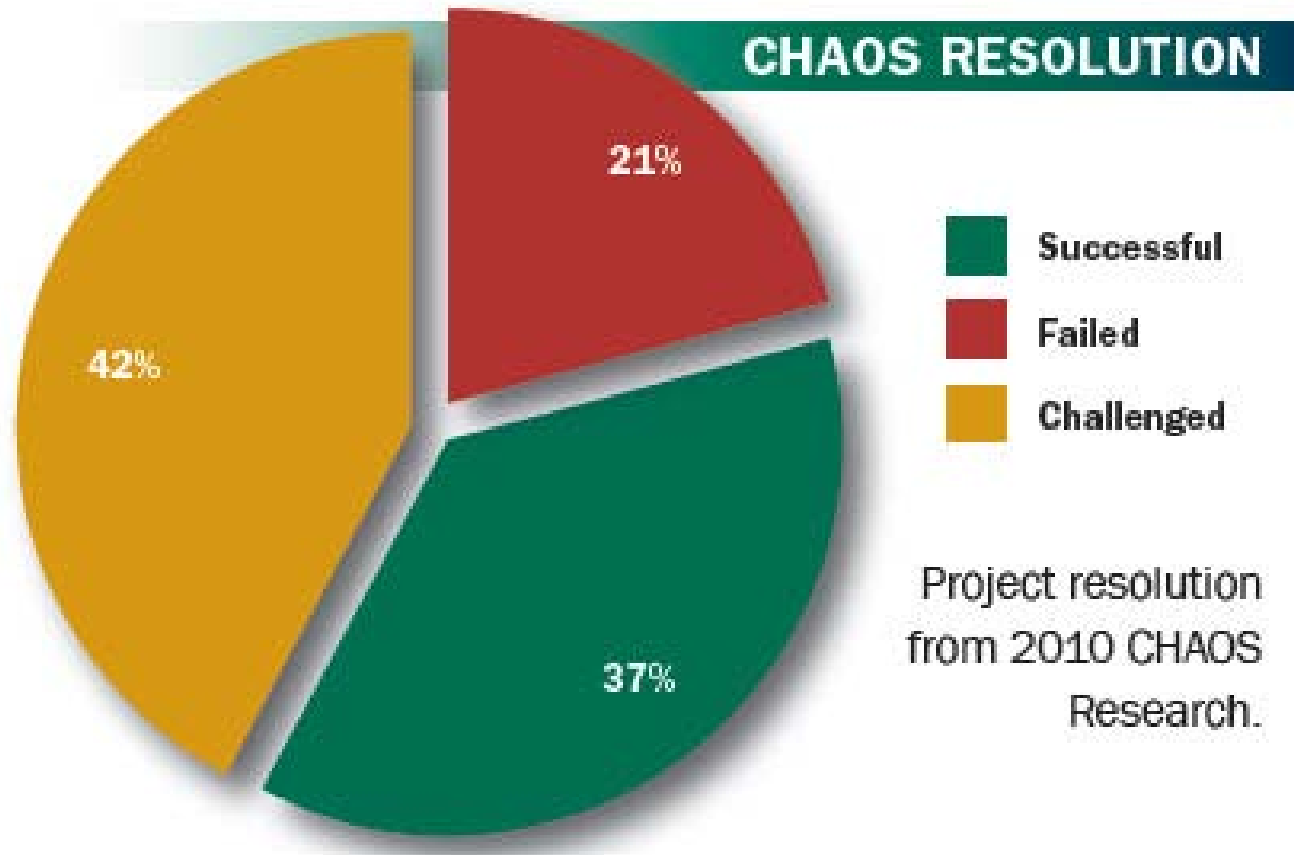




2 Key Points

- Implement Agile
- Implement 3D Requirements Process

Trends - Software project success

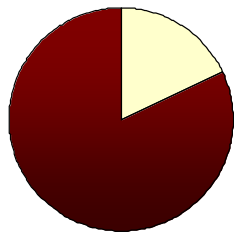




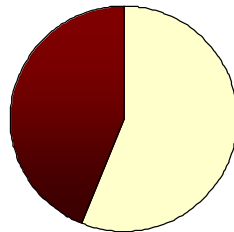
\$1.00
Software

ONLY

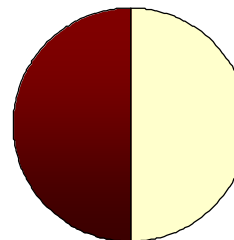
\$0.60
Value



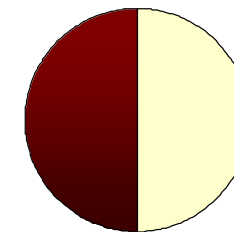
82% of application rework is due to requirements errors



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...

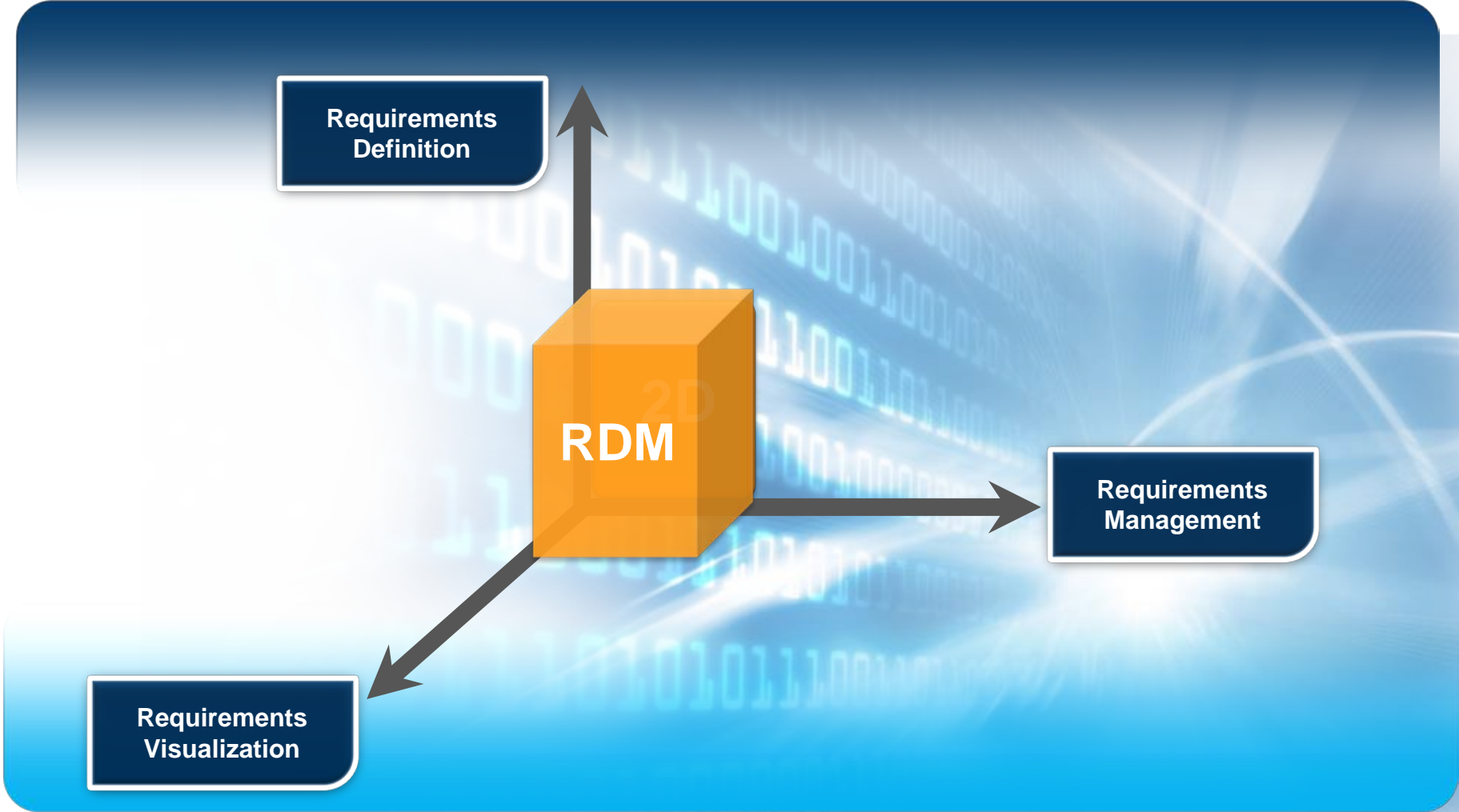
| Level | Focus | Key Process Areas |
|-----------------------|--|---|
| Level 5 Optimizing | Continuous process improvement | - Defect Prevention - Technology Change Management - Process Change Management |
| Level 4 Managed | Product and process quality | - Quantitative Process Management - Software Quality Management |
| Level 3 Defined | Engineering processes and organizational support | - Organization Process Focus - Organization Process Definition - Training Program - Integrated Software Management - Software Product Engineering - Intergroup Coordination - Peer Review |
| Level 2 Repeatable | Project management processes | - Requirements Management - Software Project Planning - Software Project Tracking and Oversight - Software Subcontract Management - Software Quality Assurance - Software Configuration Management |
| Level 1 Initial | | Competent people (and heroics) |

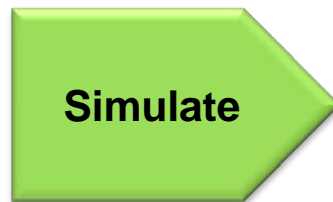
1992 – Software CMM

| | |
|----------------------------------|--|
| Level 5 – Optimizing | Causal Analysis & Resolution (CAR) Organizational Innovation & Deployment (OID) |
| Level 4 – Quantitatively Managed | Organizational Process Performance (OPP) Quantitative Project Management (QPM) |
| Level 3 – Defined | Requirements Development (RD) Technical Solution (TS) Product Integration (PI) Verification (VER) Validation (VAL) Organizational Process Focus (OPF) Organizational Process Definition + IPPD (OPD) Organizational Training (OT) Integrated Project Management + IPPD (IPM) Risk Management (RSKM) Decision Analysis & Resolution (DAR) |
| Level 2 – Managed | Requirements Management (REQM) Project Planning (PP) Project Monitoring and Control (PMC) Supplier Agreement Management (SAM) Measurement and Analysis (MA) Process & Product Quality Assurance (PPQA) Configuration Management (CM) |
| Level 1 – Initial | |

2001 – CMMI

Next generation RDM





Try it out



Pay for it

Defects

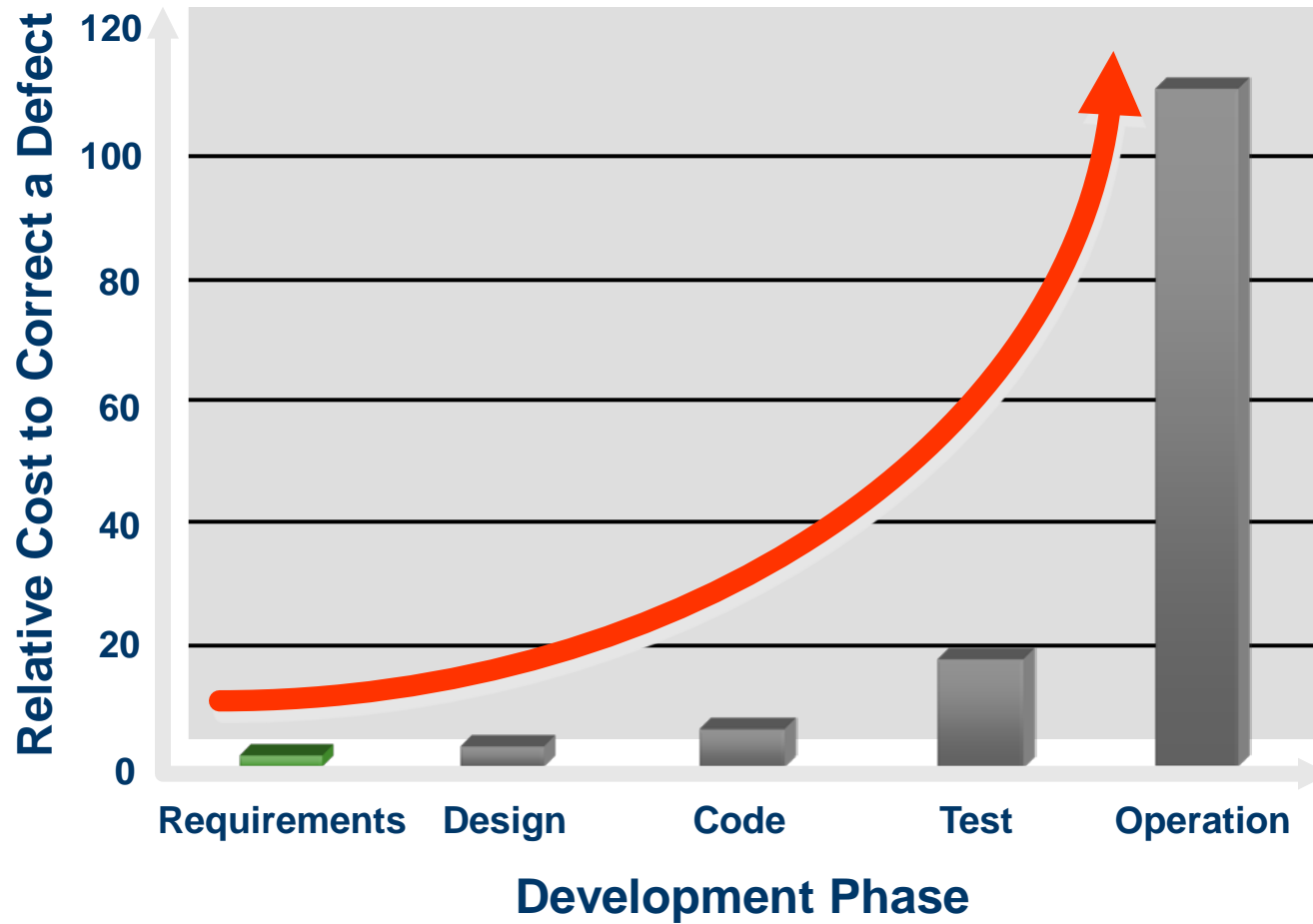
Requirements defects

“

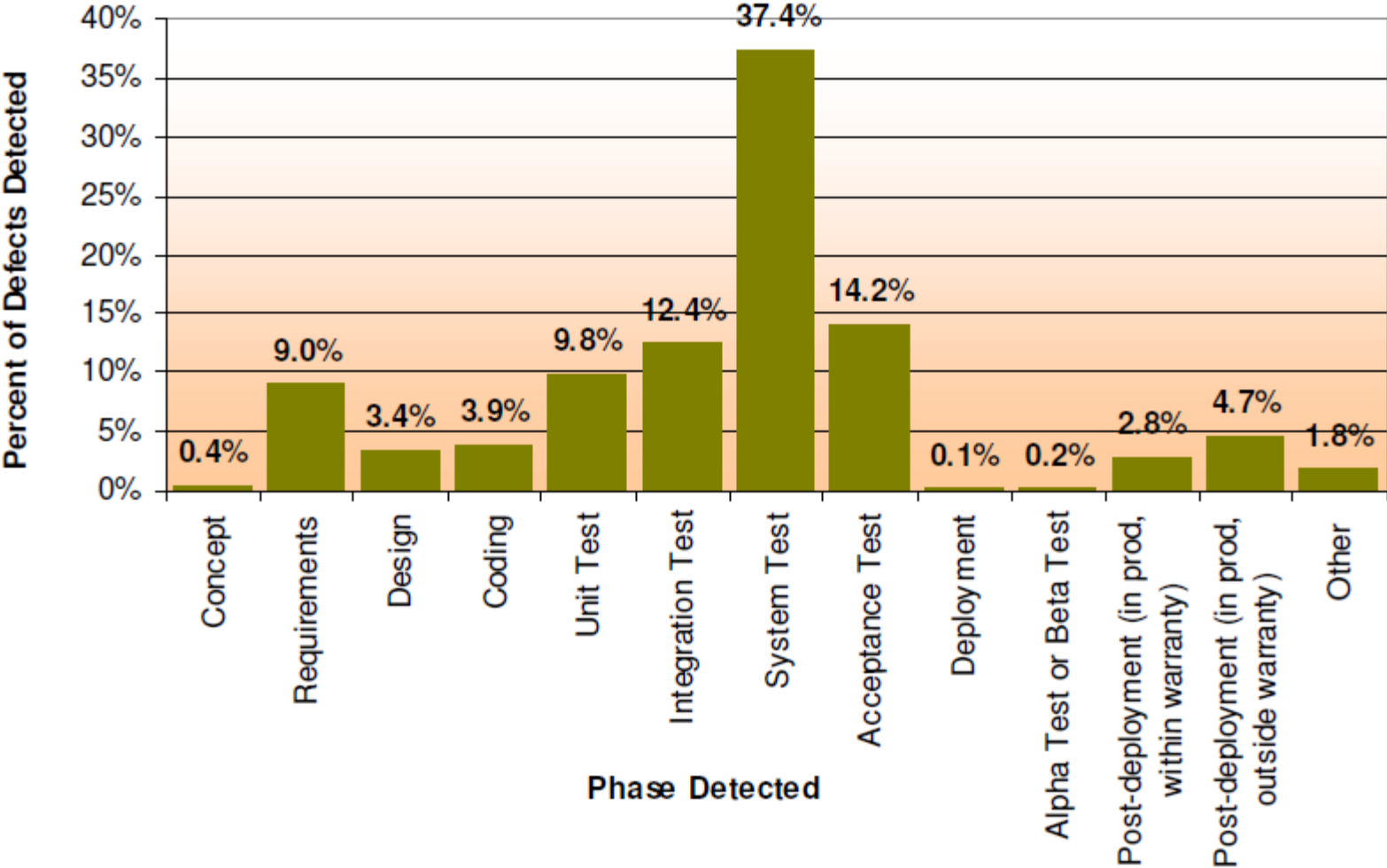
As many as 70% of defects are injected during requirements and design, and 60% of defects are not found until user acceptance testing, according to the National Institute of Standards and Technology (NIST).

”

The Gartner logo is displayed in a white rounded rectangular box with a thin grey border. The word "Gartner" is written in a bold, blue, sans-serif font, with a registered trademark symbol (®) to its right.



Defect Detection



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.

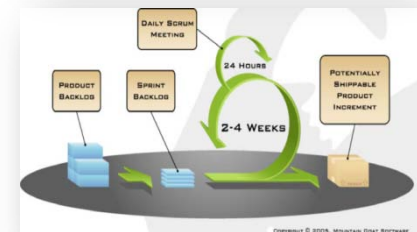
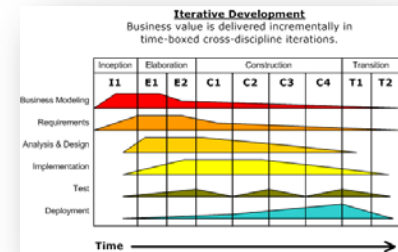
VA CIO Roger Baker, “we developed this completely under an agile methodology. What’s important about that is that the **subject matter experts and my IT folks worked side-by-side, day-in and day-out** to develop the user interface and the workflow to be *optimal* for the processing of these types of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

Requirements Modernization: Elaboration & Communication

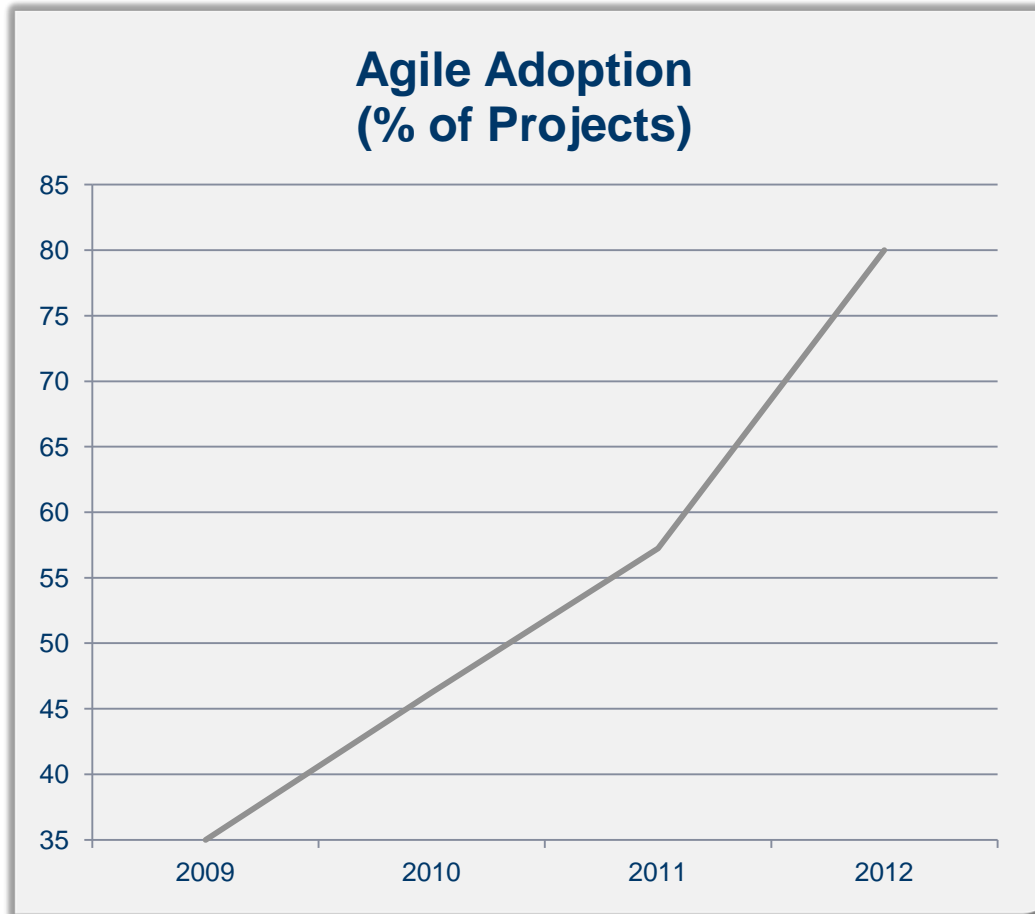
- Iterative
- Business Aligned
- Continuous feedback
- Visualization
- Interactive simulation

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