



DevOps Kaizen:

Practical Steps to Start & Sustain an Organization's Transformation

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DevOps Consulting
Operational Improvement

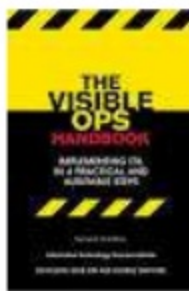
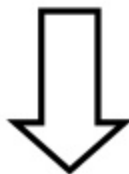
#SimplifyOps



Tools



Gene Kim



... but WHY are they different?

The ability to improve.

**The unique trait of high-performing companies is
that they are good at **learning fast**.**

Improvement already has a well known recipe: Plan - Do - Study - Act (PDSA)



Other variants:
PDCA
OODA

W. Edwards Deming - 1950



© The Deming Institute

Why are so many organizations **unable** to improve?

1. The **work isn't visible**
2. People are **working out of context**
3. Inertia is pulling your **org out of alignment**

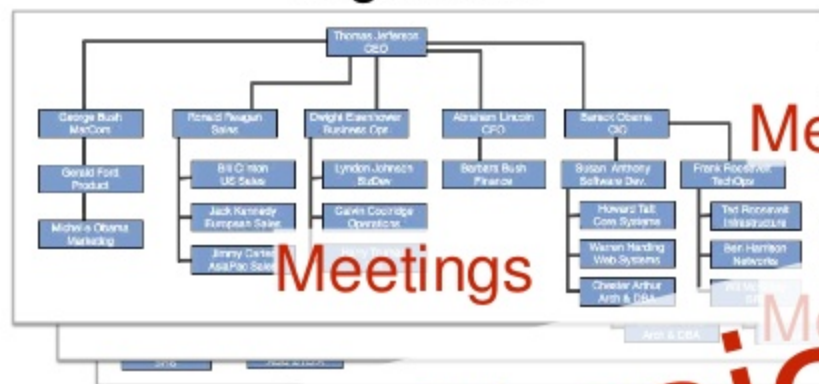


(Silo Effects)



Traditional “Visibility” For Technology Managers

Org Charts



Meetings

Meetings

Meetings

Strategic &

Meetings

Reference Architecture

Budget

Secret Meetings

Meetings

Project Meetings

Meetings

Release Trains

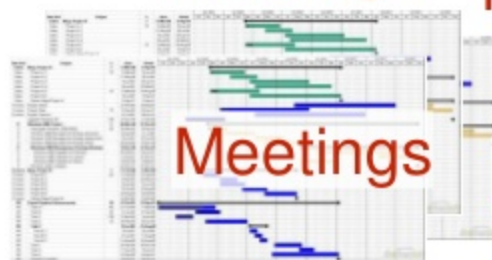
Meetings

Meetings

Meetings

Meetings

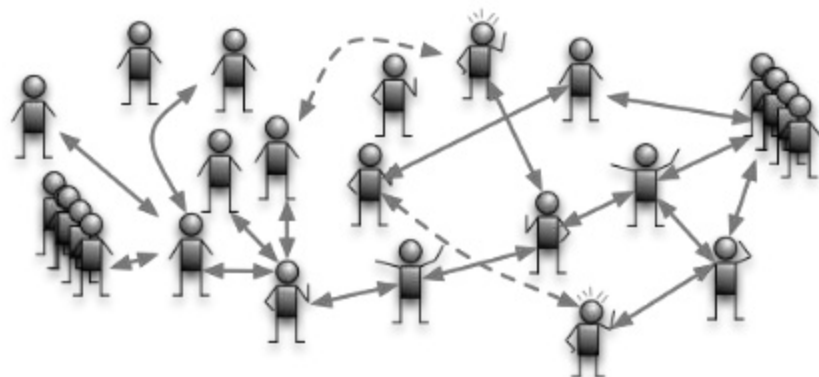
Meetings



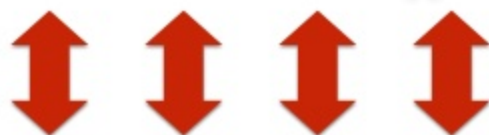
It's a complex system

No wonder...

1. The **work isn't visible**
2. People are **working out of context**
3. Inertia is pulling your **org out of alignment**



Complex
System



interacting with



Complex
System

The only way to fix a sufficiently complex system is to create the conditions for the system to fix itself.

"I know the answer!..."

**Too costly...
outsource more!**



Finance

**We need results...
re-org until we do!**



**Executive
Committee**

**More discipline...
tighter process and
more approvals!**

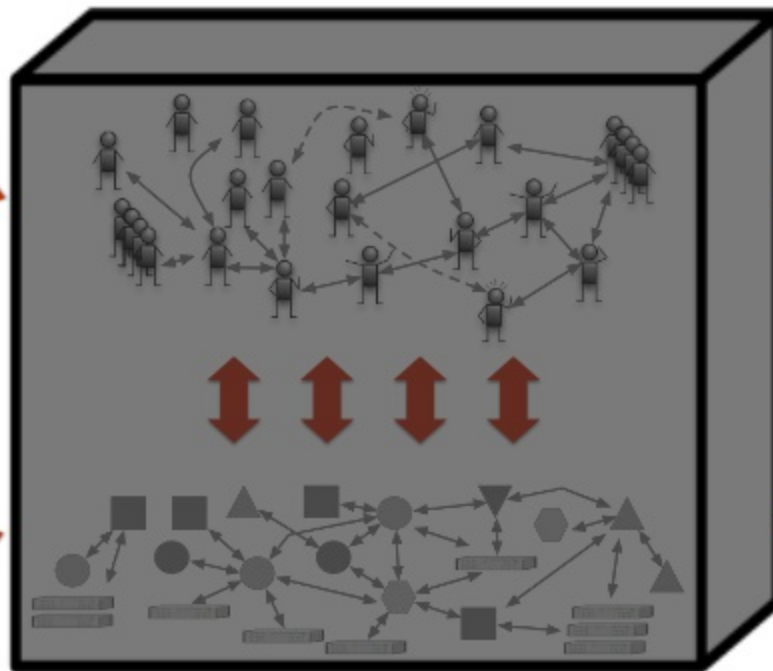


**Change
Management**

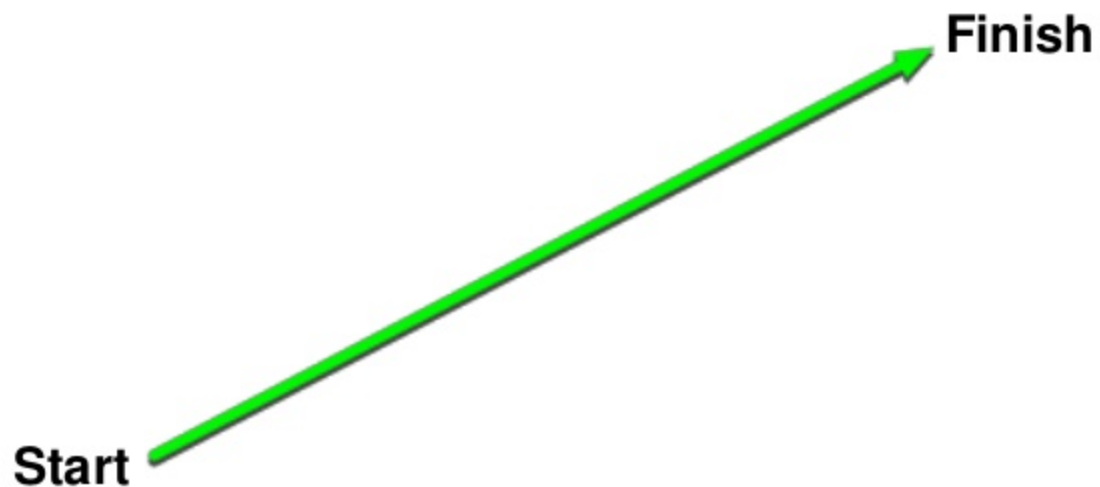
**Need better tools...
new automation and a
new network!**



Engineers



The “Big Bang” Transformation Dream



The “Big Bang” Transformation Reality



Too costly...
outsource more!



Finance



More discipline...
tighter process and
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Change
Management



Need Results...
Re-Org!



Executive
Committee



Need better tools...
cool automation and a
new network!!



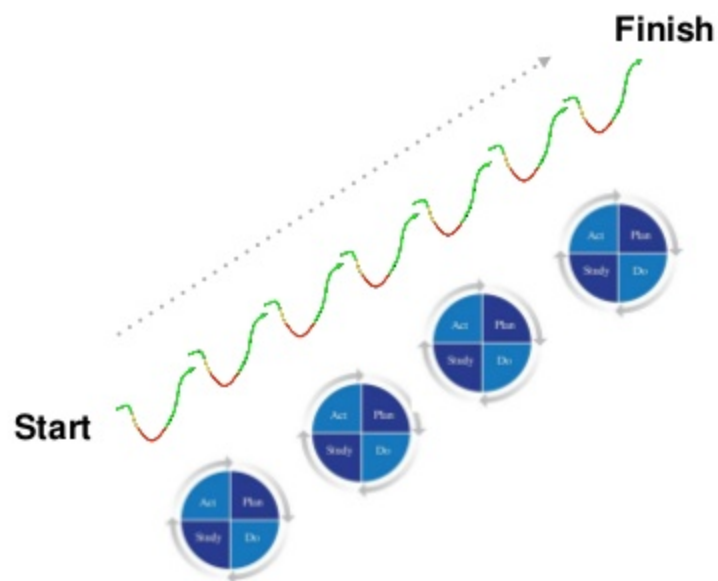
Engineers



How to teach an organization to fix itself: “Little J’s” instead of “Big J”



“Big Bang”



Continuous Improvement

Turn Continuous Improvement into an enterprise program

You are going to have to...

- Keep improvement efforts aligned
- Scale quickly
- Span multiple organizational boundaries
- Work with substantial numbers of legacy technologies
- Develop your existing staff in mass
- Be self-funding after initial seed investment

Remember what you are up against....

- 1. The work isn't visible**
- 2. People are working out of context**
- 3. Inertia is pulling your org out of alignment**

“DevOps Kaizen”

- **Kaizen: Japanese word for improvement**
- **Modern business context:**
 - Continuous improvement
 - Systematic, scientific-method approach
 - Total engagement of the workforce
 - Valuing small changes as much as large changes (outcome is what matters)
- **DevOps context:**
 - Continuously improve the flow of work through the full value stream in order to improve customer outcomes

“DevOps Kaizen”

Proven Lean Techniques + DevOps Context

*“If I have seen further, it is by standing on the shoulders of giants.”
-Sir Isaac Newton*

Elements of a DevOps Kaizen Program

