

The Origins of Scrum



Leadership
Lean
Cross Functional Teams
Continuous Improvement
Agility
Delighting the Customer
Innovation
Scaling
Leadership

EMC
Ericsson
Workday
Cisco
Salesforce
Walmart
Visa
Macy's
Stubhub
Symantec
Adobe
Intuit
Twitter
Paypal
Version One
Lean IT
BBC
Deloitte
Google
UK Cabinet
Sky News
GOTO
Rabobank
HBS

Achieving the Dream

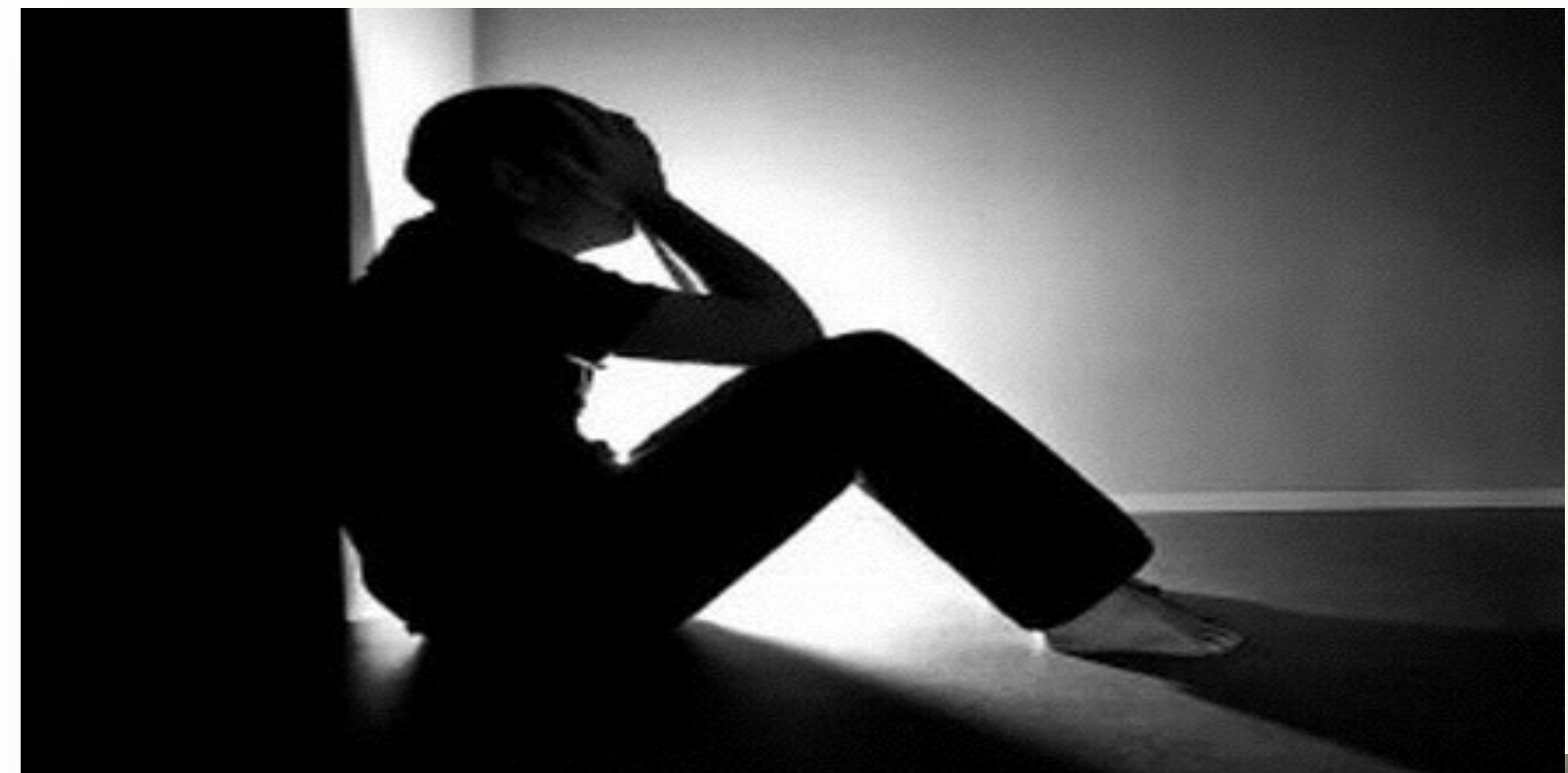


United States Declaration of Independence

*We hold these truths to be self-evident, that all men are created equal, that they are endowed by their Creator with certain unalienable rights, that among these are **life, liberty and the pursuit of happiness.***

Most People Think Work Sucks

- 55% of workers are unhappy in their job ([Conference Board](#))
- 65% are looking for a new job ([Deloitte](#))
- We find paid work is ranked lower than any of the other 39 activities individuals engage in, with the exception of being sick in bed. ([Center for Economic Performance](#))



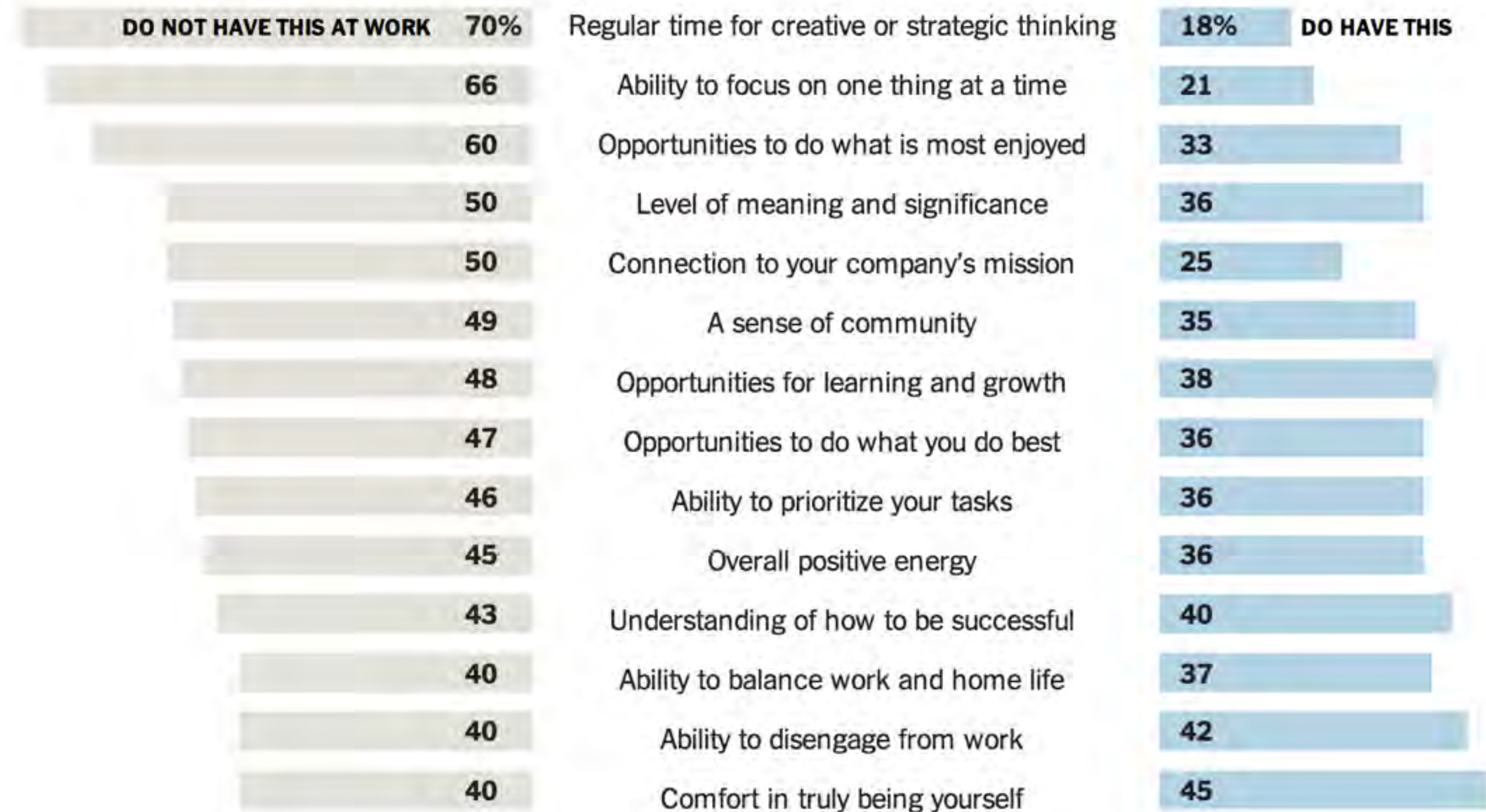
New York Times Sunday Review

Why You Hate Work

By TONY SCHWARTZ and CHRISTINE PORATH MAY 30, 2014

White-Collar Salt Mine

A 2013 survey of 12,115 workers worldwide found that many lacked a fulfilling workplace.



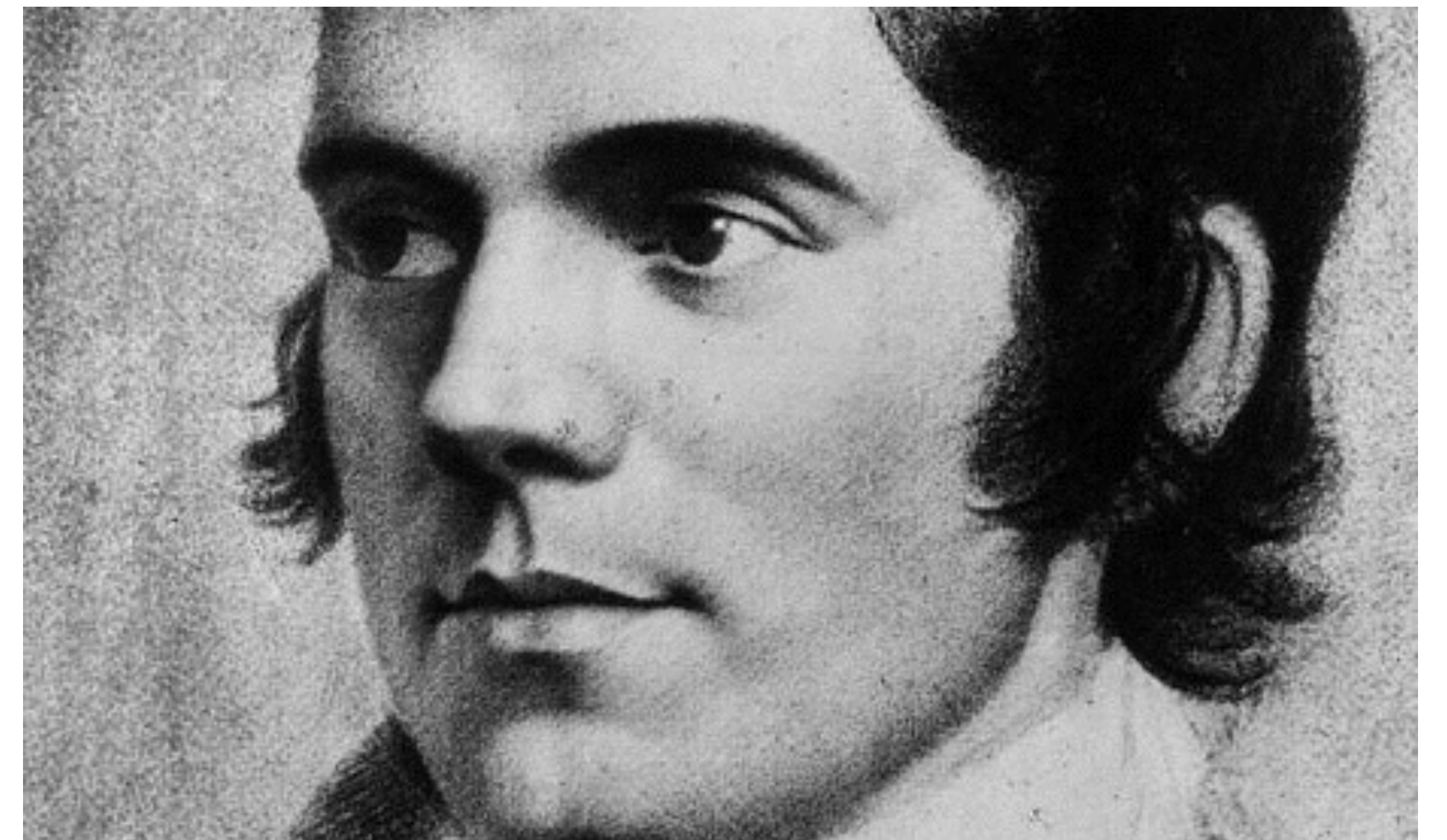
Source: The Energy Project.

94 percent of those surveyed were in white-collar jobs; 6 percent were in blue-collar jobs.

Few Achieve the Dream

**The best-laid schemes o' mice an' men
Gang aft agley,
An' lea'e us nought but grief an' pain,
For promis'd joy!**

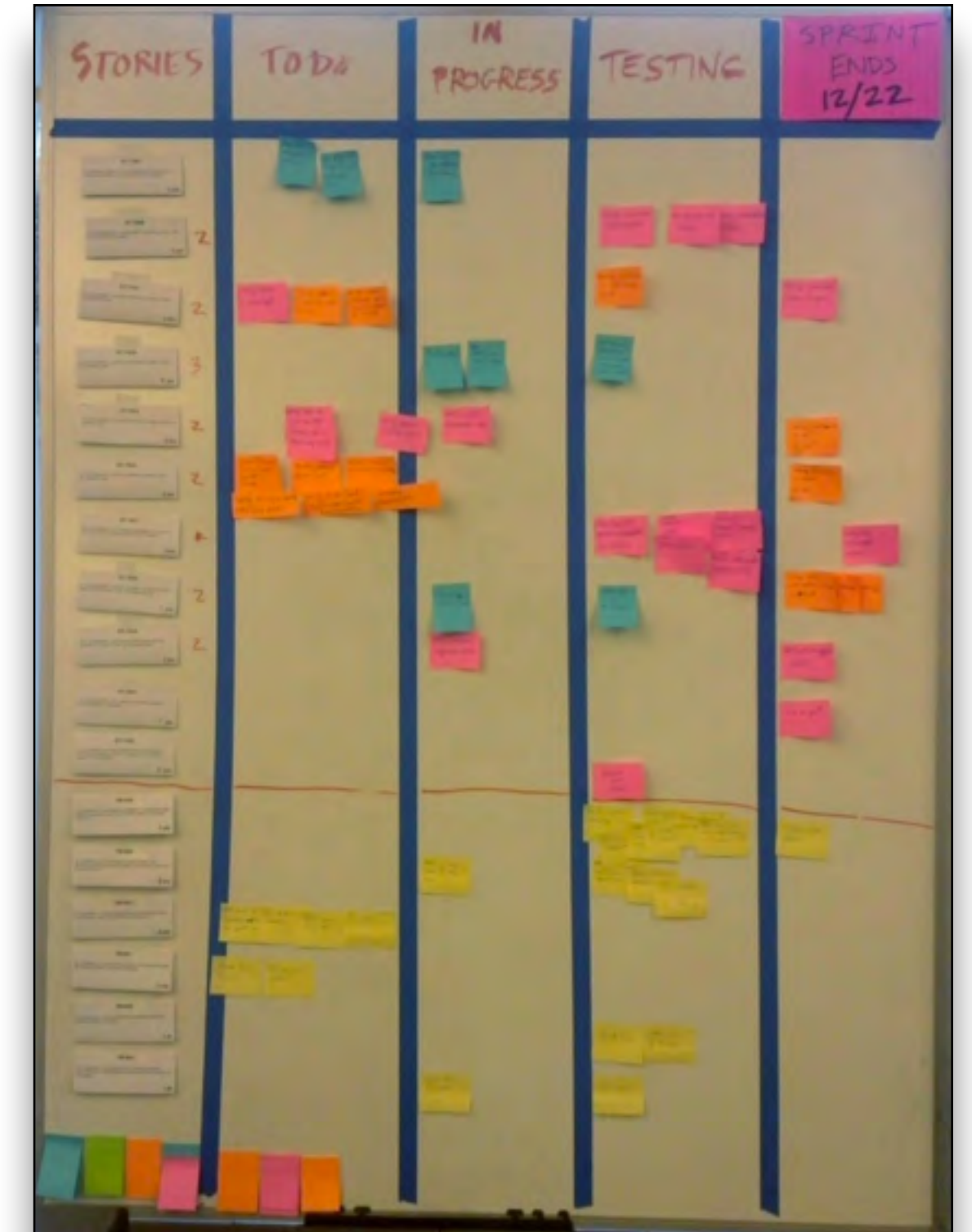
Robert Burns



Twice as much sweat in half the time



Make Work Visible



General Douglas MacArthur



Duty, Honor, Country



The shadows are lengthening for me. The twilight is here... But I want you to know that when I cross the river, ***my last conscious thoughts will be of the Corps, and the Corps, and the Corps.***

Plans are Worthless, Planning is Everything!



Plans are Worthless, Planning is Everything!

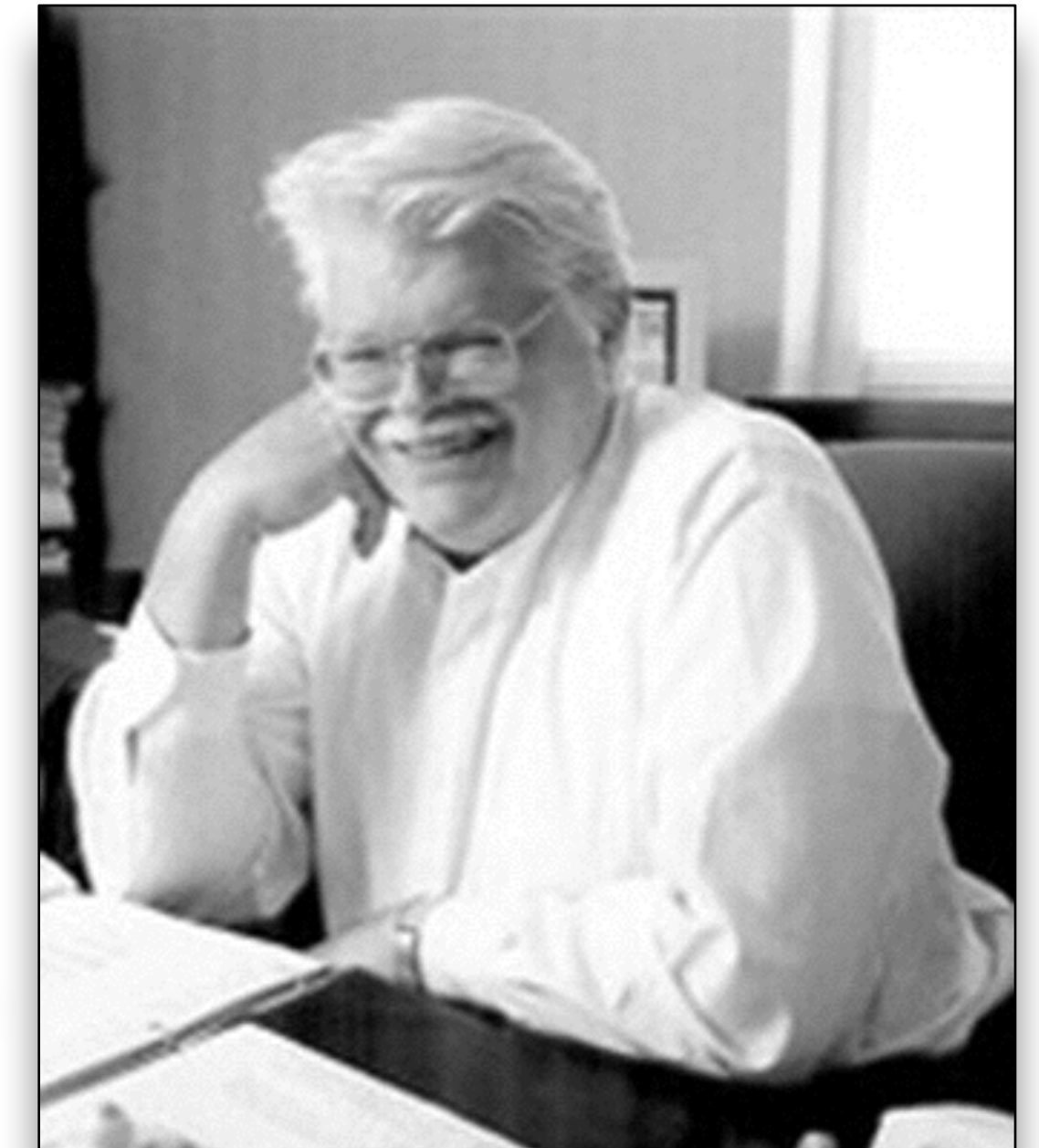
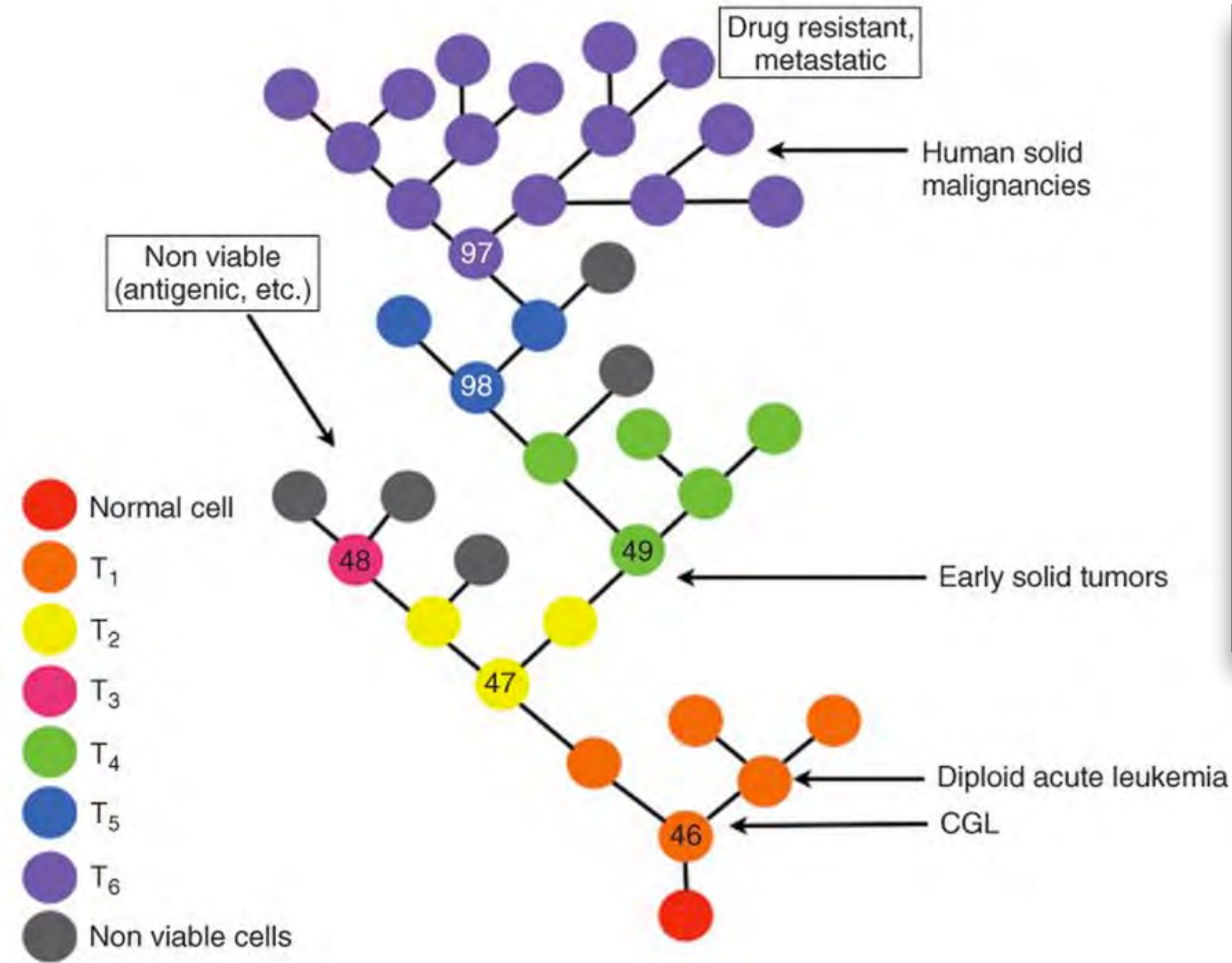
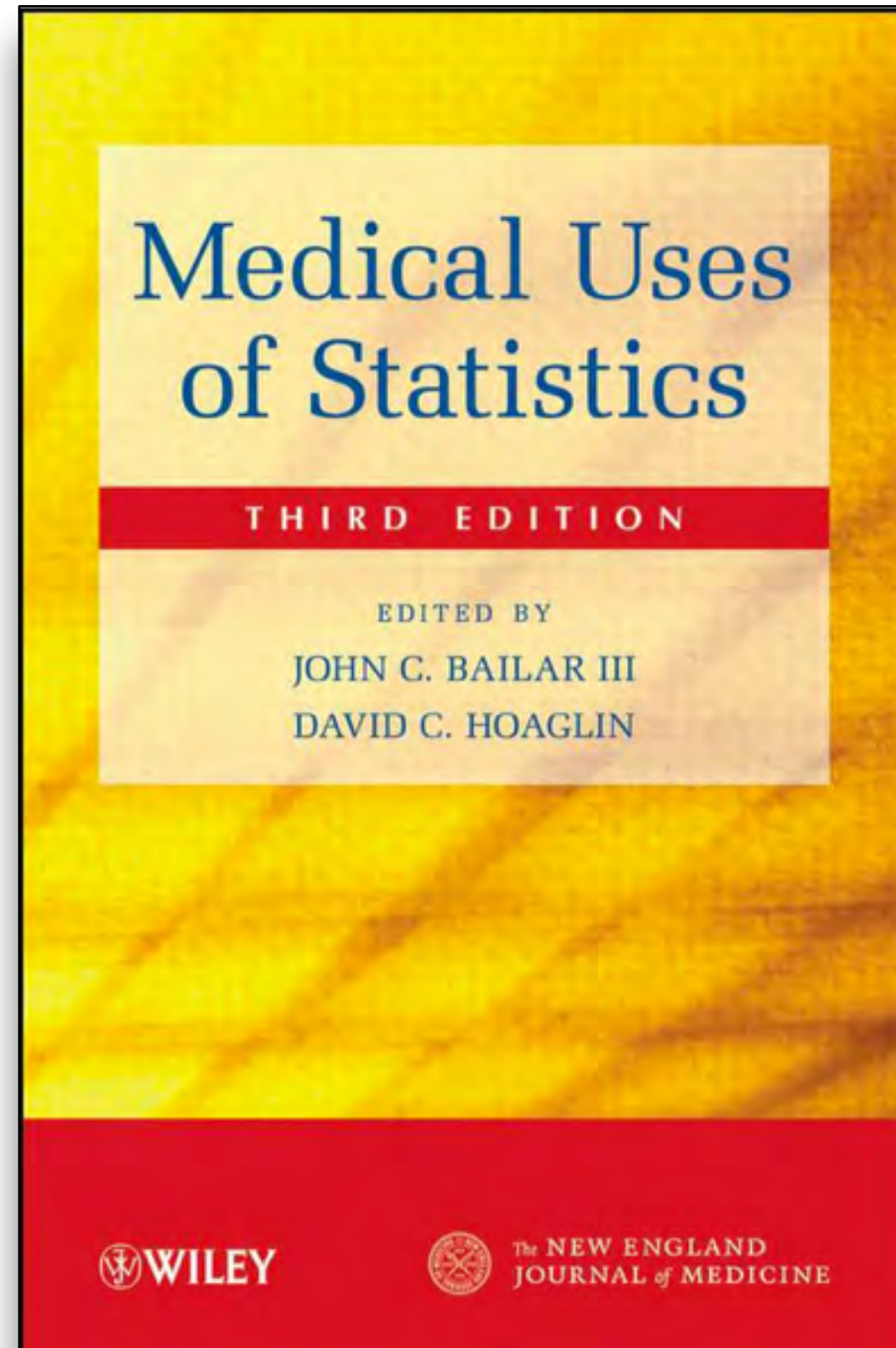


Captain Edwin Atterberry Shot Down August 1967- Wikipedia

U.S. Air Force Academy

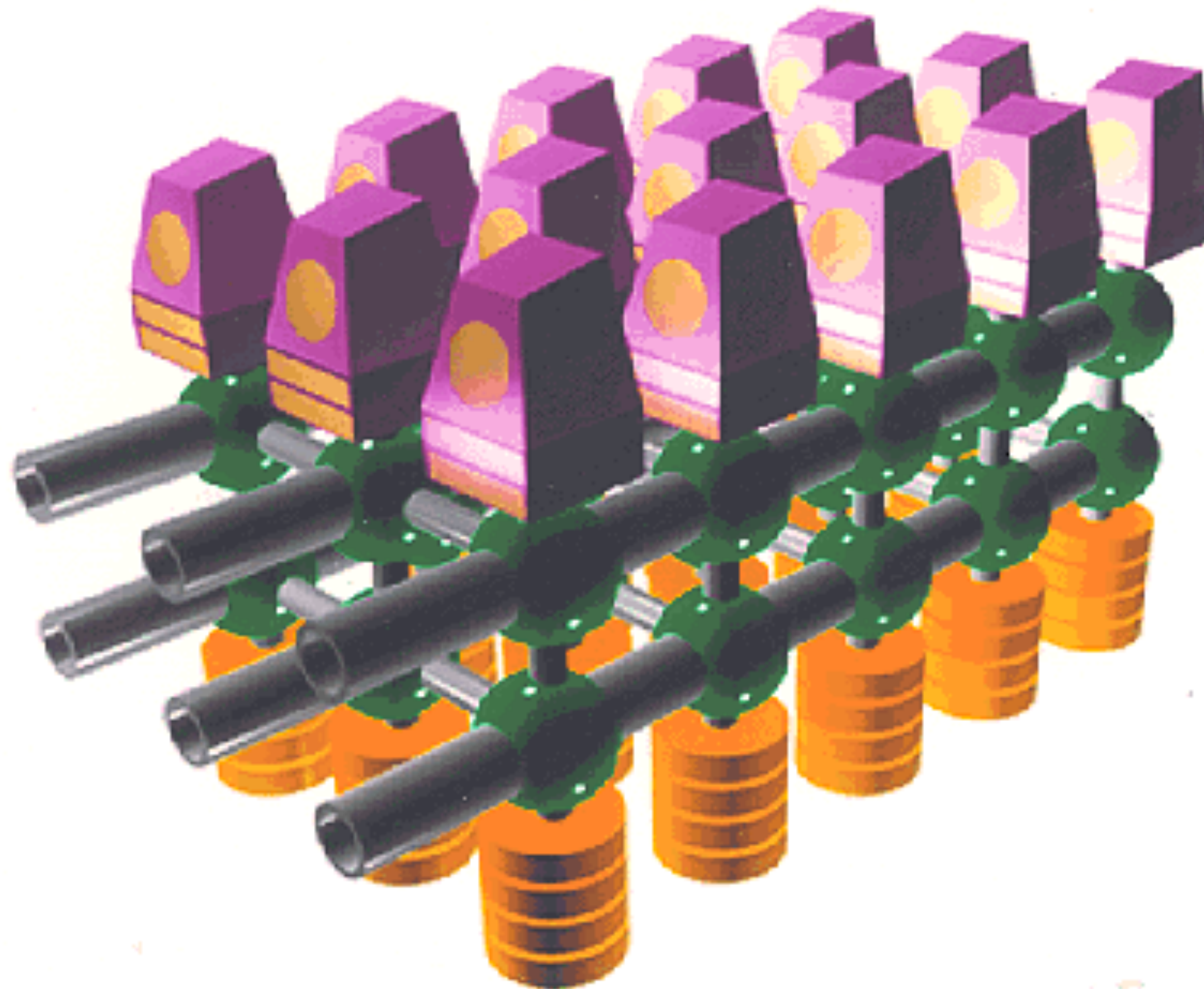


Cellular Architecture: Programming the Human Biocomputer

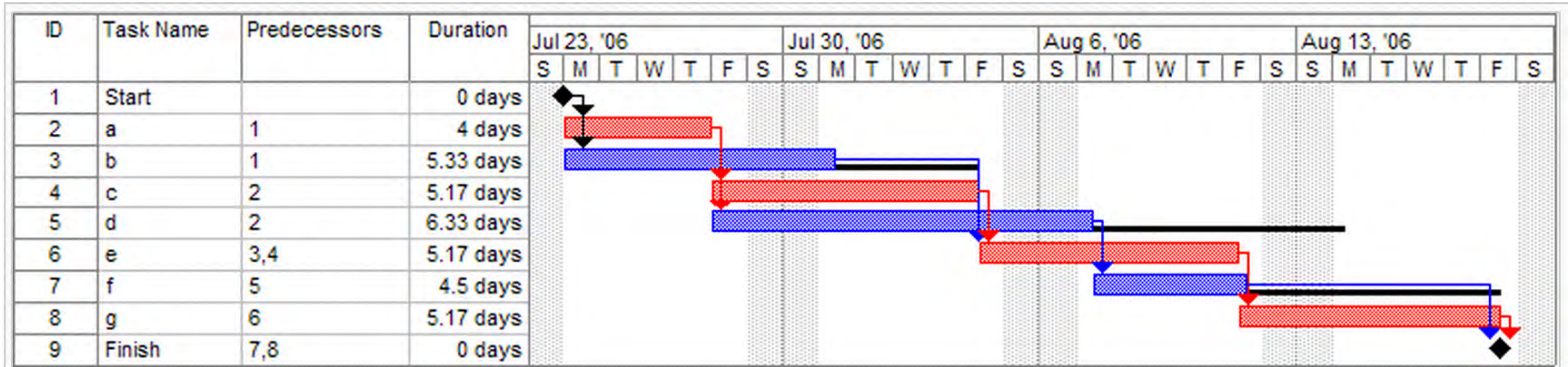


John Bailar, M.D., Ph.D.

Systems Architecture: Massively Parallel



Project Architecture: 84% Failure Rate



Death March at the Bank

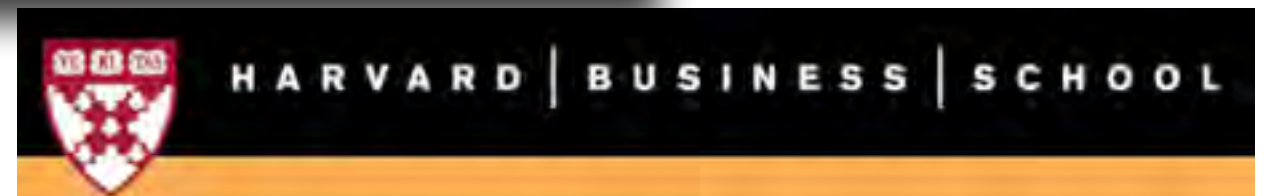
nc. @

Landing the Project

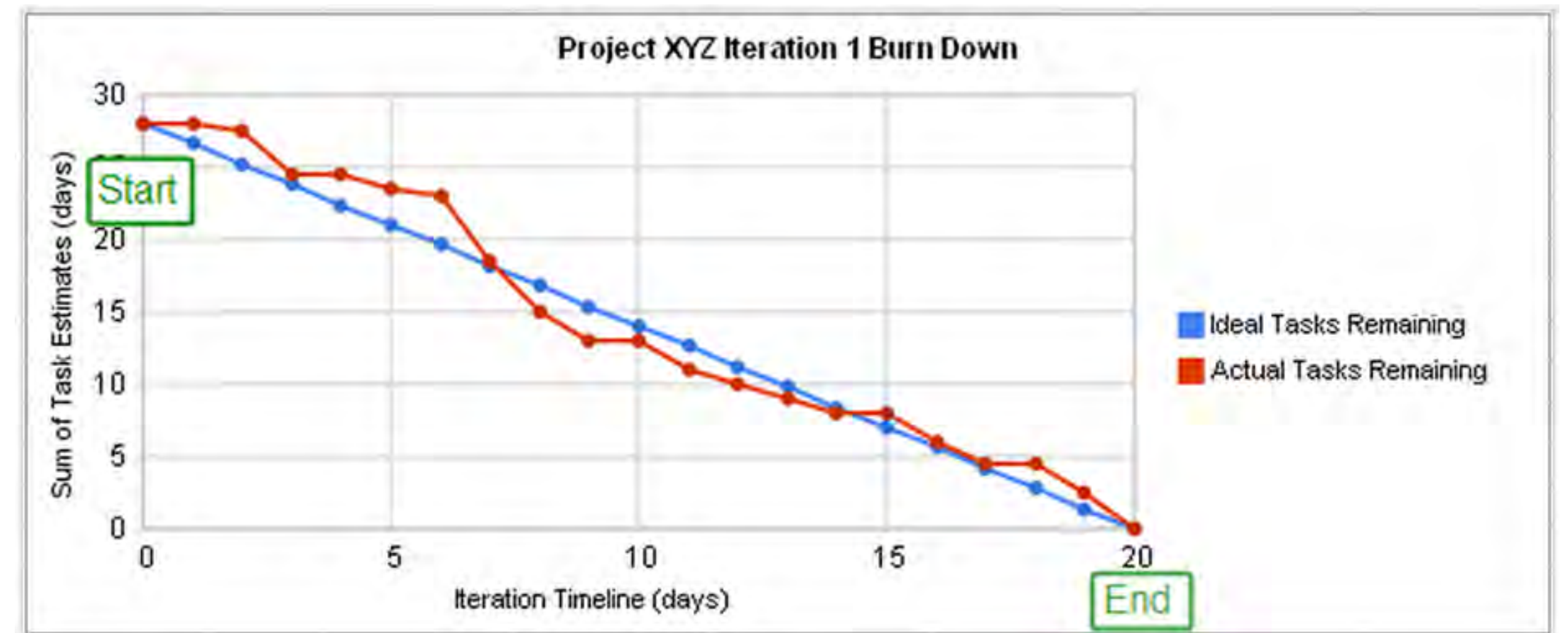
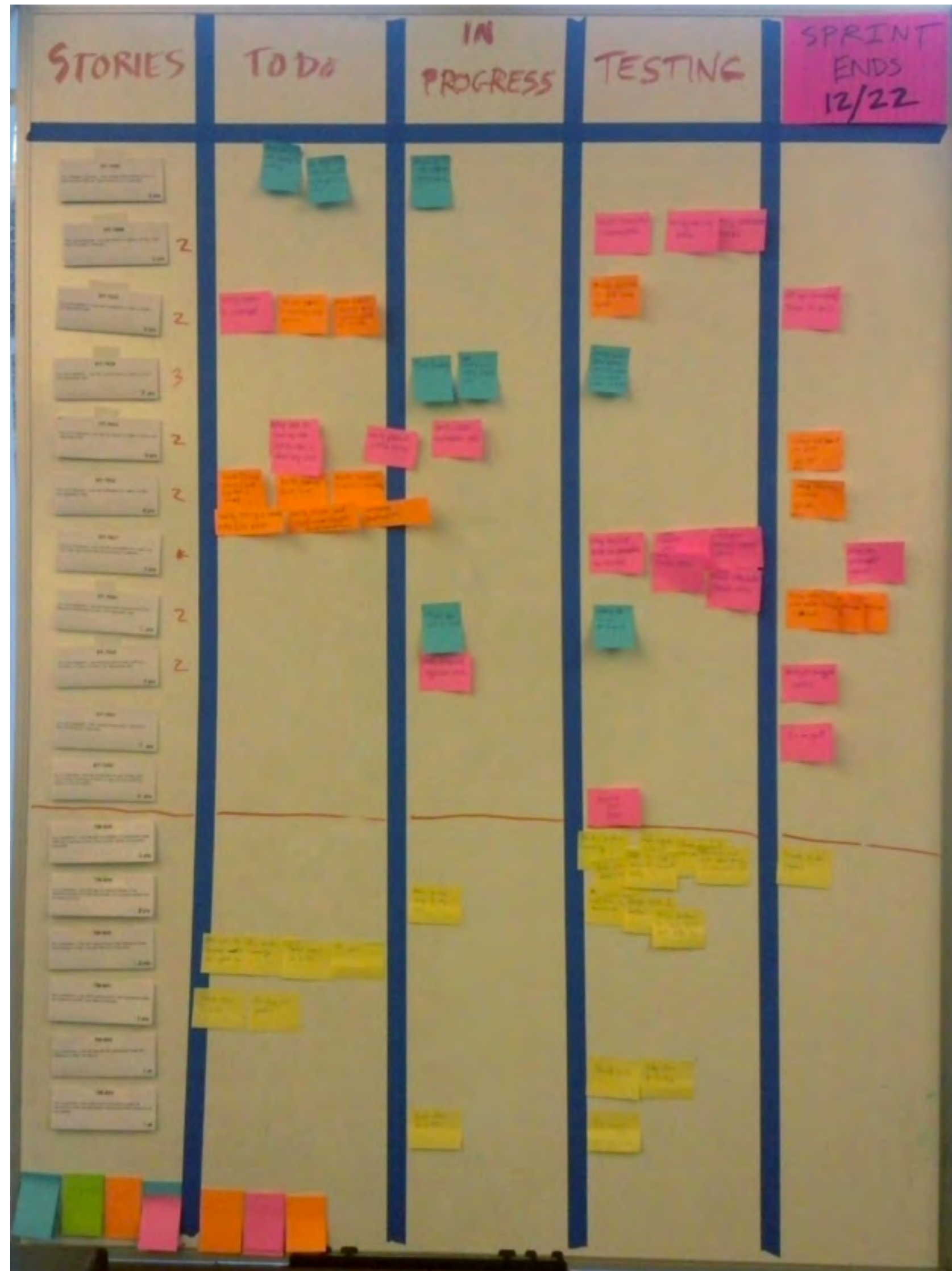


YouTube: RF-4E of the Hellenic Air Force

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Make Work Visible!



Bootstrapping



iRobot

- Helen Greiner, First Lady of Robots
- Colin Angle
- Prof. Rodney Brooks



Grameen Bank

Microfinance company

The Grameen Bank is a Nobel Peace Prize-winning microfinance organization and community development bank founded in Bangladesh. It makes small loans to the impoverished without requiring collateral. [Wikipedia](#)

Founder: [Muhammad Yunus](#)

Founded: 1983



Grameen Bank



Prof. Muhammed Yunus

ACCION International

Nonprofit organization

Accion International is a global nonprofit organization that supports microfinance institutions in their work to provide financial services to low-income clients. [Wikipedia](#)

Founder: [Joseph Blatchford](#)

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Grameen...



Grameen Foundation



Grameen America



Women's World Banking



FINCA International

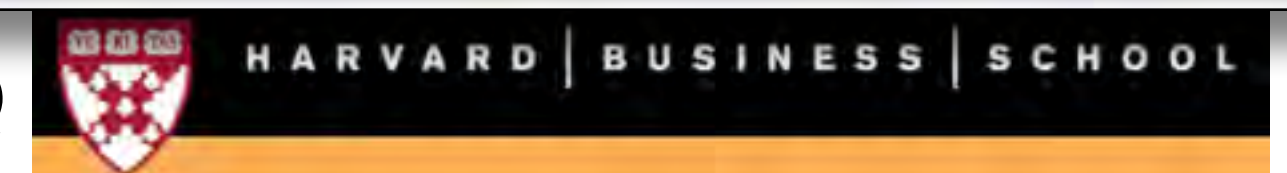


Grameen Foundation



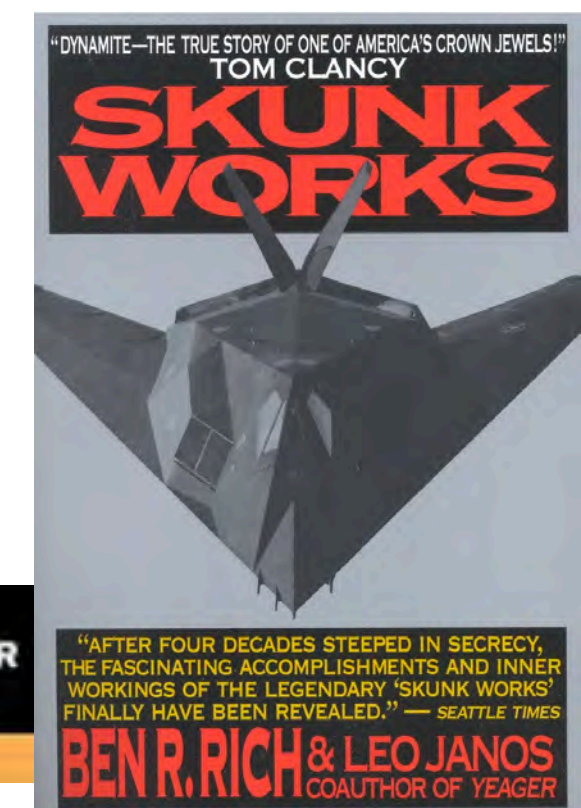
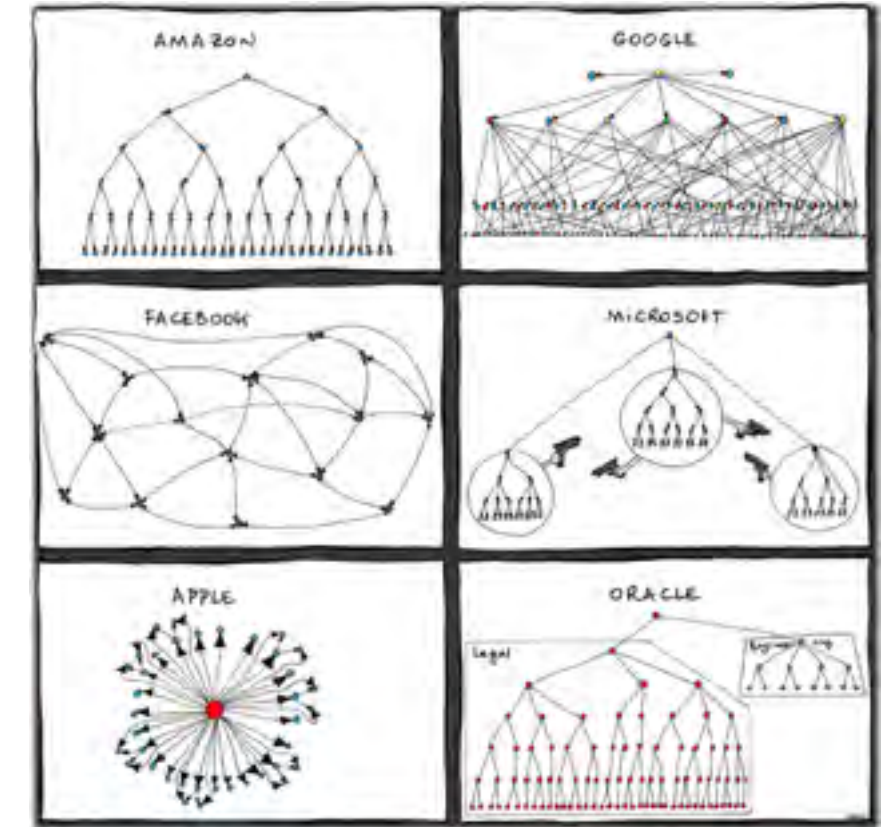
Freedom from Hunger

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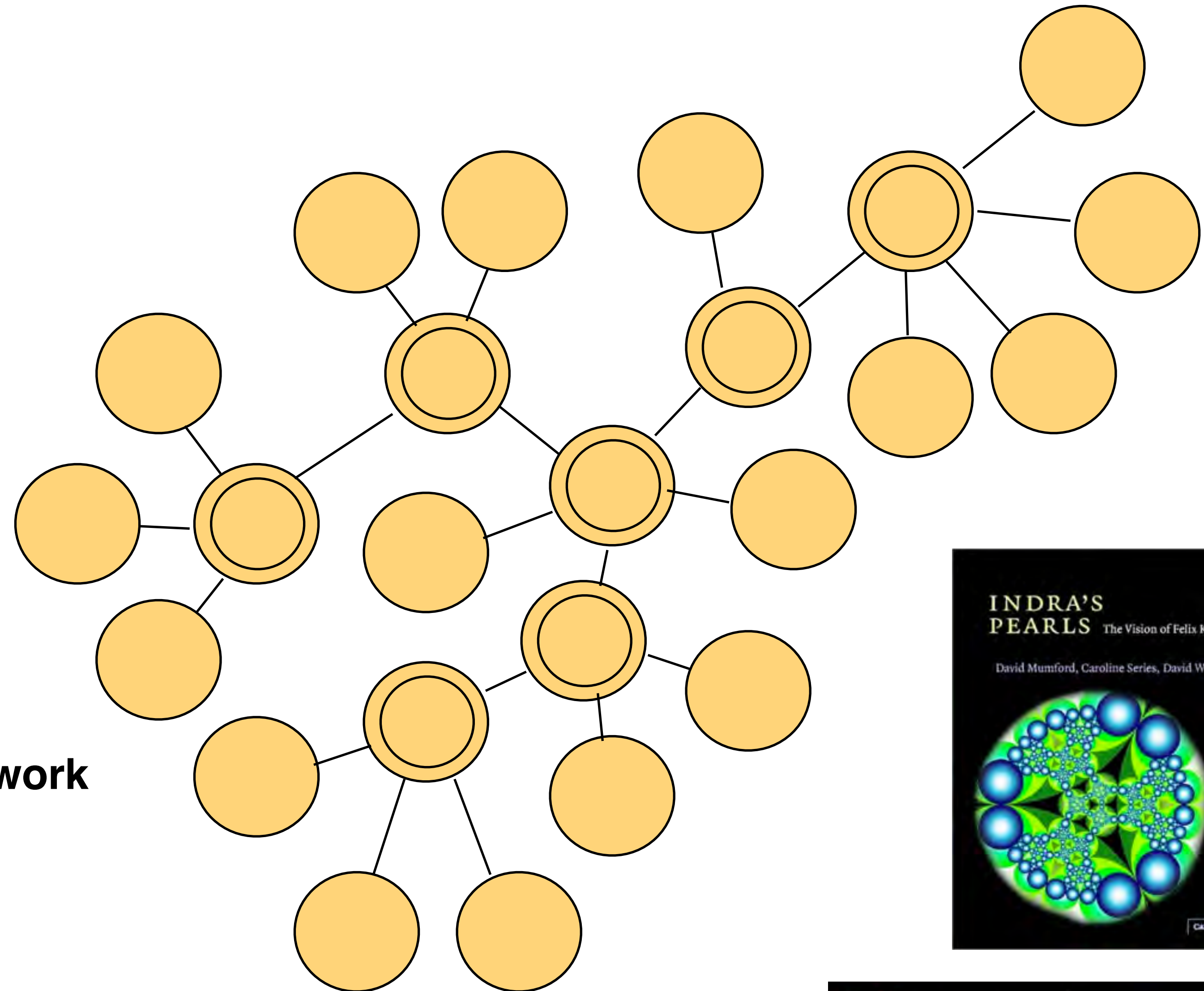
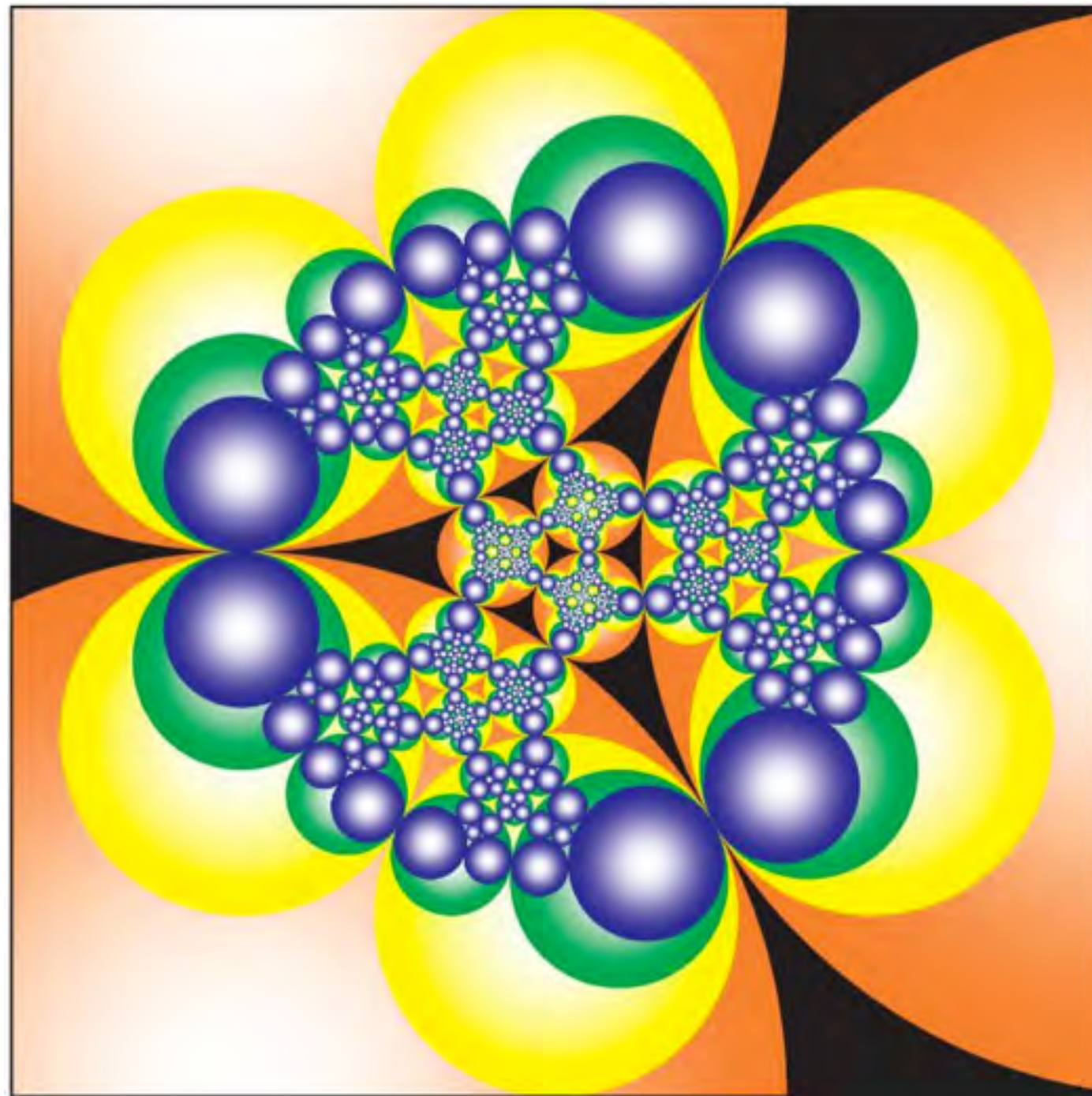


Organizational Architecture: 3 Constraints

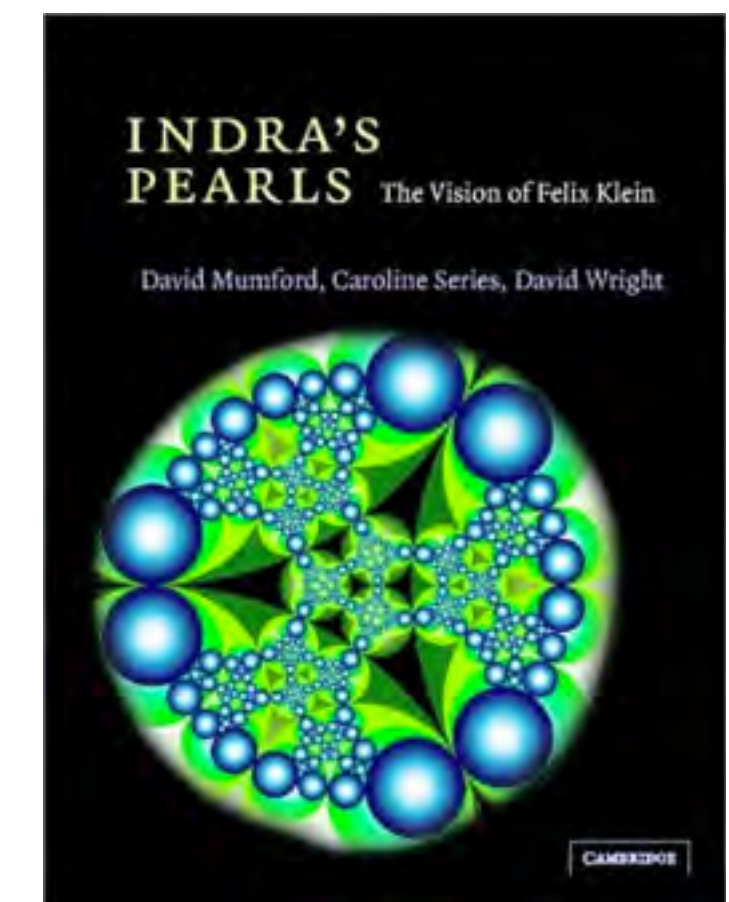
- Conway's law
 - **organizations which design systems ... are constrained to produce designs which are copies of the communication structures of these organizations**
- Brook's Law
 - **adding people to a late project makes it later**
- Drucker's "Cuckoo Effect"
 - **any innovation in a corporation will stimulate the corporate immune system to create antibodies that destroy it**



Fractal Organization: Optimal Team Size = 4.6

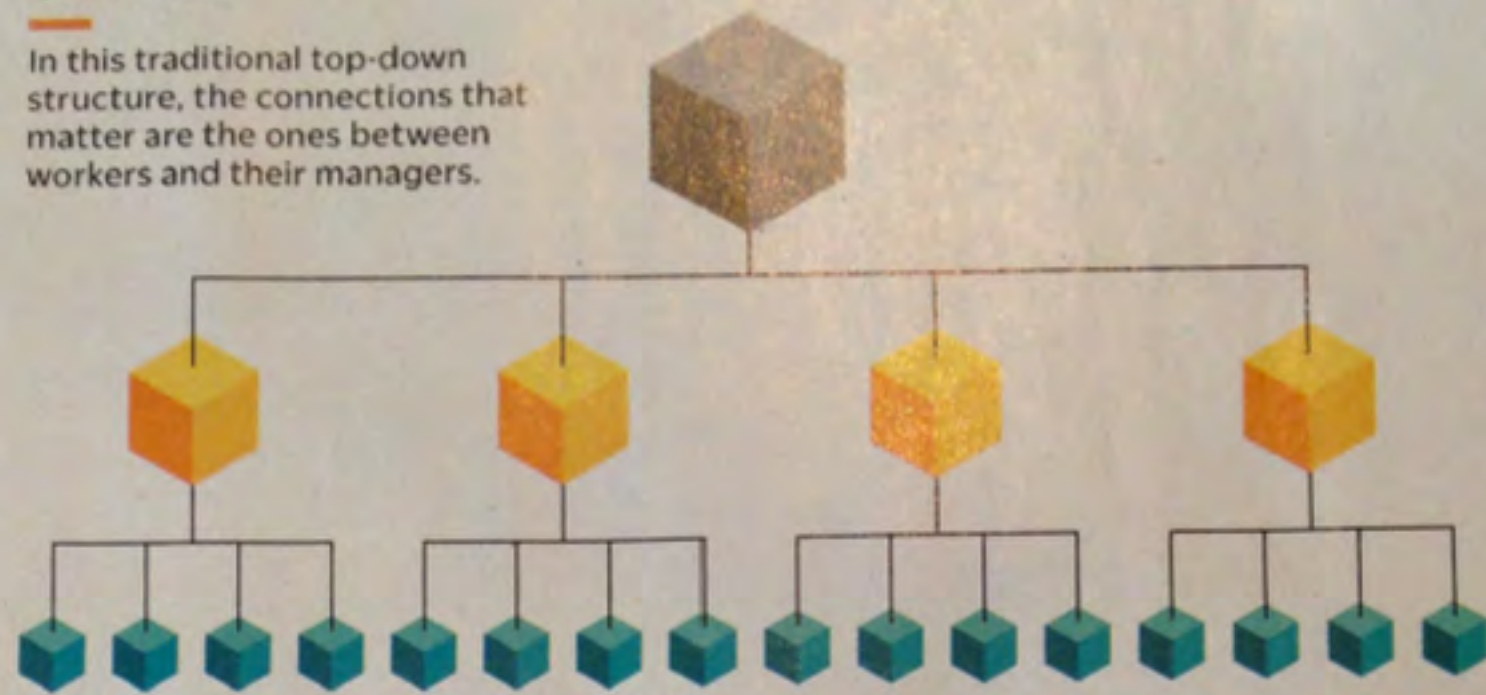


- Scrum is a object-oriented framework
- Refactor the organization to maximize flow
- Small steps regularly
- Large changes periodically



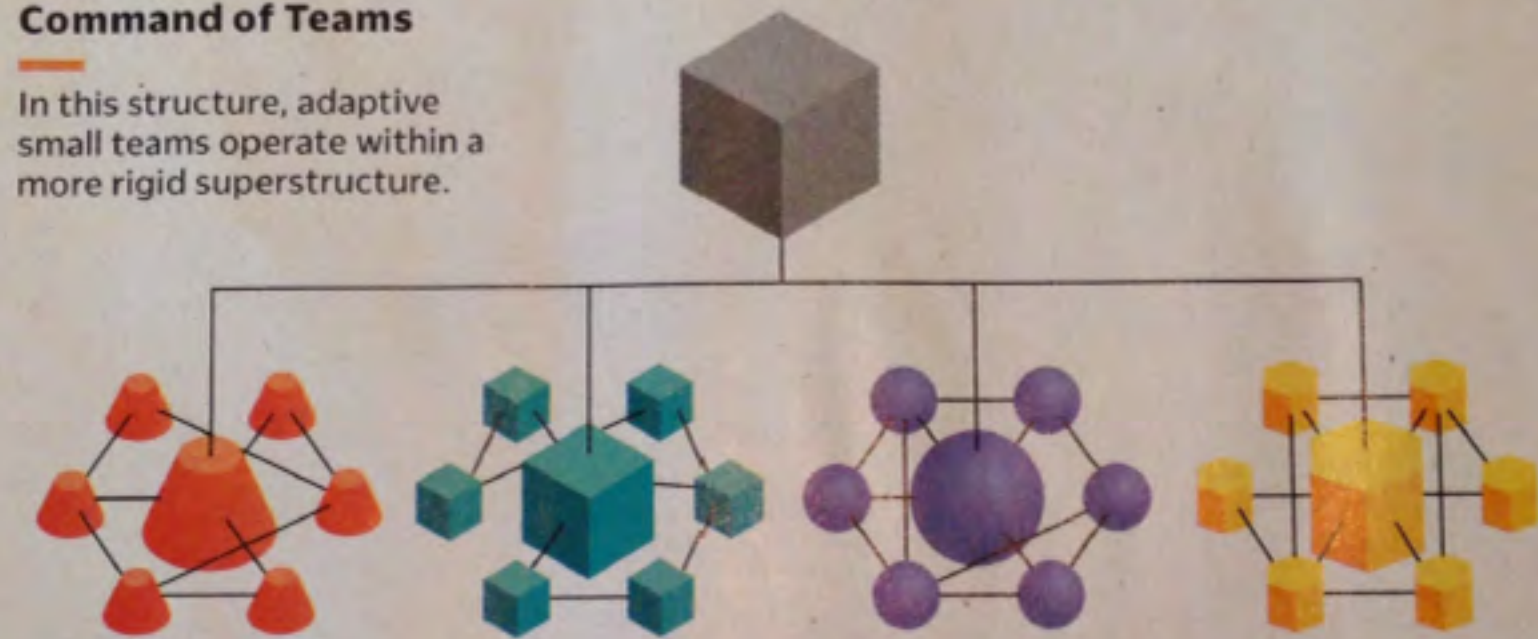
Command

In this traditional top-down structure, the connections that matter are the ones between workers and their managers.



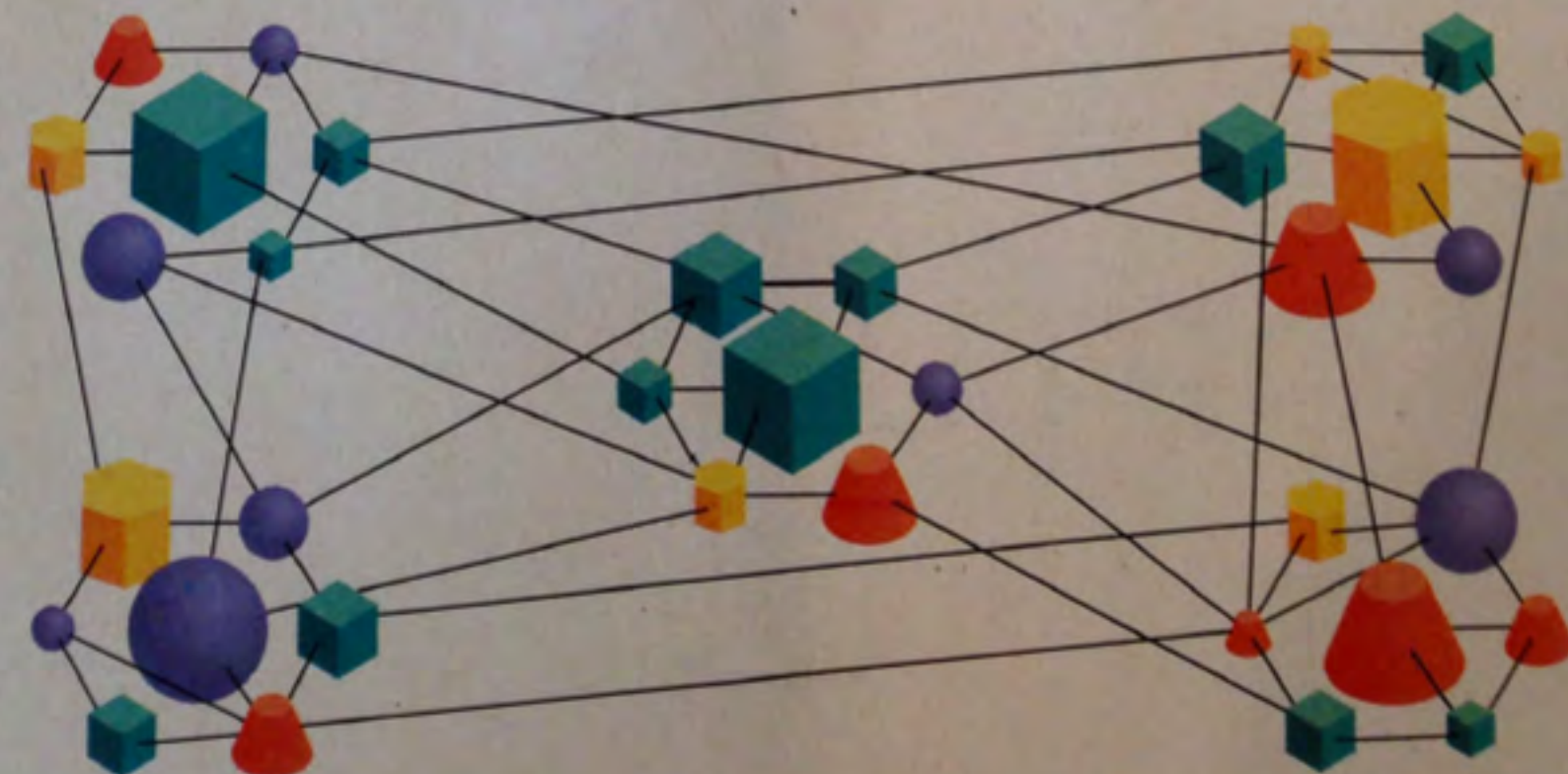
Command of Teams

In this structure, adaptive small teams operate within a more rigid superstructure.



Team of Teams

The relationships among teams should resemble the closeness among individuals on those teams.



Your structure is your strategy!

"In addition to being a fascinating and colorful read, this book is an indispensable guide to organizational change." —WALTER ISAACSON, *from the foreword*

TEAM — OF — TEAMS

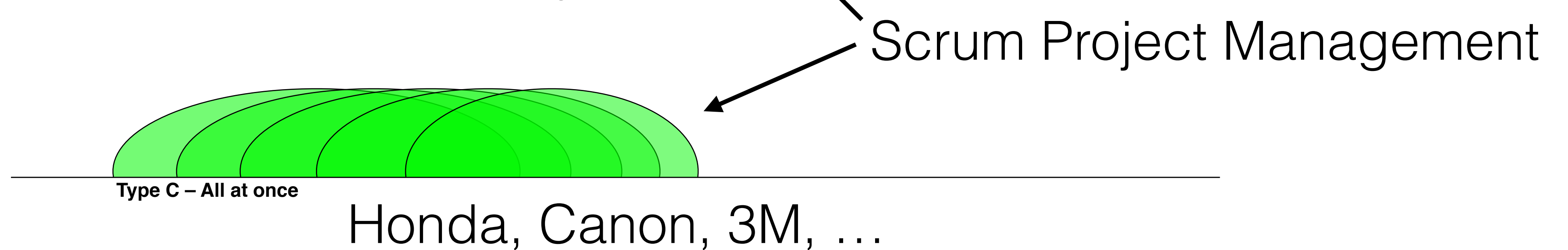
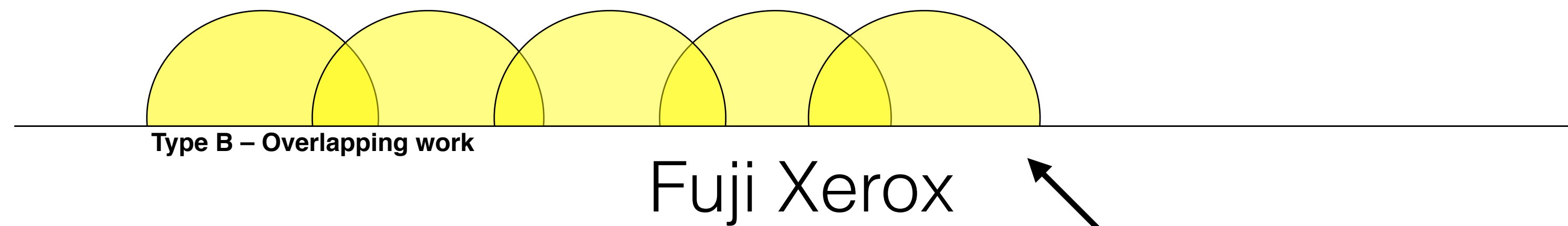
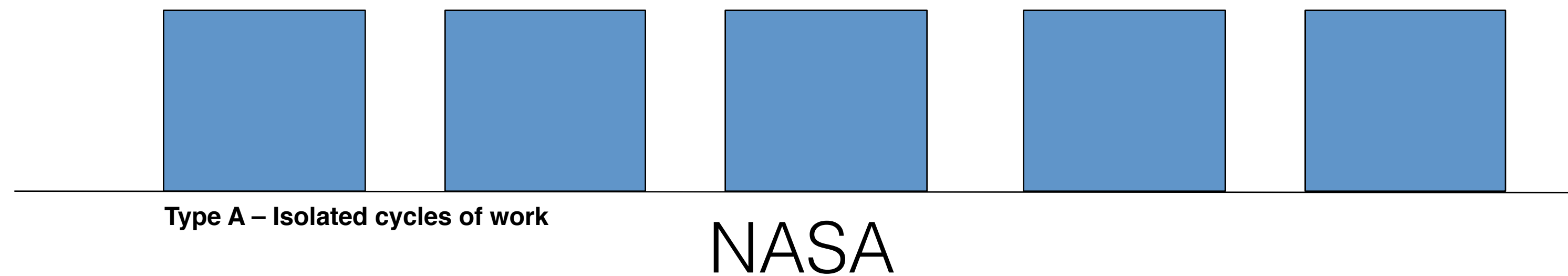
NEW RULES OF ENGAGEMENT
FOR A COMPLEX WORLD

GENERAL STANLEY
McCHRYSTAL

U.S. Army, Retired

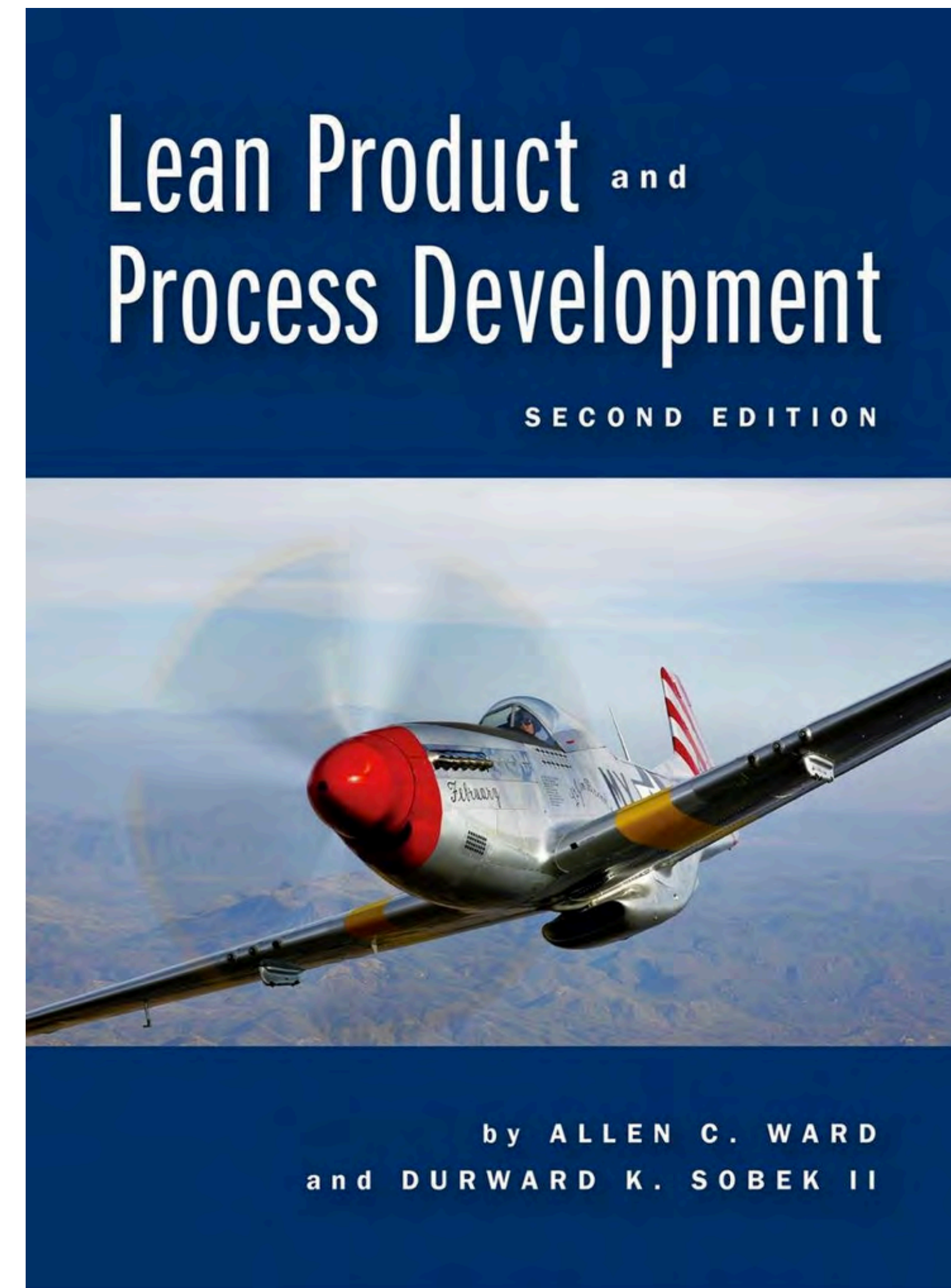
with Tantom Collins, David Silverman,
and Chris Fussell

Takeuchi and Nonaka
The New New Product Development Game
Harvard Business Review, Jan 1986

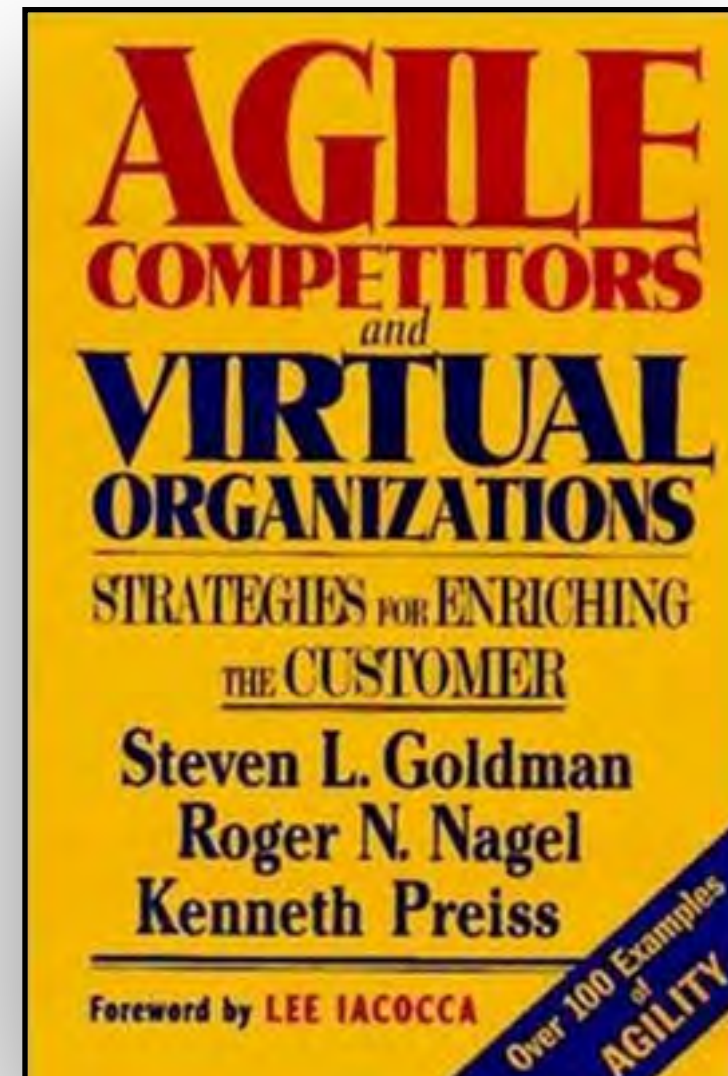


Characteristics of Great Teams

- Transcendent Goals
- Autonomy
- Cross-Fertilization

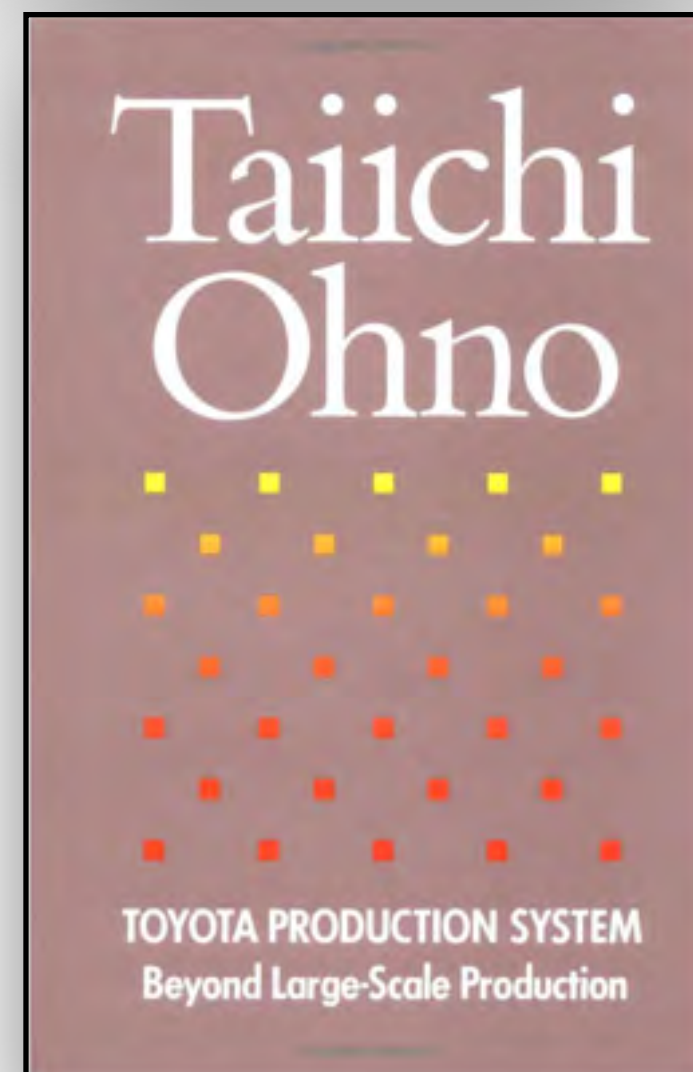


Agile = Lean + Customer Collaboration



Agile competition goes beyond lean manufacturing by permitting the customer, jointly with the vendor or provider, to determine what the product will be.

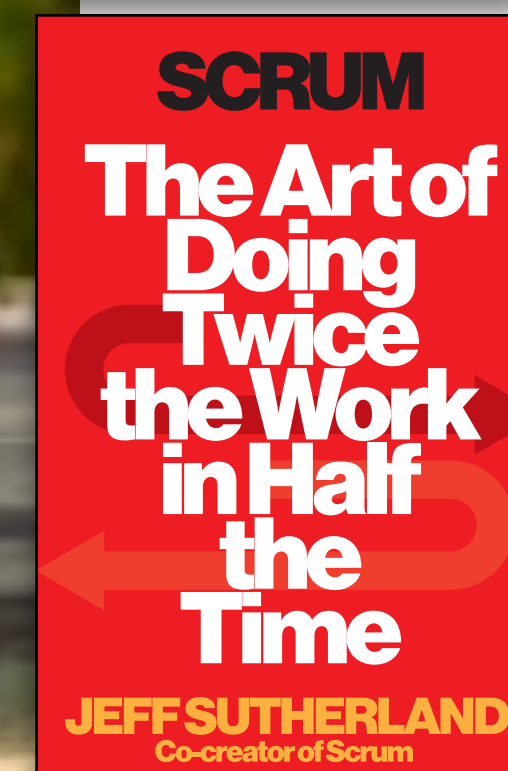
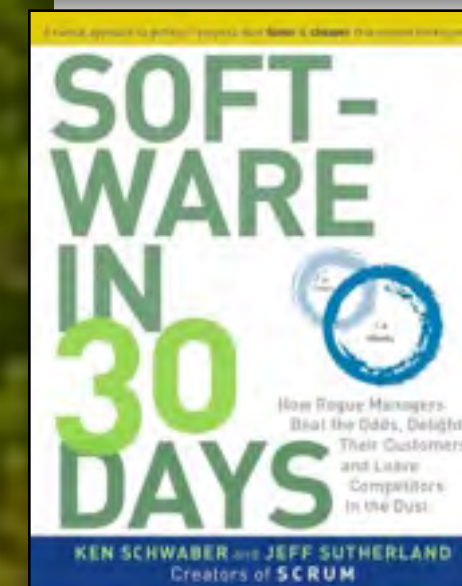
For agile competitors, the ability to individualize products comes at little or no increase in manufacturing cost. It does, however exact a cost: **It requires major changes in organization, management philosophy, and operations.**



Leadership needs to change focus:

- **Eliminate waste**
- **Understand Value Stream Analysis**
- **Implement Single Piece Continuous Flow**

Deploy Aggressive Scrum!



The faster you go, the more resistance you get!

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F35 Delayed by Software Problems

- \$143 Billion over budget
- At least another year late
- The cost of the Navy's F35C grew from \$273 million in 2014 to a wallet-busting \$337 million by 2015.



DEFENSE

How DOD's \$1.5 Trillion F-35 Broke the Air Force

David Francis
Thursday, 31 Jul 2014 | 8:35 AM ET

THE FISCAL TIMES

The F-35 Joint Strike Fighter is the most expensive, and possibly the most error ridden, project in the history of the United States military. But DOD has sunk so much money into the F-35 — which is expected to cost \$1.5 trillion over the 55-year life of the program — that the Pentagon deemed it "too big to fail" in 2010.

World's Best Stealth Fighter is not Made in America

Bill Sweetman, Aviation Week

- Saab JAS 39E Gripen
- All systems radically improved, cheaper than previous version
- Cost \$43M (80% less than F35)
- Just won in Brazil, may beat F35 in Denmark
- Agile development using Scrum





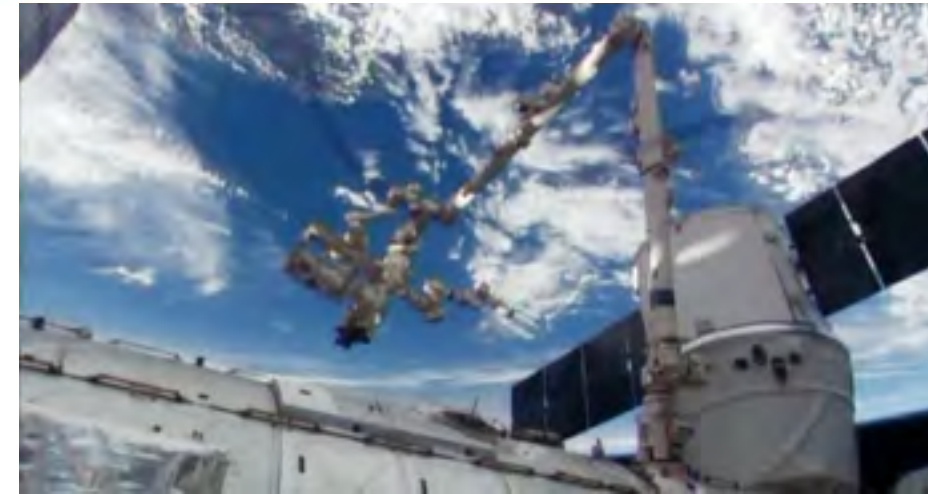
Agile Leadership



iRobot



U.S. DEPARTMENT OF DEFENSE



Build for Change



- Sales, Marketing, Finance
- Manufacturing
- Technology, Software
- Families and weddings
- Education
- Agriculture
- Government
- Space

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Changing the World

Higher grades
Faster learning
More fun
Leadership Development
Involves handicapped
Motivated students
Self-discipline



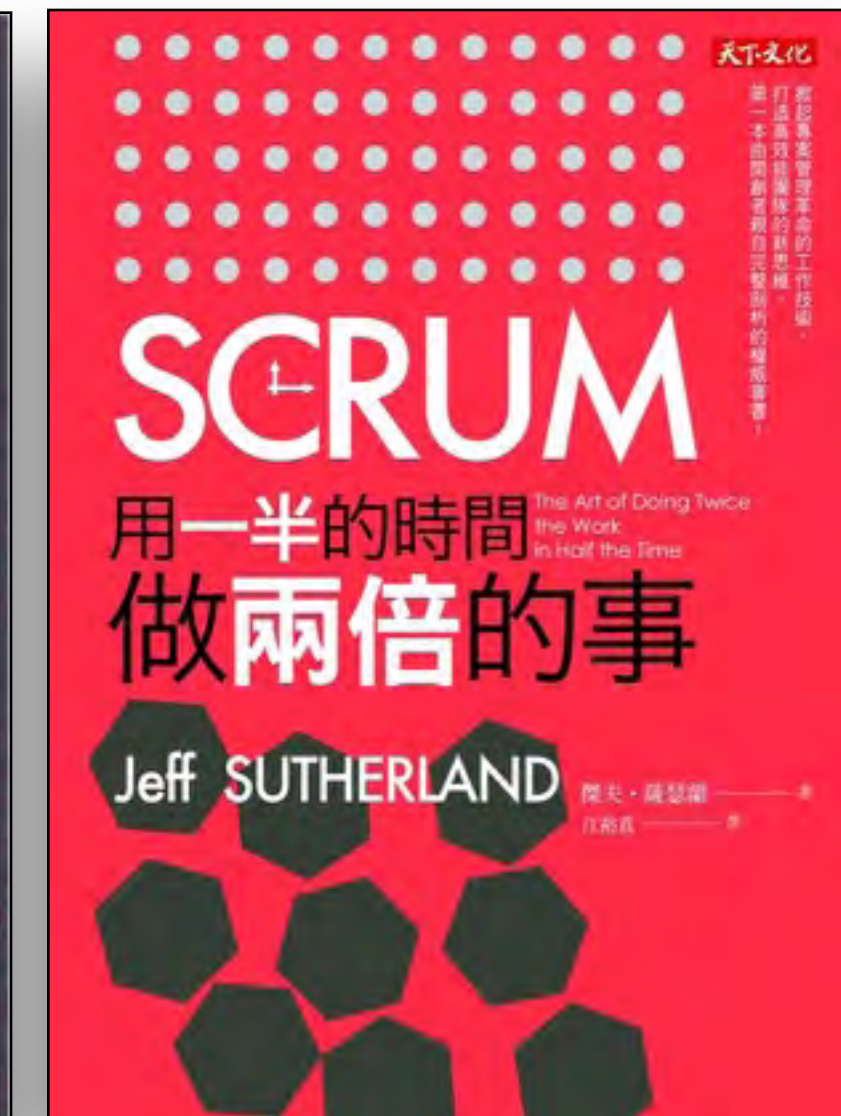
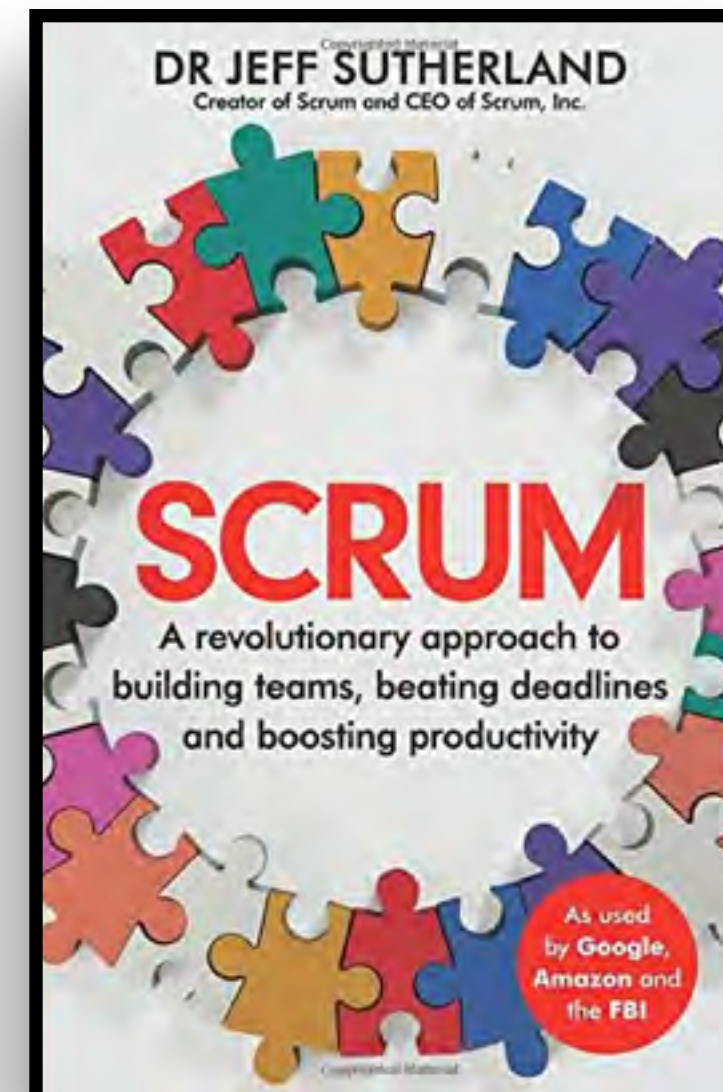
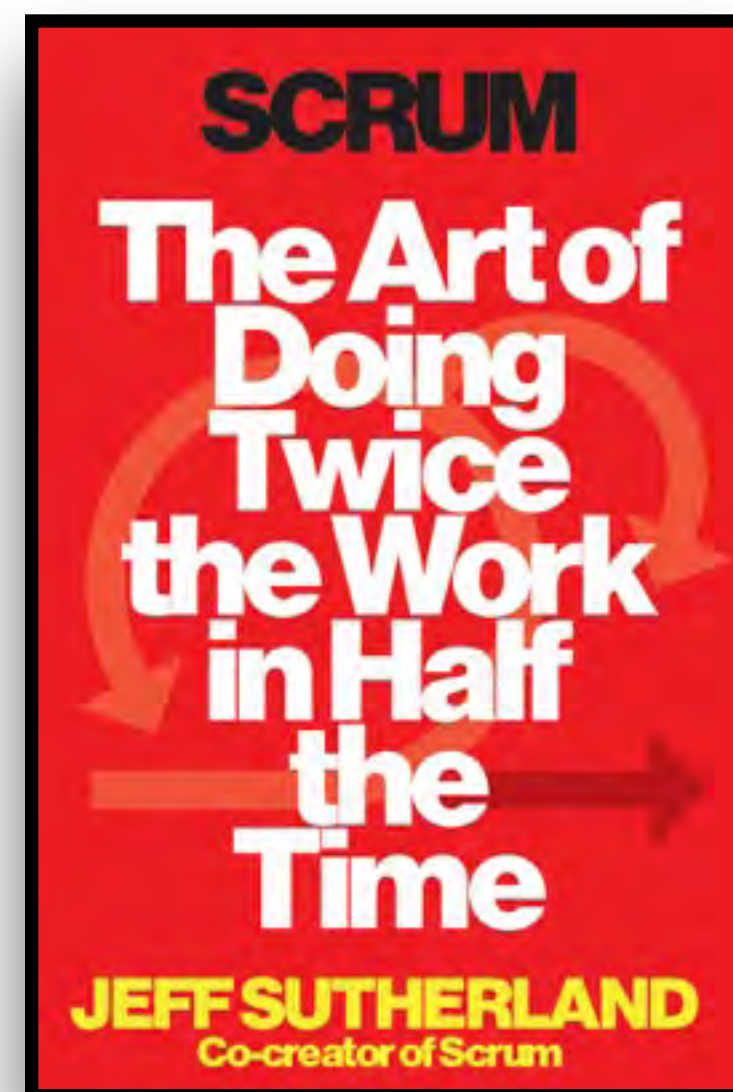
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Scrum is a Productivity Superweapon - It is Shockingly Efficient

Rick Horgan, Sr. Editor, Crown Business

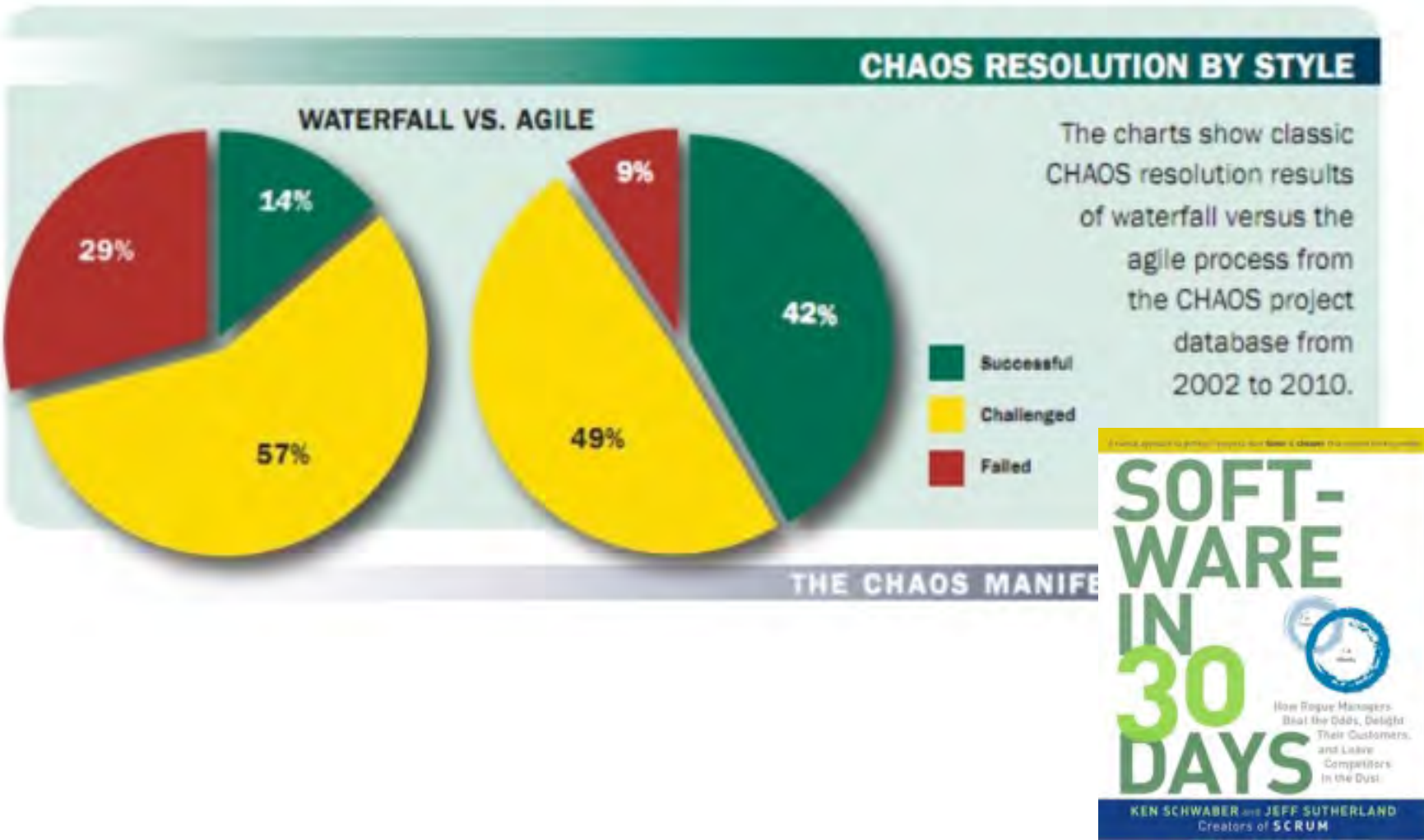


Risk Management 2011-2015

Standish Group International, Inc.

SIZE	METHOD	SUCCESSFUL	CHALLENGED	FAILED
All Size Projects	Agile	39%	52%	9%
	Waterfall	11%	60%	29%
Large Size Projects	Agile	18%	59%	23%
	Waterfall	3%	55%	42%
Medium Size Projects	Agile	27%	62%	11%
	Waterfall	7%	68%	25%
Small Size Projects	Agile	58%	38%	4%
	Waterfall	44%	45%	11%

Previously Published Data 2002-2010



Waterfall vs Agile 2011-2015 Data

