

Lean Startup

by

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Compared to Agile, Scrum, XP, Evo

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Comparison

- **Lean Startup**
 - **SAME**
 - Quantified Objectives
 - Fast Frequent Iterations
 - Value Delivery to Stakeholders
 - Measurement & Learning
 - **DIFFERENT**
 - ? Next slide
- **Evo, CE, Planguage, Gilb**
 - **SAME**
 - Quantified Objectives
 - Fast Frequent Iterations
 - Value Delivery to Stakeholders
 - Measurement & Learning
 - **DIFFERENT**
 - ? Next slide

Environment Comparison

- Lean Startup
 - SAME
 - Quantified Objectives
 - Fast Frequent Iterations
 - Value Delivery to Stakeholders
 - Measurement & Learning
 - DIFFERENT
 - Objectives = Marketing Hypothesis
 - Like 30% adoption rate
 - *Measured* Changes/day can be 50
 - **Extreme** uncertainty about final product, and final 'customer' (stakeholders)
- Evo, CE, Planguage, Gilb
 - SAME
 - Quantified Objectives
 - Fast Frequent Iterations
 - Value Delivery to Stakeholders
 - Measurement & Learning
 - DIFFERENT
 - Objectives are
 - Long Range Values for Money (Qualities)
 - Pretty **clear and stable** stakeholders and product values are defined

Wealthfront Environment

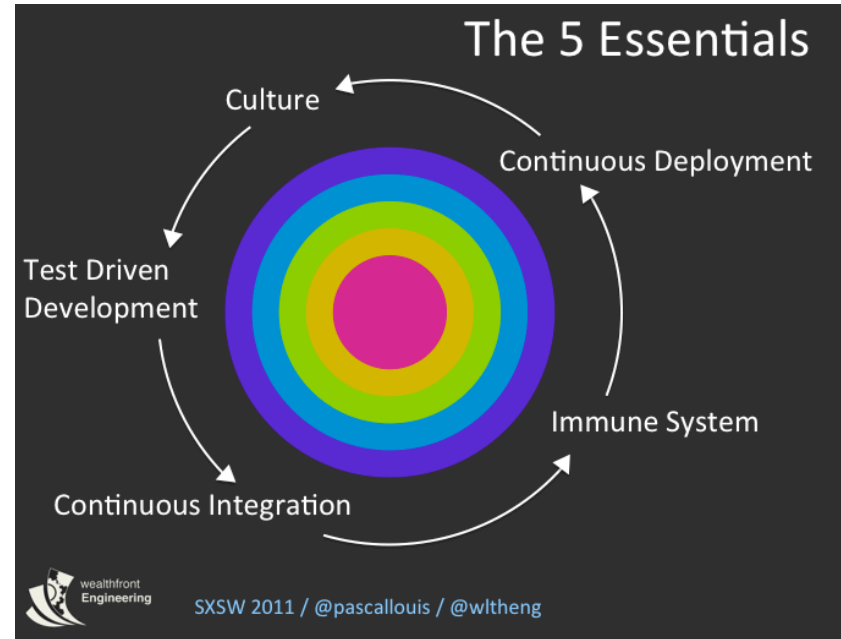
Quick Facts about Wealthfront

- Managing close to \$180,000,000*
- Processing over \$2,000,000/day
- Highly regulated
 - By the SEC, as a Registered Investment Advisor
 - By FINRA, as a Broker Dealer
 - Member SIPC
- We're a technology company
- No Ops, no QA team



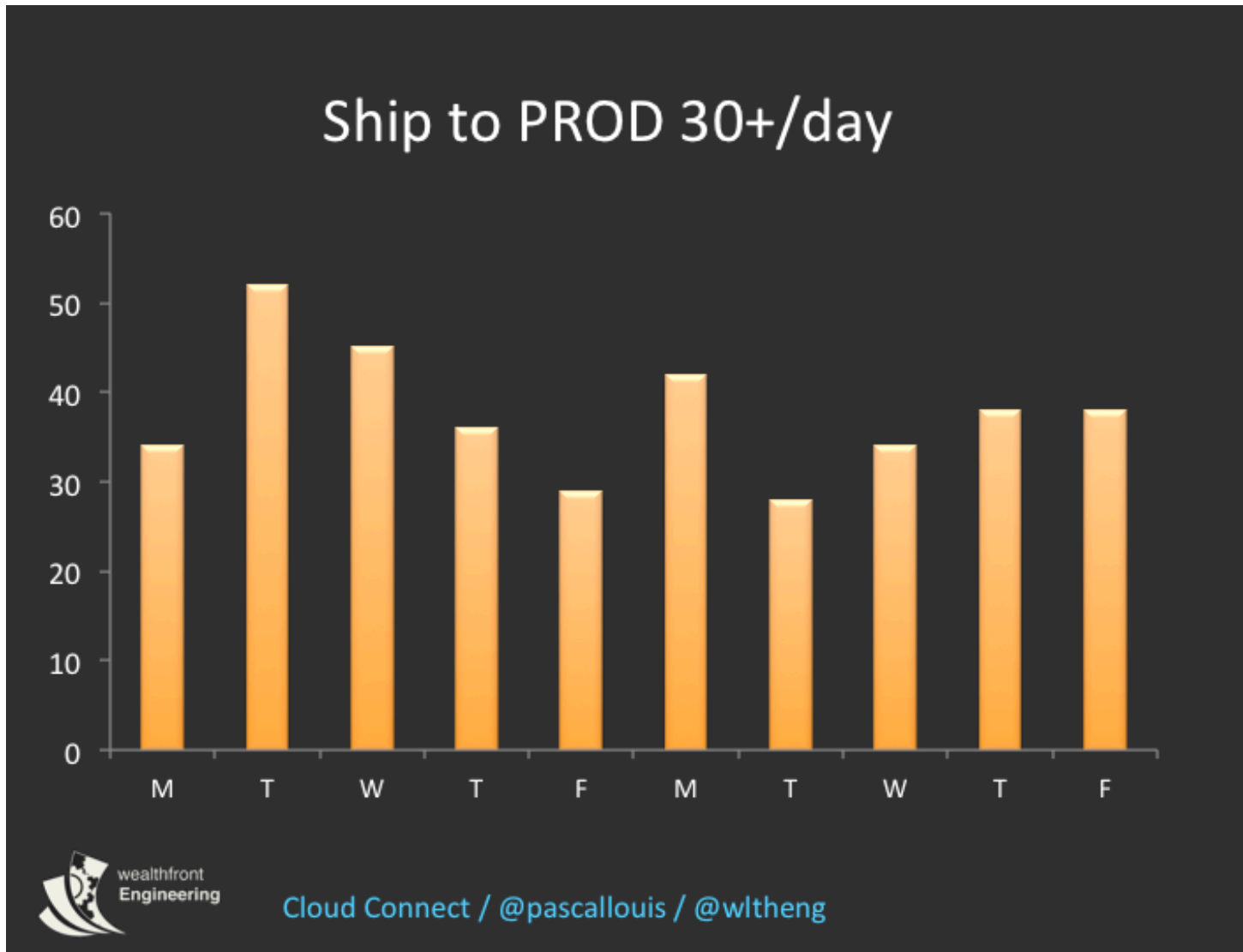
Cloud Connect / @pascallouis / @wltheng

* \$30 AUM, \$150 AUA

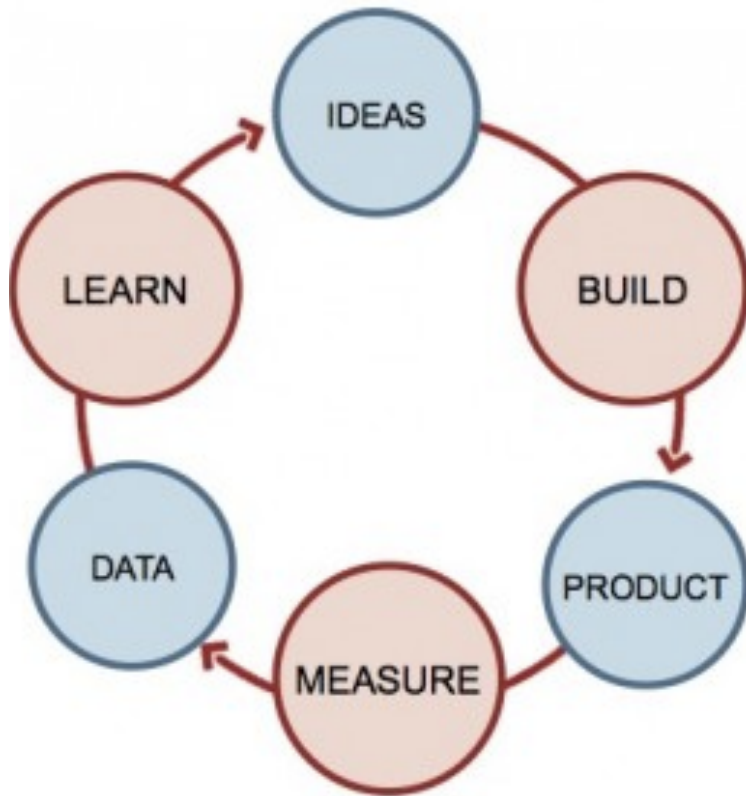


<http://eng.wealthfront.com/2011/03/lean-startup-stage-at-sxsw.html>

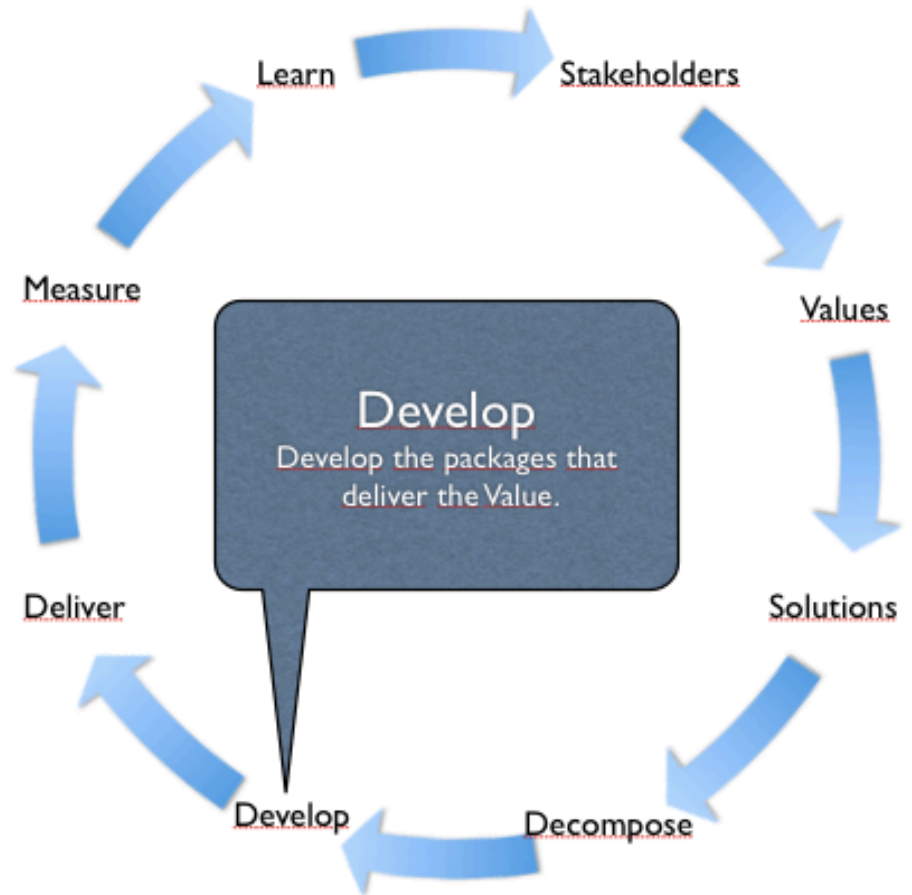
Shipping 30+ times a day (Wealthfront)



Lean Startup Cycle

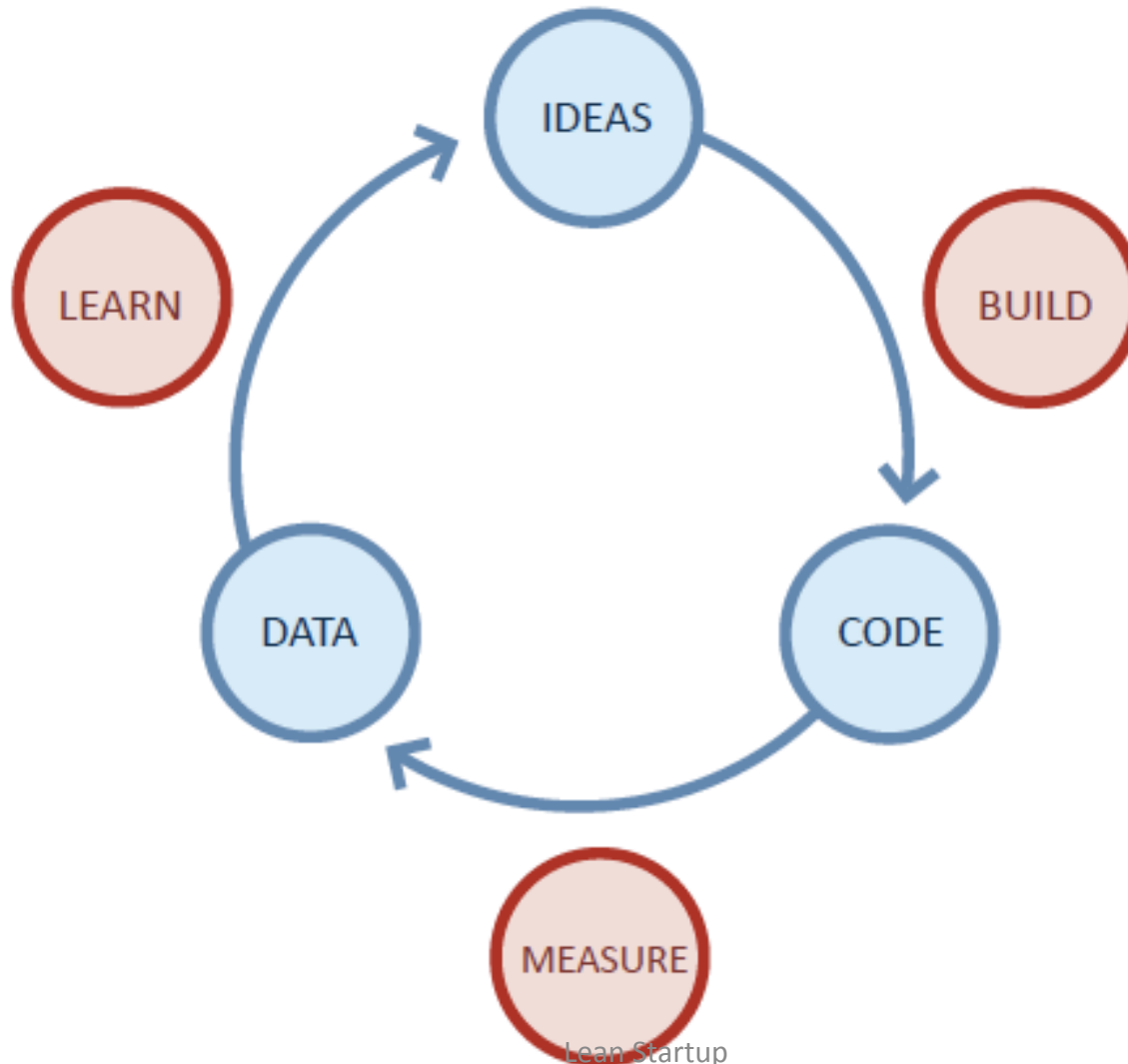


Evo Cycle

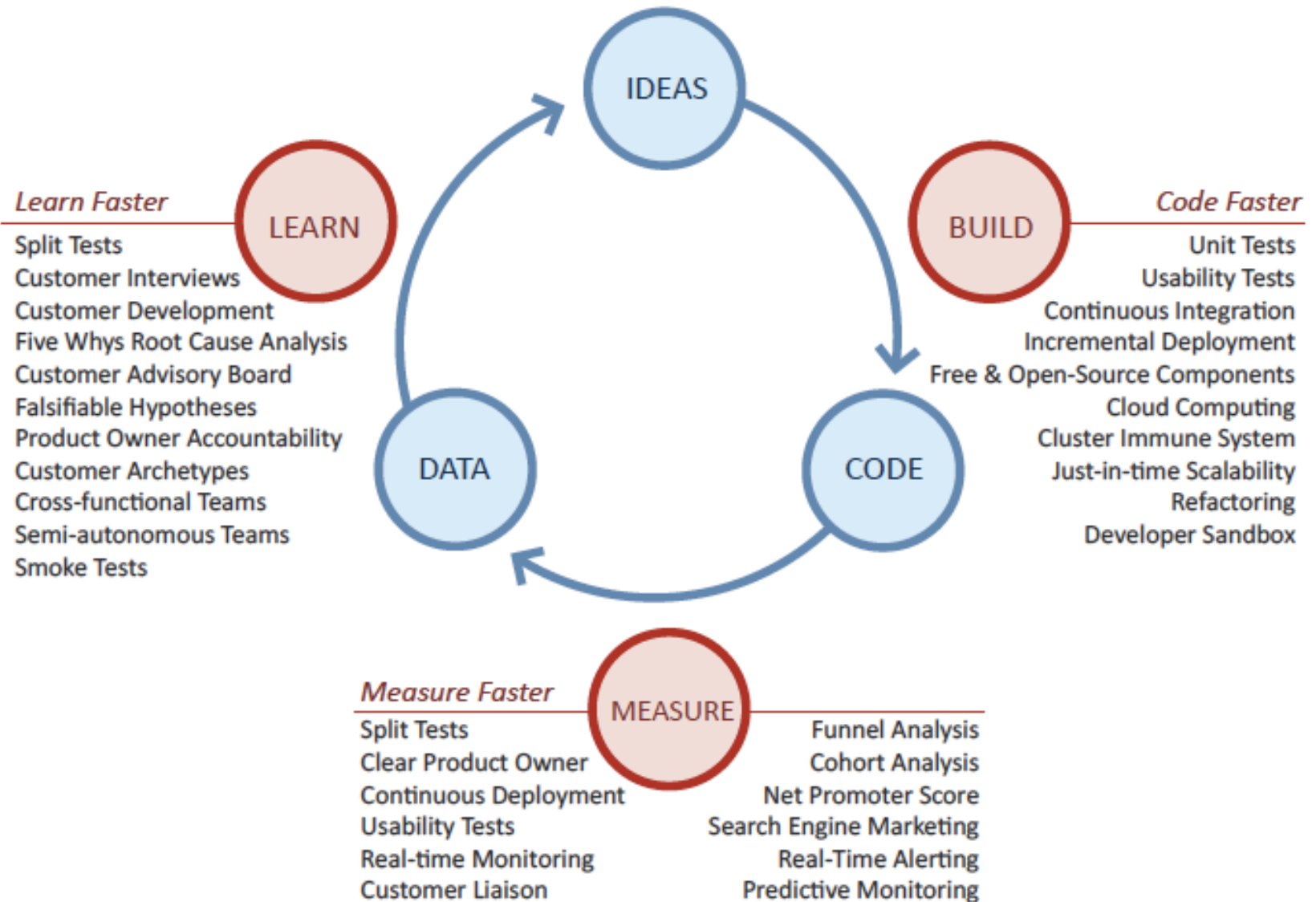


Lean Startup Loop

“Minimize Time through the loop”



There is Much More ...

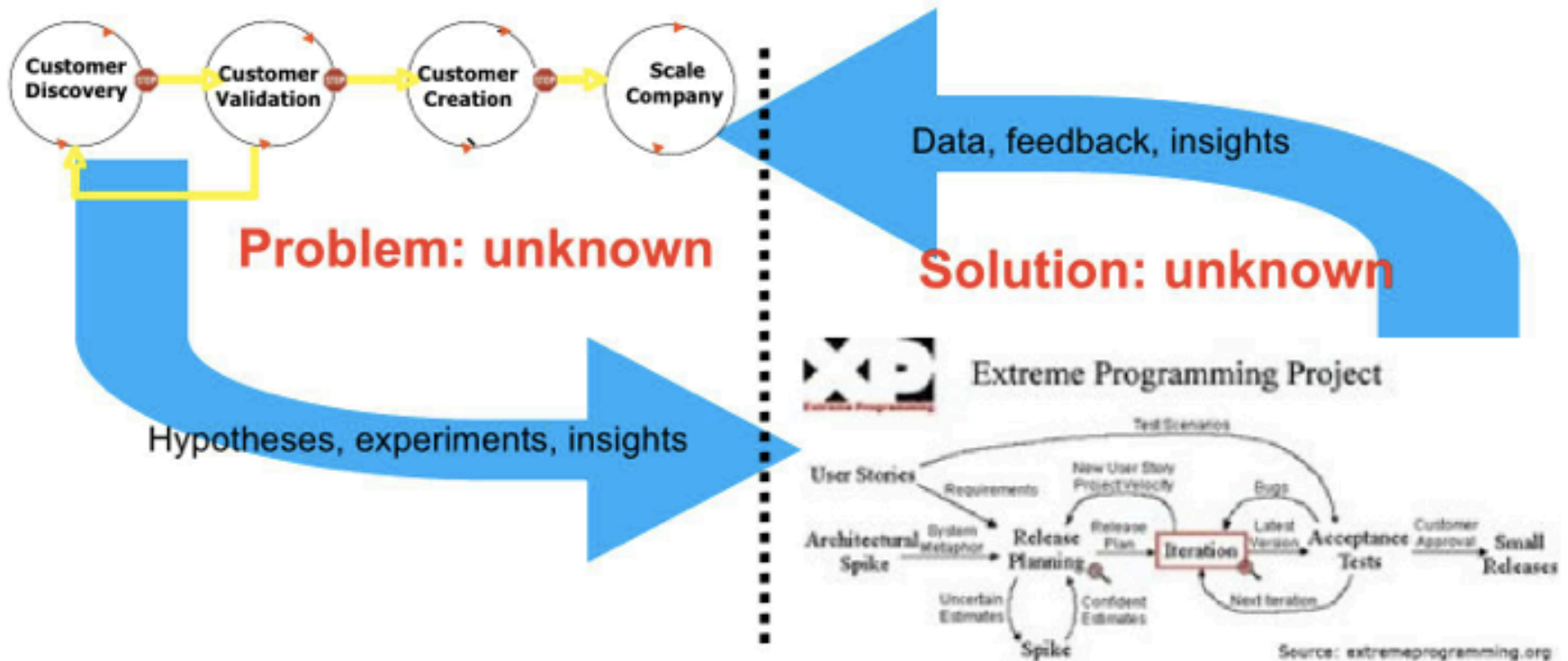


Lean Startup: High Unknowns

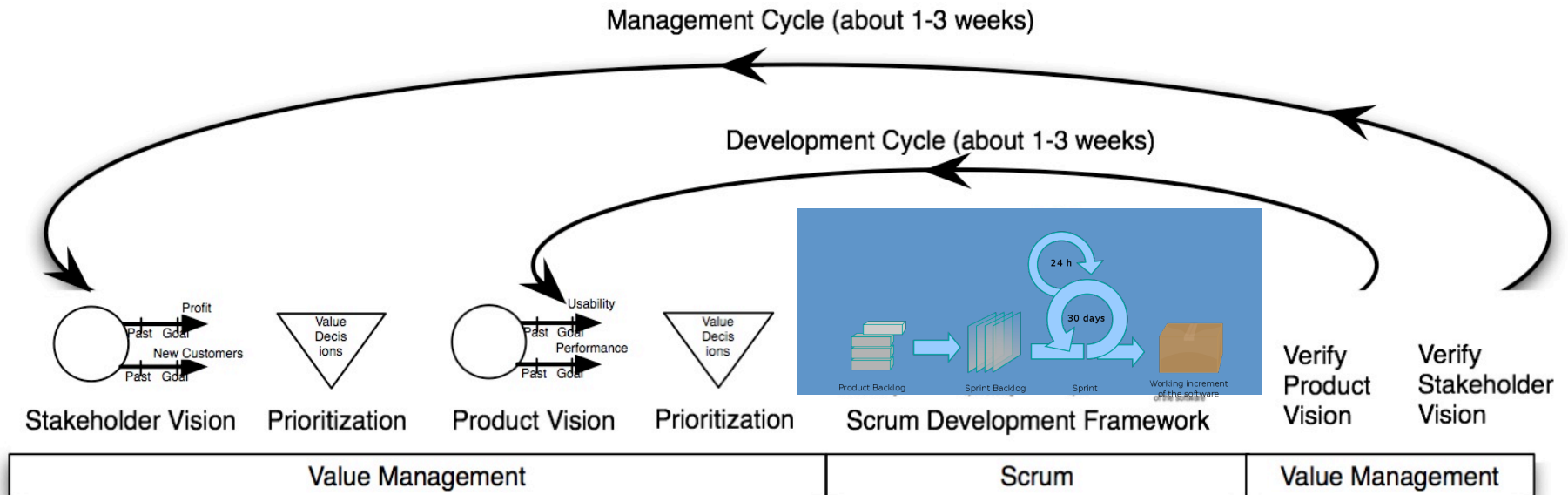
Product Development at Lean Startup

Assumes Customers and Markets are Unknown

Customer Development Engineering



Value Management (Gilb, Evo)



Value Decision Tables (Gilb, Evo)

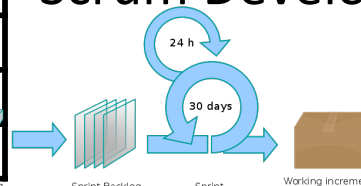
Business Goals	Stakeholder Value 1	Stakeholder Value 2
Business Value 1	-10%	40%
Business Value 2	50%	10%
Resources	20%	10%

Stakeholder Val.	Product Value 1	Product Value 2
Stakeholder Value 1	-10%	50 %
Stakeholder Value 2	10 %	10%
Resources	2 %	5 %

Product Values	Solution 1	Solution 2
Product Value 1	-10%	40%
Product Value 2	50%	80 %
Resources	1 %	2 %

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

Scrum Develops



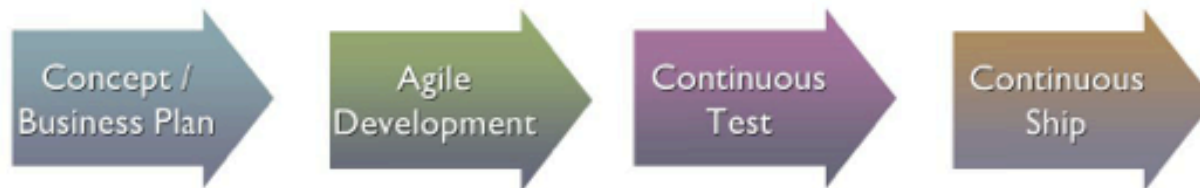
We measure improvements
Learn and Repeat

Parallel 'Customer' (Stakeholder) Development

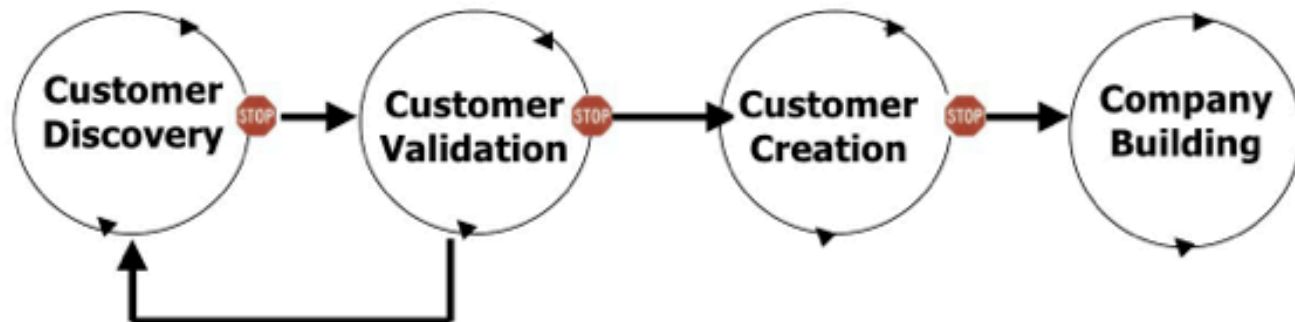
The Lean Startup

Customer Development Parallels Agile Development

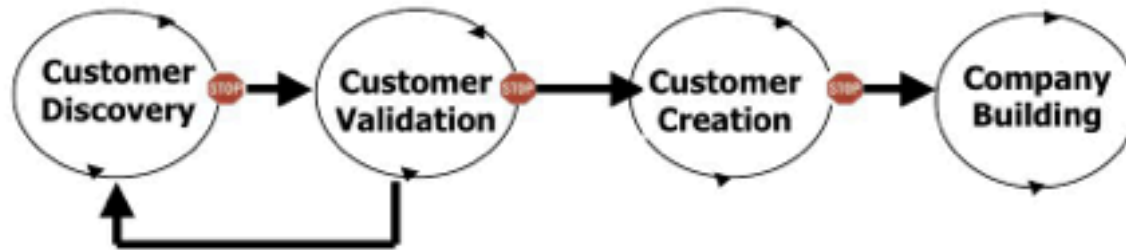
Agile Development



Customer Development



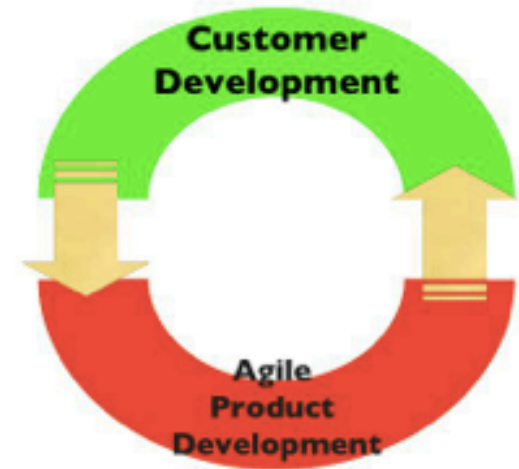
Customer (Stakeholder) Discovery



- Discovery
 - Test hypotheses I.e. problem and product concept
- Validation
 - Build a repeatable and scalable sales process
- Creation
 - Create end-user demand and fill the sales pipeline
- Building
 - Scale via relentless execution

Lean Startup Advantages

- Builds low-burn companies by design
 - Low cost market risk testing
- Organized around learning and discovery
- Right model for current conditions



The next wave of capital efficient startups

Method Comparison

- Lean Startup
- SAME METHOD
 - Stakeholder Focus
 - Value Focus
- DIFFERENT METHOD
 - Intense stakeholder & value exploration
 - Intense quantitative product effect hypothesis and measurement (daily)
- Gilb Methods: Evo, CE, Planguage, Value Delivery
- SAME METHOD
 - Stakeholder Focus
 - Value Focus
- DIFFERENT METHOD
 - Stakeholders mainly known, and formally identified, and correlated to values, but can be discovered as needed
 - Longer term quantified value objectives and weekly feedback

Comparison

- **Lean Startup**

- Focus on Market, Customers, Product Qualities (**Value** for Stakeholders)

- **Agile Scrum, XP**

- Focus on reliable productive delivery of user stories, functions, designs (on **coding**)

Links for Lean Startup

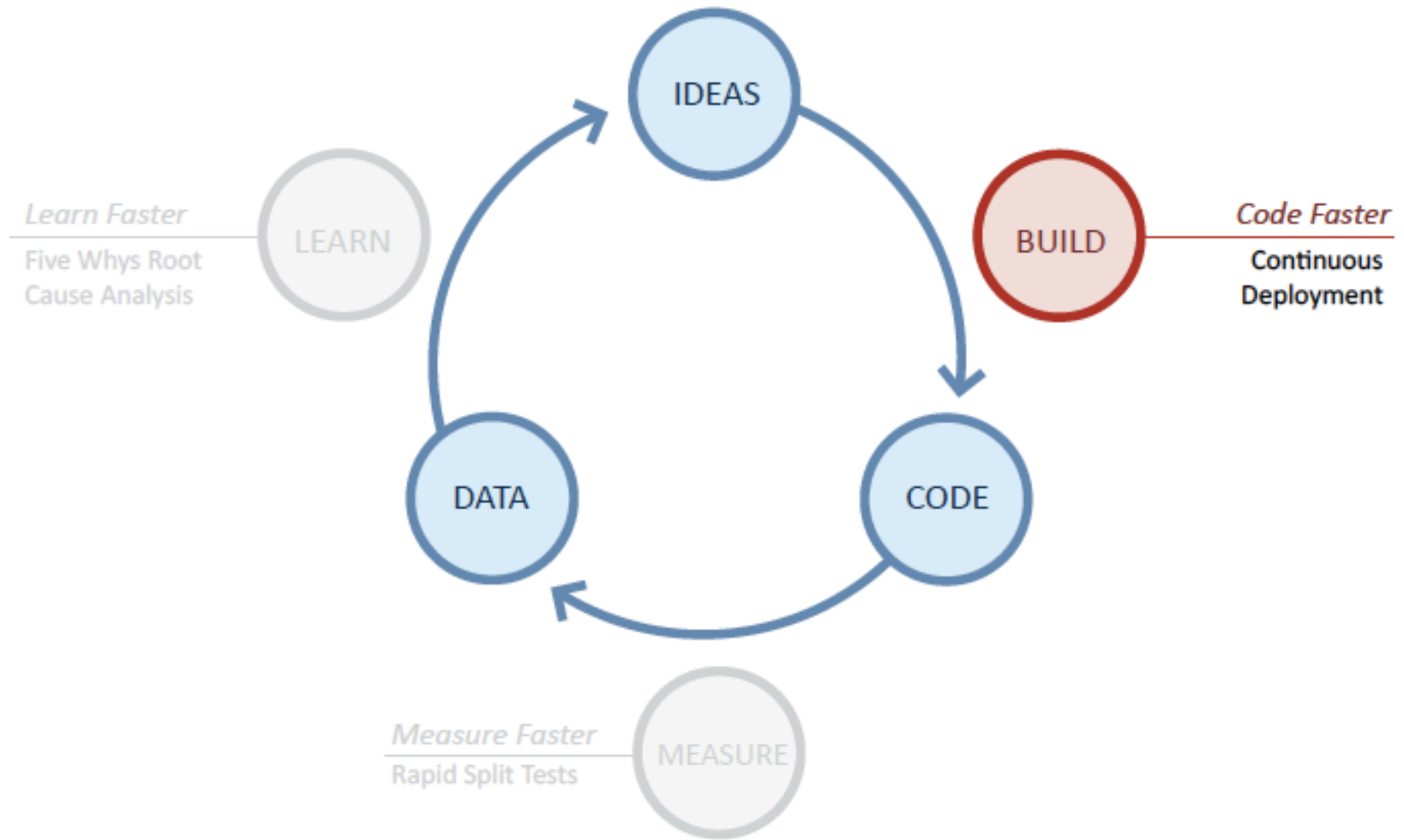
- www.theleanstartup.com/
 - The official website of all things **Lean Startup** presented by Eric Ries.
- www.slideshare.net/venturehacks/the-lean-startup-2
 - Eric Ries' presentation on **lean startups**. From Steve Blank's Customer Development course at Berkeley. Learn more and hear the audio at <http://bit.ly/3qsvJ>.
- www.startuplessonslearned.com/2008/09/lean-startup.html
 - 8 Sep 2008 – (Update April, 2011: In September, 2008 I wrote the following post in which I (ER) published my thoughts on the term "**lean startup**" for the first time
- <http://eng.wealthfront.com/2011/03/lean-startup-stage-at-sxsw.html>
- <http://www.slideshare.net/venturehacks/the-lean-startup-2>
 - [Slides by Steven Blank and Eric Ries. "The Lean Startup, Low Burn by Design , not Crisis"](#)
- <http://www.slideshare.net/startuplessonslearned/2009-05-01-how-to-build-a-lean-startup-step-by-step/download>

Links for Other Methods

- The Inmates are running the asylum, Construx Summit talk Oct 25 2011 Seattle
 - Contains considerable 'Bring' Case slides
 - www.gilb.com/tiki-download_file.php?fileId=488
- Value Management (Evo) with Scrum development ('Bring' Case), March 2010 English Version , Kai Gilb
 - www.gilb.com/tiki-download_file.php?fileId=277

Extra Slides for More Detail

Continuous Deployment



Cluster Immune System

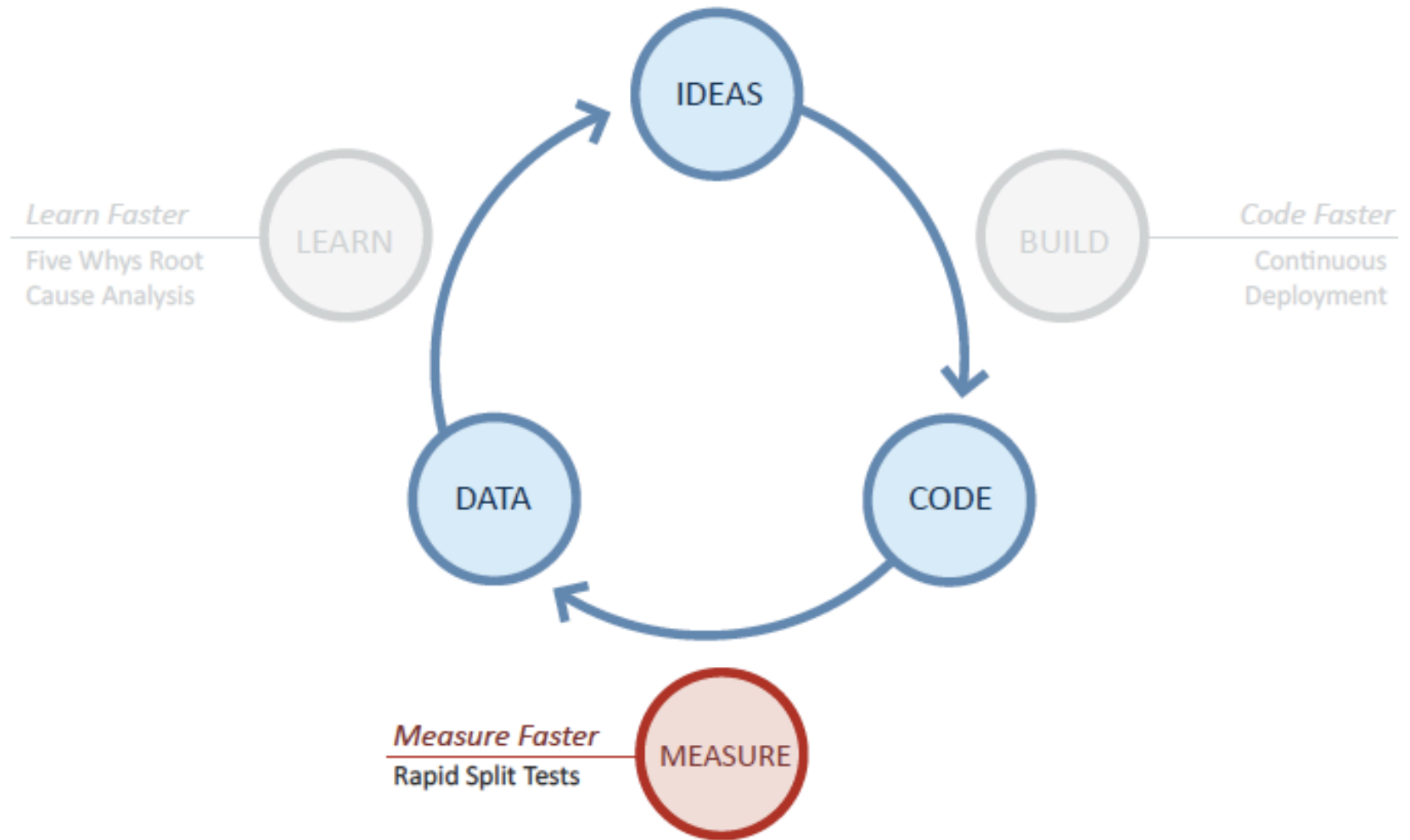
What it looks like to ship one piece of code to production:

- Run tests locally (SimpleTest, Selenium)
 - Everyone has a complete sandbox
- Continuous Integration Server (BuildBot)
 - All tests must pass or “shut down the line”
 - Automatic feedback if the team is going too fast
- Incremental deploy
 - Monitor cluster and business metrics in real-time
 - Reject changes that move metrics out-of-bounds
- Alerting & Predictive monitoring (Nagios)
 - Monitor all metrics that stakeholders care about
 - If any metric goes out-of-bounds, wake somebody up
 - Use historical trends to predict acceptable bounds

When customers see a failure:

- Fix the problem for customers
- Improve your defenses at each level

Measure Faster: Rapid Split Tests



Split-testing all the time

- A/B testing is key to validating your hypotheses
- Has to be simple enough for everyone to use and understand it
- Make creating a split-test no more than *one line of code*:

```
if( setup_experiment(...) == "control" ) {  
    // do it the old way  
} else {  
    // do it the new way  
}
```

Metrics Qualities

The AAA's of Metrics

- Actionable
- Accessible
- Auditable

Measure the macro

- Always look at cohort-based metrics over time
- Split-test the small, measure the large

	Control Group (A)	Experiment (B)
# Registered	1025	1099
Downloads	755 (73%)	733 (67%)
Active days 0-1	600 (58%)	650 (59%)
Active days 1-3	500 (48%)	545 (49%)
Active days 3-10	300 (29%)	330 (30%)
Active days 10-30	250 (24%)	290 (26%)
Total Revenue	\$3210.50	\$3450.10
RPU	\$3.13	\$3.14

5 Whys

