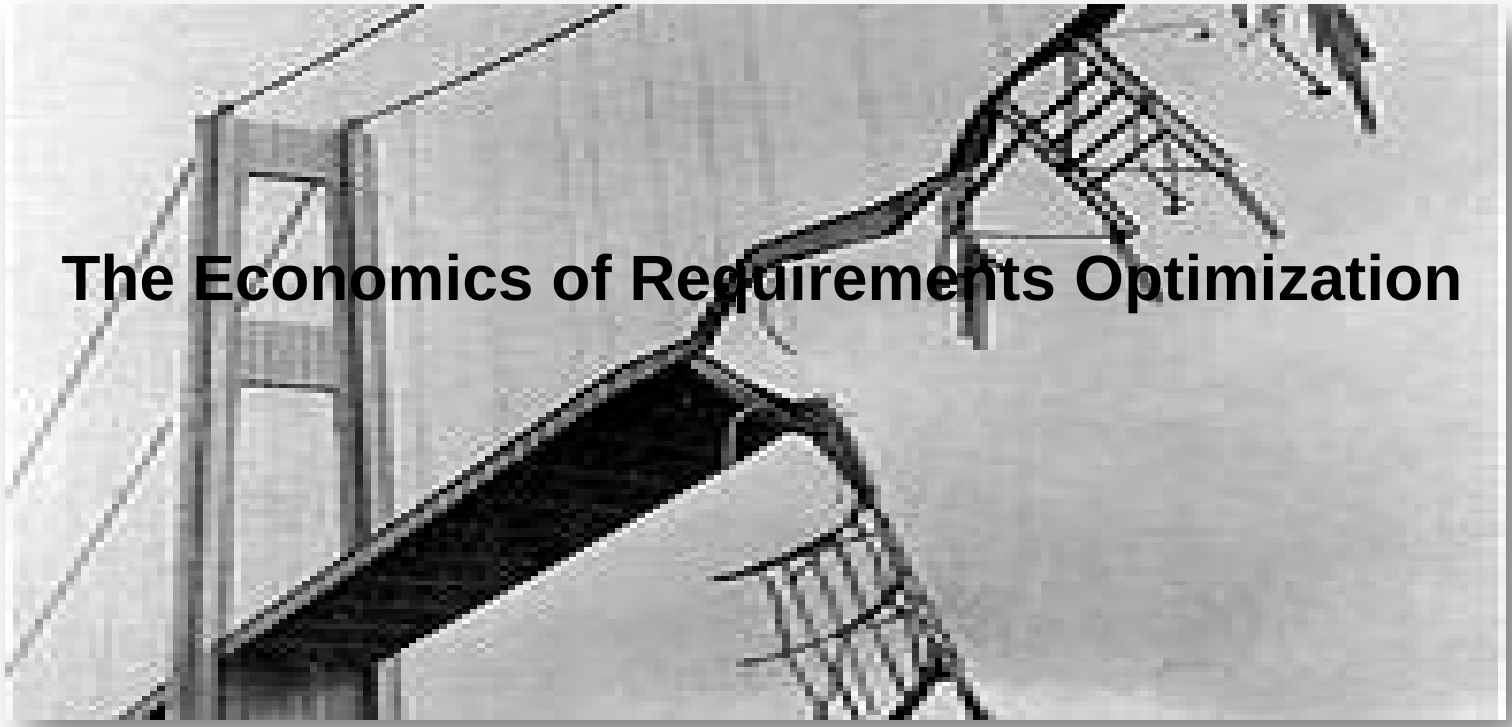
Borland®

MICRO FOCUS®



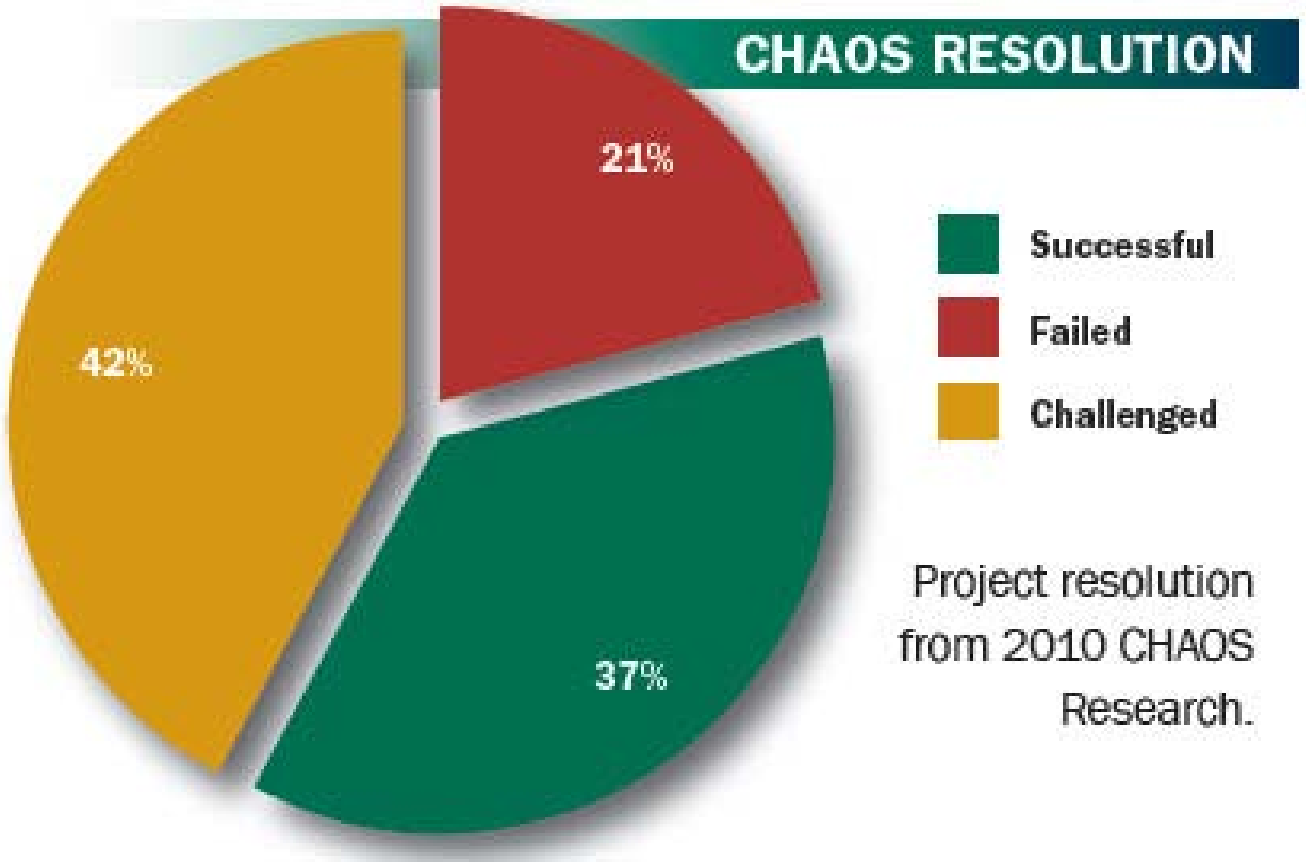
The Economics of Requirements Optimization

Pete DuPre'
Chief Enterprise Architect
Borland / Micro Focus

2 Key Points

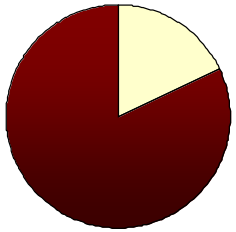
- Implement Agile
- Implement 3D Requirements Process

Trends - Software project success

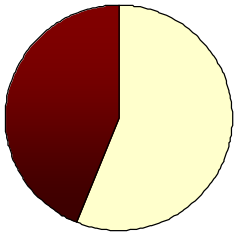


The Standish Group International, Inc. 2011 CHAOS Manifesto

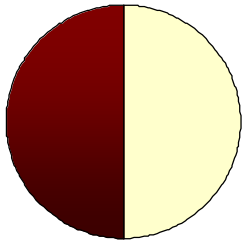

$1.00
Software
ONLY
$0.60
Value



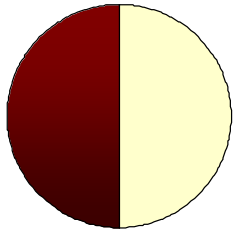
82% of application rework is due to requirements errors



44% of projects are cancelled due to problems with requirements



50% of requirements defects are due to incorrectness



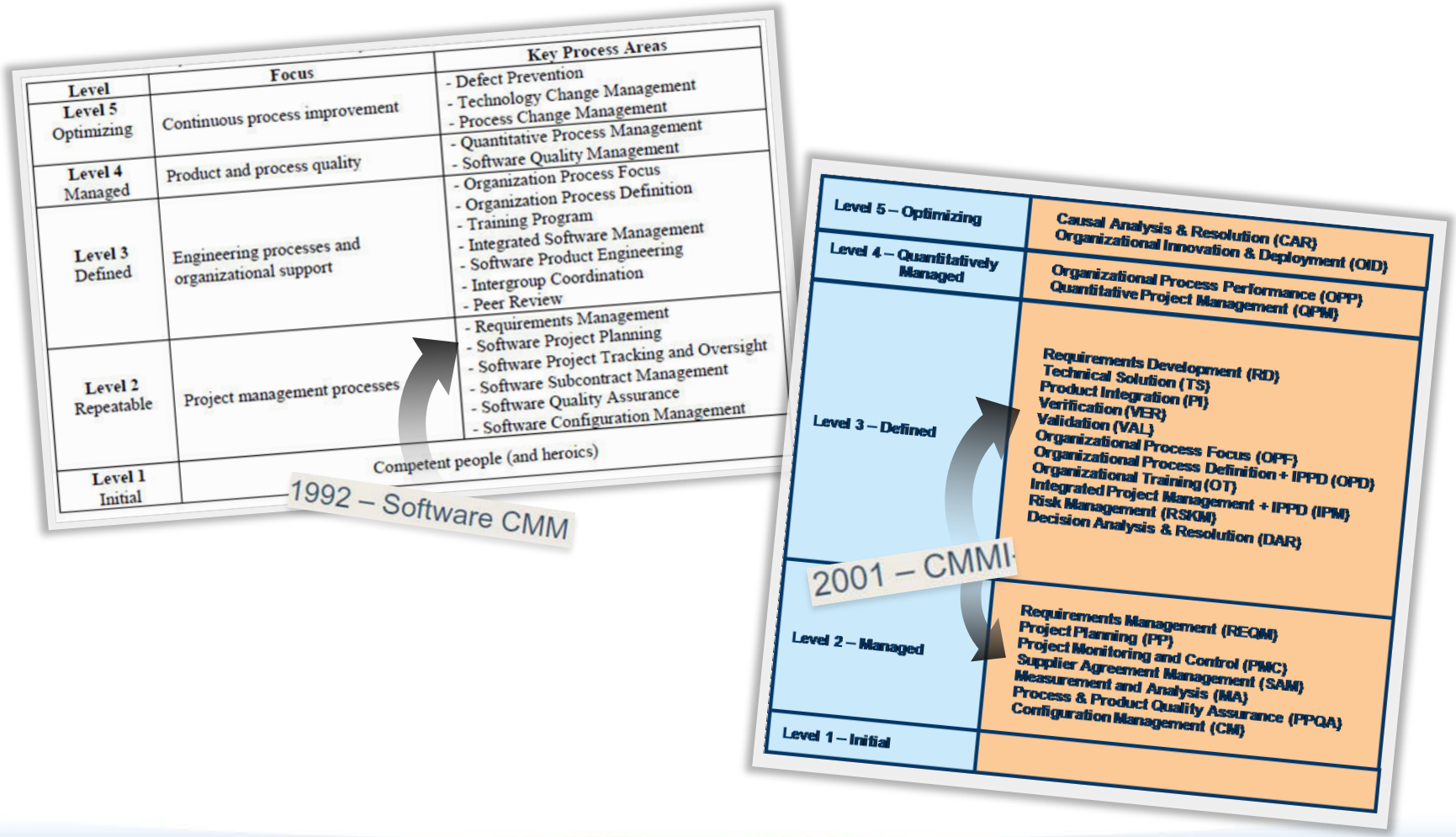
50% of requirements defects relate to incompleteness

How much do you waste on rework – every year?

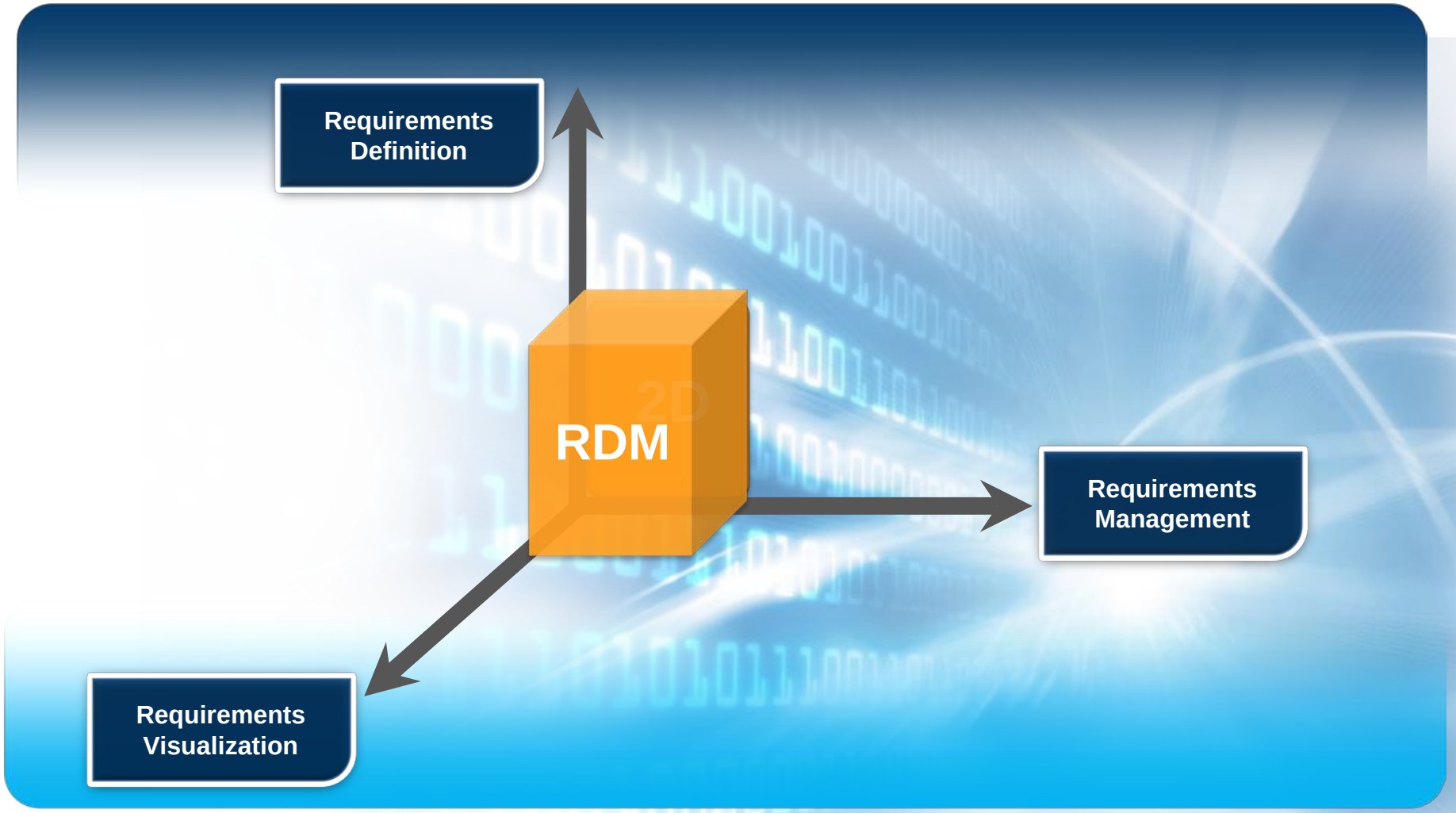
Number of Developers	Your Annual People Cost	Your Annual Waste on Rework
30	$3,750,000	$1,500,000
50	$6,250,000	$2,500,000
100	$12,500,000	$5,000,000
200	$25,000,000	$10,000,000
300	$37,500,000	$15,000,000
500	$62,500,000	$25,000,000
1000	$125,000,000	$50,000,000
3000	$375,000,000	$150,000,000

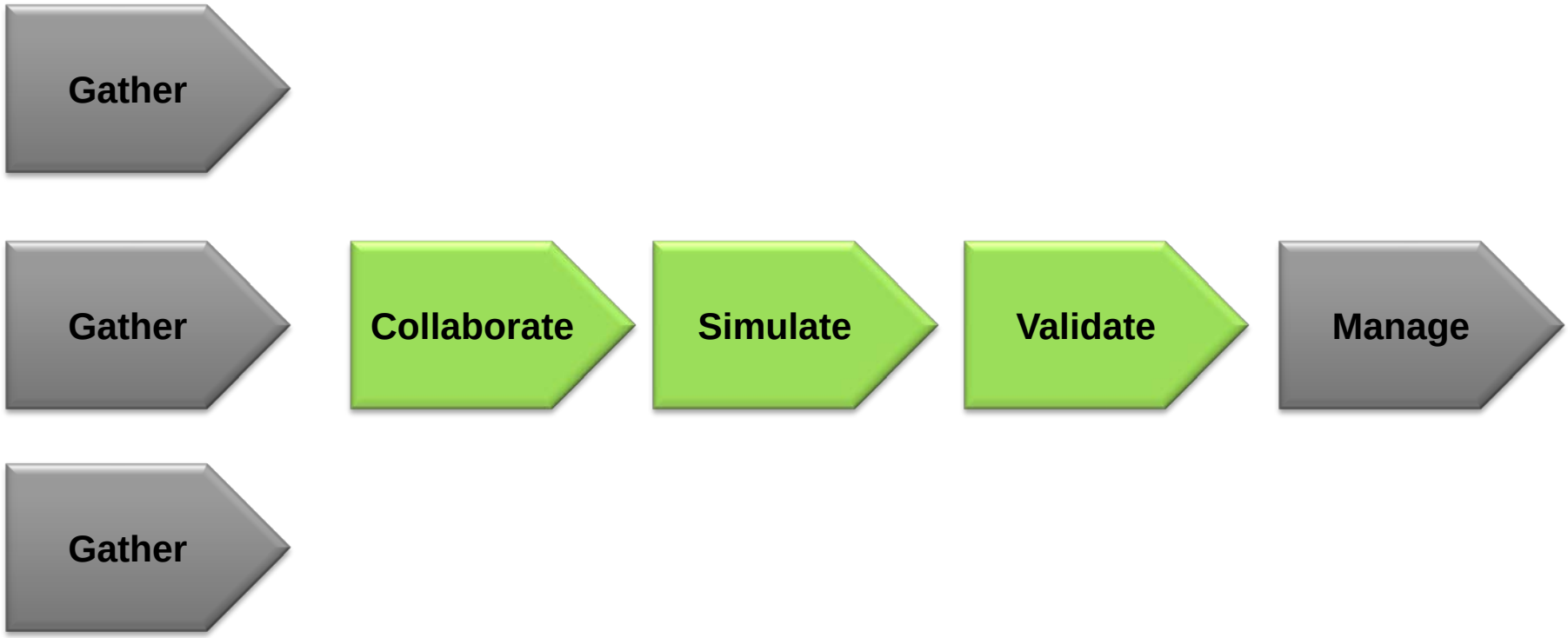
RDM Process

We've been talking about Requirements for a very long time…



Next generation RDM




Gather
Gather
Collaborate
Simulate
Validate
Manage
Gather

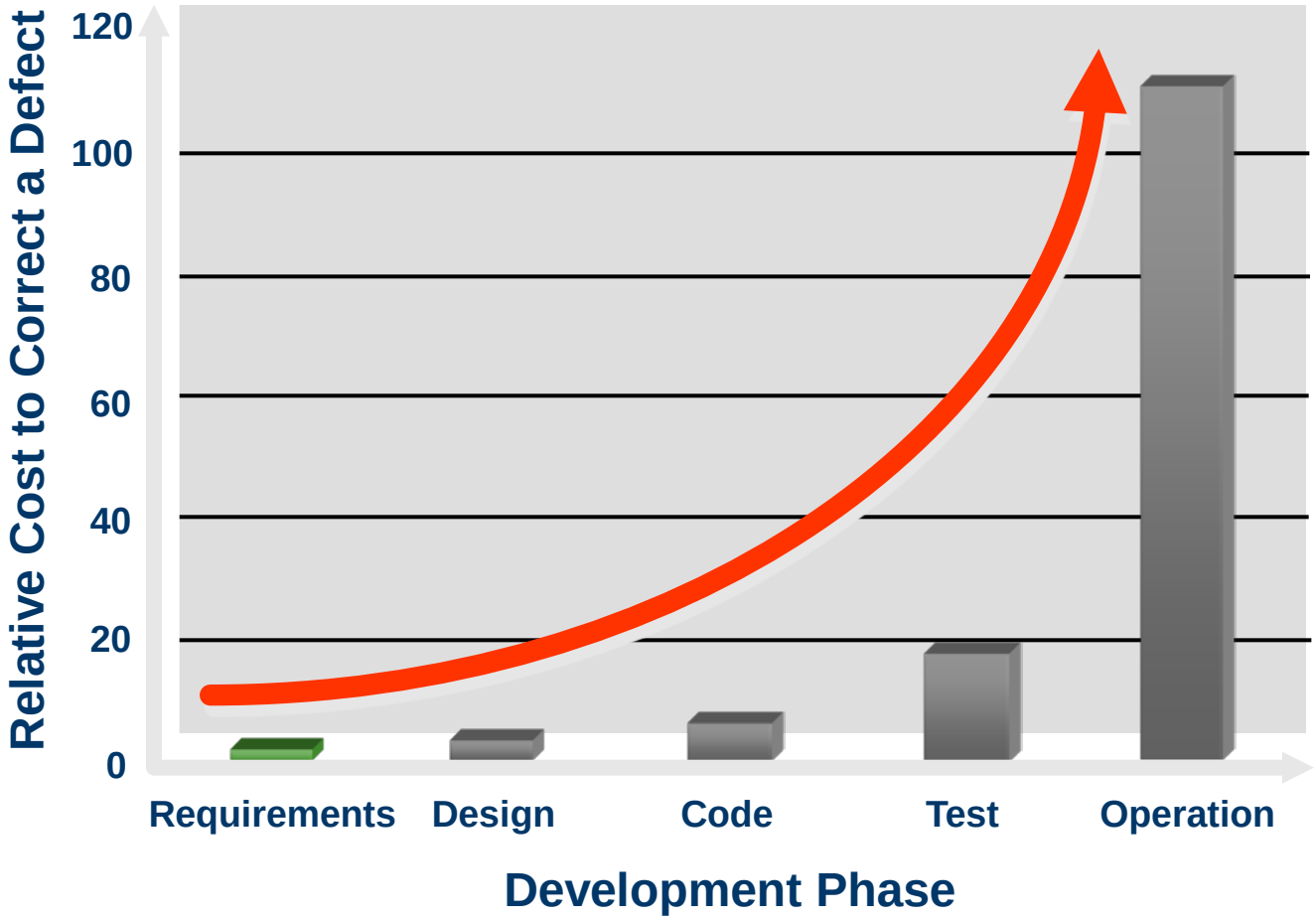

Try it out
Requirements Analysis
Acceptance Testing
System Testing
Integration Testing
Unit Testing
Module Design
Coding
Pay for it
Stakeholder participation
More & shorter feedback cycles
"Just enough" requirements

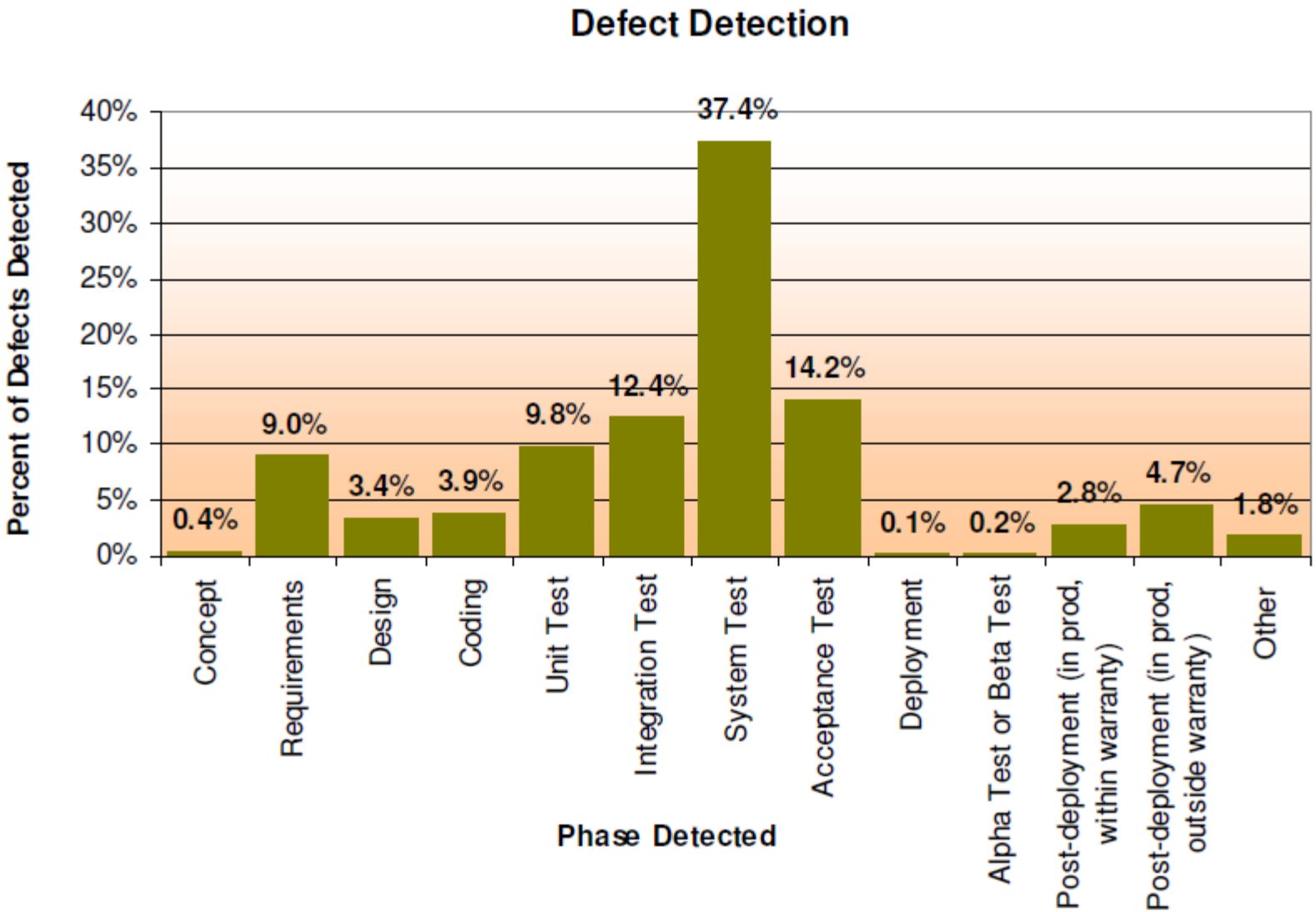
Defects

Requirements defects

> As many as 70% of defects are injected during requirements and design, and 60% of defects are not found until user acceptance testing, according to the National Institute of Standards and Technology (NIST).

Gartner

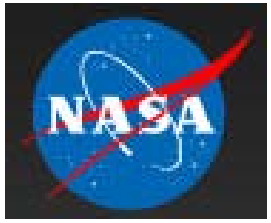

Relative Cost to Correct a Defect
120
100
80
60
40
20
0
Requirements
Design
Code
Test
Operation
Development Phase


Defect Detection
Percent of Defects Detected
40%
35%
30%
25%
20%
15%
10%
5%
0%
0.4%
9.0%
3.4%
3.9%
9.8%
12.4%
37.4%
14.2%
0.1%
0.2%
2.8%
4.7%
1.8%
Concept
Requirements
Design
Coding
Unit Test
Integration Test
System Test
Acceptance Test
Deployment
Alpha Test or Beta Test
Post-deployment (in prod, within warranty)
Post-deployment (in prod, outside warranty)
Other
Phase Detected

Agile

What does “Agile” really mean ?

Another Agile Myth –
Agile is for small companies or co-located teams...
Really?



The U.S. Navy's SPAWAR Command relied on agile to develop the Education Benefits Long-term Solution for the Veterans Affairs Department.

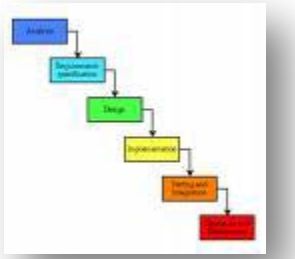
VA CIO Roger Baker, "we developed this completely under an agile methodology. What's important about that is that the subject matter experts and my IT folks worked side-by-side, day-in and day-out to develop the user interface and the workflow to be *optimal* for the processing of these types of claims by the folks that are the claims examiner..."

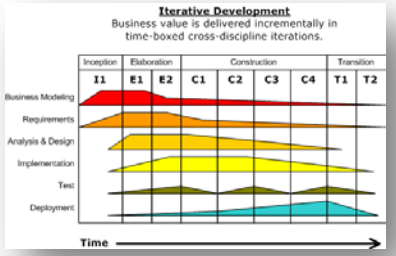
Requirements Modernization: Elaboration & Communication

- Iterative
- Business Aligned
- Continuous feedback
- Visualization
- Interactive simulation

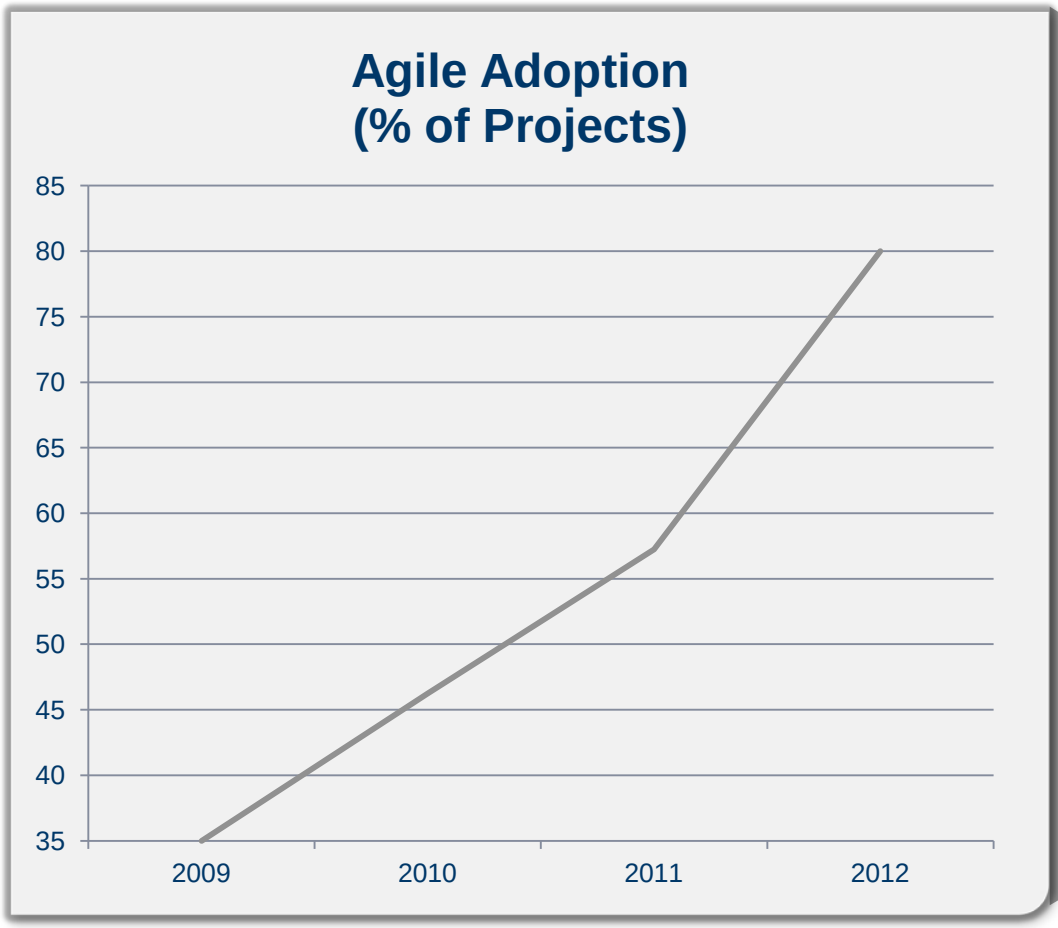
Prototyping

Assess & modernize RDM. You will never improve business agility and time to market without optimizing RDM.





With or without you, the industry will transition to Agile



Get over the myths & lazy interpretation of Agile – at least experiment with an Agile pilot project

2 Key Points

- Implement Agile
- Implement 3D Requirements Process

Q/A