silverthread

Software Economics

Gain financial, managerial, and technical control of complex software portfolios
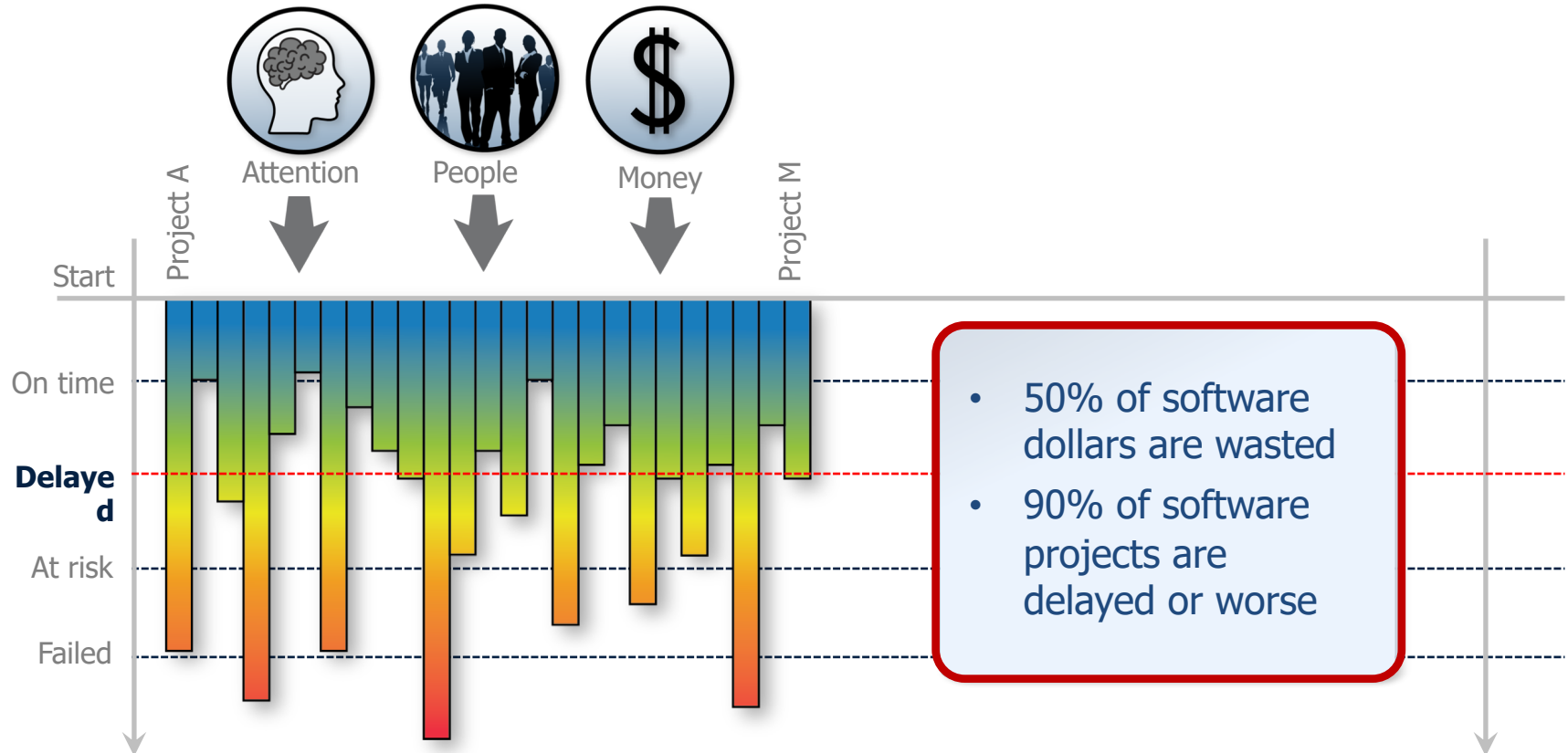
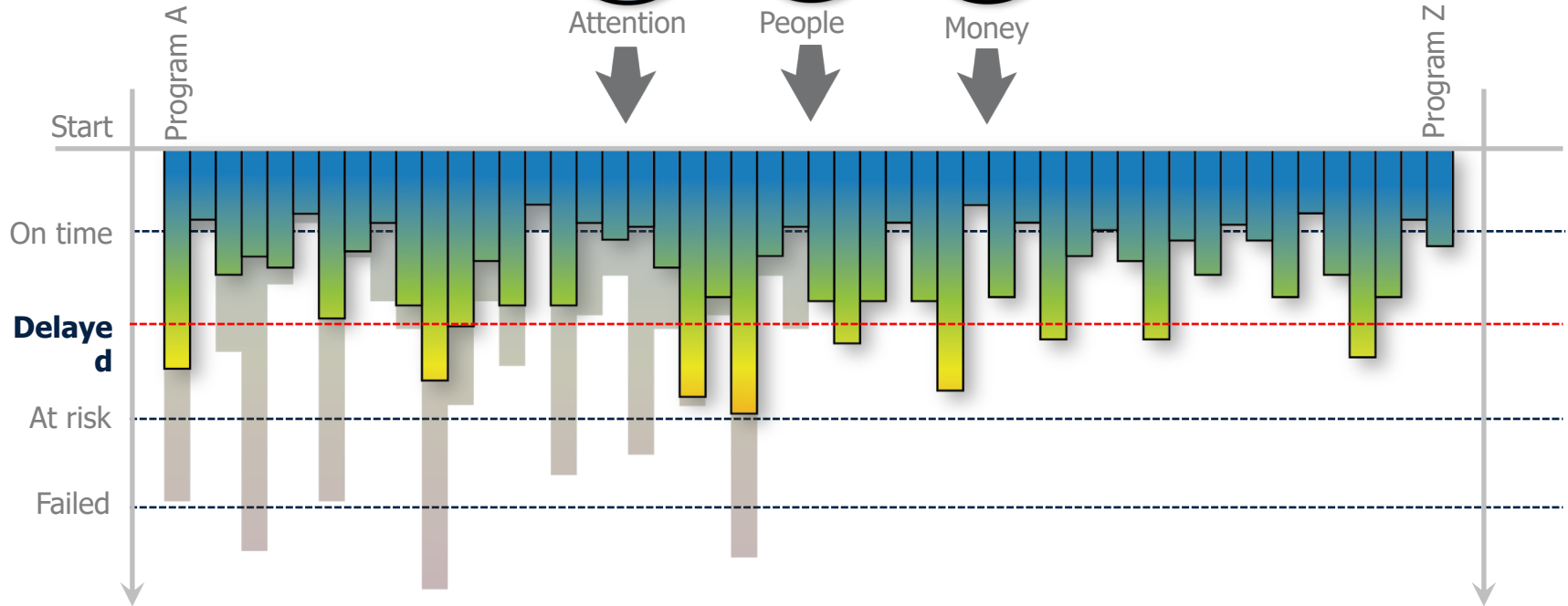**Dan Sturtevant, PhD**
CEO, Silverthread Inc.

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Finite key resources are spent developing software systems. Some projects go well while others face significant risk

- 50% of software dollars are wasted
- 90% of software projects are delayed or worse
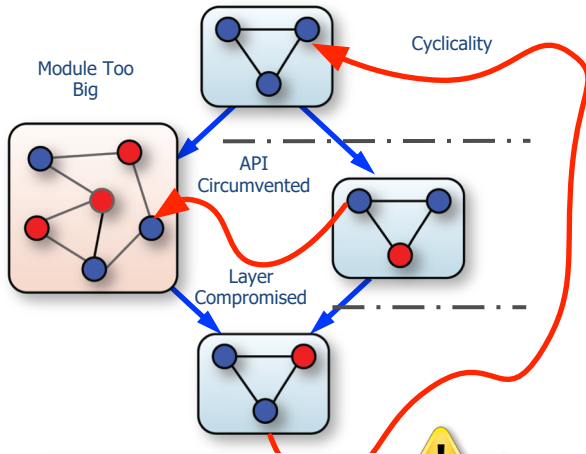
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3 June 2019

Which means many more capabilities could be developed with the same resources

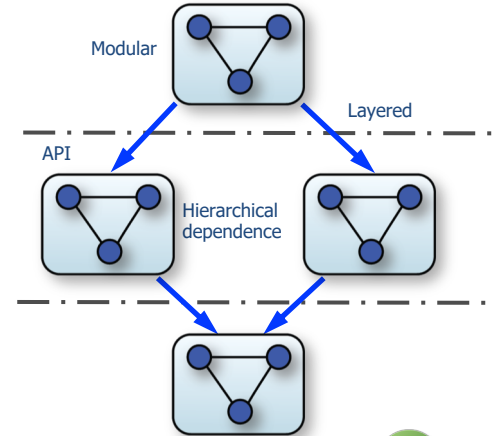# Based on 15 years of MIT research, we help enterprises assess and improve technical health & business outcomes

Unhealthy Codebase

Cyclicality

Module Too Big

API Circumvented

Layer Compromised

Developer productivity	Developer time fixing bugs
8	**69%**
Features/Year	

goal

Healthy Codebase

Modular

Layered

API

Hierarchical dependence

Developer productivity	Developer time fixing bugs
20	**20%**
Features/Year	

4

We helped one Air Force customer achieve a >20x ROI by making wiser financial choices and driving refactoring

100 major systems
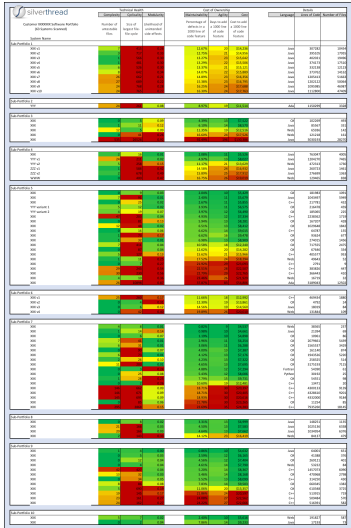
HEALTHY EXAMPLE:
System X

Team had built and grown great system → Team rewarded with future work

REPAIR EXAMPLE:
System Y

System challenged, and fixed → Team reports 3X productivity, very rapid ROI

REBUILD EXAMPLE:
System Z

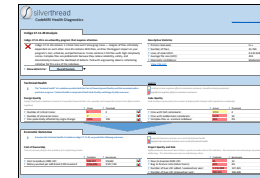Major issues, Total rewrite best option → $Billions allocated to recapitalize

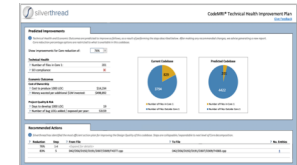# How to get started: Proof of Concept Ideas

Step 1:
- Fully automated diagnostic deep dive into a few strategic systems
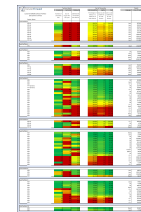
CodeMRI®
Diagnostics

CodeMRI®
Care

Step 2:
- Portfolio analysis across your domain for full visibility

CodeMRI® Portfolio

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Dan Sturtevant, PhD
CEO

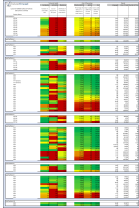dan@silverthreadinc.com

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Silverthread provides benefits at multiple levels

Executive Leadership	• Decide what to continue with maintenance, refactor, rewrite, accept, or reject • Know where to focus finite effort and resources • Increase agility, security, and quality across the organization	**CodeMRI® Portfolio**
Project Leadership	• Estimate development cost and schedule more effectively • Construct ROI-based business cases for improvement • Control system architecture to ensure it does not degrade	**CodeMRI® Diagnostics**
Technology Leadership	• Define design rules and audit the code's adherence in real-time • Manage refactoring, cloud transformation, migration to an open platform, etc. • Build a codebase that developers understand and can confidently modify	**CodeMRI® Care**