

Managing Managerless Processes

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Fred George

- Programmer

- Since 1968 (Basic)
- 65,000 hours experience
- 70+ languages
- Computer Science Degree 1973

- Manager

- 17 years IBM
- Business degree, MIT Sloan School 1986
- Product Owner, IBM
- VP, ThoughtWorks
- Co-founder, Outpace (Silicon Valley)
- Senior Advisor to 3 tech companies



- Technologist

- Computer networks – 70's
- Token Ring LAN – 80's
- GUI's – late 80's
- OO – late 80's
- Agile – late 90's
- MicroServices – mid-2000's

Fred George

Consulting Roles

- Change Agent
- Disruptor
- “Hand grenade I am throwing into development”
 - CTO describing Fred to his Vice President



Why Managerless?

Y2k Agile



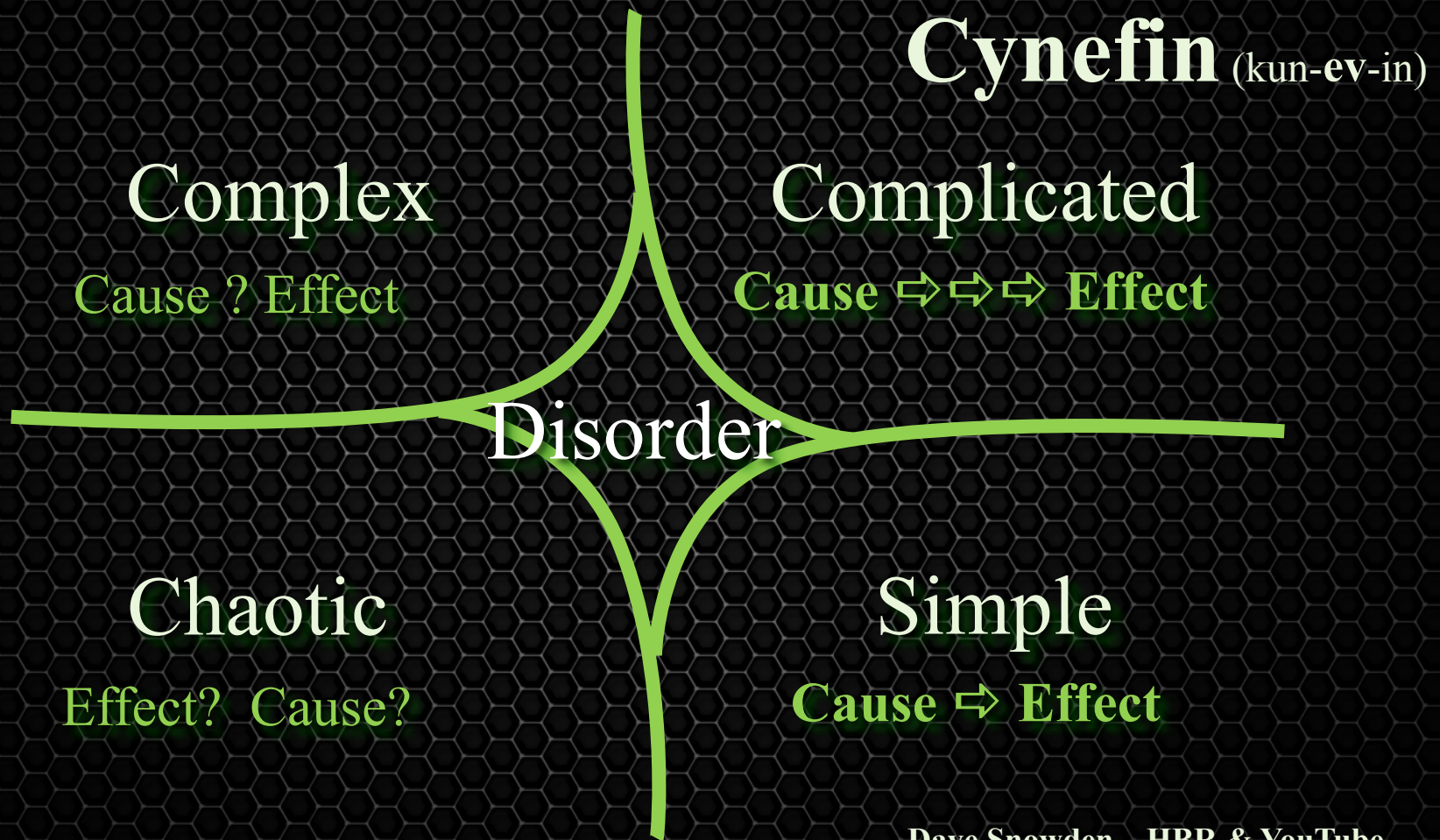
Requirements Uncertainty



Uncertainty

Certainty

Fuzzy vs. Traditional Problems



Dave Snowden – HBR & YouTube

Cynefin (kun-ev-in)

Complex

Cause ? Effect

Complicated

Cause $\Rightarrow \Rightarrow \Rightarrow$ Effect

Fuzzy vs. Traditional Problems

Disorder

Chaotic

Effect? Cause?

Simple

Cause \Rightarrow Effect

Dave Snowden – HBR & YouTube

Fuzzy vs. Traditional Problems

Cynefin (kun-ev-in)

Complex

Complicated

Chaotic

Simple

Requirements Uncertainty

Fuzzy,
but viable



- Assistive technologies abound
- Google Home, Siri, Alexa, Cortana,
Age of Agents
...
- Real innovation not voice, but
interaction of backing services
- Welcome to *fuzzy* world!

Lean startup

One Hacker Way

Programmer anarchy

MicroServices

Cassandra

Industry “Hot” Topics

Docker

Dev/Ops

Cloud

Full-stack developer

Agile

Event bus

MVP (minimum viable product)

No-SQL

Go Faster

- **Feedback**

- **Communication**

XP Values: Cornerstones of Morale

- **Simplicity**

- **Courage**

- **Respect**

- Stand ups
- Story narratives
- Retrospectives
- Estimates
- Iterations
- Mandatory pairing
- Unit tests
- Acceptance tests
- Refactoring Patterns
- Continuous integration
- BA
- Developer
- Architect
- SCRUM master
- QA
- Manager
- Customer

Agile Practices and Roles

Fuzzy

~~Agile~~ Practices and Roles

- ~~Stand ups~~
- ~~Story narratives~~
- ~~Retrospectives~~
- ~~Estimates~~
- ~~Iterations~~
- ~~Mandatory pairing~~
- ~~Unit tests~~
- ~~Acceptance tests~~
- ~~Refactoring~~
- ~~Patterns~~
- ~~Continuous integration~~
- ~~BA~~
- Developer
- ~~Architect~~
- ~~SCRUM master~~
- ~~QA~~
- ~~Manager~~
- Customer

	Manager	Tech Lead	Designer	Developer	Tester	Analyst
Dave	✓				✓	✓
Fred	✓	✓	✓	✓		✓
George		✓		✓		
Jeremy						✗
Matt (cust)			✓		✓	✓
Paul		✓		✓		
Sarah				✓		

- **Fixed price project (budget constrained)**
 - **Co-located team**
- Actions to Complement Fuzzy
- **Iterations == Daily Standups**
 - **Discarded most original backlog (J-I-T)**
 - **Result: Overdelivered by 20% on-time**

Inhibitors for Managerless

- **Theory:**

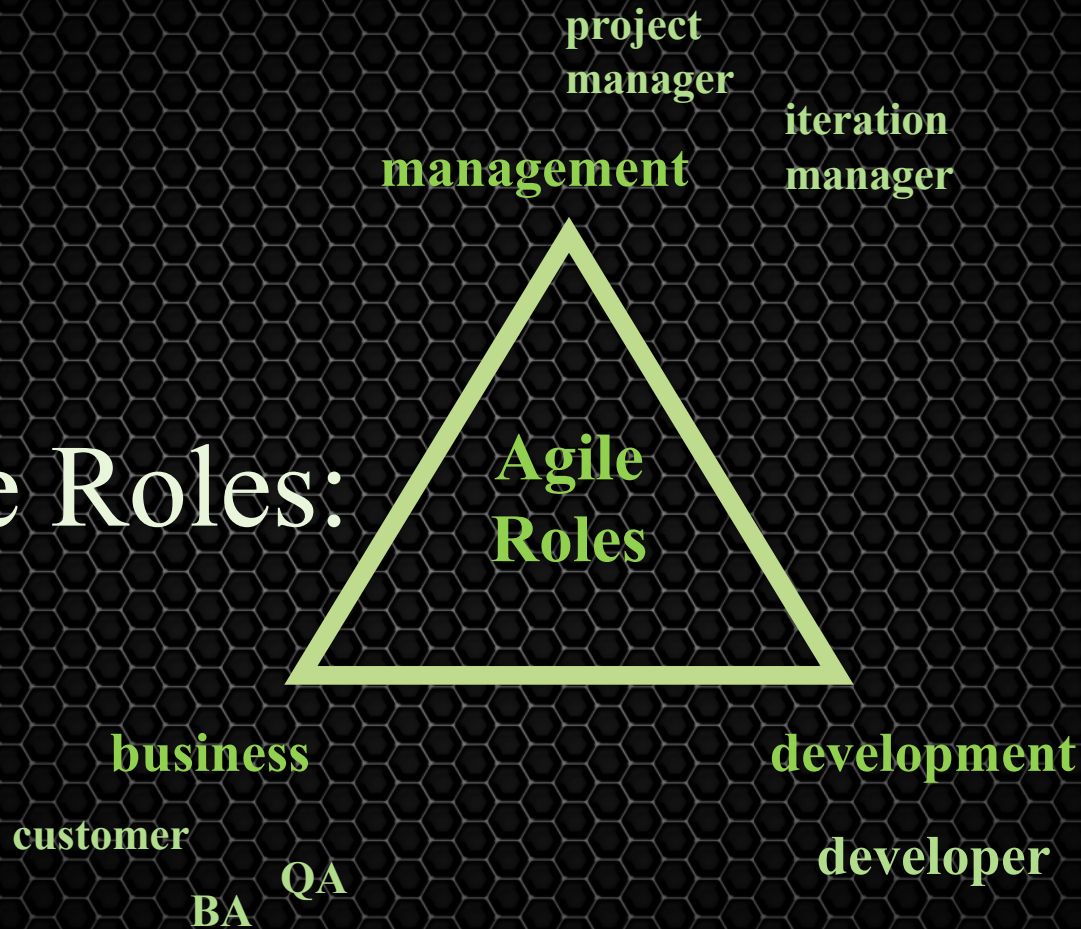
- **Specialist are more productive**

- **Practice:**

Over-Specialization

- **Overhead of communication is underestimated**
- **Unbalanced workload creates delays**

Agile Roles:



Fate of Roles: QA

project
manager

iteration
manager

management
♦ QA tools are Programming tools

♦ Selenium

♦ Cucumber

Agile
Roles

♦ Service Architecture creates complex systems

business development
♦ Need architecture skills to properly test
customer

QA developer
♦ Shift toward monitoring over acceptance testing
BA

Fate of Roles: BA

project
manager

Too complex for
management
programmers?

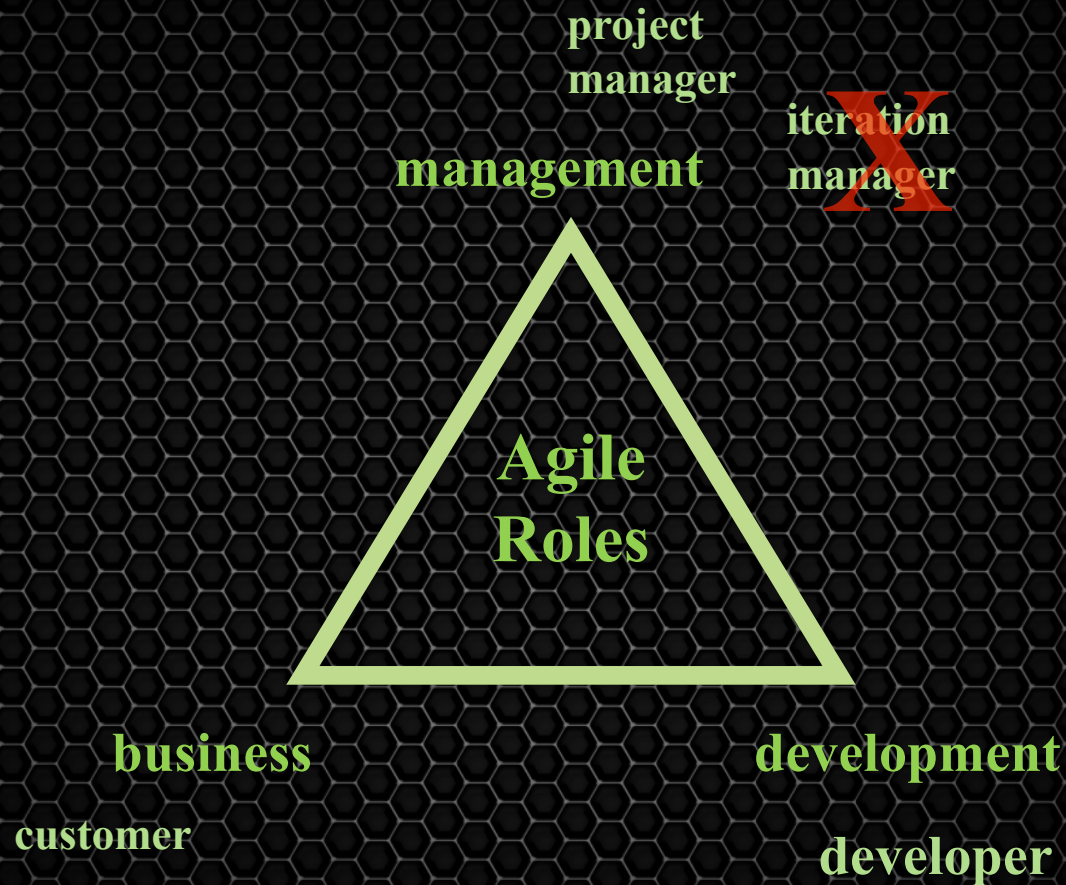
iteration
manager
Programmers lack
“social skills”



business
customer
Programmers
can't talk

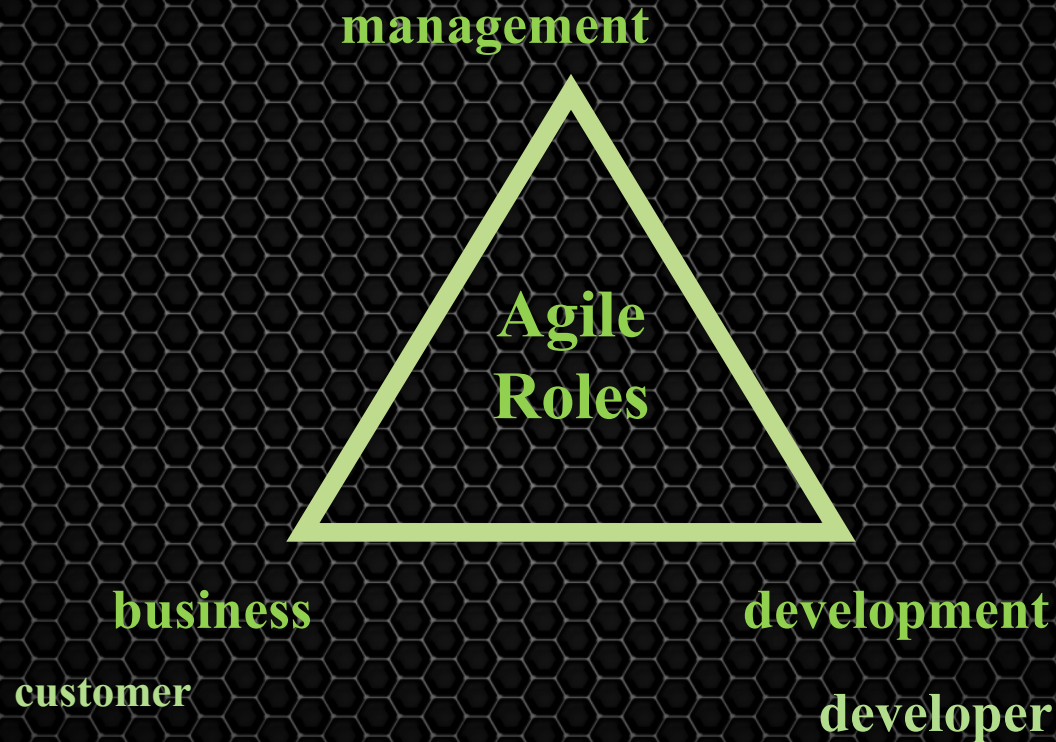
development
developer

Fate of Roles:



Fate of Roles: ~~Manager~~ Power-Hungry Boss

Anarchy Roles



Creating Managerless

- **Programmers care**
- **Leaders will emerge**
- Trust**
- **Problems will arise and get solved**
- **Team composition will (should)**
- morph**

- **All roles support delivery**
- ## Delivery Focus
- **Complete focus on cycle time**
 - **Constantly reiterated from the top**

- **Concierge (ombudsman) key**

- **React to team needs (however trivial)**

Management Inversion Enforced

- **Respect team decisions**

- **Leadership, ambassadors, membership**

- **Continual insight to team inner workings**

- **Not necessarily “fun” role**

Case Study:

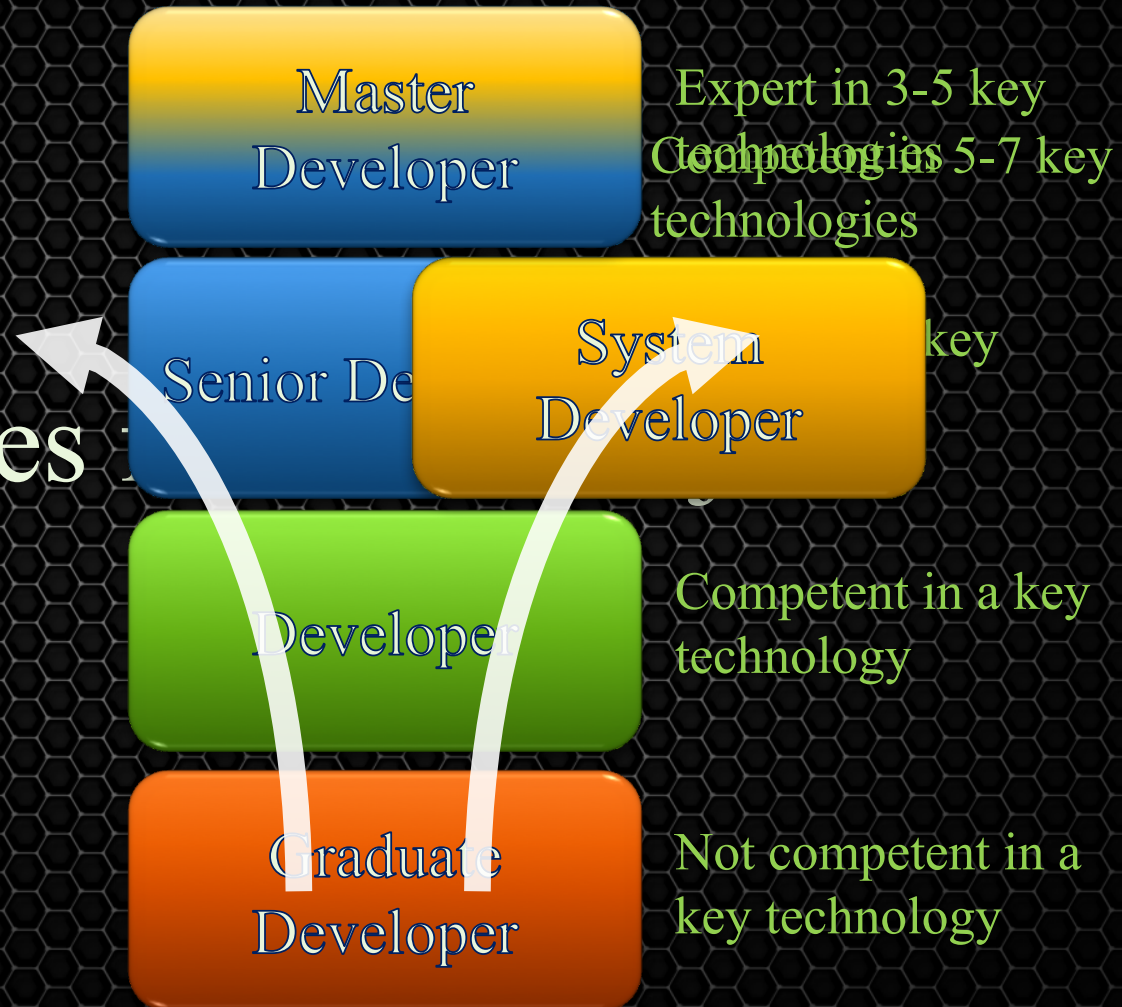
Specialization Institutionalized

- 50 IT professionals with Titles

- 25+ titles

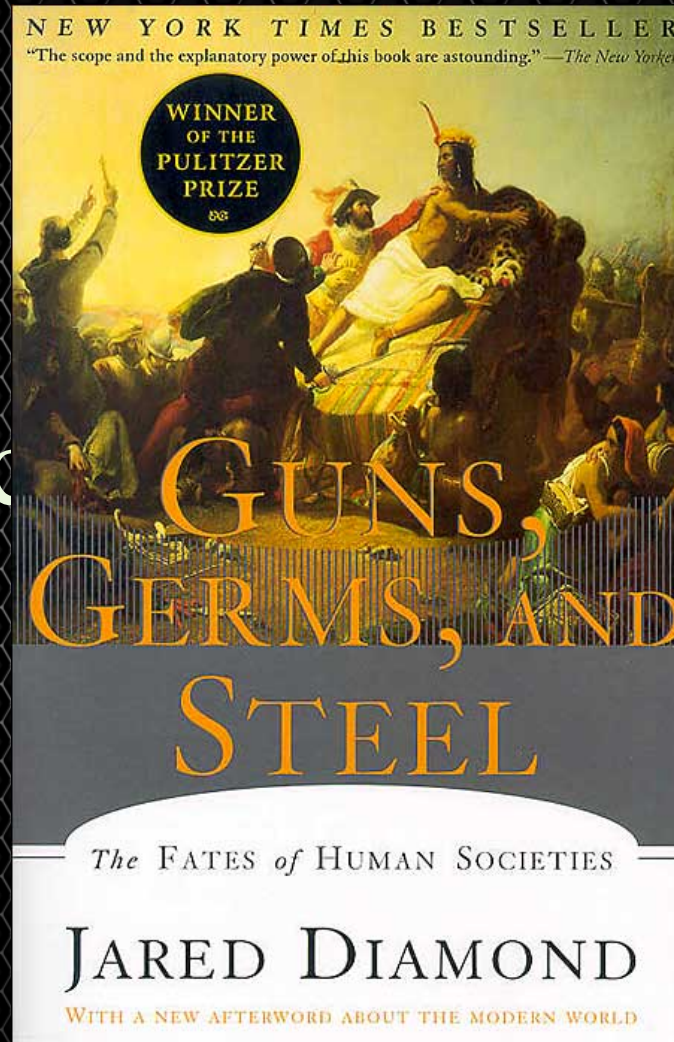
- 0 people understanding projects

New Titles





Non-dedicated



ip

- **Ambassador represents team to outside groups**

- **Member of the team**

- **Rotation allowed**

- **Not empowered to commit**

- **Just the ambassador after all!**

- **Speaking skills valuable; EQ very valuable**



Bring Work to the Team...

Not musical chairs
for each small
project

- **At conflict in employee's mind**

- **Appraisal**

- **Measuring contribution (vs. Others)**

- **Effects promotions (so what?) and salary**

- **Perception vs. data conflict**

- **Coaching**

- **Honest, critical is valuable**

- **Shortcomings are the focus**

- Define relevant metrics
 - All individual metrics are subjective
 - Trust team allocation of “success” to individuals
- ## Appraisals in Managerless Teams
- Allow variation across groups
 - Including one-time experiments

- **Separate timing from Appraisals**
- **Allow variation (including experiments)**

Coaching in Managerless Teams

Mentor model:

- **Mutual selection of relationship**
- **Cap individual mentors as necessary**
- **Outside mentors fine (preferred?)**
- **Firewall information from mentors to appraisal process**

- **Status reports**

- Beware engineering desire to answer queries
- “How are you going to use this information?”

Anti-Patterns in Managerless Teams

- **Sign-offs**

- “Just try again to work with John...”
- **Over-reaction to failures / mistakes**
 - “If we just had more planning meetings...”

Requirements Uncertainty

**Fuzzy,
but viable**



Uncertainty

- Idea-focused features
- Full-stack developers
- Fast failure systems
- MicroServices
- Event-based architecture
- Continuous deployment

- Stories
- Specialists
- TDD
- Acceptance tests
- Migration scripts

Certainty



Please

**Remember to
rate this session**

Thank you!

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