior engagement with stakeholders is identified by the GAO as a common critical success factor. In a survey of seven large and successful government IT projects collectively worth \$5bn, the GAO found that:
- Officials from all seven (projects) cited active engagement with program stakeholders as a critical factor to the success of those investments ... stakeholders regularly attended program management office sponsored meetings; were working members of integrated project teams; and were notified of problems and concerns as soon as possible.
- The GAO found that the use of multi-disciplinary teams and early involvement of users in defining requirements had created transparency and trust and further increased the support from the stakeholders.
- {U.S. Government Accountability Office 21/10/2011 #37: 1} in , Agile Project Management for Government TM

Project failures due to poor stakeholder engagement in US

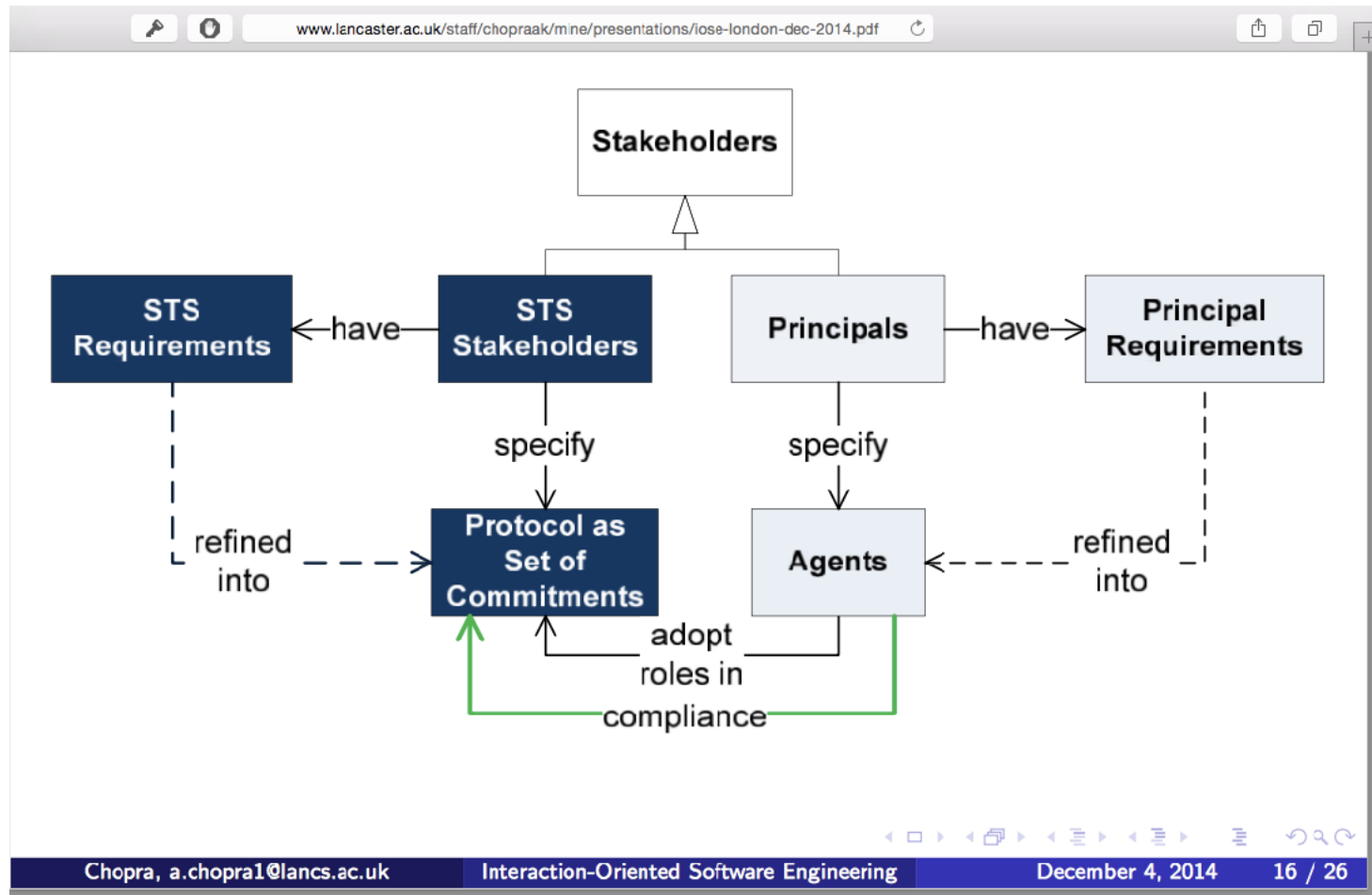
- In contrast to these successful projects, the GAO has **regularly reported on instances of project failures due to poor stakeholder engagement.**
- Examples include:
- The Federal Emergency Management Agency (FEMA),
 - where end users were not sufficiently involved in defining requirements for the National Flood Insurance Program's insurance policy and claims management system.
 - **The program was canceled** in final end-user testing after seven years of development and a budget of \$40m, forcing the agency to continue to rely on an outdated 30 year-old system.
- The Department of Homeland Security (DHS)
 - which did not allow sufficient time for stakeholder involvement in its planning and had no consistent method for identifying stakeholder roles and incorporating their feedback.
- The 2010 US Census
 - where lack of local user involvement in software testing hindered local governments' ability to accurately update address lists and maps.
- Sources:
 - {U.S. Government Accountability Office June 2011 #38}
 - {U.S. Government Accountability Office 15/09/2011 #209: 28}
 - {U.S. Government Accountability Office 14/06/2007 #210}
- Kilde: Wernham Agile Project Management for Government, 2012

UK Revenue and Customs 2007-2011

- In contrast, a major project by the UK Revenue and Customs had delivered 4% uptake of salaried employee tax returns over the period 2007-11
- with effective stakeholder engagement applied during a phased implementation of online services.
- Each stakeholder group **was identified and assigned a 'champion'** to act as a single point of contact,
- and consultative groups were set up to liaise with tax agents and industry representatives.
- Customer concerns were researched and face-to-face events were held to help small businesses and individuals understand the new processes.
- Requirements for the new services were prioritized according to stakeholder concerns.
 - For example, as a response to these concerns mandatory filing was delayed, which gave rise to the opportunity to reduce the overall budget of £373m by about 10%.
 - New requirements were proposed and implemented.
 - Example of these were free entry-level software for small businesses, and soft landings of non-mandatory solutions that allowed customers to familiarize them-selves with online filing without fear of penalties.
 - Third-party tax and accounting software developers were also identified as important stakeholders and targeted technical information was sent to them to assist them in developing compatible systems.
- Source: {UK NAO 09/11/2011 #207} in Wernham Agile Project Management for Government, 2012

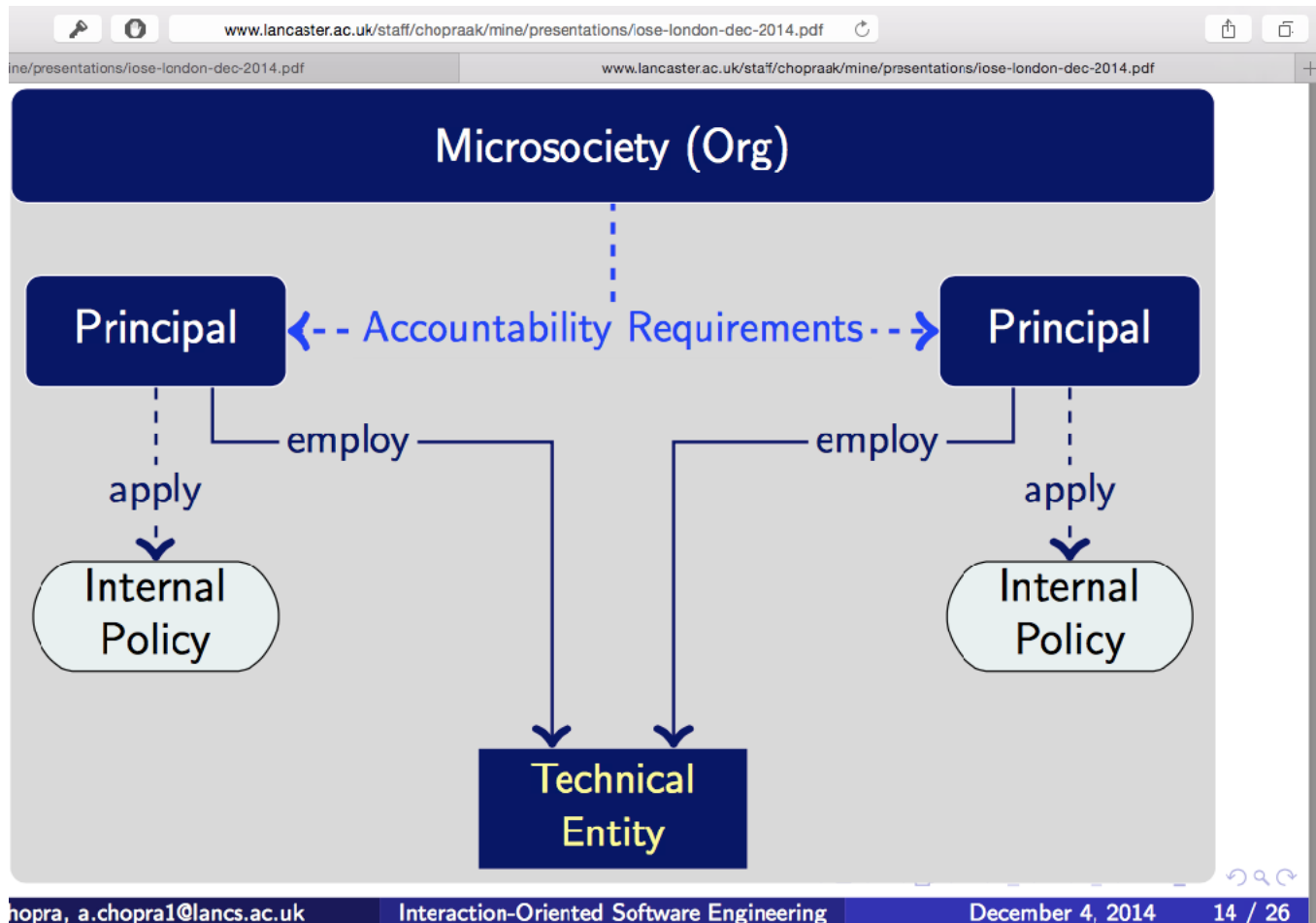
Interaction-Oriented Software Engineering

Amit K. Chopra @Lancaster University
STS = Sociotechnical System



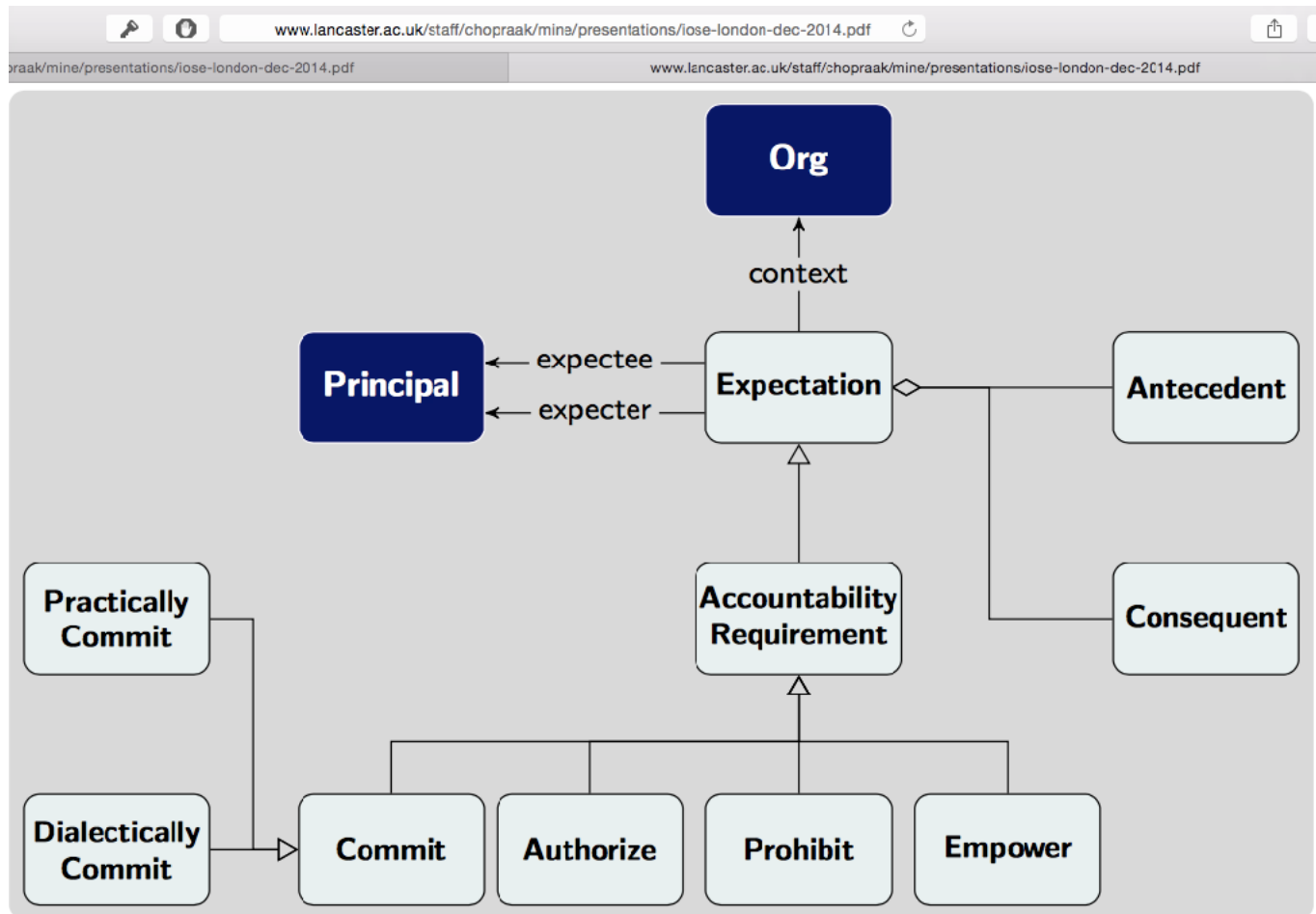
<http://www.lancaster.ac.uk/staff/chopraak/mine/presentations/iose-london-dec-2014.pdf>

Sociotechnical System



<http://www.lancaster.ac.uk/staff/chopraak/mine/presentations/iose-london-dec-2014.pdf>

Stakeholder Expectations




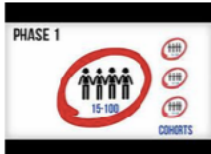


<http://www.lancaster.ac.uk/staff/chopraak/mine/presentations/iose-london-dec-2014.pdf>

MEDICAL STAKEHOLDERS

07bcnbiosciences12-10-21014icorpsnih-141215192510-conversion-gate01.pdf (page 7 of 25)

What we did - Archetypes of Customer & Partners

	Doctors	Pharma Biz Dev	Pharma Prod Dev / Science	Development Partners
				
Archetype	Pulmonologists <ul style="list-style-type: none"> - patients with post radiation fibrosis - patients with IPF Skin Doctors <ul style="list-style-type: none"> - Dermatologists - Plastic Surgeons 	Big Pharma/Biotech <ul style="list-style-type: none"> - Pitched hundreds of times each year - Looking for \$1B market molecules - Disease modifying Medium Pharma/Biotech <ul style="list-style-type: none"> - Actively engaged in pre-clinical scouting - Interested in supportive care also 	Big & Medium Pharma/Biotech <ul style="list-style-type: none"> - Conducts pre-clinical MOA studies - Conducts Efficacy & Safety studies - Designs in-human clinical trials and regulatory path - Primary Science/Regulatory/manuf decision influencers 	CROs <ul style="list-style-type: none"> - Radiation CROs - PK, Tox & Efficacy CROs - Drug Formulations - Drug manufacturing Govt. Agencies <ul style="list-style-type: none"> - Development partner - Free resources Disease Foundations <ul style="list-style-type: none"> - Basic Research support mandate - Orphan Indications
Interviewees	26	34	18	22

Stakeholder Values

What we found: Customer Segments

Customer archetype: Inpatient EHR user – Specialist



Interventional Radiologist

Male, 40-65 years old

Attending physician, specialist

Not the buyer, but the champion

Motivations: Less time using EHR and more with patient; Easy clinical documentation; High risk patient care; See more patients; Optimize revenue.

Influenced by: Department chair, Peers, Scientific knowledge (journals, web)

What we found: Customer Segments

Complex customer segments in healthcare organizations

The diagram illustrates the complex customer segments in healthcare organizations, categorized by stakeholder type and their interactions.

Stakeholder Legend:

- Saboteur (Red):** Purchasing, Legal; ITS
- Economic Buyer (Green):** CFO; COO; Finance Director
- Decision-Maker (Blue):** CIO, IT committee
- Influencer (Purple):** CMIO, Tech. Assess. Committee; Physician Leaders; EHR Liaison
- User (Orange):** Inpatient - Specialist; Inpatient - Medicine/Ped.; Outpatient - Specialist; Outpatient - Primary care; Physicians, NPs, PAs

Key Interactions:

- Purchasing, Legal** (Saboteur) interacts with **CFO** (Economic Buyer).
- CFO** (Economic Buyer) interacts with **CIO, IT committee** (Decision-Maker).
- ITS** (Saboteur) interacts with **CIO, IT committee** (Decision-Maker).
- COO** (Economic Buyer) interacts with **CIO, IT committee** (Decision-Maker).
- CIO, IT committee** (Decision-Maker) interacts with **CMIO, Tech. Assess. Committee** (Influencer).
- CMIO, Tech. Assess. Committee** (Influencer) interacts with **Physician Leaders** (Influencer) and **EHR Liaison** (Influencer).
- Physician Leaders** (Influencer) interacts with **Physicians, NPs, PAs** (User).
- Physicians, NPs, PAs** (User) interacts with **EHR Liaison** (Influencer).
- EHR Liaison** (Influencer) interacts with **CMIO, Tech. Assess. Committee** (Influencer).
- Finance Director** (Economic Buyer) interacts with **CMIO, Tech. Assess. Committee** (Influencer).
- Physicians, NPs, PAs** (User) interacts with **Inpatient - Specialist** (User), **Inpatient - Medicine/Ped.** (User), **Outpatient - Specialist** (User), and **Outpatient - Primary care** (User).

Interviewing 100 Stakeholders

What we did

We talked to > 100 potential customers or experts related to our business:



Techniques of Value Analysis and Engineering – Lawrence D. Miles

MATRIX EVALUATION CHART

Project: MULTIDIRECTIONAL AIR PROJECTOR	FUNCTION									Date: 4-30
Criterion: PERFORMANCE	K. PROVE ELIGIBILITY	J. EASY ASSEMBLY	G. RESIST DAMAGE	F. LOOK GOOD	E. RESIST CORROSION	D. RESIST HEAT	C. CONTROL FLOW	B. DIRECT AIR	A. DISTRIBUTE AIR	
Function Rank No.(n)	1	2	3	4	5	6	7	8	9	
Function Rating No.(φ)	1	1	2	4	5	6	7	8	9	
IDEA	SATISFACTION FACTOR(s)									Σ φs EST. COST
a. ORIGINAL PRODUCT PARTS HWKY	10	1	3	9	8	9	6	8	10	349 \$55
b.										
c. ELIMINATE PARTS X+Y	10	8	4	10	8	9	6	8	10	356 \$47
d. MANUFACTURE FROM PLASTIC COATED OR PRE-PAINTED MATERIAL	10	8	4	10	8	9	6	8	10	356 NOT PRACTICAL
e. BUILD IN LOUVRES TO HEAD	10	10	4	6	8	9	6	1	10	334 NO SAVING
f. RIVET LOUVRES IN DUCT INSTEAD OF SCREW	10	10	4	10	8	9	6	8	10	358 \$54
g. MANUFACTURE IN GALVANIZED METL	10	8	8	5	9	9	6	8	10	349 \$42
h. PLASTIC GRILLE	10	8	9	10	10	9	6	8	10	376 NO SAVING
i. SET UP INTERIOR PAINTING FACILITY	10	8	7	10	8	9	6	8	10	362 NEEDS INVESTIGATING
k. DESIGN A SINGLE DOUBLE HEAD	10	10	7	10	8	9	1	9	10	379 \$43
l. UNIDIRECTIONAL										\$34
m.										
n.										
o.										
p.										
q.										
r.	CONCLUSION: ITEM K.L OFFERS GREATEST POTENTIAL SAVINGS									

Fig. 17-12 Matrix evaluation chart. (Colt Heating and Ventilation Ltd.)

last slide