Size, Failure, and Optimization

Roger Sessions

About Me (Roger Sessions)

- Author of seven books (including Simple Architectures for Complex Enterprises.)
- Author of dozens of white papers on IT Risk and Optimization.
- Fellow of the International Association of Software Architects.
- Multiple patents in software and enterprise architecture.

Wisconsin's Accountability, Consolidation, and Efficiency (ACE)

Convert emails to a common system

Eliminate duplicate IT functionality

Consolidate servers

2005-2009 \$121 M

Result?

Wisconsin's Accountability, Consolidation, and Efficiency (ACE)

Convert emails to a common system Done!

Eliminate duplicate IT functionality Not Done!

Consolidate servers
Not Done!

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Eliminate duplicate IT functionality

Not Done!

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2005-2009 \$121 M

Result?

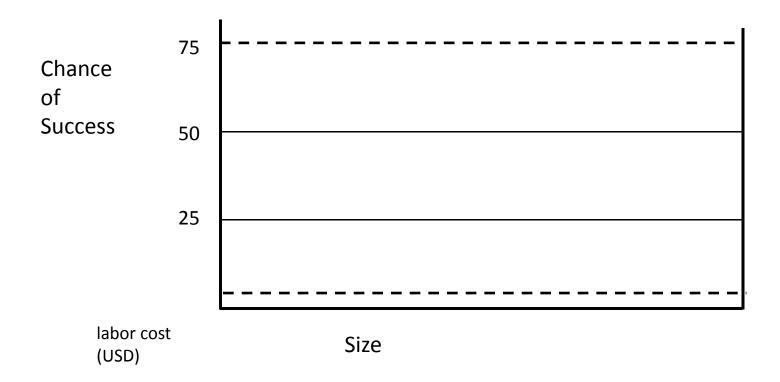
Budgeted Cost: \$2.6M

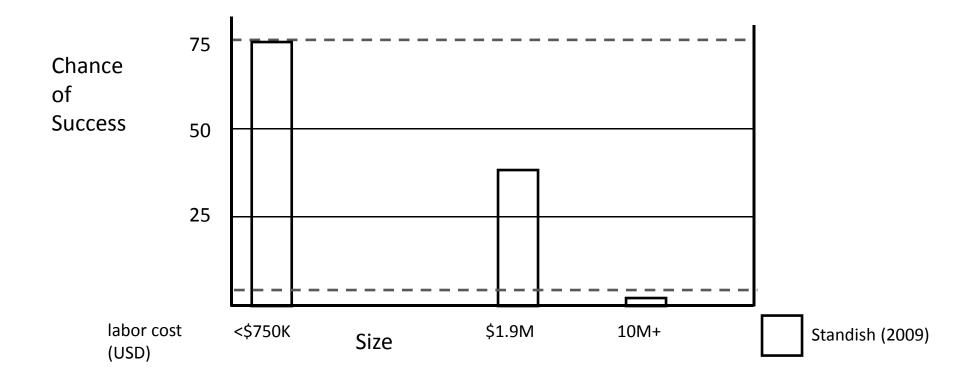
Actual Cost: \$13.4 M

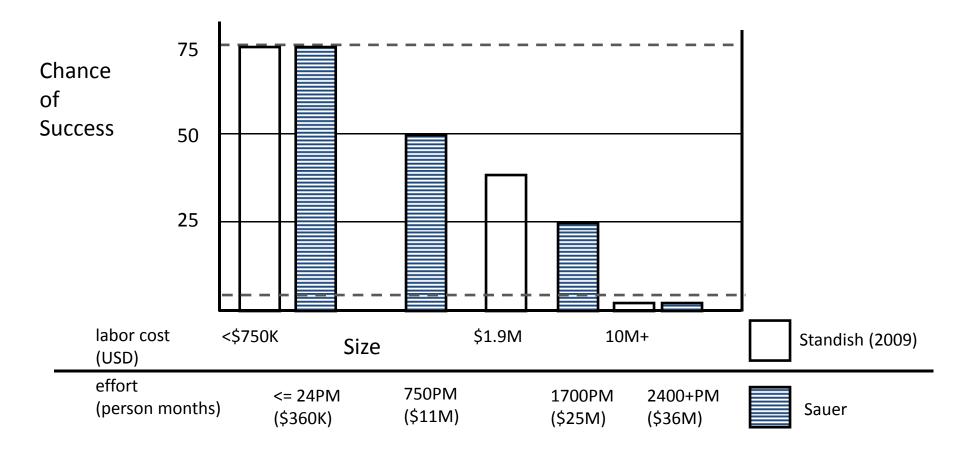
Grim Statistics

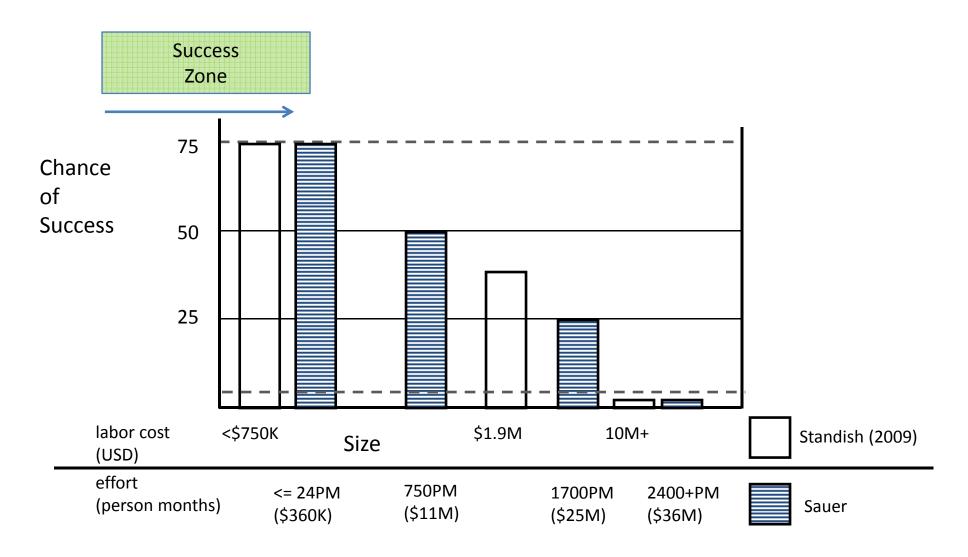
An estimated 85 percent of government IT projects are late, over budget or both.

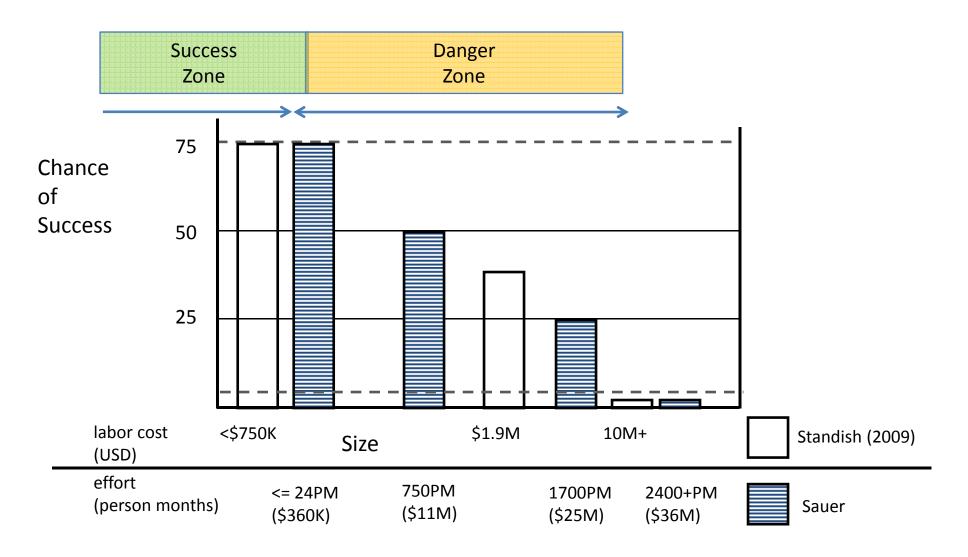
- The Pew Center on the States, "Focus on Performance", 2010

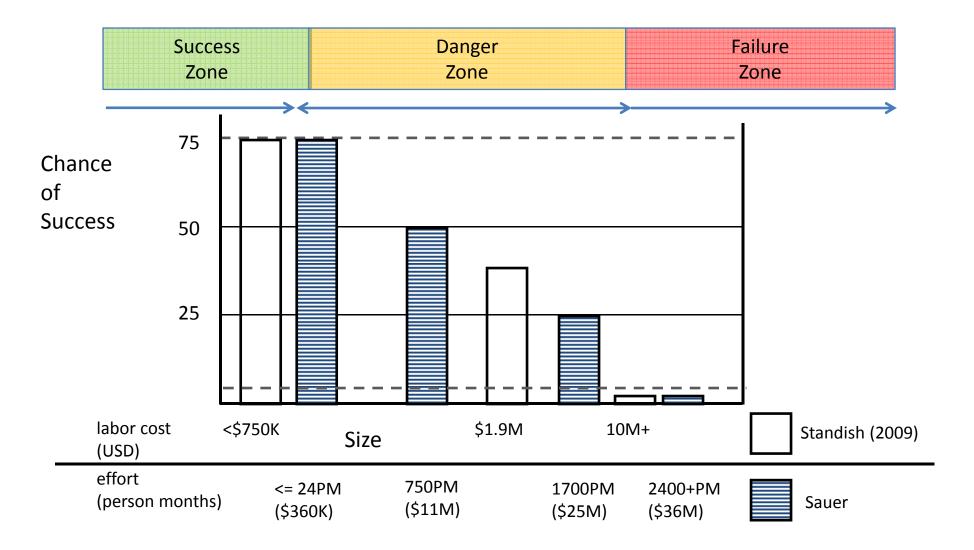












Sessions' Law of Size

Success

IT Projects less than \$1M will probably succeed, regardless of how poorly managed they are.

8 people 6 months

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IT Projects between \$1M and \$10M can succeed, if they are very carefully managed.

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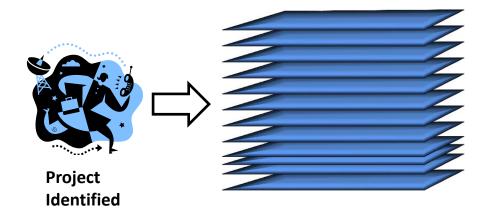
Danger Zone

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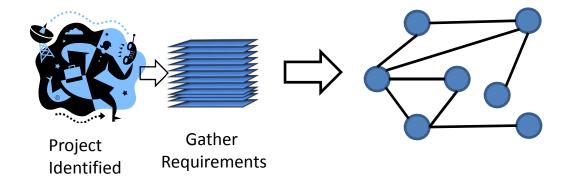
Failure Zone IT Projects over \$10M will probably not succeed, regardless of how well managed they are.

20 people 36 months

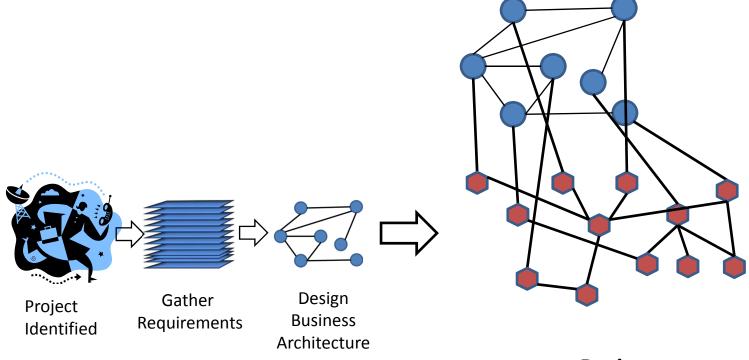




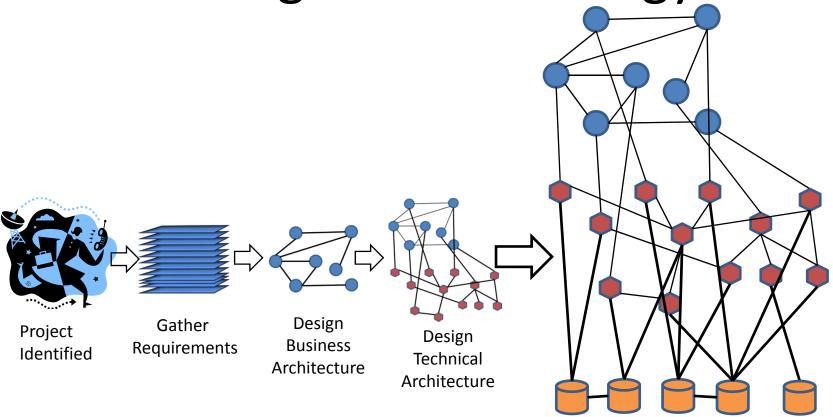
Gather Requirements



Design Business Architecture

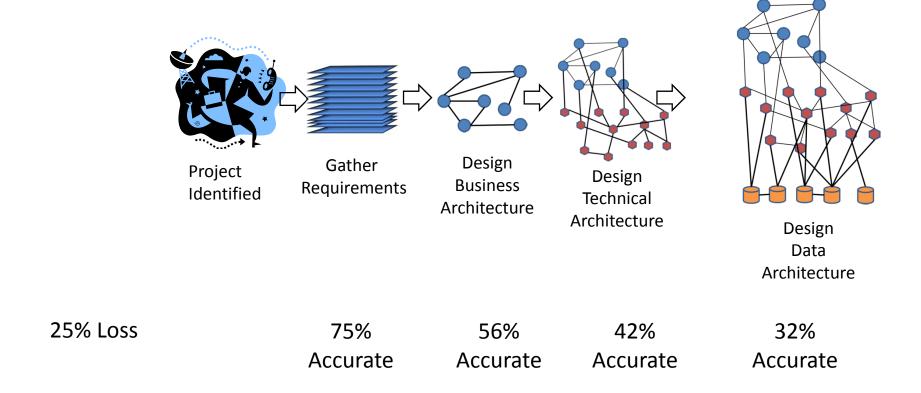


Design Technical Architecture

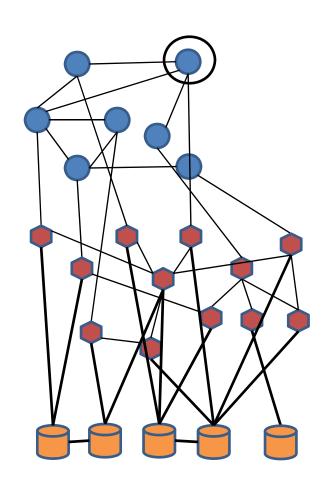


Design
Data
Architecture

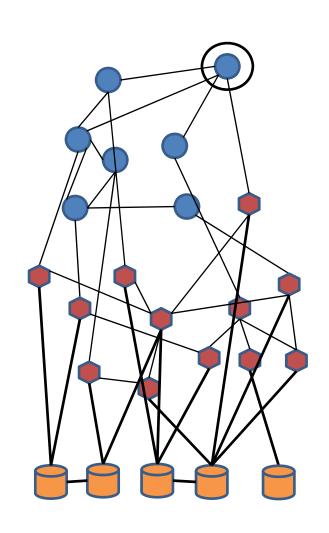
Fidelity Problem

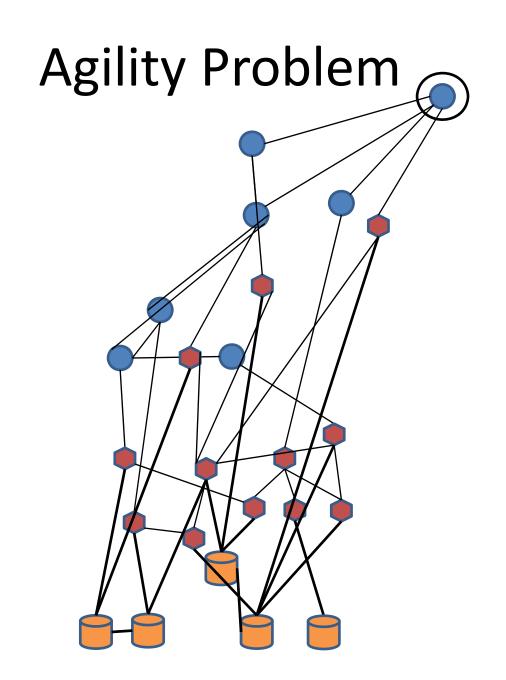


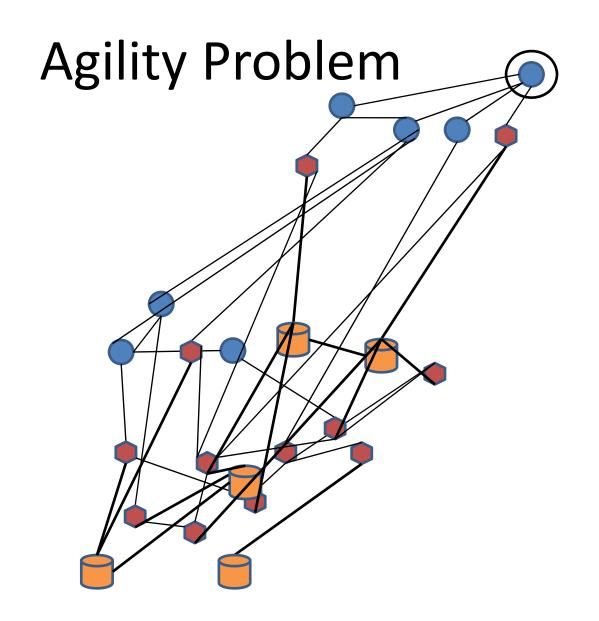
Agility Problem

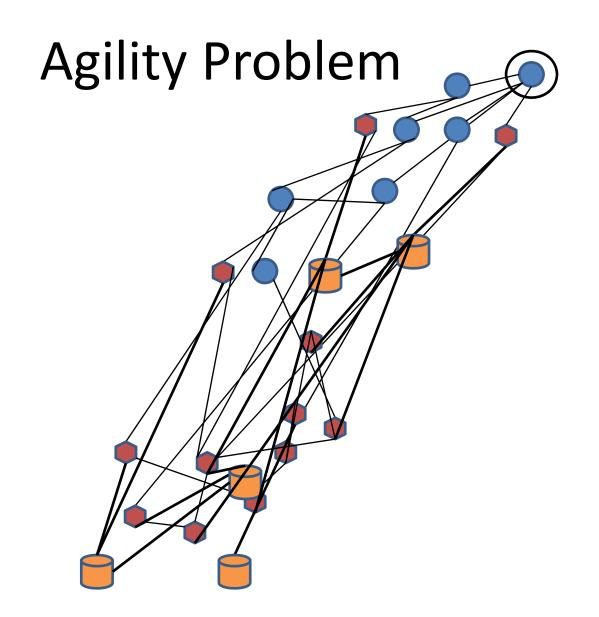


Agility Problem





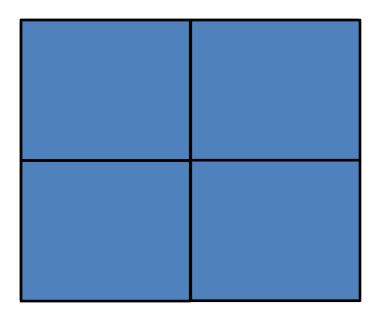




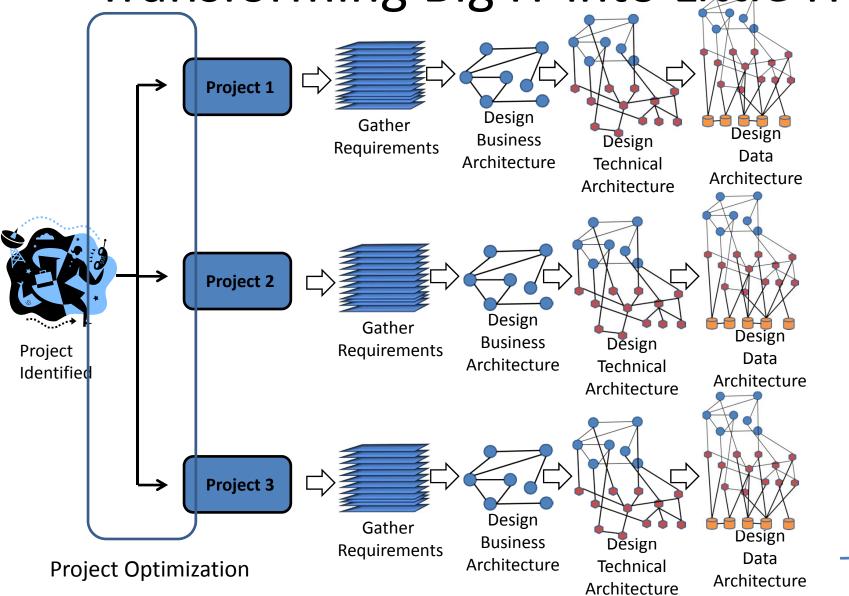
How to do Big IT

Don't do Big IT.

Do Little IT



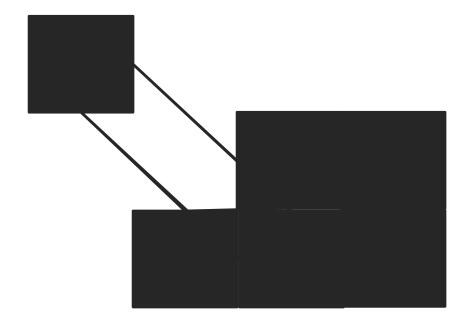
Transforming Big IT into Little IT-

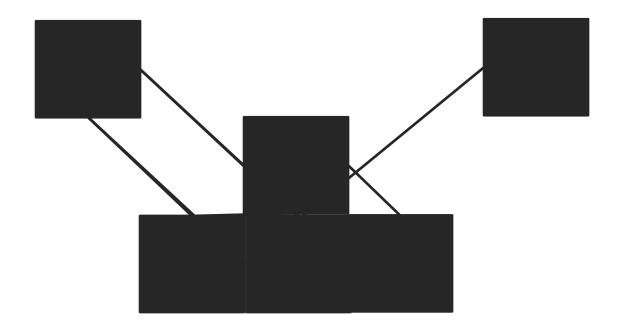


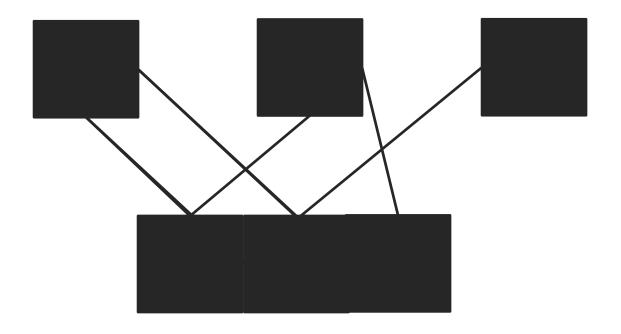
Three problems with splitting up IT projects.

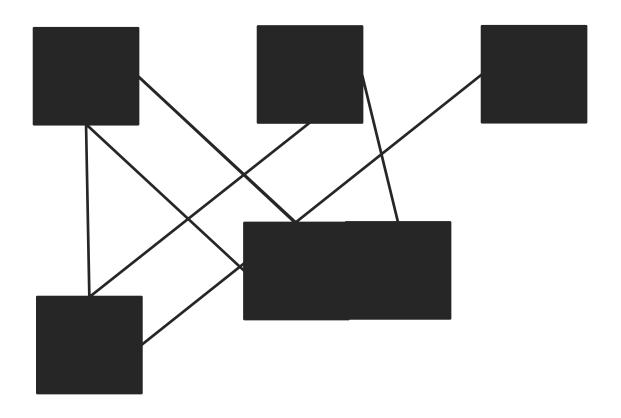
- 1. Dependencies
- 2. Sensitivity
- 3. Timing

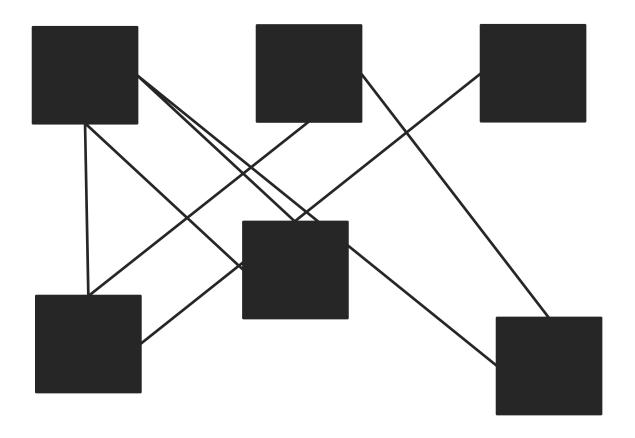


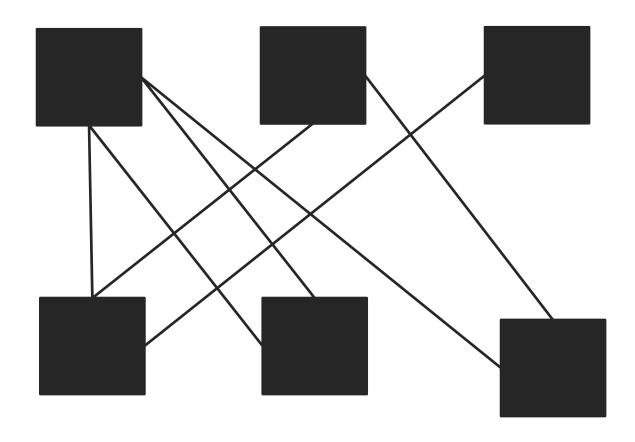


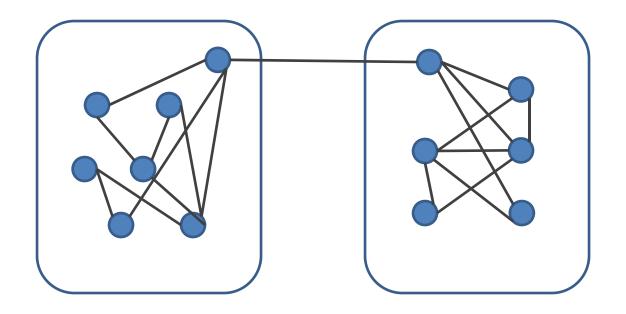


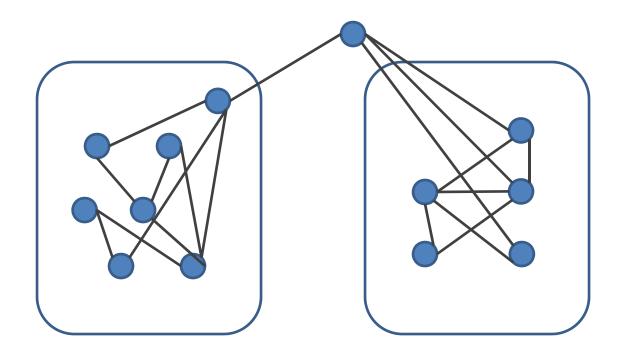


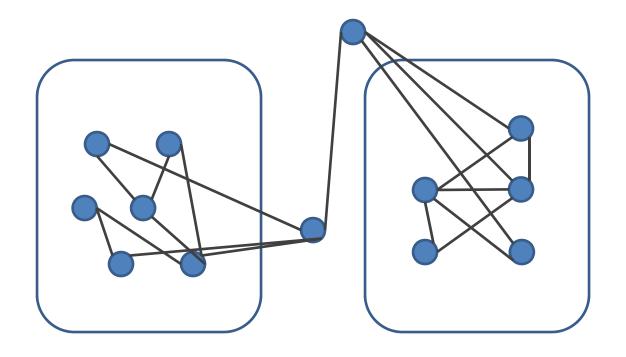


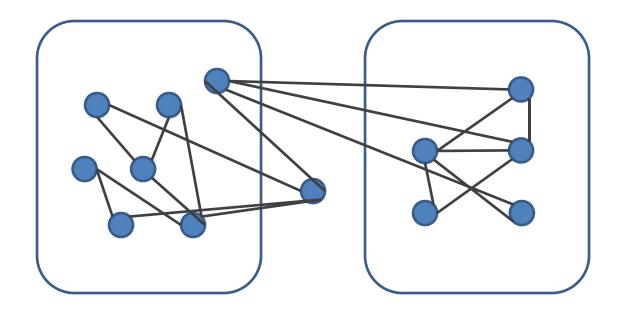


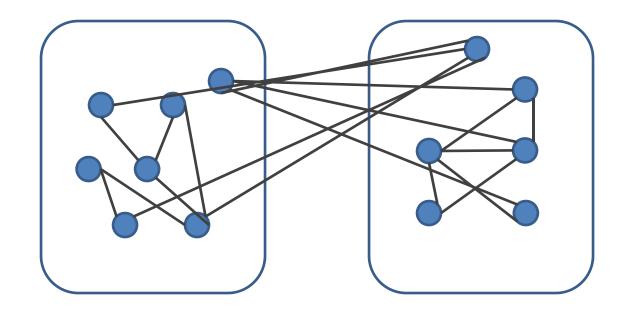








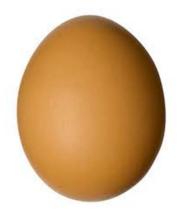




Timing



It is very difficult to gather requirements on large projects.



It is very difficult to split up large projects until you know the requirements.

It depends....

At less than \$1M, the project doesn't need to be split.

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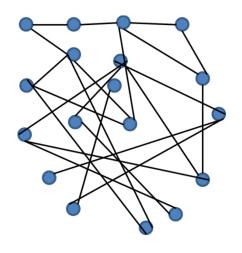
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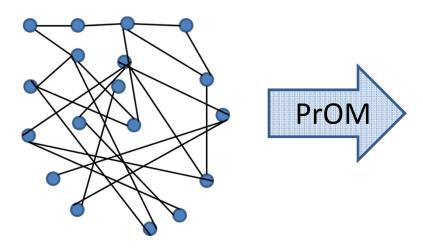
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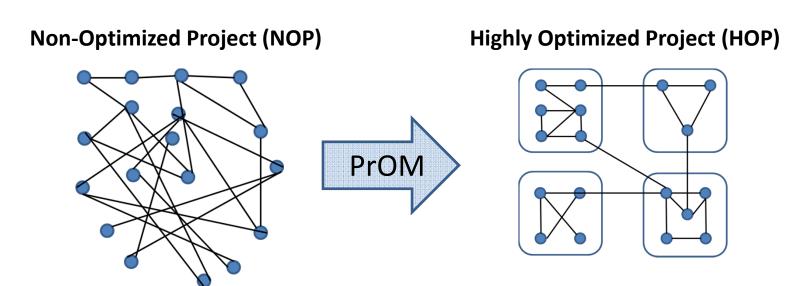
Over \$10M, the split requires a formal pre-planning process, a dedicated team, and a Project Optimization Methodology.

Non-Optimized Project (NOP)



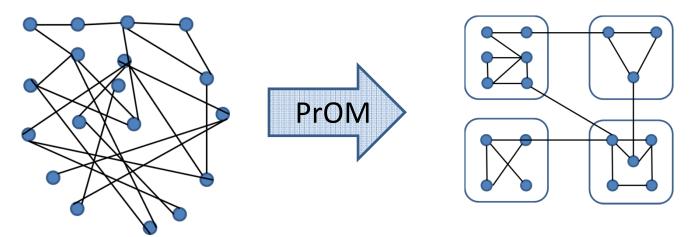
Non-Optimized Project (NOP)





Non-Optimized Project (NOP)

Highly Optimized Project (HOP)



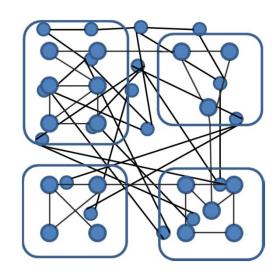
Example of PrOM:

Simple Iterative Partitions (SIP)

Mathematical Analytical

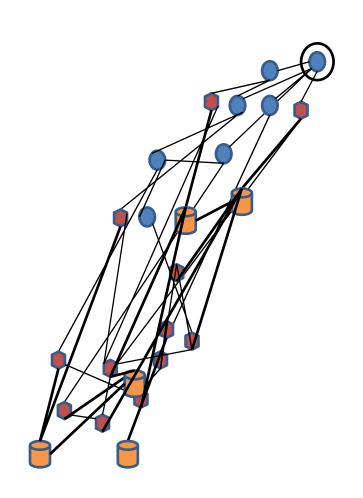
Predictive Patented

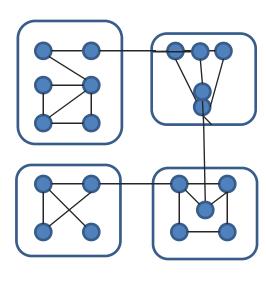
Impact on Failure



Success	Danger	Failure
Zone	Zone	Zone

Impact on Agility





Size Matters!

In a bad way.

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They are unmanageable.

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Worry about how to split large projects into an optimal collection of small projects.

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It is hard to mess them up!

Thank You!

Upcoming Web Shorts:

The Mathematics of Optimization

Size and Agility

Risk in the Cloud

Simple Iterative Partitions (SIP): A Project Optimization Methodology

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The End