Byrokraatti vai aikaansaaja

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GOSEI

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Ari Tikka



1990 Embedded real time C

1997 Large scale cultural change, program management, workplace counseling, organizational learning, leadership, Agile & Lean adoption

NOKIA 1994-2008

Gosei Ltd 2012 ->







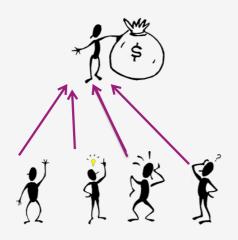
Lesson 0: Continuous integration Test automation Continuous deployment

First, build the factory.

How do you end up slow and wasteful? Easily.

5

In the beginning



"Hey, We have business! And it is growing!"

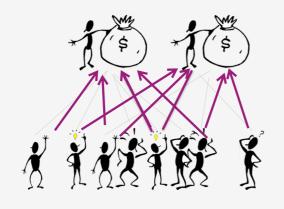
"People just find their roles."

"Specialists are irreplaceable. We need to optimize their individual performance."



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Growing the using common sense

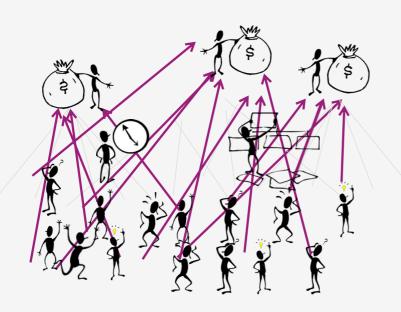


"It starts to get messy. We need someone to look after things."

"Lets hire a coordination specialist - the project manager."



Growth continues



"The project managers really do their job."

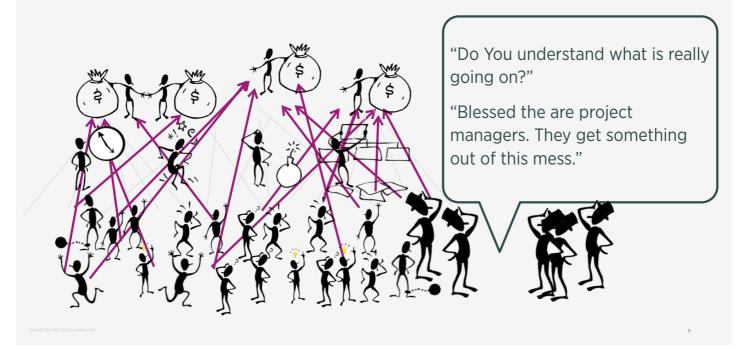
"Obviously it is best to give responsibilities to the specialized people."

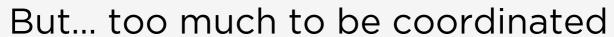


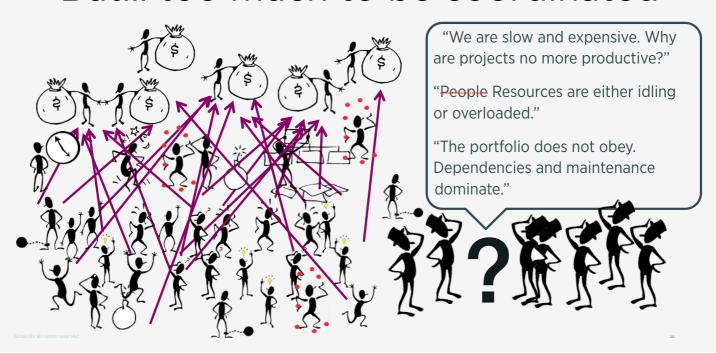
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8

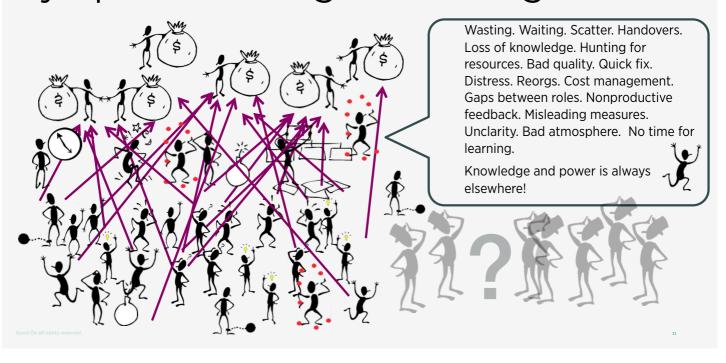
The coordinators become the heroes

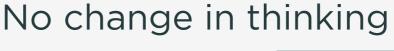


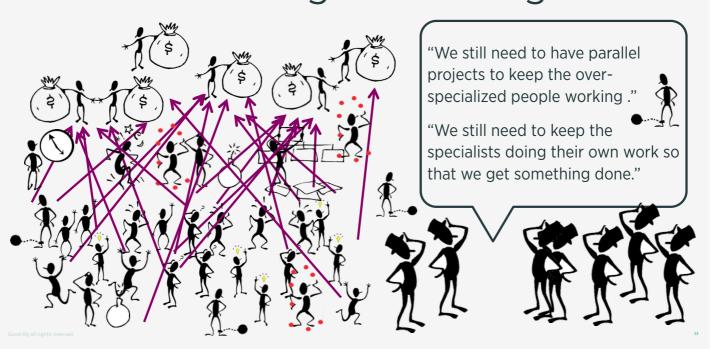




Symptoms of fragmented organization







Last hope





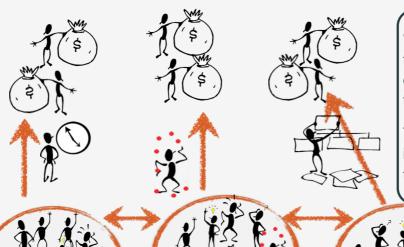
"We still have the customers. And the middle layer coordinates the value flow."

"The development is too expensive and is difficult to manage."

"But we can outsource the difficulty to an affordable provider, which we then can control through the agreement.



Or fundamental change in thinking



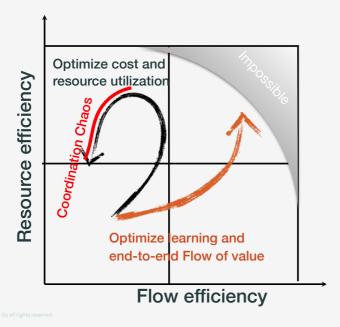
"Let people work in customer-oriented teams, first learning intimately what the customer needs, and then learning how to deliver that.

The coordination cost becomes investment in learning. Actually the end-to-end throughput will improve."



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Flow vs resource efficiency



Resource efficiency

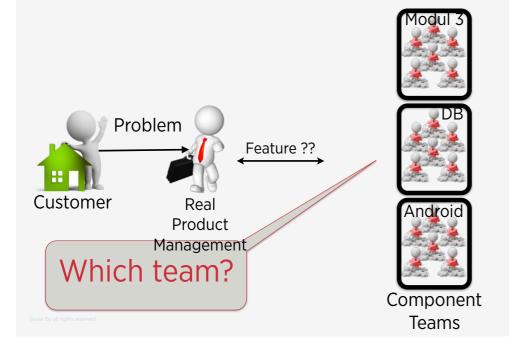
- Optimal with simple tasks in stable environment
- Specialization is locally economical, but makes the whole system fragile

Flow efficiency

- Better for all knowledge work
- Optimizes the whole

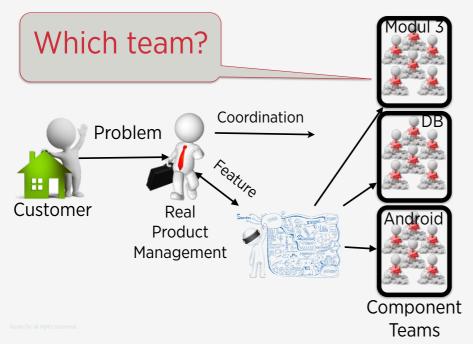
Specialization hell

Technology/task/role-specialization





Technology/task/role-specialization

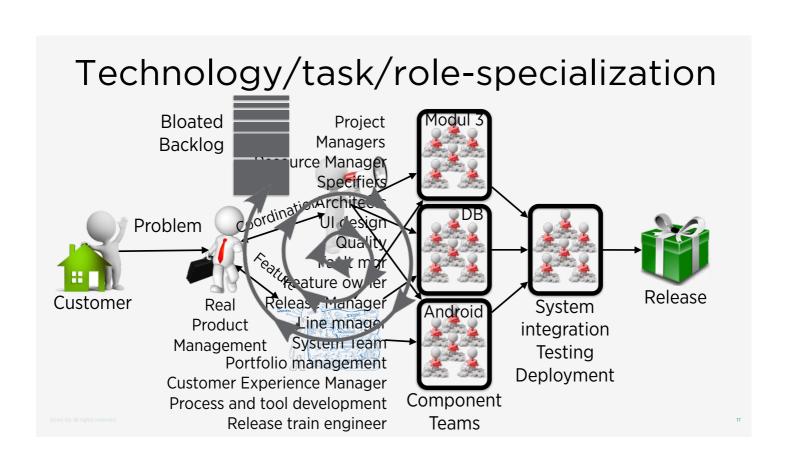


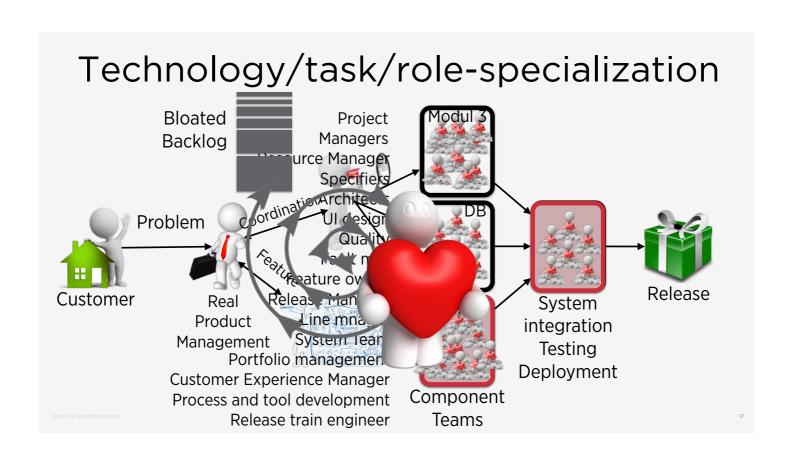


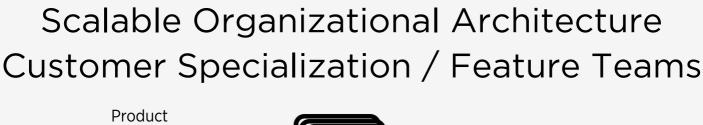
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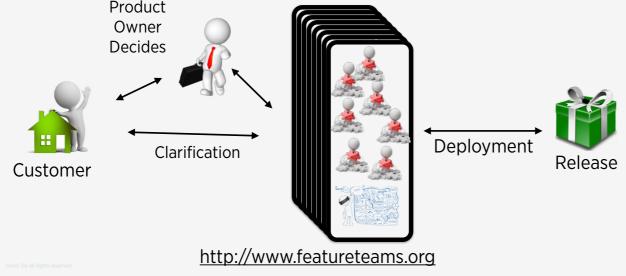
Technology/task/role-specialization Project Managers Which team? Deployment? Release Release Component

Teams







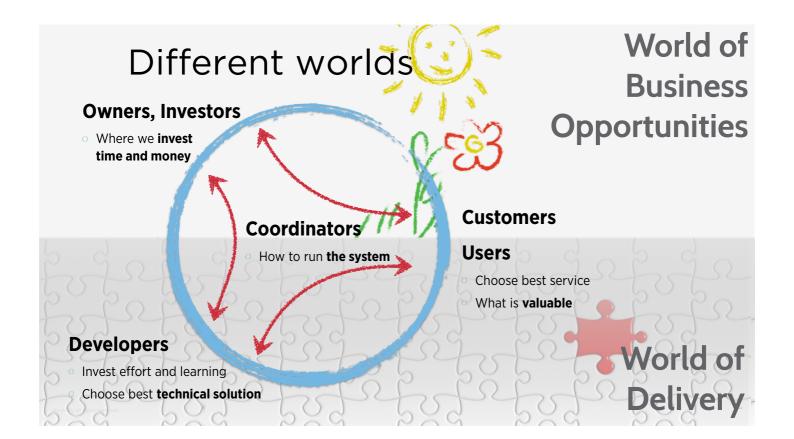


Lesson 1: Task/role specialization sucks. Do Customer oriented learning.

19

Roles and subcultures

Three stakeholders Owners, Investors Where we invest time and money Coordinators How to run the system Customers Users Choose best service What is valuable Developers Invest effort and learning Choose best technical solution



Surviving at everyday work shapes the culture, language and meaning.

Subcultures evolve from different work realities.

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Survival of fittest
Funnel

Market risk
Competition
Change is valuable
Market control - creative work

World of
Business
Opportunities
Optimism
Reward power
Immaterial
Tangible

Market control - commitments

Clan control - creative work

Change costs

Co-operation

Technical risk

Cost

World of

Specialist power

Details

Reward power

Immaterial

Clan control - creative work

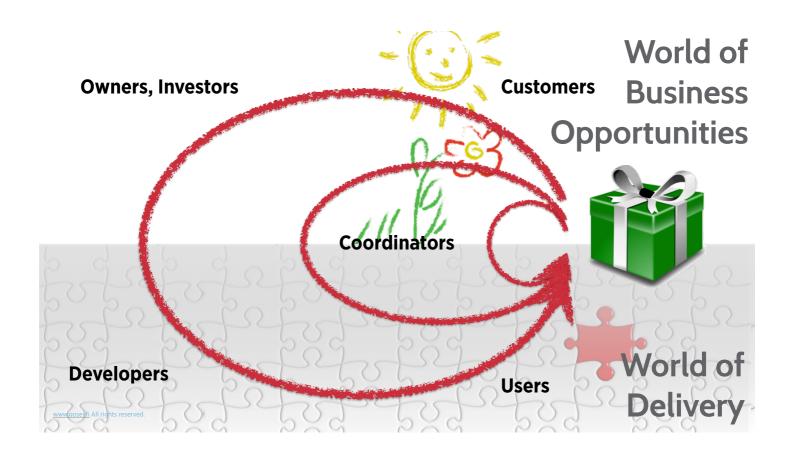
Change costs

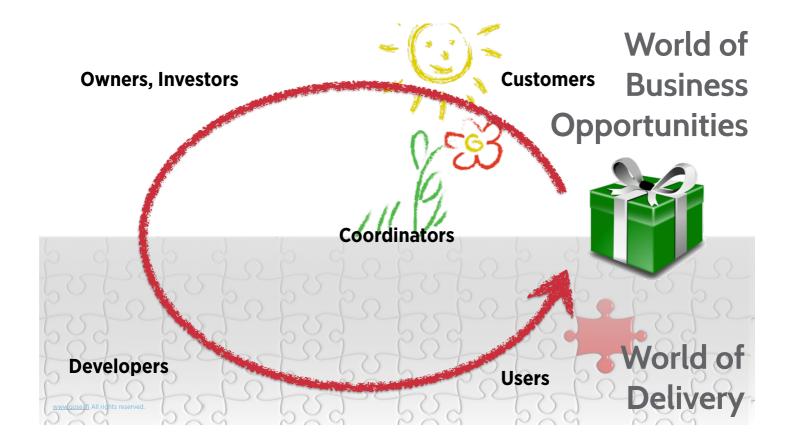
Cost

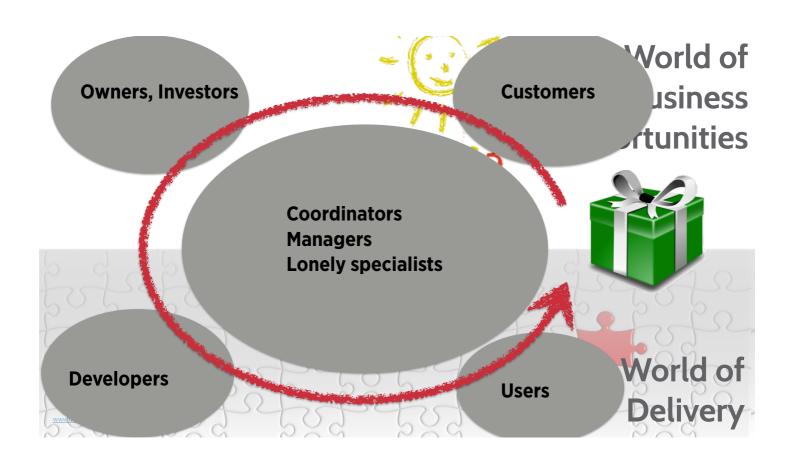
World of

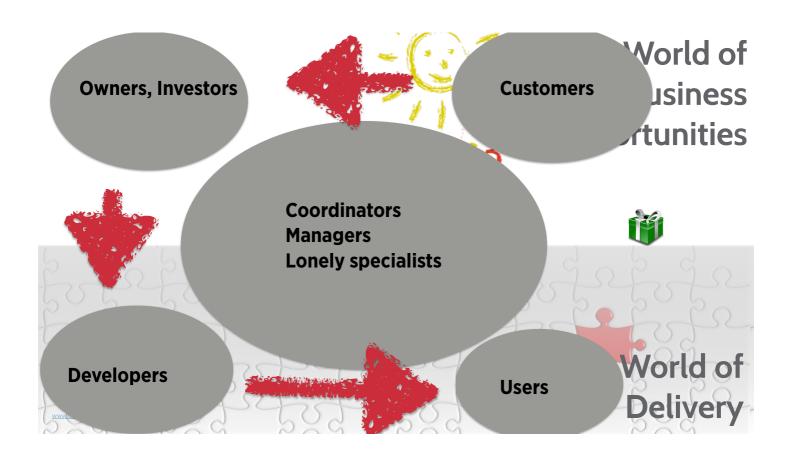
Specialist power

Delivery









Lesson 2:
Fragmentation sucks.
Requirement management is a learning process.
Create and retain knowledge by continuous flow of value and feedback.

27

Control:
Market
Bureaucratic
Clan

William G. Ouchi

Identified management control mechanisms

Inventor of motivation Theory Z

Addition to well know Theory X and Y

Influenced by Japanese management style



Survival of fittest
Funnel

Market risk
Value
Promise now

Business
Opportunities

Competition

Change is valuable

Optimism

World of

Market control - commitments

Reward power Immaterial

Clan control - creative work

Change costs

Technical risk

Finish what you start

Co-operation

Pipe

Details

Actualises later

Tangible
Only problems

are real

Cost

World of

Specialist power

Delivery

Survival of fittest
Funnel

Market risk
Competition
Change is valuable
Market control - commitments

Whole
Business
Opportunities
Optimism
Reward power
Immaterial

Survival of fittest
Funnel

Market risk
Competition

Change is valuable

Market complete the survival of fittest

Value
Promise now
Opportunities
Optimism
Reward power
Immaterial

Big Program Cost cutting



Big Program Cost cutting



Clan con reative work

Change costs

Co-operation Technical risk

Finish what you start

Pipe

Actualises later

Only problems are real

Cost

World of

Specialist power

Big Program Cost cutting



Clan control - creative work

Change costs

Co-operation Technical risk

Finish what you start

Pipe

Tangible Actualises later

Only problems are real

Cost

World of

Specialist power

Big Program Cost cutting



Clan control - creative work

Change costs

Co-operation Technical risk

Finish what you start

Pipe

Details

Actualises later

Only problems

Cost

Specialist power

World of

Control Systems in organizations by William G. Ouchi

Market system

Measure Input (€) and Output (€). Contractual between parties. Exact contract!

Bureaucratic system

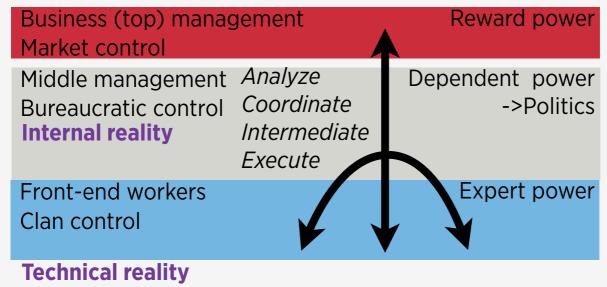
Written rules and processes. E.g. Employment agreement and supervision.

Clan system

Informal value based rules that allow innovation and collaboration. Only this works for <u>unique</u>, <u>interdependent</u> <u>or ambiguous</u> task. E.g. SW Development

Three Layers in (large) Organizations

Economical reality



Contrast with Scrum OPPYRIENT © ECIDS. REMAY A GOAT BOTTWARE Market control Clan control Market control

Lesson 3: Minimal bureaucracy to create dialogue between realities.

34

Dependencies and planning

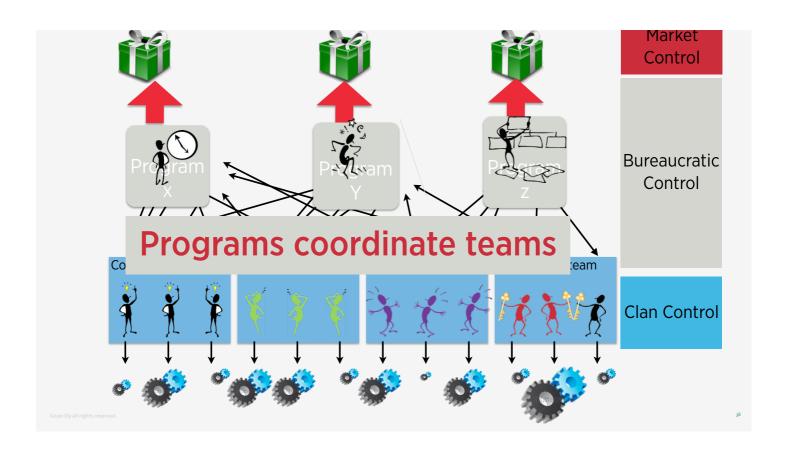
Fundamental formula

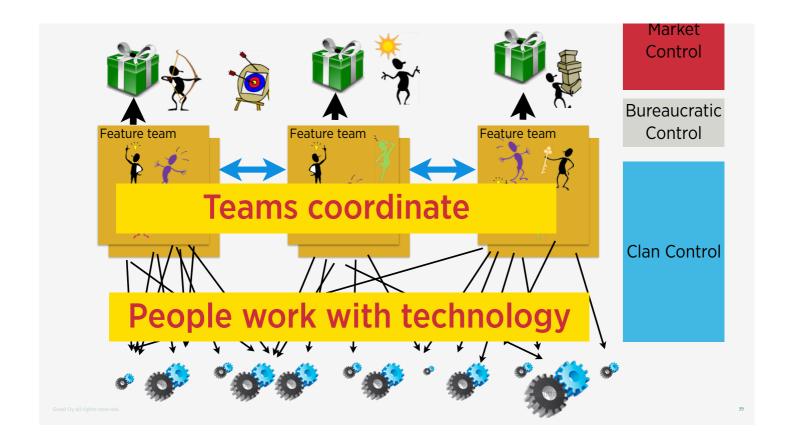
Reach (length) of the plan = Utilization x Specialization

When coordinating the work, the more technology-specialized the organization is and the more you want to optimize resources (people) utilization, the further into the future you need to plan.

Projects control people

Clan Control







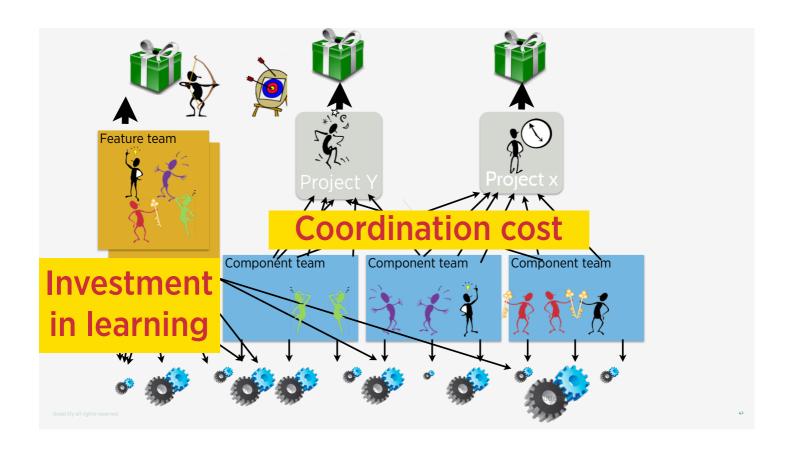
Noooooo!
We can not change everything.

Your Fear is Just

Changing "everything" in <u>one product</u> is the <u>ONLY</u> way to real change.

- Experiment and learn with limited risk
- Resources for enough support
- Moore's chasm

Deep and narrow



It is simple and not easy

Leadership, learning, structure and workflow need to change at the same time.

New technology, competence, identities, interaction - culture.

Learning causes anxiety. Only survival anxiety is greater. (E. Schein)

- Takes time, like any real change.
- There will be worry and resistance.

Leadership challenge

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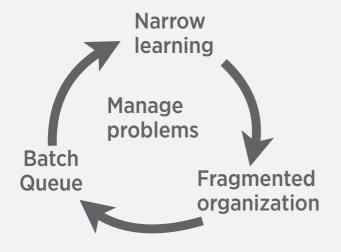
Lesson 4: Manage dependencies by customer-oriented feature teams working with technology.

http://www.featureteams.org

44

What to DO?

Everyday experience



"More predictability and efficiency."

"Pressure. Must. Should."

"No time to jump on the bike."

"Power and wisdom are always elsewhere."

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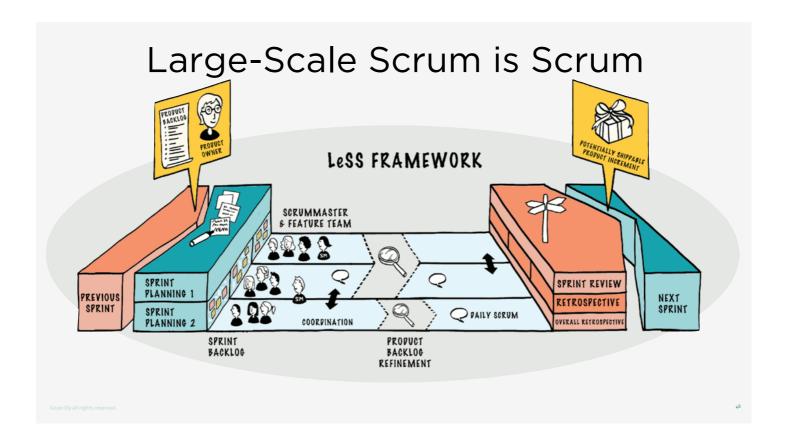
46

Scrum works for one team



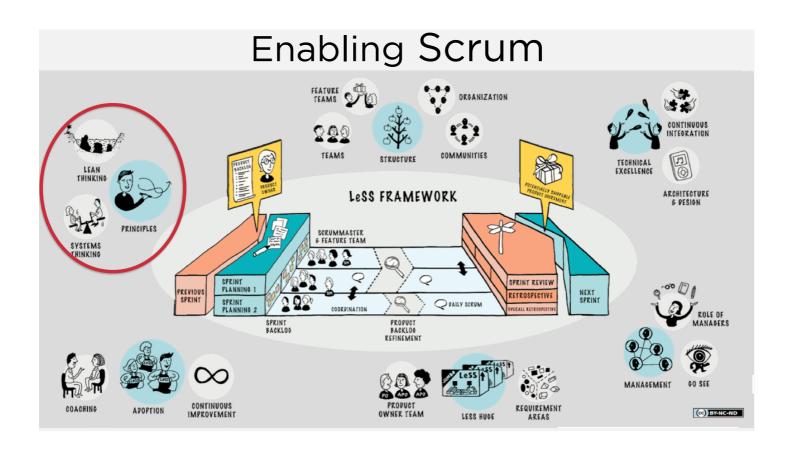
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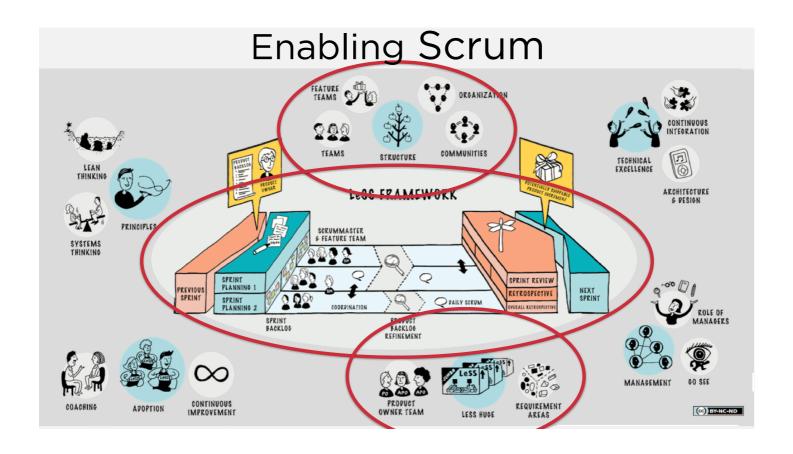


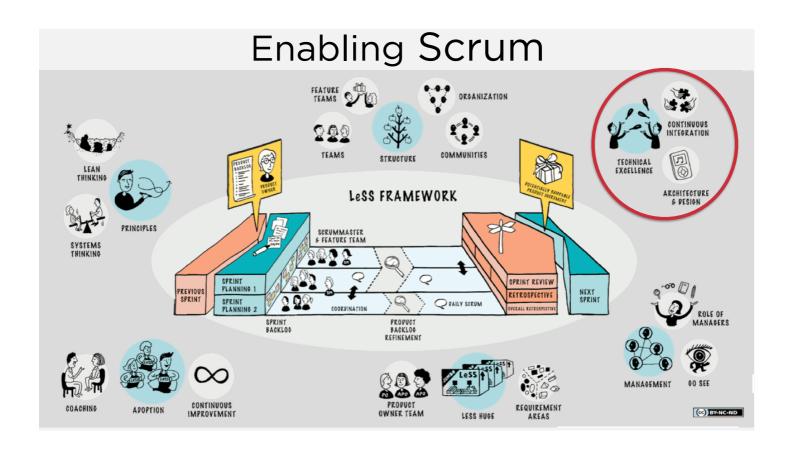
Enabling Scrum

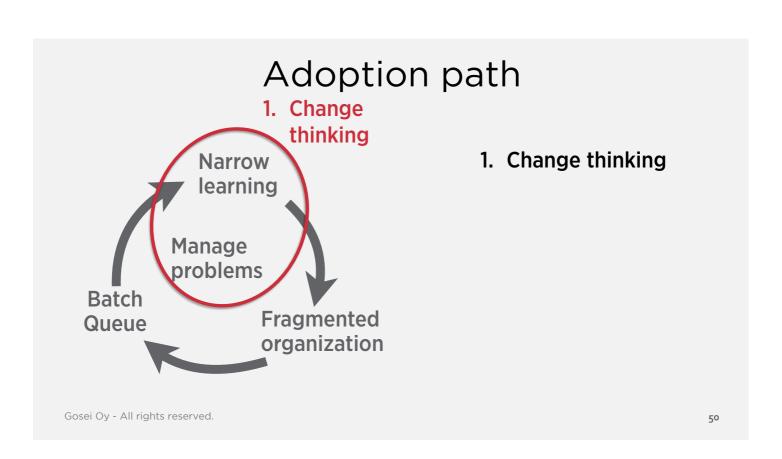
Enabling Scrum FEATURE TEAMS ORGANIZATION TEAMS COMMUNITIES TECHNICAL EXCELLENCE ARCHITECTURE Less Framework & PESION PRINCIPLES SCRUMMASTER & FEATURE TEAM SYSTEMS THINKING SPRINT REVIEW NEXT SPRINT RETROSPECTIVE SPRINT PLANNING 2 Q PAILY SCRUM COORPINATION ROLE OF MANAGERS SPRINT BACKLOS MANAGEMENT CONTINUOUS IMPROVEMENT PROPUCT OWNER TEAM REQUIREMENT AREAS APOPTION (cc) BY-NC-ND LESS HUGE



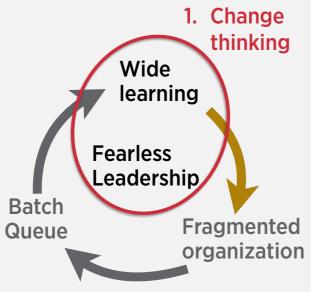
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Adoption path



1. Change thinking

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5

Adoption path



- 1. Change thinking
- 2. Organize for customer-centric learning

2. Organize for customer-centric learning

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Adoption path



- 1. Change thinking
- 2. Organize for customer-centric learning
- 3. Start working

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50

Adoption path



- 1. Change thinking
- 2. Organize for customer-centric learning
- 3. Start working
- 4. Learn forever

50

Cases

https://gosei.fi/blog/network-gateway-case-study-at-infog/

 A new network gateway was developed from clean table in half the time. The work started with two teams and in the end there were over 20 distributed teams. LeSS principles were used all the time.

http://less.works/case-studies/

About 20 large and long-term cases

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More information

Koulutus 25-27.11. Helsingissä

https://gosei.fi/training/certified-less-practitioner-principles-to-practices/

Web resources

http://less.works/

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