

Can We Assess an Organization's Agile Readiness?

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Software Engineering,
Creating Tomorrow's Technology
and Employment with D.N.A
(Devops aNd Agile)

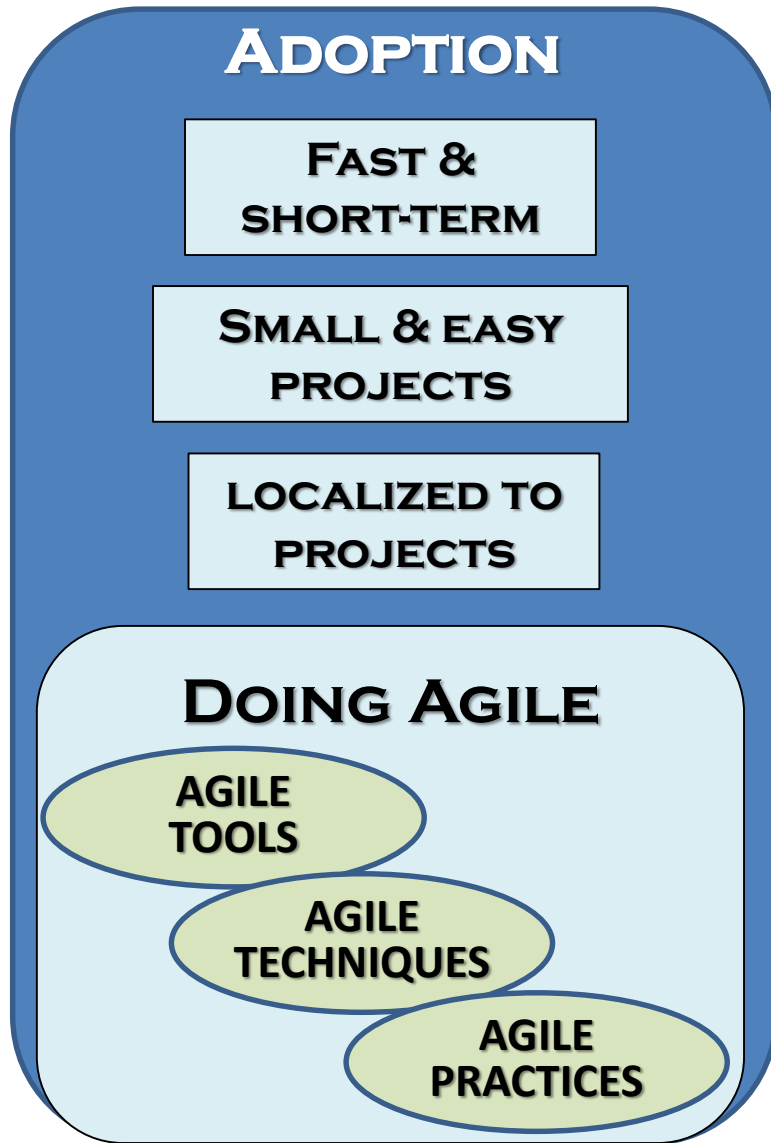
25th SW Quality Insight

Scope of the Talk

- **Adoption and Transformation**
- **Guru vs Evidence**
- **The Top 6 Questions**
- **Agile Readiness Tools**
- **Conclusions**

Adoption & Transformation

Readiness for Adoption or Transformation?



Doing Agile - Agile Tools

12th State of Agile Survey, 2018

Kanban Board	74%
Bug Tracker	72%
Taskboard	71%
Agile Project Management tool	67%
Spreadsheet	65%
Wiki	62%
Automated Build tool	60%
Unit Test tool	57%
Continuous Integration tool	52%

Doing Agile - Agile Techniques

12th State of Agile Survey, 2018

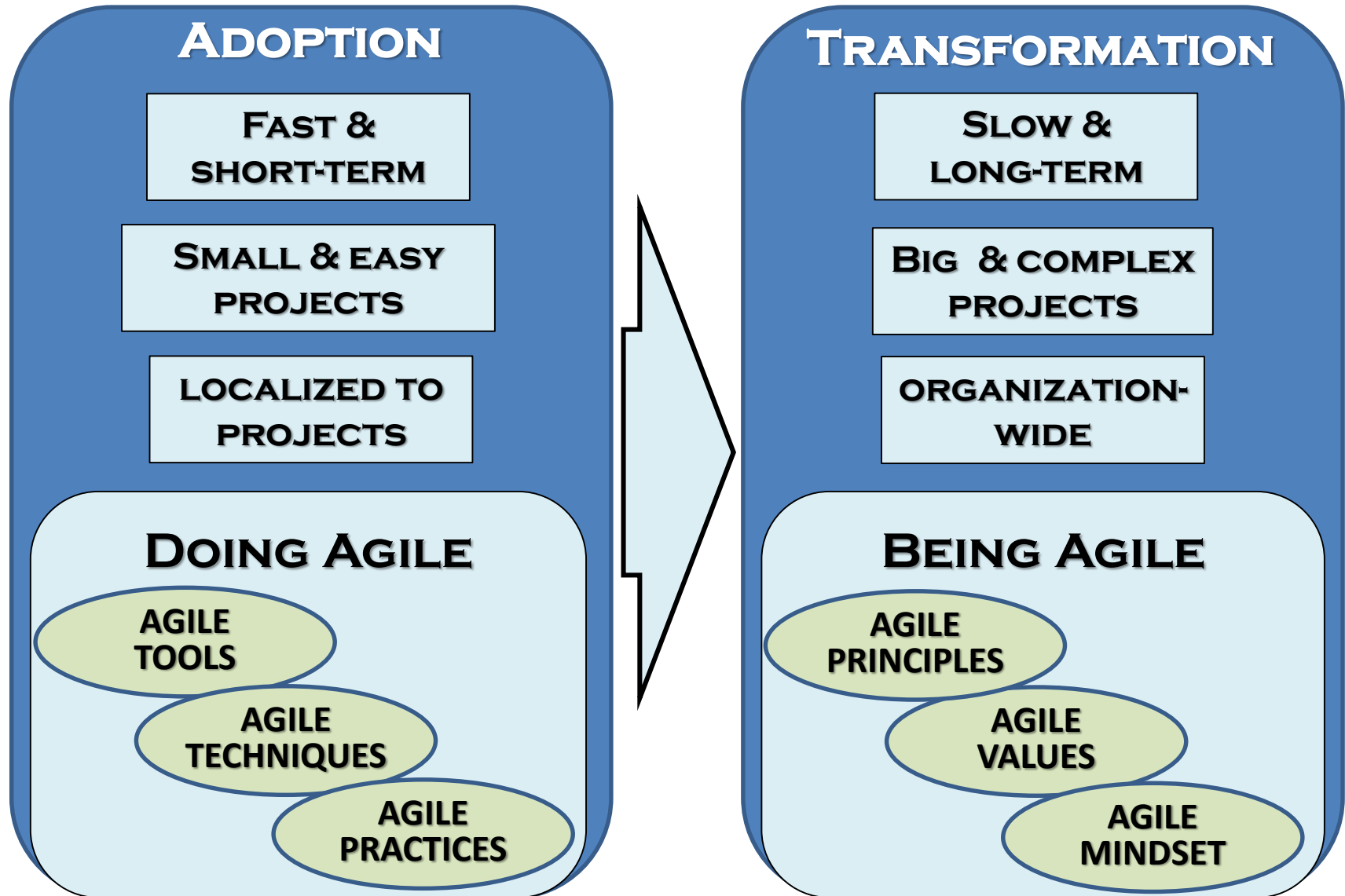
Daily Stand-Up	90%
Sprint/Iteration Planning	88%
Retrospectives	85%
Sprint/Iteration Review	80%
Short Iterations	69%
Release Planning	67%
Planning Poker / Team Estimation	65%
Kanban	65%
Dedicated Product Owner	63%

Doing Agile - Agile Practices

12th State of Agile Survey, 2018

Unit Testing	75%
Coding Standards	64%
Continuous Integration	54%
Refactoring	45%
Continuous Deployment	37%
Pair Programming	36%
Test-Driven Development (TDD)	35%
Automated Acceptance Testing	32%

Readiness for Adoption or Transformation?



Being Agile

- **12 Agile Principles**
 - See Agile Manifesto
- **Agile Values**
 - Trust, Respect & Courage
- **Agile Mindset**
 - Being Positive
 - Embracing Failure
 - User-Centric
 - Team-Driven
 - Expecting to Improve
 - Adaptability

Guru vs Evidence

Agile Guru Approach

Ready
for
Agile?



yes



no



it depends



Evidence-Based Approach

Ready
for
Agile?

Causes of Agile Failure

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Minimize

Headlines Questions

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Address

Challenges when Adopting Agile

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Challenges when Adopting Agile

12th State of Agile Survey, 2018

Organizational culture at odds with agile values	53%
Organizational resistance to change	46%
Inadequate management support and sponsorship	42%
Lack of skill / experience with agile methods	41%
Insufficient training and education	35%
Lack of business/customer availability	31%
Pervasiveness of traditional development methods	30%
Minimal collaboration and data sharing	21%
Regulatory compliance or government issues	14%

The State Of Agile (Forrester, 2017)

- **50% claim that culture and behaviour are still the top impediment to agile adoption**
- **44% say that their firms lack skilled Product Owners from the business**
- **30% consider the lack of executive leadership on agile transformation to be a barrier**

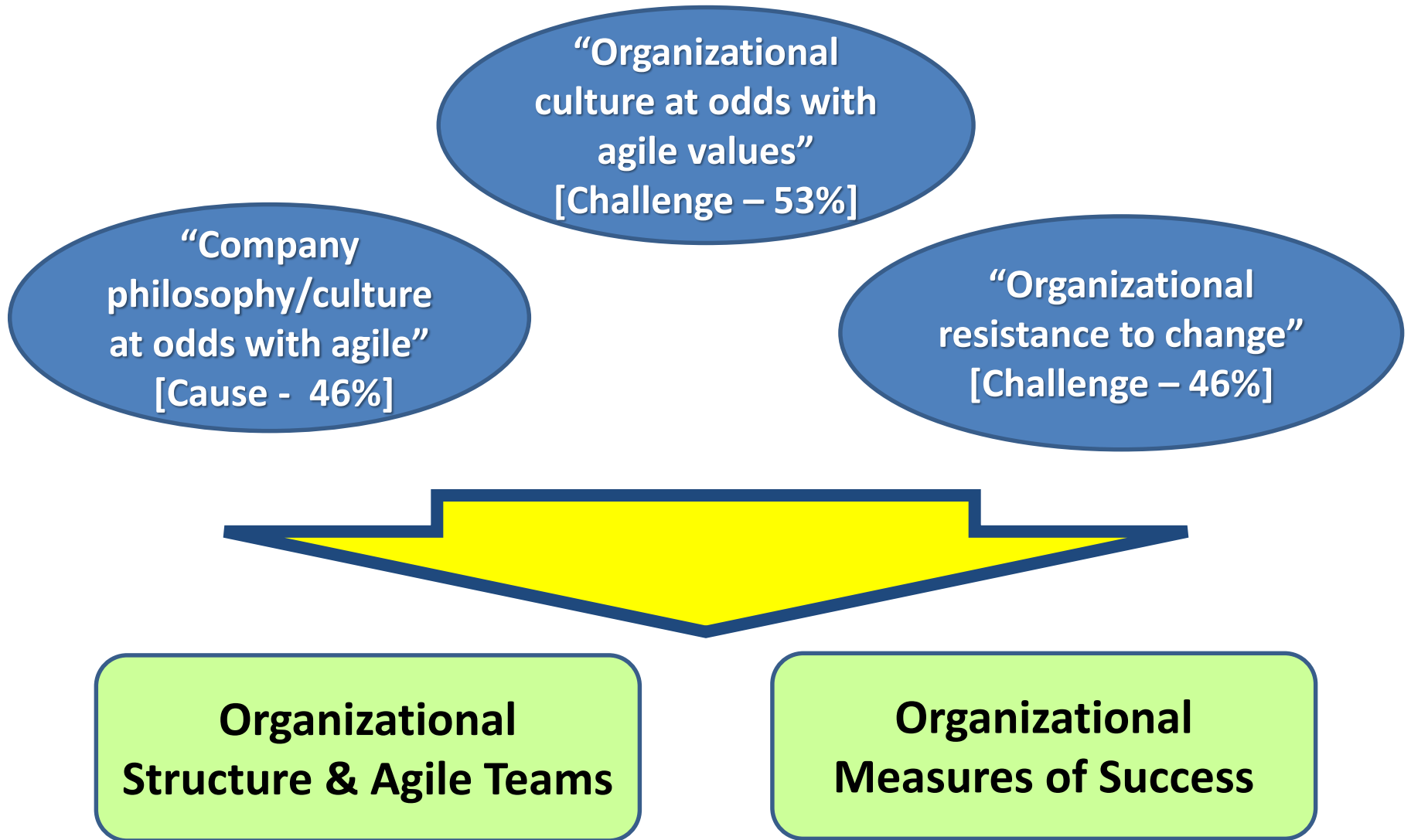
Causes of Failed Agile Projects

10th State of Agile Survey, 2016

Company philosophy/culture at odds with agile	46%
Lack of experience with agile methods	41%
Lack of management support	38%
Lack of support for cultural transition	38%
Inconsistent agile practices and processes	38%
External pressure to follow a waterfall life cycle	36%
Ineffective management collaboration	34%
Organizational or communications problem	30%

***The Big Questions -
Organizational Issues***

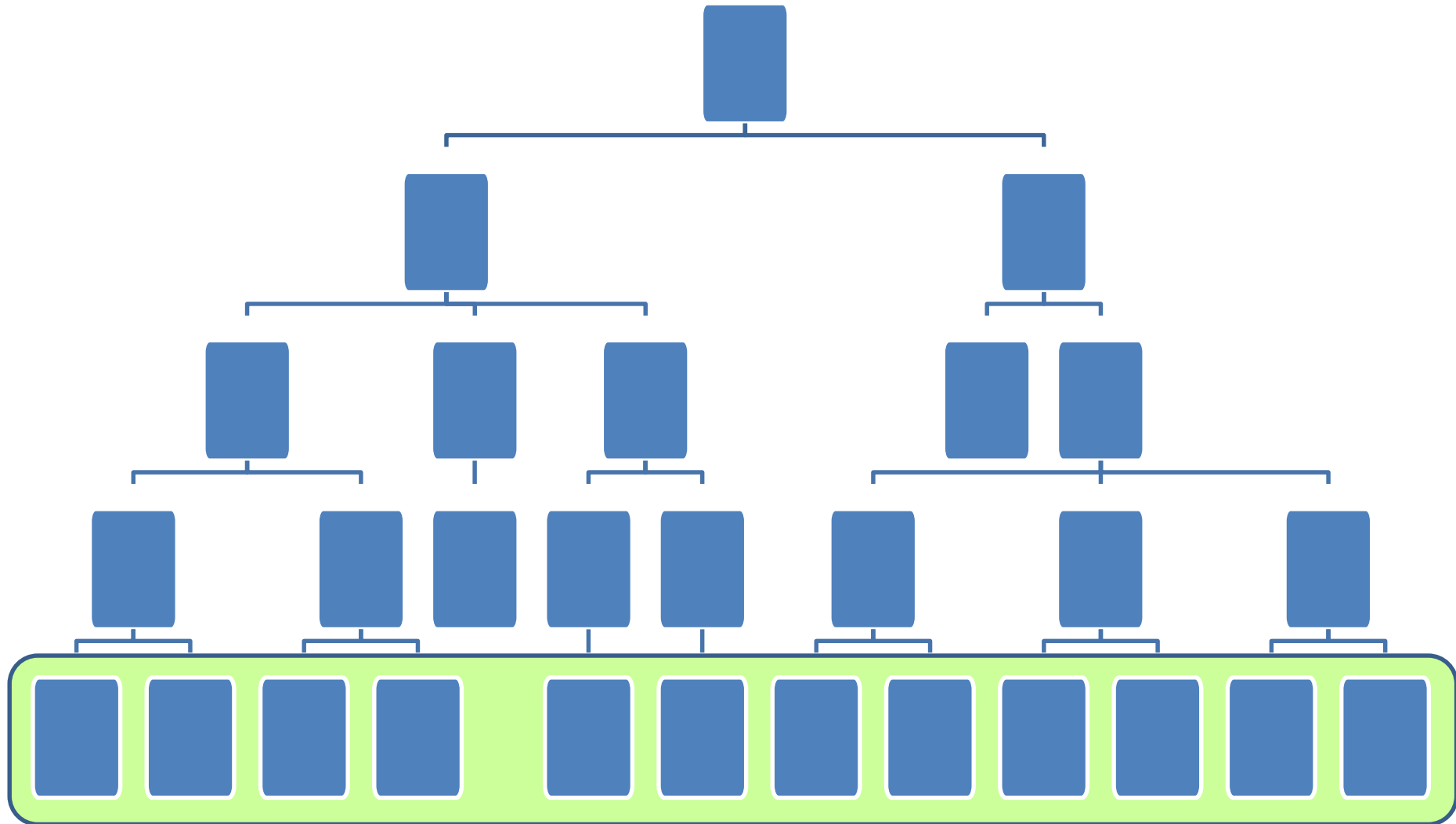
Organizational Culture



Will You Dismantle Your Organization's Hierarchical Structure?

- **Break the silos – and distribute everyone to agile teams aligned with products**
 - plus, when needed, create a team of specialists to share their skills between agile teams
 - transform managers into facilitators and specialists (e.g. test strategy specialist vs test manager)
 - understand that many managers will resist this
- **Empower Agile teams to make decisions with and for the customer**
- **Beware half-measures...**

Minimal Structural Change



Can You Change Your Measures of Success?

- **Traditional Measures**
 - Are we delivering on time/budget?
 - Are we meeting the specification?
 - Are we following the process?
 - How are individuals performing?

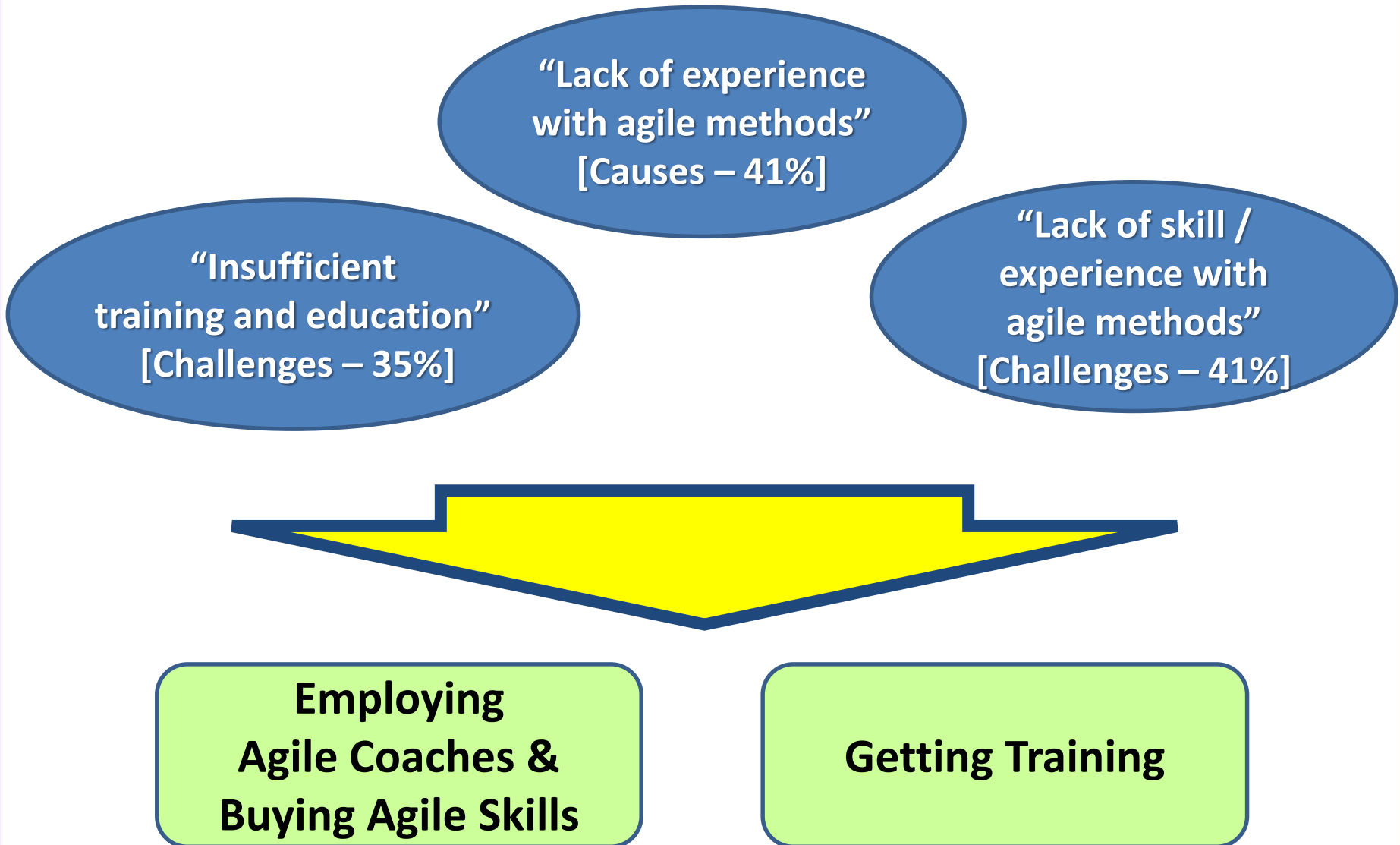
How Success is Measured in Agile Initiatives

12th State of Agile Survey, 2018

Customer/User Satisfaction	57%
On-time Delivery	55%
Business Value	53%
Quality	47%
Productivity	31%
Predictability	29%
Project Visibility	26%

***The Big Questions -
Experience & Skills***

Skills and Training



Are You Willing to Buy in Agile Team Members?

- **You cannot simply ‘morph’ people from the traditional to agile way of thinking (and doing)**
 - You will need to get coaches
 - You will need to get training
- **But, this will not be enough**
 - you will also need to employ some experienced agile team members
 - they will bring in an agile mindset
 - they will also help your ex-managers (and existing team members) to transition to an agile mindset away from micro-management

Will the Whole Organization be Trained in Agile?

- **It is not enough to train only the IT staff**
 - developers
 - testers
 - business analysts
 - managers → scrum masters
- **The customer needs to understand their role**
 - Product Owner
- **Users must change their:**
 - expectations of IT (incremental delivery)
 - commitment to supporting IT (regular acceptance testing)

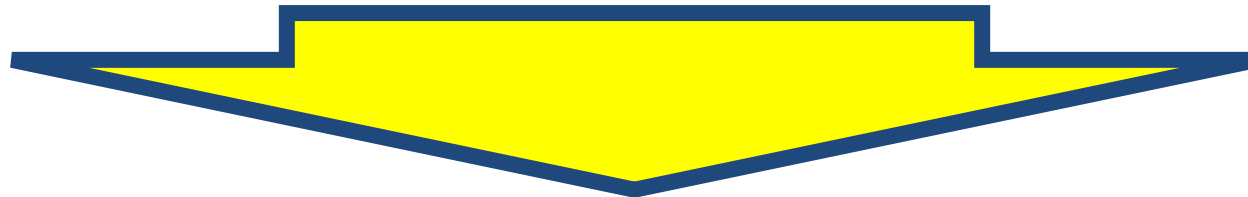
***The Big Questions -
Management Support***

Management Support

“Inadequate management support and sponsorship”
[Challenges – 42%]

“Lack of management support”
[Causes – 38%]

“Lack of support for cultural transition”
[Causes – 38%]



Support from the Top

Change Management

Is the CEO Really Convinced about Agile?

- You need support from the very top of the organization
- You need support from the top of the IT department
- You need support from the top of the business side of the organization (customer/users)

- You need lots of support!

Will You Appoint an Agile Champion?

- **Has someone been identified to be the change manager?**
- **Is there a change plan?**
 - an ad hoc approach is too risky
- **If the organization has had a bad change experience in the past, more effort will be required this time**

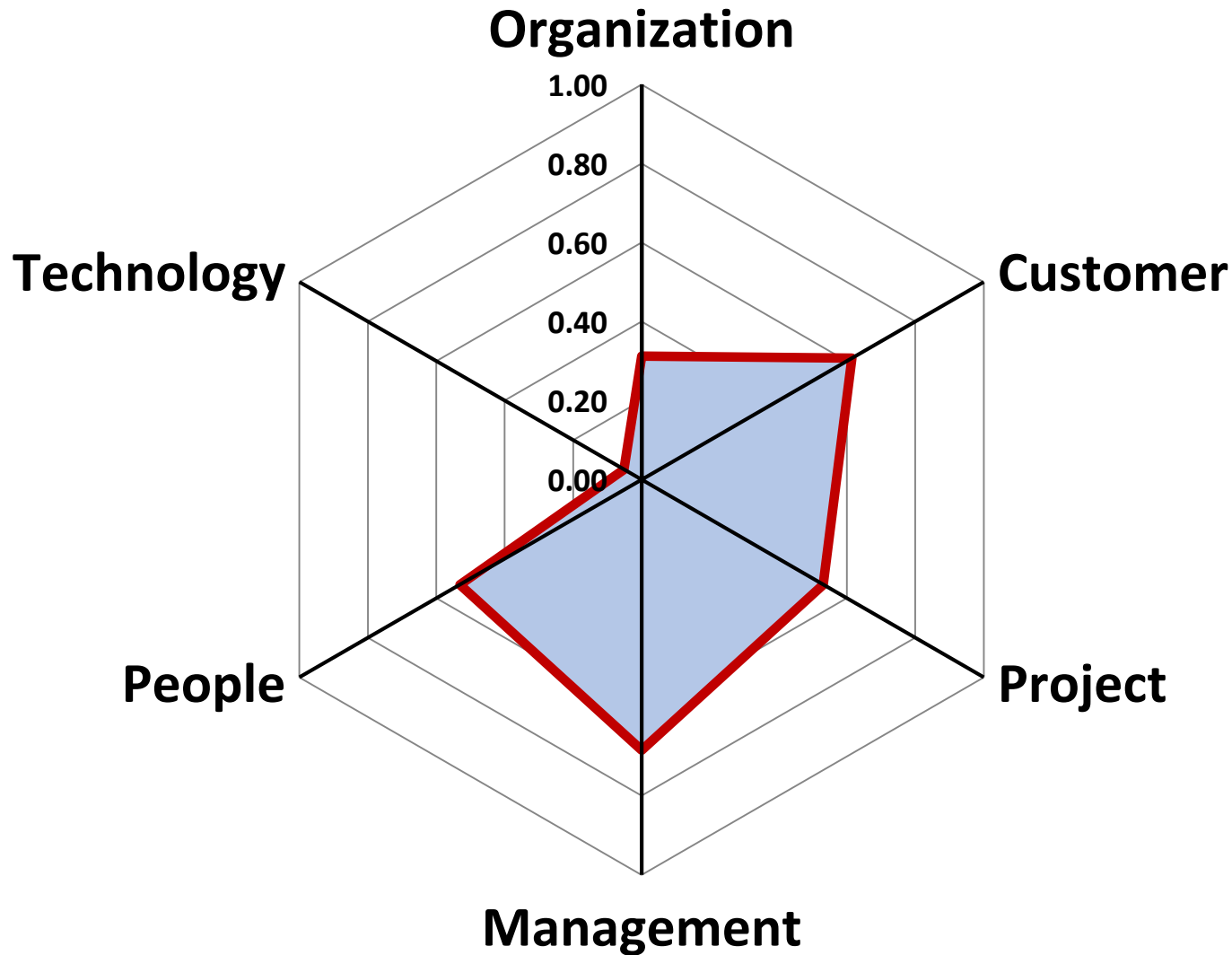
Agile Readiness Tools

Agile Readiness Tools

- **CXO Advisor**
- **Organizational Change Management (OCM)**
- **SEI Readiness and Fit Analysis (RFA) for Agile**
- **California Agile Framework**
- **Marcel Britsch Agile Questionnaire**
- **Genesis10 Agile Maturity Framework**
- **STA Agile Readiness Tool**

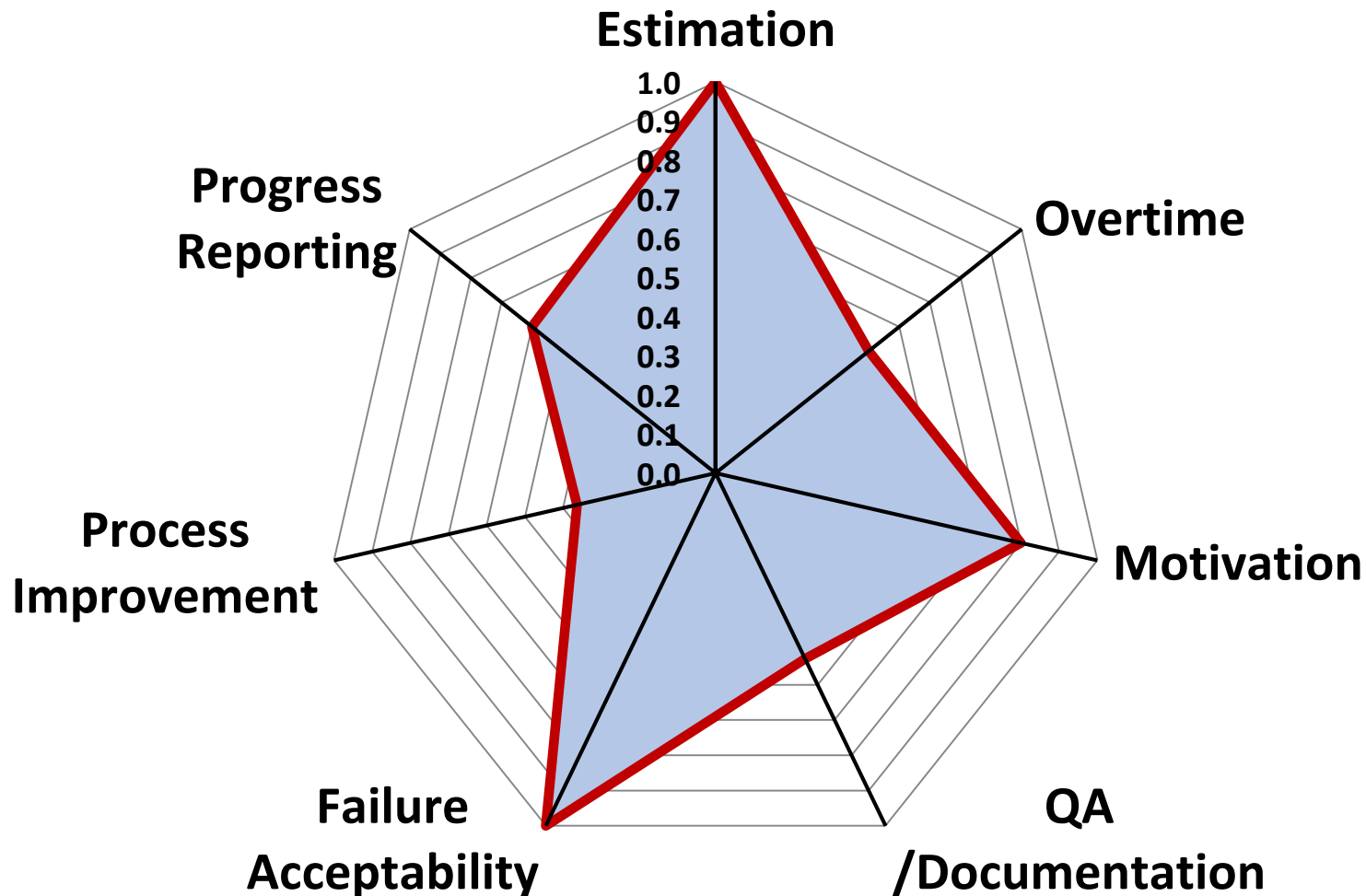
Example - Overall Agile Readiness

Overall Readiness



Example - Management Agile Readiness

Management Aspects



Conclusions

Agile Readiness Questions

- **Will you dismantle your organization's hierarchical structure?**
- **Can you change your measures of success?**
- **Are you willing to buy in agile team members?**
- **Will the whole organization be trained in agile?**
- **Is the CEO really convinced about agile?**
- **Will you appoint an Agile Champion?**

Conclusions

- Agile Adoption is only the first step in an Agile Transformation
- The top two challenges are:

Organizational Culture

Management Commitment

- Moving to agile is NOT a technical challenge
- Readiness tools can be useful
 - but typically need some expert support (gurus still useful!)

Thank you for listening

Any Questions?