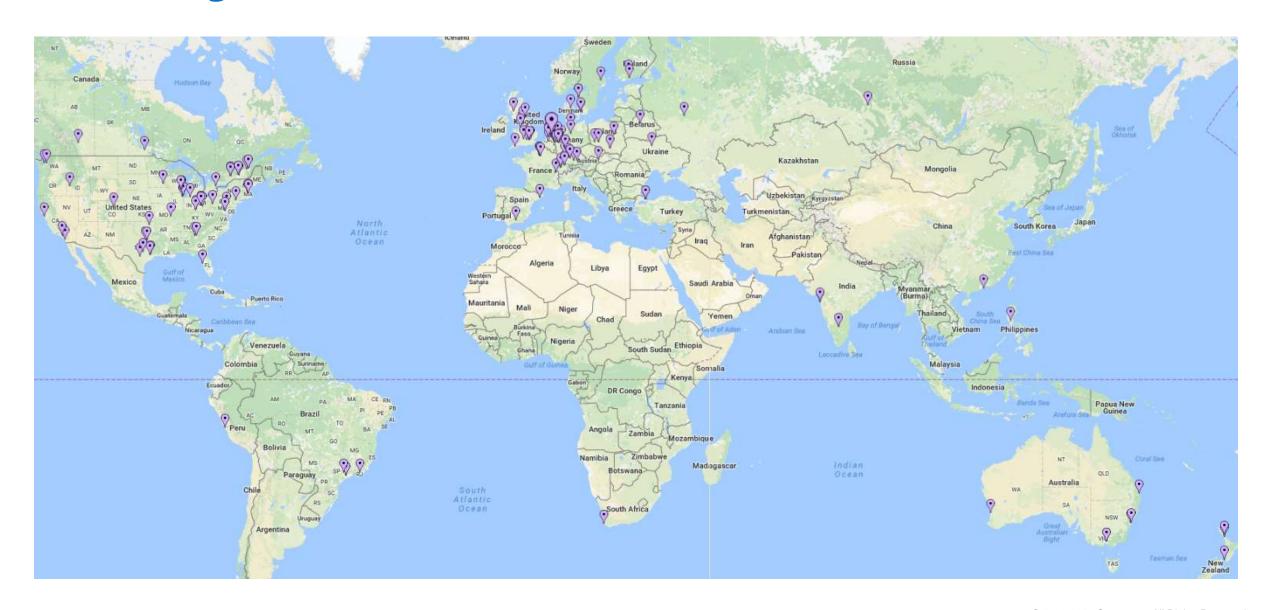




### **Scrum.org Trainers and Consultants**



#### The Home of Scrum

Agile Teams Use Scrum

1,430,000+ Open Assessments Taken

+12M Using Scrum Daily





**ONE Scrum Guide** 



182 Professional Scrum Trainers



Practiced Everywhere



**75,000+** Students Taught



# For the past decade, organizations have been rushing to Agile and Scrum





Inspired by © Tomasz Włodarek.

# scrum-pede

- Sudden frenzied rush of (panic–stricken) companies to do Scrum because they want to be agile, too.
- 2. To flee in a headlong rush to scaling Scrum (or something that looks like it) because they need more software, now.

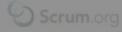


# "We're going Agile!"

It starts simply...

An executive becomes convinced that Agile is a good thing... why not do it everywhere?

A decree is annouced: "Everyone will be Agile by the end of the year..."





# Traditional organizations love plans

- ... and they often want to plan their "Agile transformation"
- ... with a kind of "military precision"
  - »X number of people to be trained
  - »Y number of teams, each with coaches, Product Owners and Scrum Masters
  - »All marching toward the goal of "adopting Agile"
  - »With regular milestones at which they will measure progress
  - »Where success = "we are on plan"

# What could possibly go wrong?



"Are we Agile yet?"

The executive comes back and says, "Are we more agile? Are we better?

Has my investment paid off? Is it worth it?"

What results have you been tracking?



# What do you currently track as measures of success?

If you tell the truth, you don't have to remember anything. – Mark Twain



#### In Water Scrum Fall....

#### AGILE METHODS AND PRACTICES

#### Epic Estimation Unit of Measure

When conducting epic estimation, more than half of respondents said they used a point system.

# "What results are you reporting?" SAME NUMBERS, DIFFERENT DAY

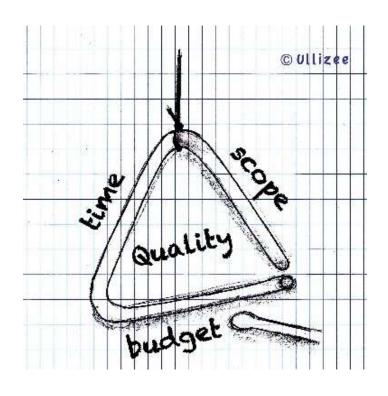






2017 VersionOne State of Agile Survey

# IT is typically managed as a cost center



Where success = f {Planned\_Time, Predicted\_Scope, Allocated\_Budget}



# Agile stalls when goals aren't aligned

**Traditional** 

Maximizing efficiency of resource utilization

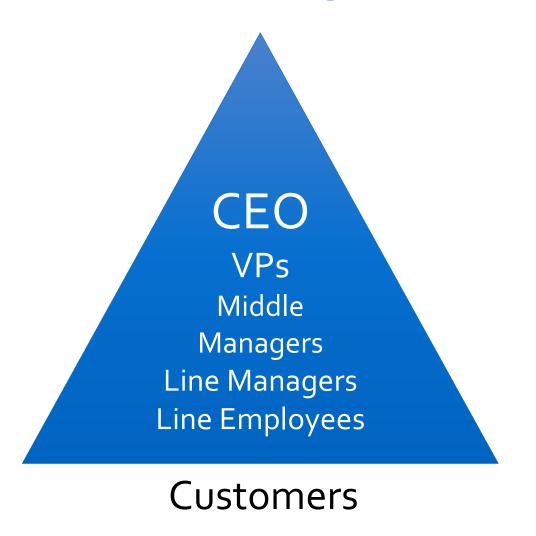
Agile

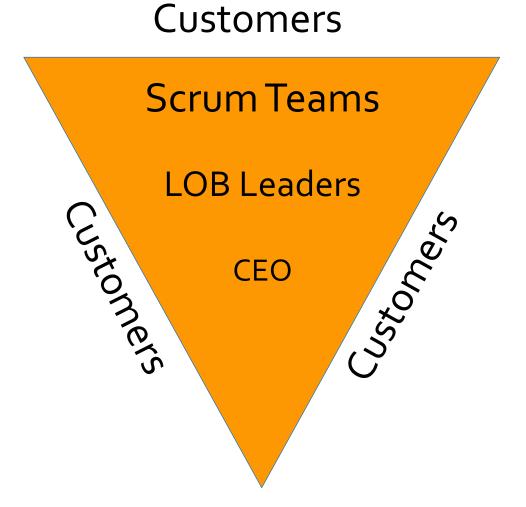
Maximizing learning and innovation

Agility Isn't About Efficiency; Agility Is About Effectiveness



### The Traditional Organization The Modern Digital Organization







# The measures that you track and manage. Are there any incentives around them?

"Companies that reward firefighters breed arsonists."



# What's really driving agile adoption?

Custome needs char

Frequent adaptation essentia





# A big risk: some requirements are wrong, but which ones?

"80% of the time we are wrong about what a customer wants." (Kaushik 2006)

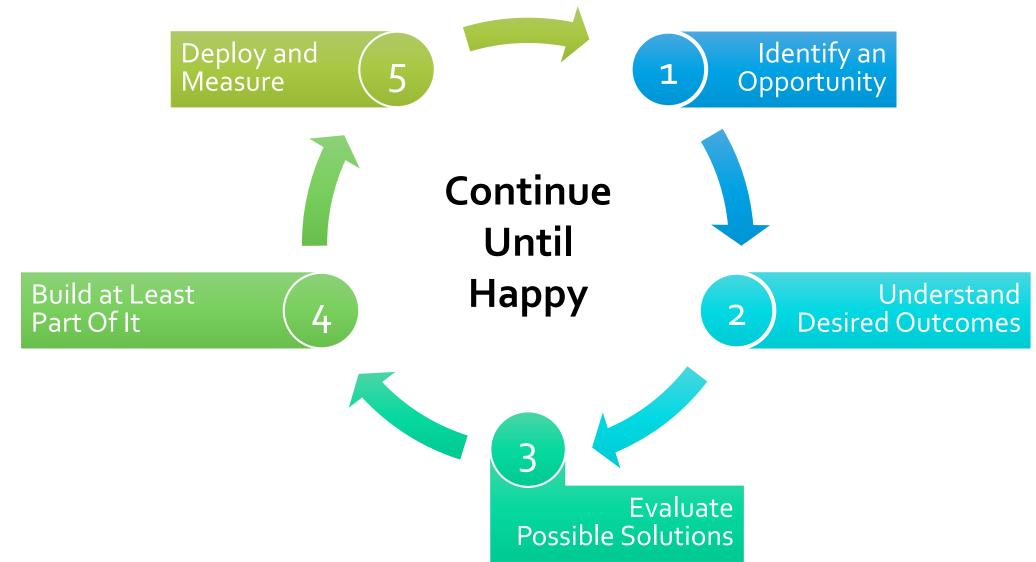
"It's been humbling to realize how rare it is for [features] to succeed on the first attempt."
(McKinley 2013)

"Only one third of the ideas tested on the Experimentation Platform at Microsoft improved the metric(s) they were designed to improve (Kohavi, Crook and Longbotham 2009)."

"at Google, only about 10 percent of these [controlled experiments, were] leading to business changes." (Manzi 2012)

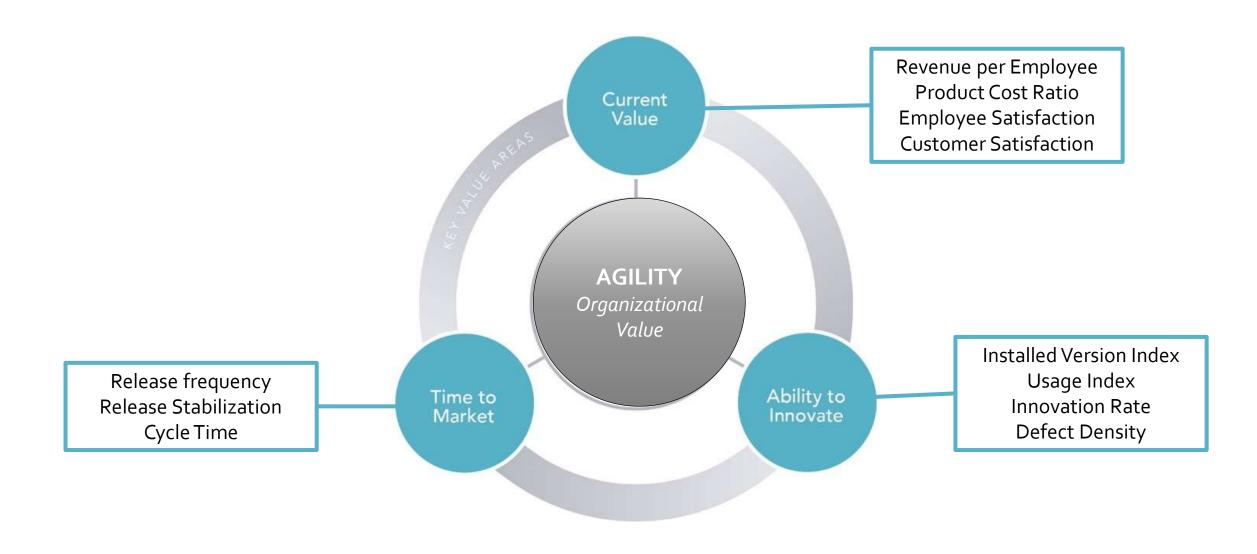


### An Empirical Approach - Inspect and Adapt (Transparency)





#### Measure Outcomes. Measure Direct Evidence.





# How do you define value? What is value?

Price is what you pay. Value is what you get.
- Warren Buffett



#### Value Is...

#### **FOR-PROFIT ORGANIZATIONS**

The benefit to the organization, represented in money terms, that results from the use of a product or service.

#### **NOT-FOR-PROFIT ORGANIZATIONS**

The benefit to society, not necessarily represented in money terms, that results from the use of a product or service.



### Case Study: Publicly Trade Media Technology Company

- CEO says, "We need to increase productivity and increase the ability to release innovations to the market more frequently!"
- SVP says, "Let's try agile, How do Lquide our investment?" Value is the measure of success.
- Introducing agile techniques to software development teams.

How much value has your product delivered?

How do you know if a feature or enhancement is creating value?

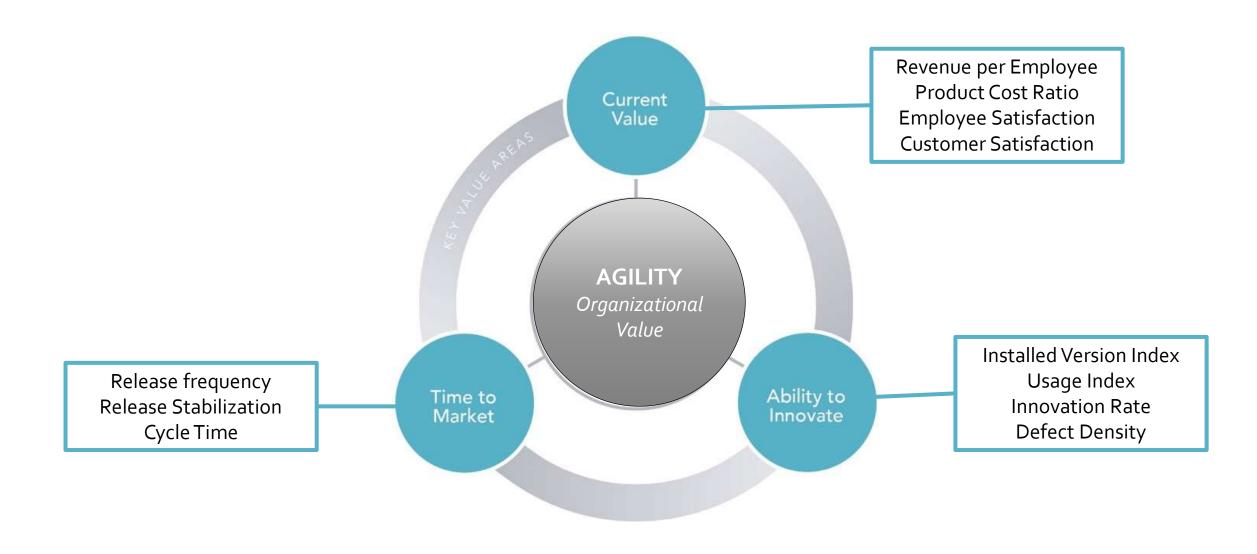
How much value is your organization delivering?

Is it possible to create negative value?

Release Stabilization Cycle Time



#### Measure Outcomes. Measure Direct Evidence.





# Evidence-Based Key Value Metrics (Current Value)

Metric	Definition	Definition, assumptions and source at <client name=""></client>
Revenue per Employee	Gross Revenue / #employees  This varies significantly by industry. Since software is a one time investment – many time used capability, the ratio is a key competitive indicator within an industry segment.	Revenue: Financial Systems  Number of employees.
Product Cost Ratio	Total expenses and costs for the system(s) being measured, including operational costs compared to revenue  This reflects all expenses in the organization that develops, sustains, provides services, markets, sells, and administers the product or system.	Cost of product domains: Financial Systems
Employee Satisfaction	% of ratings to the positive side of the middle value of the last survey  Engaged employees that know how to maintain, sustain and enhance are one of the most significant assets of an organization.	Gathered through survey amongst all employees Frequency: Ad hoc Targeted: IT employees
Customer Satisfaction	% of ratings to the positive side of the middle value of the last survey  Customer satisfaction is a reflection of sound management, solid software, and creative, fulfilled employees. Satisfied customers spread the word, lowering marketing and sales costs and contribute to growth.	Data based on existing research results



# **Evidence-Based Key Value Metrics (Time to Market)**

Metric	Definition	Definition and source at <client name=""></client>
Release Frequency	Time between significant functional releases, not including maintenance, or minor, releases.  This reflects the time needed to satisfy the customer based with new, competitive products.	Releases into main code branch
Release Stabilization	Time to go from code complete to actual release to customers  This reflects the impact of poor development practices and underlying design and code base. Stabilization is a drag on competition that grows with time.	Integration testing after release to main branch
Cycle Time	The number of weeks required to go from conceiving it to delivering one small increment of new functionality (not a bug fix) to customers  This reflects the time (including stabilization) to satisfy a key set of customers or to respond to a market opportunity competitively.	Average time of top 20 PBI

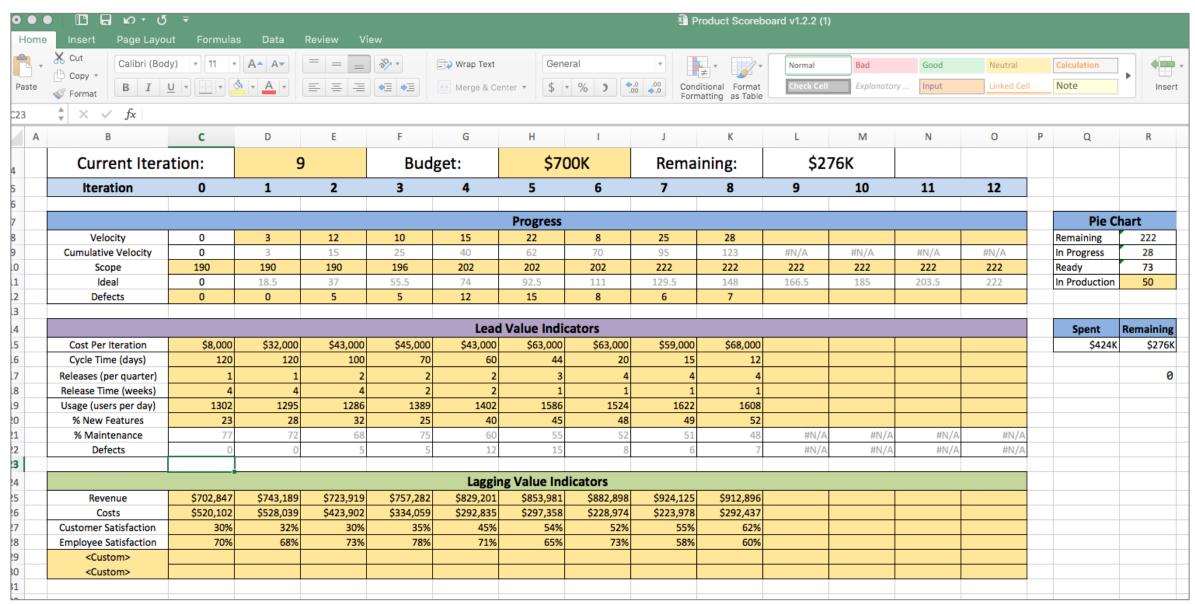


# Evidence-Based Key Value Metrics (Ability to Innovate)

Metric	Definition	Definition and source at <client name=""></client>
Installed Version	% of last 2 versions against total number of versions being maintained  This metric can reflect the difficulty customers face installing a new release, the relatively low value of new releases, or even the number of customers that are evaluating alternatives.	Cloud system. Mandatory upgrade for all users.
Usage Index	% of product used less than 50% of time  This metrics can reflect a product that is burdensome and difficult to use, as well as excess software that must be sustained even though it is rarely used.	Unable to measure at this time.
Innovation Rate	% of total budget spent on new functionality and new capabilities of the software  This reflects the growth of technical debt caused by poorly designed and developed software. The budget is progressively consumed keeping the old software alive.	% of budget spent on system rewrite which will add significant new functionality for customers
Defects Change	% change in defects since last measurement  This may reflect increasingly poor quality software, leading to greater resources to maintain it and potential loss of customers.	# detected tracking system



#### Just Get Started. Start small.





#### Capture value metrics in addition to other metrics that help to forecast



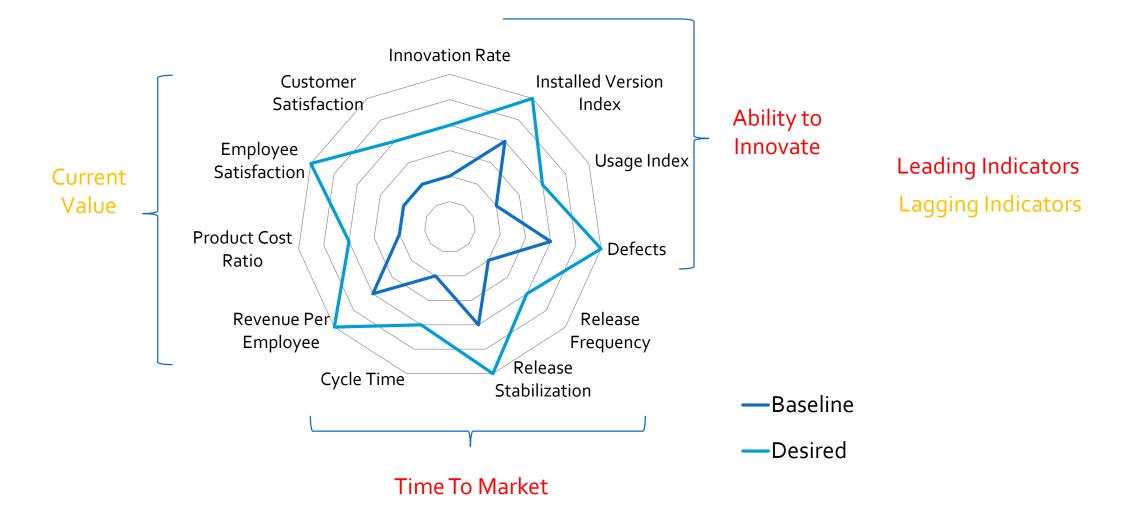


# Which of your measures are value-based?

The main difference between a cat and a lie is that a cat only has nine lives. – Mark Twain



#### Use Evidence-Based Management to identify areas for improvement





#### **Beware of HiPPOs**

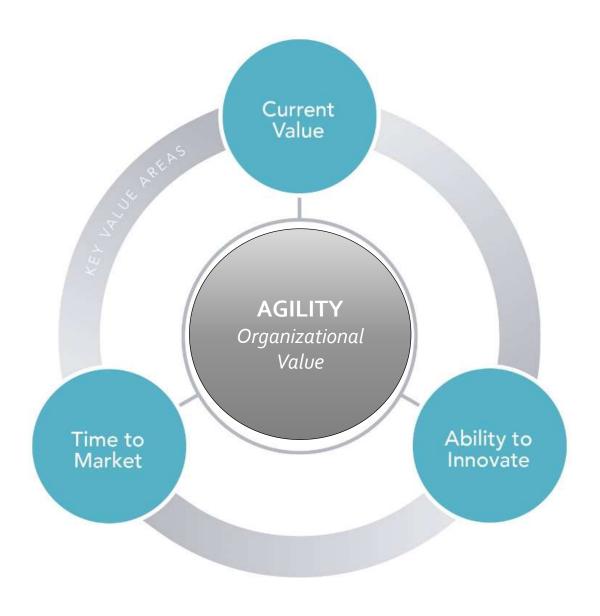


https://s-media-cache-ako.pinimg.com/originals/67/f3/o5/67f3o53febdf5o48ef696e87537c9e55.jpg



IT is an asset to business.

Use EBM to measure outcomes to identify value and areas to improve.





# Software has moved far from being a business expense

- Measure outcomes not just activity, and inspect holistically
- Value is THE measure of success, and the baseline is \$/
- The three areas of EBM are current value, time to market and the ability to innovate.
- The customer isn't always right but they are the driving force
- Tracking just cost, time, scope, activity and all requirements upfront is traditional thinking and a flawed model for agile
- Bottom-up intelligence is vital for growing, sustaining and improving agility
- Value based metrics are even more important as an organization scales agile

# Who will be accountable in your organization?



#### Thank You!

# scrum-on

/skr^m'on/

Explore the art of the possible.



Patricia Kong | patricia.kong@scrum.org | @pmoonk88



# Or Keep Trying The Alternative of Predictive Management

