Value

Management

How to succeed

by Kai Gilb



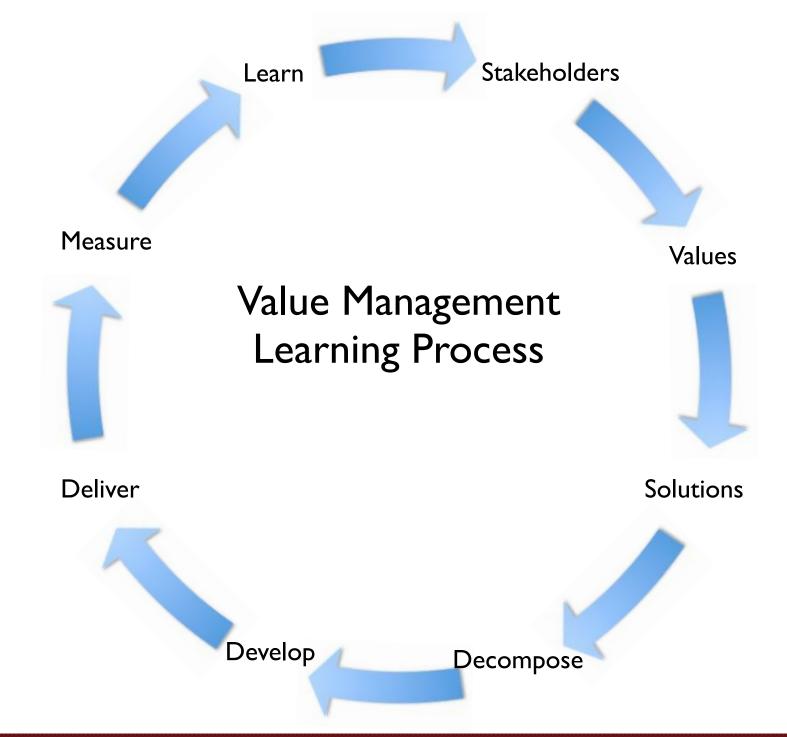


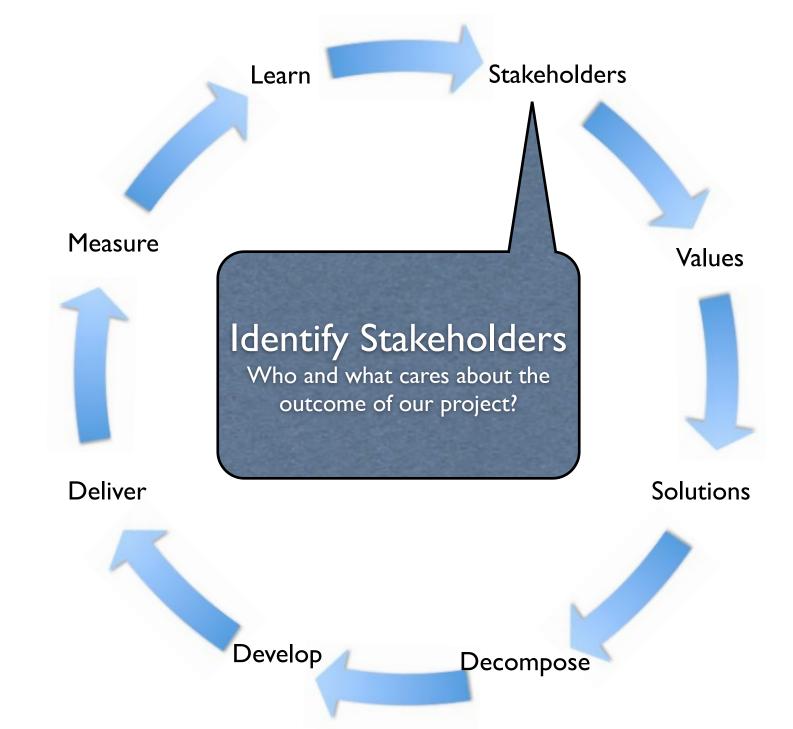
deliver value to stakeholders, within limited resources.

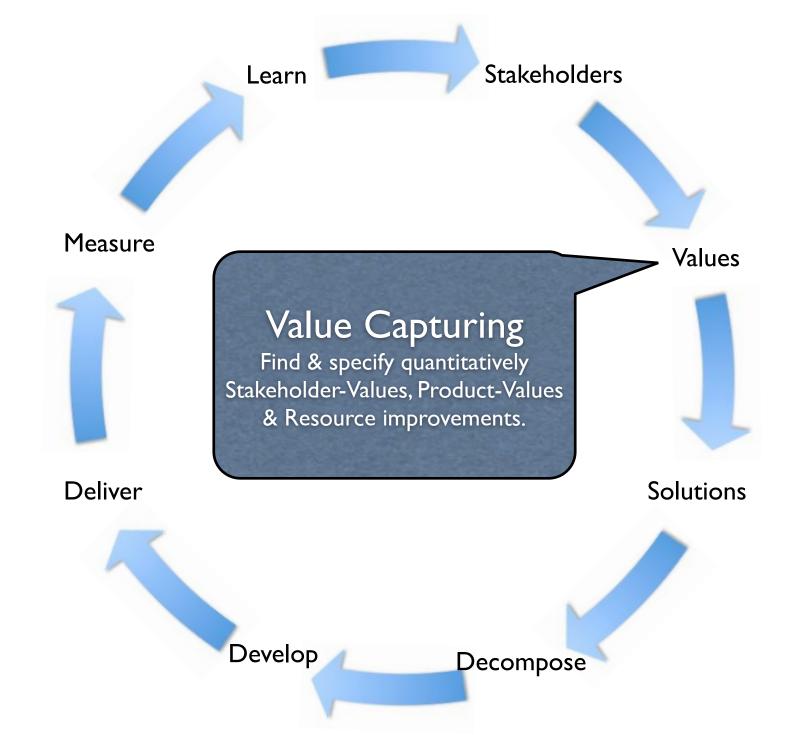


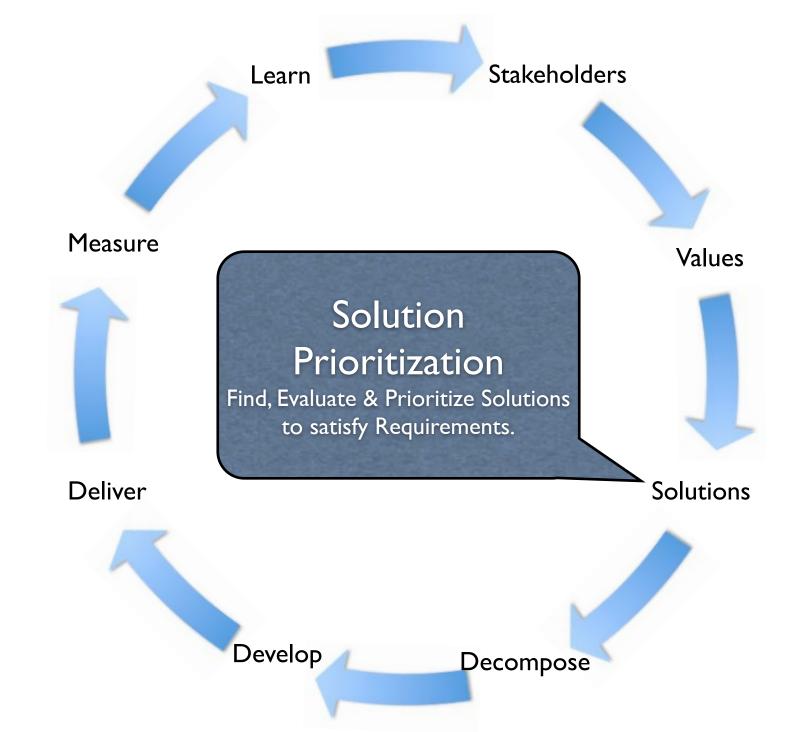
Case

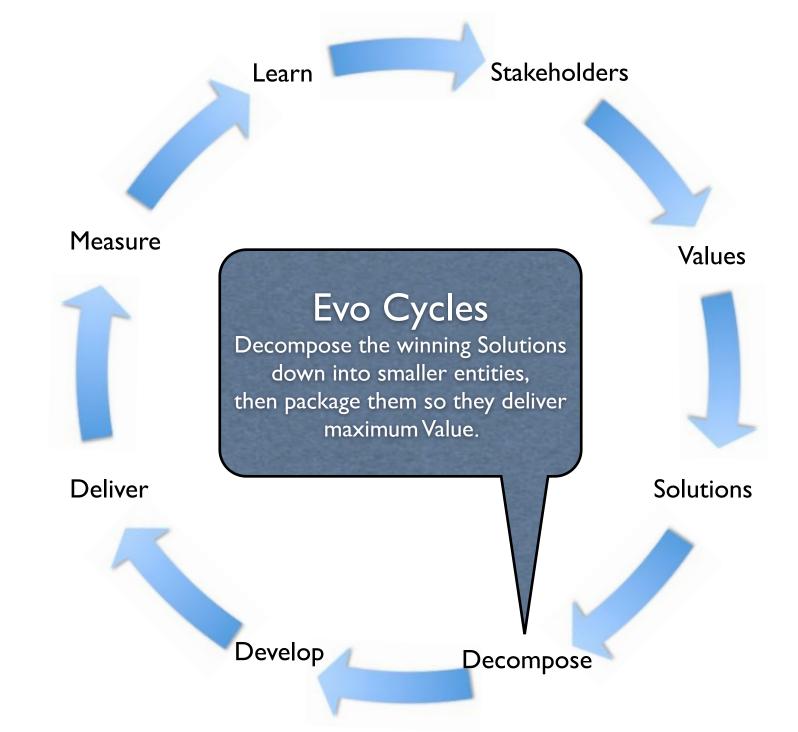


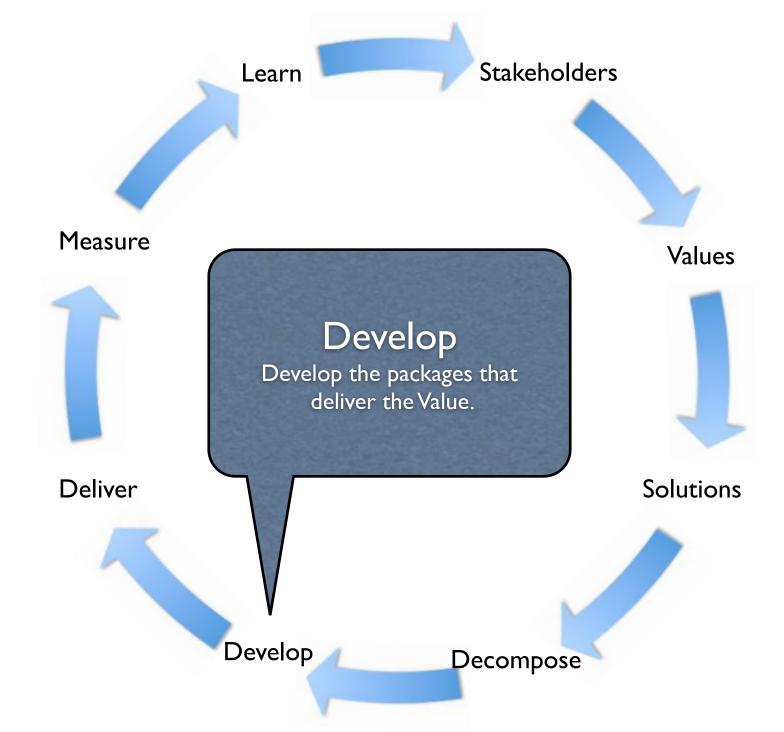


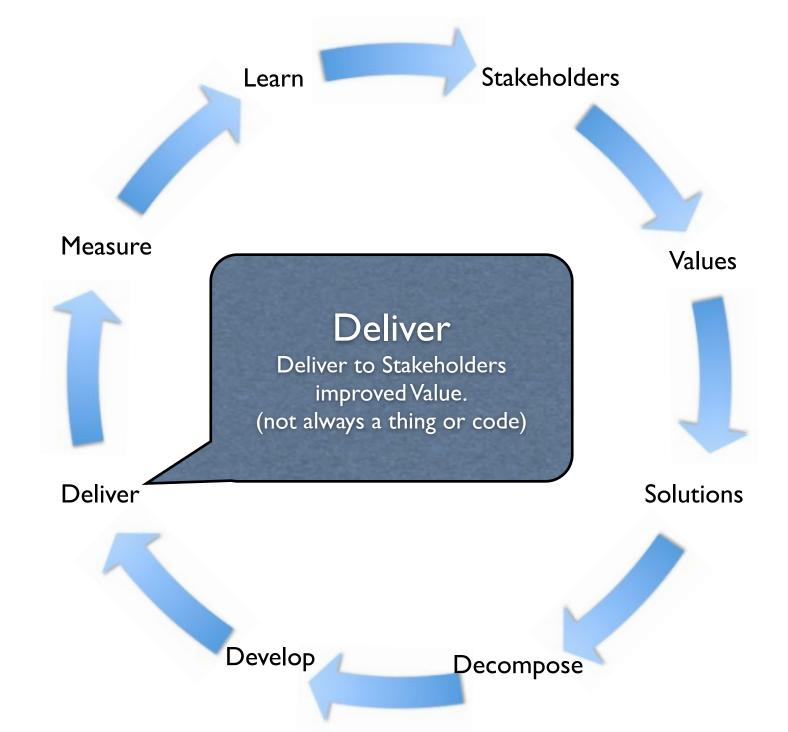


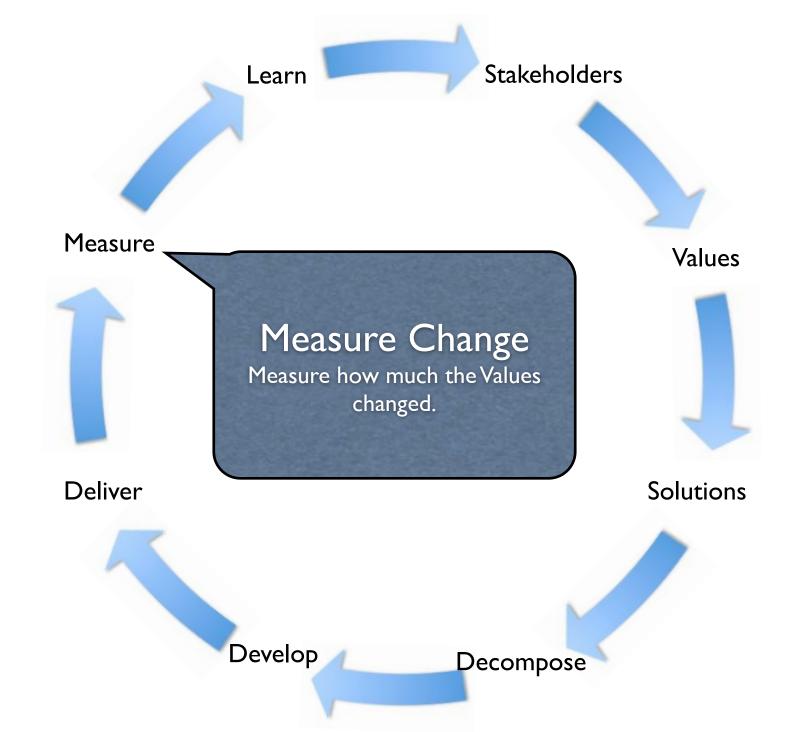


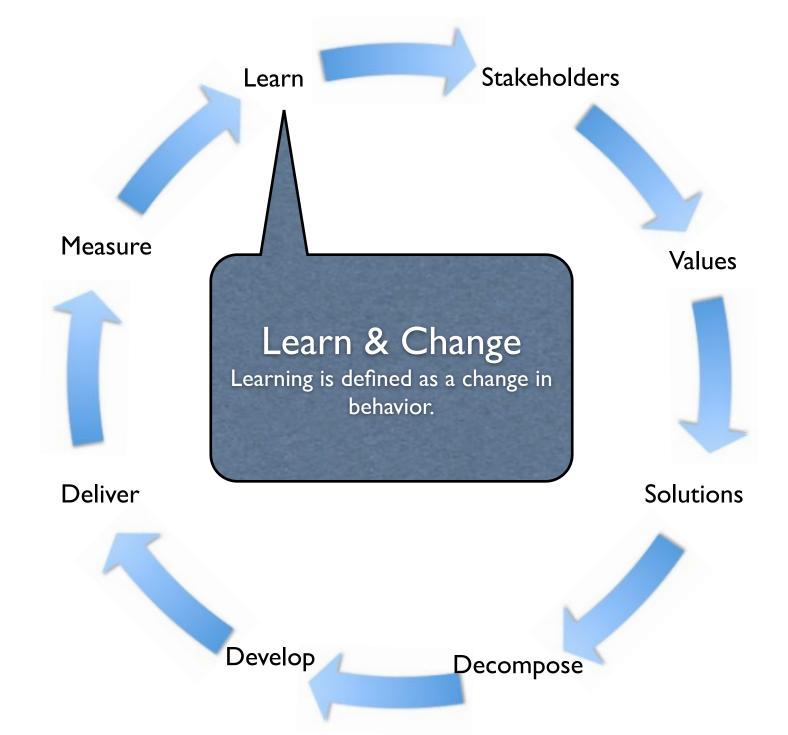


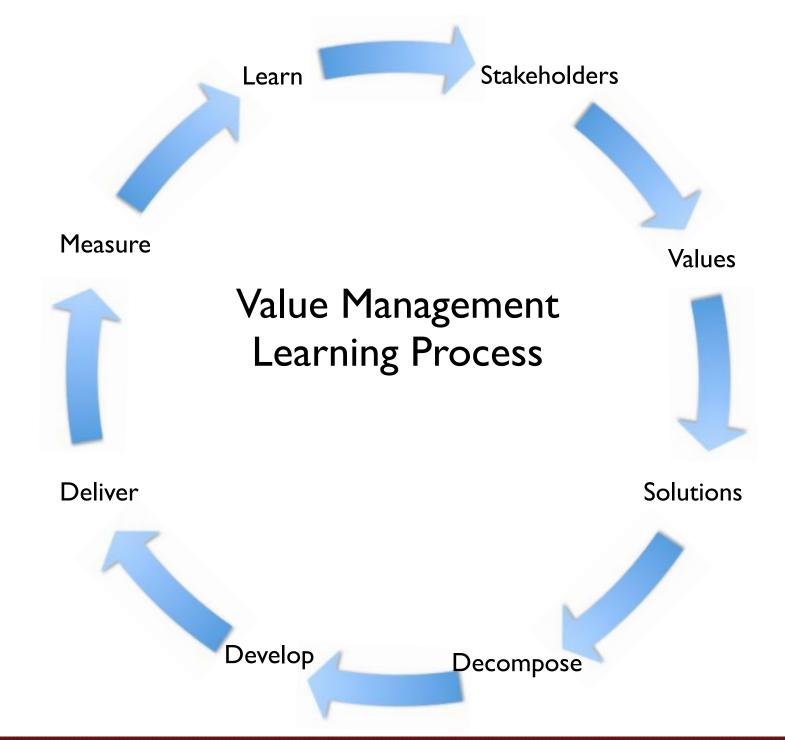














Defining Success

- 1. Identify Stakeholders
- 2. Specify
 Stakeholder Value and
 Product Value
 Requirements





What makes you choose one car over another?



deliver value to stakeholders, within limited resources.



How to Quantify Product-Values



The secret trick needed to clearly specify variable values is to:



The secret trick needed to **clearly** specify variable values is to:

Quantify

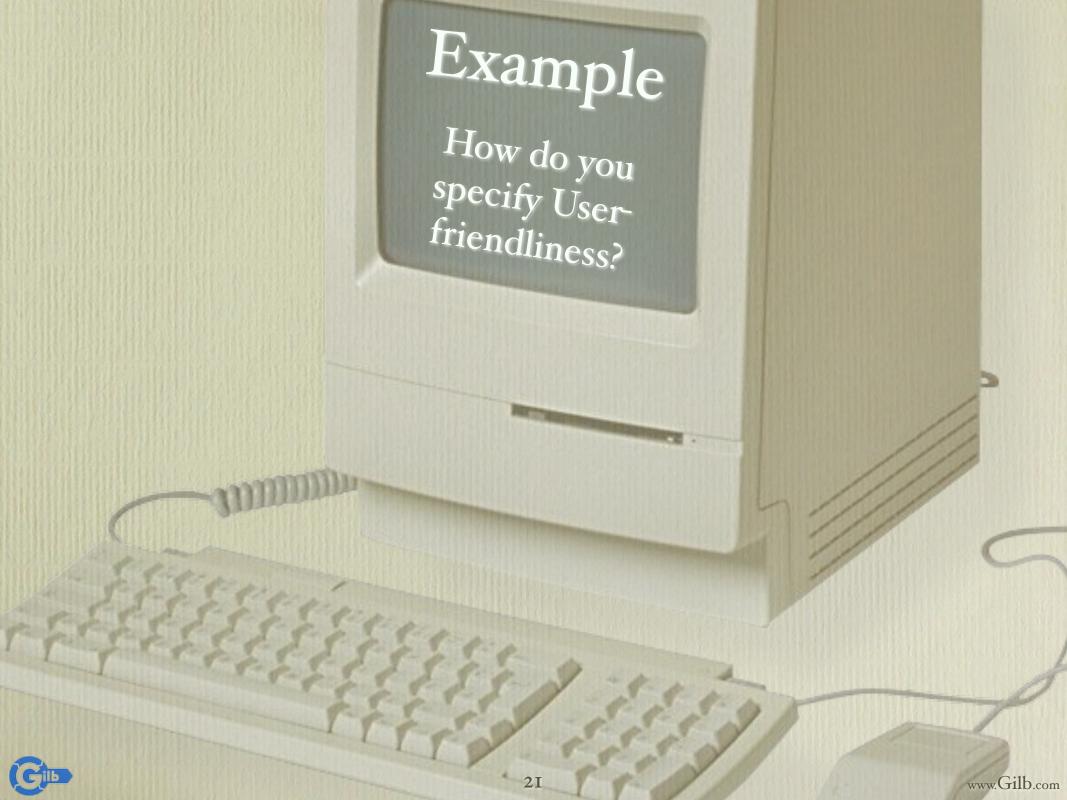


19

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Quantify





User Friendliness.Learn

Stakeholders: Users, Managers of Users, Application Teachers.

Scale: average time to learn, how to do, 10 defined tasks.

Past [Jan. 2014] 180 min.

Goal [Jan. 2015] 30 min.





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User Friendliness.Learn

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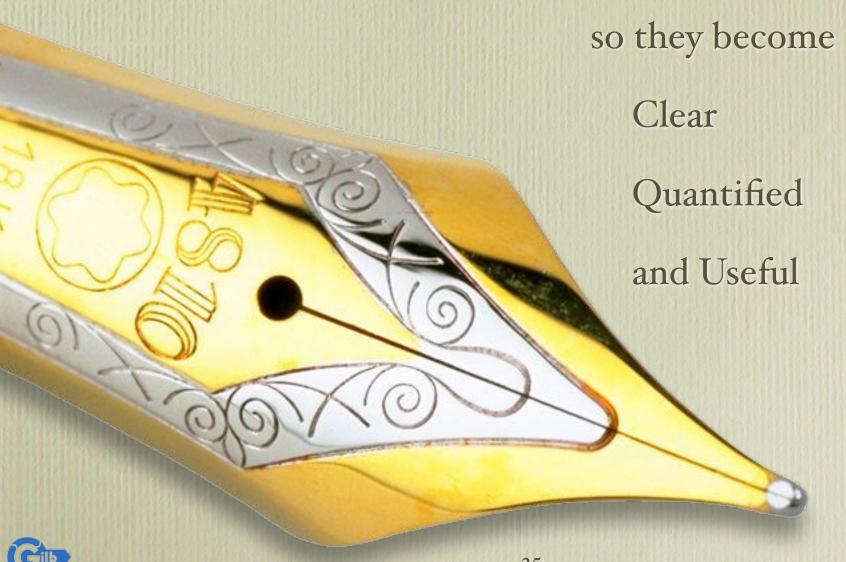
Past [Jan. 2014] 180 min.

Goal [Jan. 2015] 30 min.

24



Example of Re-writing Requirements



- Data Availability
- All required data should be available for query and reporting
 via Business Objects Trader will specify data objects required.
- At any time, users of Business

 Objects should have access to trades with a Trade Date within the current year and the previous 2 years up to 01/01/(current year-2).
- It should be possible for Trader to query on trades with Trade Dates earlier than 01/01/(current year-2) with 1 day's notice.

Can you find any 'hidden'
Design
in the requirement specification?

via through in order to by

What do we do with the Design idea?

Business Objects



We can move it to the Design specification!

(where it belongs;-)

Design Ideas (Means)

Business Objects: A data query and reporting application (*to be confirmed*) that will be implemented to facilitate the query of CMIS data and the development of MIS reports.



- Data Availability
- All required data should be available for query and reporting
- At any time, users should have access to trades with a Trade Date within the current year and the previous 2 years up to 01/01/(current year -2).
- It should be possible for Trader to query on trades with Trade Dates earlier than o1/o1/(current year -2) with 1 day's notice.

Scale: Time, from: Trader wants access to trades, until: they are provided with the information onscreen.

Goal [MIS, with a Trade Date within the current year and the previous 2 years up to 01/01/(current year -2)] to Minutes <- Sarah

Goal [Trade Dates earlier than 01/01/(current year -2)] I day <- Trader



Scale: Time, from: Trader wants access to trades, until: they are provided with the information onscreen.

Goal [MIS, with a Trade Date within the current year and the previous 2 years up to 01/01/ (current year -2)] to Minutes <- Sarah

Goal [Trade Dates earlier than 01/01/(current year -2)] I day <- Trader



Scale: Time, from: Trader wants access to trades, until: they are provided with the information onscreen.

Goal [MIS, with a Trade Date within the current year and the previous 2 years up to 01/01/ (current year -2)] 10 Minutes <- Sarah

Goal [Trade Dates earlier than 01/01/(current year -2)] I day <- Trader

Administration

Type: Stakeholder Value

Version: 22. Nov. 2006

Owner: Kai Gilb

Stakeholders: Traders

Past [MIS, with a Trade Date within the current year and the previous 2 years up to 01/01/ (current year -2)] 120 Minutes <- Market research report 06

Past [Trade Dates earlier than 01/01/(current year -2)] 3 days <- Market research report 06



Administration

Type: Stakeholder Value

Version: 22. Nov. 2006

Owner: Kai Gilb

Stakeholders: Traders

Scale: Time, from: Trader wants access to trades, until: they are provided with the information onscreen.

Past [MIS, with a Trade Date within the current year and the previous 2 years up to 01/01/(current year -2)] 120 Minutes <- Market research report 06 Goal [MIS, with a Trade Date within the current year and the previous 2 years up to 01/01/(current year -2)] 10 Minutes <- Sarah

Past [Trade Dates earlier than 01/01/(current year -2)] 3 days <- Market research report 06

Goal [Trade Dates earlier than 01/01/(current year -2)] 1 day

<- Trader





Scale: Time,

from: Trader wants access to trades,

until: they are provided with the information

onscreen.



More Real Examples

Stakeholders

Values

nagement Process





Draft ASML specification

Maintenance

Administration:

Version: 14:10, 23. Nov 06

Owner: Jack V.

Type: Value

Stakeholders: Customers, Customer Support.

Scale: Mean Time to Repair

from: a fault exists in the system.

to: fault is fixed, and the system back is in operation.

Past [Product A, Fault = Can be fixed by Calibration] 3 hours??? <-

Linda W. guess

Goal [Product X, Stakeholder: System Engineering, 2006, Fault = Can be fixed by Calibration] **16 hour** <- SSE Overlay NEE Doc ID: 983/05, OMWT.02

Goal [Product X, Stakeholder: Production Engineering, 2006, Fault = Can be fixed by Calibration] = **Past** <- Production Engineering, LESSD, <Doc ID:??, Name tag.>



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Drill-Accurately

Ambition: No drilling surprises. <- Source: 1. Class

Version: v 1,2. Owner: Charles W.

Type: Stakeholder Value

Stakeholders: Oil Company, WG, Operators-Interperators.

Scale: number of Drilling-Surprises per 100 Drills for defined [Well-Type] at defined [Fields].

Meter: [at final delivery, Well-Type=Deviated] Oil company

measures

Meter: [during development] ask drillers.

Past [Well-Type=Deviated, Fields = existing oil fields, 2006] <**50**±50 <- 1. Class

Past [Well-Type=Vertical, 2006] 20 <-Source: 1. Class

Record [] <-Source: Trend [] <-Source:

Tolerable [Well-Type=Deviated, Fields = existing oil fields, 2007] = Past

<- I. Class

Goal [Well-Type=Deviated, Fields = existing oil fields, 2007]
Past - 50%

<-I. Class

Wish [Well-Type=Deviated, Fields = existing oil fields, 2010] o <-Thorleiv

Drilling-Surprises: Defined as: unexpected results at target {depth to contact error, unexpected need to use casing material...}



Performance.Opening

Stakeholders: End-User

Scale: Seconds to open application, from a user is in front of a running operating system, application closed, with the intention to write; until the user can write in a document.

Past [Jan 4. 2014] 10 sec. Goal [Jan 4. 2015] 2 sec.





Summary Values

Stakeholders

Values

nagement Process

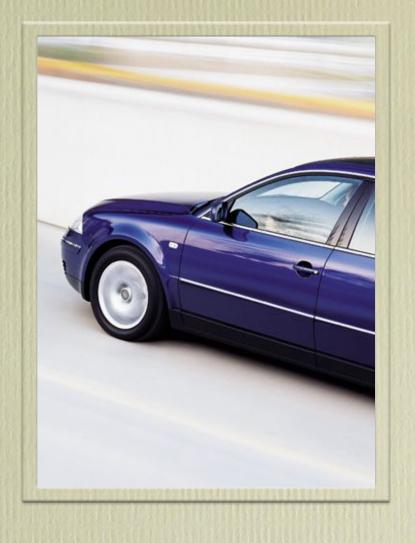




Define Success by defining Product-Values and StakeholderValues.

They

- make us competitive.
- make our customers choose one product over another.
- are the ones that makes our projects fail or succeed.





Critical Product-Values and Stakeholder-Values **vary**, so they should be specified

Quantitatively



gement rocess



Solutions

Design Evaluation

Decompose

3. Find, Evaluate & Prioritize Solutions to satisfy Requirements.



deliver value to stakeholders, within limited resources.



Design Evaluation What I will tell you!

- Using an Value Decision Table (VDT), you can quantify how well a set of solutions satisfies a set of requirements.
- How to compare Apples and Oranges.



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Evaluation of how well a set of Solutions satisfies a set of Requirements

using (VDT) Value Decision Tables



















		Solutions / Design Ideas									
		Password	GUI-X	Encryption							
ıts	Usability	0 %	20 %	-IO %							
Requirements	Security	5 %	-5 %	70 %							
	Data.Access.Spe	0 %	0 %	-10 %							
Re	Dev. Cost €	5 %	15 %	15 %							



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Can we compare apples and oranges?





Taste	60 %	40 %
Nutrition	50 %	40 %
Shelf Life	20 %	85 %
Price	60 %	40 %
Value for €	130/60=2.2	165/40=4.1



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Summary Design Evaluation



Using an VDT, you can evaluate how well a set of solutions will satisfy your set of requirements.





Deliver

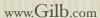
Evo

Develop

Evolutionary Project Management

- 4. Break the Solutions down into 'weekly' evolutionary delivery cycles.
- 5. Develop the next cycle, Deliver, Measure, **Learn**, Change.





Decompose

deliver value to stakeholders, within limited resources.



Evo What I will tell you!

- Any project can be divided into weekly evolutionary delivery cycles.
- Case Study



Evo

For what types of projects?

- We have extensive experience in
 - SW projects (Confirmit, etc.)
 - HW projects (Intel, Boeing, etc.)
 - System projects (HP, Ericsson, etc.)
 - 3rd. world aid projects (Liberating women in Guatamala, etc.)
 - Tiny, huge, Pentagon, China, India, Americas, Europe, medical.

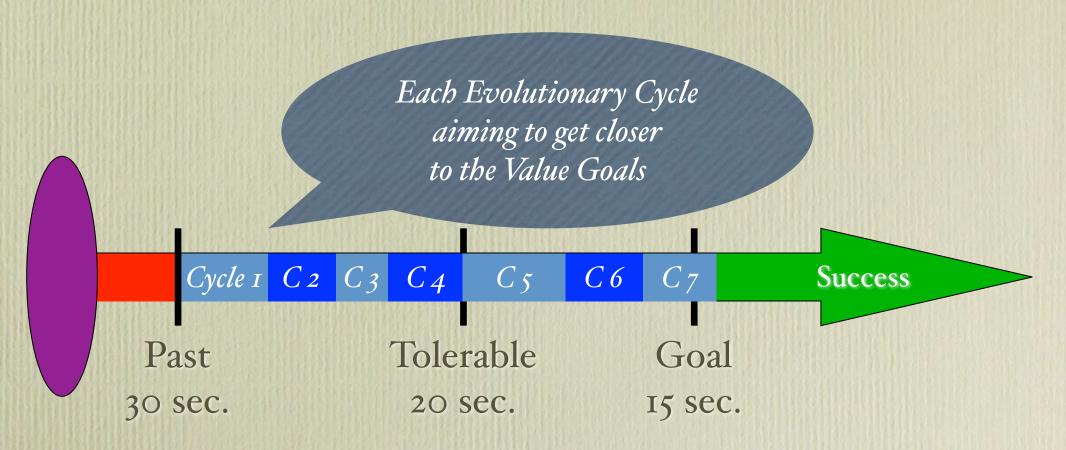


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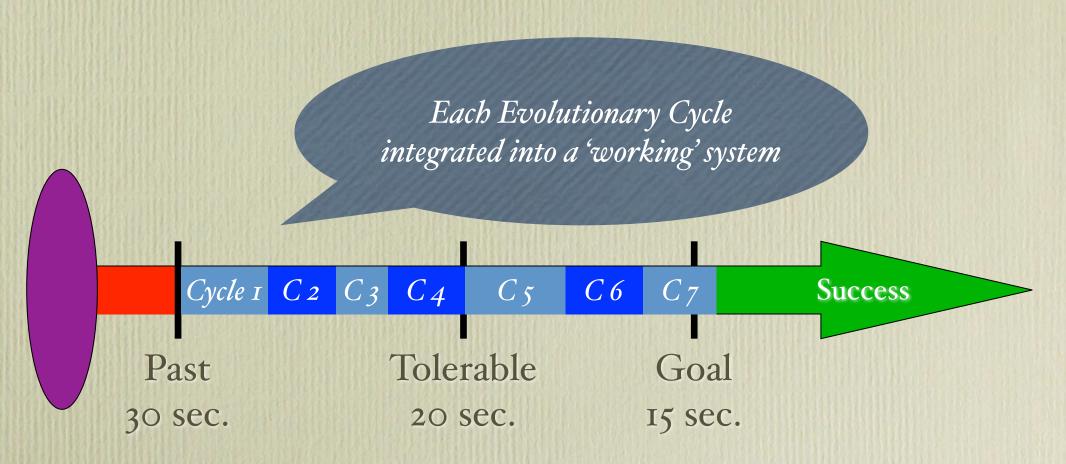
Speed Scale: seconds to do task





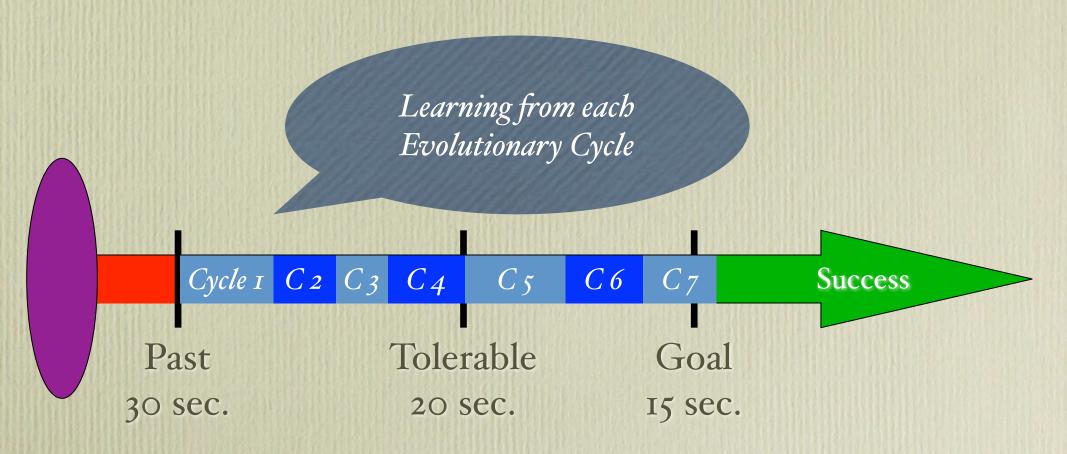
Speed





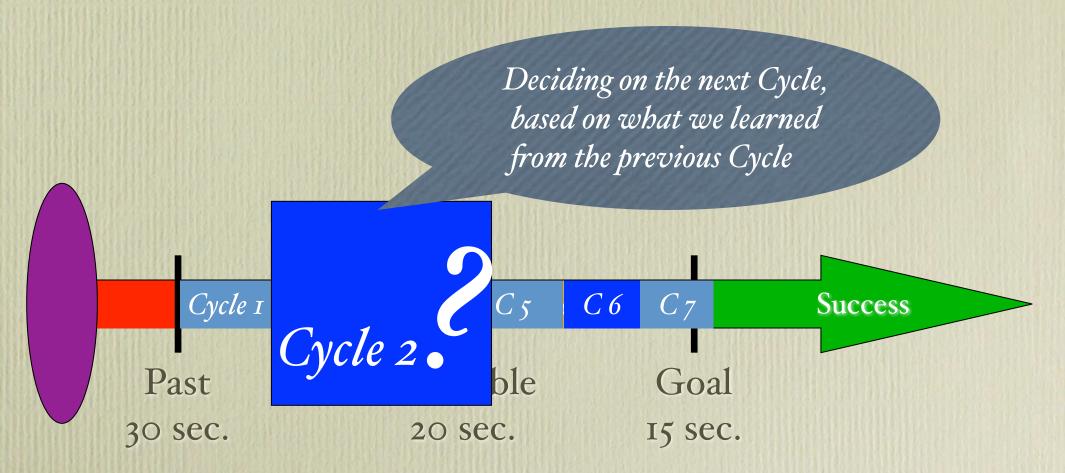
Speed





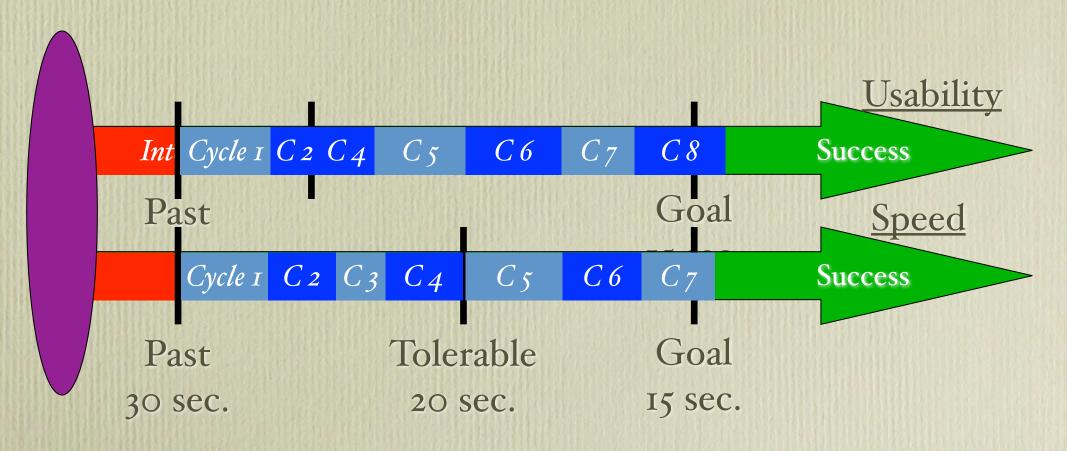
Speed





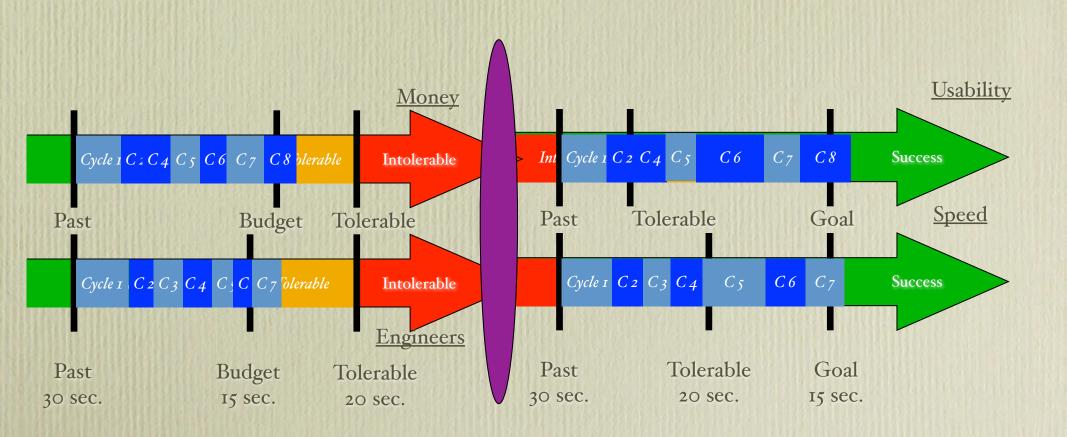
Speed







Each Evolutionary Cycle uses a constrained budget of Development Resources





From Waterfall to Evo

• confirmit •

Future Information Research Management



Tom & Kai Gilb version of Trond Johansen's Presentation
Trond Johansen, QA & Process Manager, Firm AS
Trond.Johansen@firmglobal.com





Customer Successes in Corporate Sector



















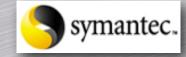
























Paradigm Shift

With EVO, our requirements process changed.

Previously we focused mostly on function requirements.

We realized that it's the product Value requirements that really separate us from our competitors.





Real Requirements Example

Usability.Productivity (taken from Confirmit 8.5 development)

Scale: Time in minutes to set up a typical specified MR-report

Past: 65 min,

Tolerable: 35 min,

Goal: 25 min

Meter: Candidates with Reportal experience and with knowledge of MR-specific reporting features performed a set of predefined steps to produce a standard MR Report. (The standard MR report was designed by Mark Phillips, an MR specialist at our London office)





VDT, project step planning and accounting: using an Value Decision Table

	Α	В	С	D	E	F	G	ВХ	BY	BZ	CA
1											
2		Current							Ste	p9	
3		Status	Improv	ements	Goa	Recoding					
4		Status						Estimate	d impact	Actual	impact
5		Units	Units	%	Past	Tolerable	Goal	Units	%	Units	%
6					Usability.Replacability (fea	ture count)					
7		1,00	1,0	50,0	2	1	0				
8					Usability.Speed.NewFeatu	resImpact (%)				
9		5,00	5,0	100,0	10	15	5				
10		10,00	10,0	66 , 0	20	15	5				
11		40, <mark>00</mark>	0,0	0,0	40	30	10				
12					Usability.Intuitiveness (%)						
13		0,00	0,0	0,0	0	60	80				
14					Usability.Productivity (min	Usability.Productivity (minutes)					
15		20,00	45,0	112,5	65	35	25	20,00	50,00	38,00	95,00
20					Development resources						
			101,0	91,8	0		110	4,00	3,64	4,00	3
											www.Gilba

EVO Plan Confirmit 8.5

4 more product areas were attacked concurrently

6				Impact Estimation	Table: R	Reportal	coden	ame "Hy	ggen"				
				•									
П													
	Current Status	Improv	ements	Reportal - E-SA	AT features	<u> </u>		Current Status	Improv	ements	Survey Eng	gine .NET	
П	Units	Units	%	Past	Tolerable	Goal		Units	Units	%	Past	Tolerable	Goal
П				Usability.Intuitivness (%)							Backwards.Compatibility	(%)	
	75,0	25,0	62,5	50	75	90		83,0	48,0	80,0	40	85	95
П				Usability.Consistency.Visu	ual (Elemen	its)		0.0	67,0	100,0	67	0	0
П	14,0	14,0	100.0	0	11	T		-,-			Generate.Wl.Time (small/	medium/lar	ge seconds)
П	, 0	11,0	100,0	Usability.Consistency.Inte				4,0	59.0	100.0		8	4
ш	15,0	15,0	107.1	osability.consistency.inte	11			10.0	397,0	100,0		100	10
	15,0	15,0	107,1	U bilite - B de die ite - de-ie-		14		94.0	2290,0	100,0			
Н		75.0	00.0	Usability.Productivity (min		I_		94,0	2290,0	103,9		500	180
	5,0		96,2]5 -	2		40.0	40.0	40.0	Testability (%)	Lea	400
П	5,0	45,0	95,7		<u> </u> 5	1		10,0	10,0	13,3		100	100
Ш				Usability.Flexibility.Offline	Report.Expo	ortFormats					Usability. Speed (seconds	T	
	3,0	2,0	66,7	1	3	4		774,0	507,0			600	300
Ш				Usability.Robustness (erro	ors)			5,0	3,0	60,0	2	5	7
•	1,0	22,0	95,7	7	1	0					Runtime.ResourceUsage.	Memory	
П				Usability.Replacability (nr o	of features)		0,0	0,0	0,0		?	?
	4,0	5.0	100,0	8	5	3					Runtime.ResourceUsage.	CPU	1
П	-,-	-,-	, .	Usability.ResponseTime.E	xportRepoi	rt (minutes		3.0	35,0	97,2		3	2
н	1,0	12,0	150.0		13	5		5,0	55,6	01,2	Runtime.ResourceUsage.	Memoryl e	
П	1,0	12,0	150,0	Usability.ResponseTime.V		(accorda)		0.0	800,0	100,0		n emory ce	0
Н	1.0	44.0	100.0			T		0,0	000,0	100,0			>
Н	1,0	14,0	100,0	15	3	1		4250.0	4400.0	446.7	Runtime.Concurrency (nu		_
Н				Development resources				1350,0	1100,0	146,7		500	1000
Н	203,0			0	<u> </u>	191					Development resources		
ш								64,0			0	1	84
Ш													
П													
	Current Status	Improv	ements	Reportal - MR	R Features								
H	Units	Units	%	Past	Tolerable	Goal		Current	Improv	ements	XML Web	Services	
H	Units	Units	/0	Usability.Replacability (fea				Status	prov	omonia.	MAIL AAGD	COITICGS	
	1.0	4.0	50.0					11-14-	11-24-	0/	Doot	Tolorob's	Cool
	1,0	1,0	50,0		13	12		Units	Units	%	Past	Tolerable	_
			440 -	Usability.Productivity (min		1					TransferDefinition.Usabili		
	20,0	45,0	112,5		35	25		7,0			16	10	5
Ш				Usability.ClientAcceptance	e (features			17,0	8,0	53,3		15	10
	4,4	4,4	36,7	0	4	12					TransferDefinition.Usabili	ty.Respons	е
				Development resources				943,0	-186,0	######	170	60	30
	101,0			0		86					TransferDefinition.Usabili	ty.Intuitiven	ess
	-							5,0	10,0	95,2		7,5	4,5
	-							-,-	, -		Development resources		-
								2,0			0	1	48www.Gilb.
								2,0			~		-www.

FIRM EVO week

Fri Mon Tue Wed Thu Fri Mon Tue Wed Thu Fri Mon Tue Wed Thu Fri Mon Tue

Cycle N

Cycle N₁

Cycle N2



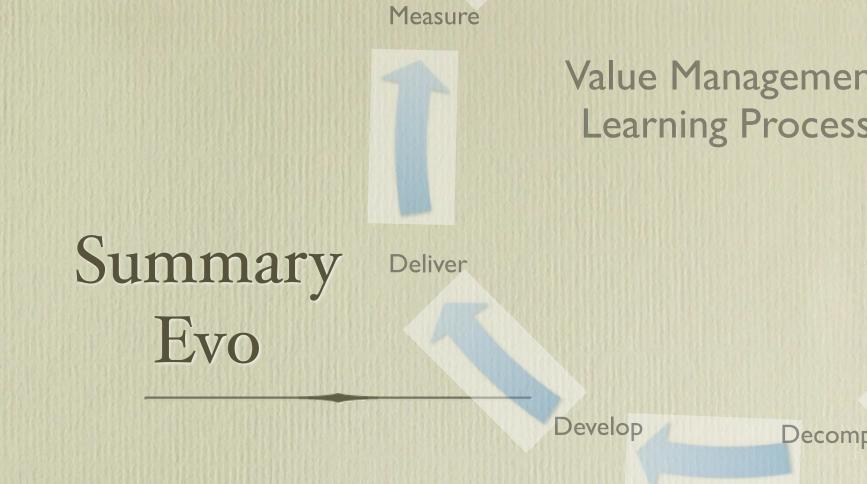




EVO's impact on Confirmit Product-Values

Only highlights of the impacts are listed here

Description of requirement/work task	Past	Status
Usability.Productivity: Time for the system to generate a survey	7200 sec	15 sec
Usability.Productivity: Time to set up a typical specified Market Research-report (MR)	65 min	20 min
Usability.Productivity: Time to grant a set of End-users access to a Report set and distribute report login info.	80 min	5 min
Usability.Intuitiveness: The time in minutes it takes a medium experienced programmer to define a complete and correct data transfer definition with Confirmit Web Services without any user documentation or any other aid	15 min	5 min
Performance.Runtime.Concurrency: Maximum number of simultaneous respondents executing a survey with a click rate of 20 sec and an response time<500 ms, given a defined [Survey-Complexity] and a defined [Server	250 users	6000
Sonfiguration, Typical]		





Summary Evo

- Any project can be divided into weekly evolutionary delivery cycles.
- Our clients are reporting unmatched success.



Summary Talk

Values - VDT - Evo

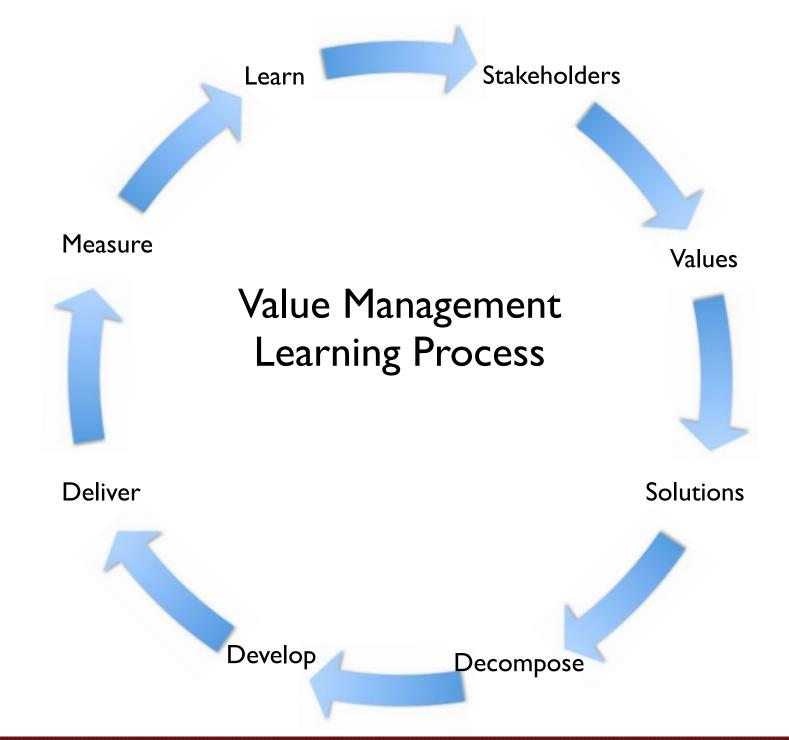
Learn

Stakeholders



Measure

Values



deliver value to stakeholders, within limited resources.



Quantify

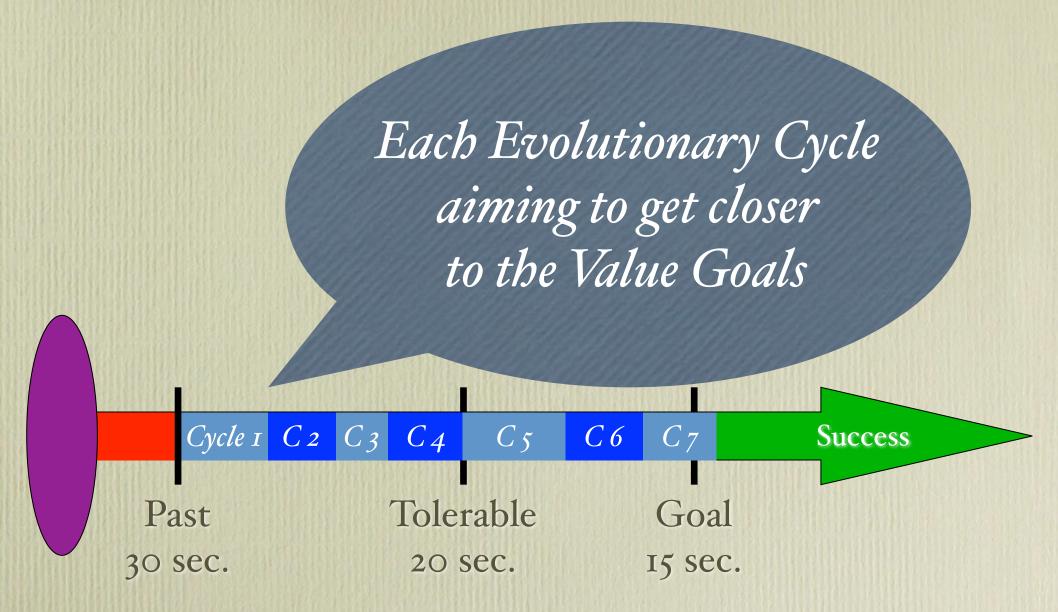
Product Value and Stakeholder-Values



Using an VDT, you can evaluate how well a set of solutions will satisfy your set of requirements.



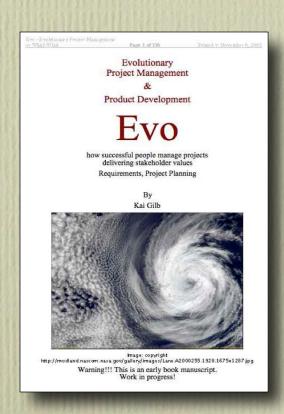


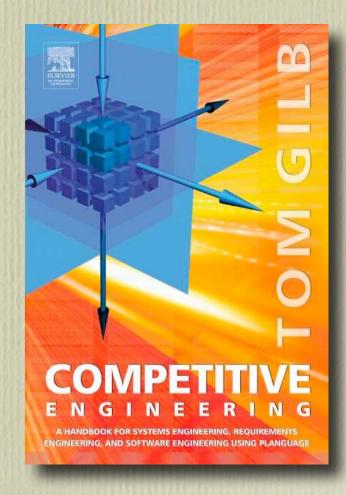


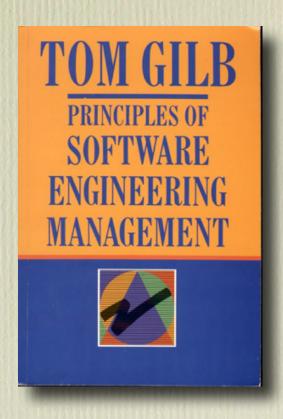
Speed



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and lots of material on www.Gilb.com Kai@Gilb.com



Thank you!

questions?

