



Process of Change Perspectives from OBM / Lean / Agile work

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Lean – an overview





TPS: Toyota Production System

- 1900's: Ford and Taylorism
- Optimized factories to produce one model (Ford T).
- Then Toyota started to make cars, for a smaller market (Japan). They visited Ford facilities.
- But the industry was changing: in particular, there was more variability in car models
- How to deal with this ?
 - Western car manufacturers: fork processes, manage stocks very carefully -> more administration, more costs
 - Toyota: manage variability at the workshop level, a new way of working
- Toyota outperformed all car manufacturers, birth of Lean manufacturing
- For more about this, see "Profit beyond measure" (Johnson & Bröms, 2008)



Lean: how does it work ?

- Measure everything
 - Lead time as the main KPI, visual management
 - Many metrics to obtain agreement between stakeholders
- Stable teams or equipments
 - Fixed production capacity
 - Ability to change priorities without changing organization
- Problem solving
 - Identify bottlenecks, waste and other problems through data
 - Local problems and global problems !
 - Go and see (gemba)
- Drumbeat
 - Takt-time
 - Needed to be able to synchronize all tasks
- Customer focus
 - Provides feedback loops to organizations













Lean: a new management system

- Lean is not taylorism. Neither is it about reducing staff.
- Lean is intrinsically respectful of people. Learning is at the core of lean.
- In Lean, leaders are not in charge of assigning work to people: this naturally flows from customers (pull)
- Lean Leaders main responsibilities are:
 - quality
 - help teams solve problems and optimize flow
 - develop people
 - provide vision for the future (alignment)











Lean: problem solving and hierarchy



Source: Pascal, D. (2007). *Strategy deployment: What is it? Why should I care?*, Lean Enterprise Institute Webinar





Agile – an overview





Agile

- Agile was officially born in 2001, following many experiments to change the classical way to manage IT projects
- Analysis in 1995 by Standish Group IT project failures







Agile manifesto (2001) - 4 agile values

- We are uncovering better ways of developing software by doing it and helping others do it.
- Through this work we have come to value:
 - 1. Individuals and interactions over processes and tools
 - 2. Working software over comprehensive documentation
 - 3. Customer collaboration over contract negotiation
 - 4. Responding to change over following a plan
- That is, while there is value in the items on the right, we value the items on the left more.

<u>http://agilemanifesto.org/</u> - see also the 12 agile principles





Software development - the old way

- Marketing / customer :
 - what is the product the customer is willing to pay for ?
 - what is the problem the customer wants to fix ?
- Functionality
 - List of functionalities the product has to have
 - Think of Powerpoint : File Open, Edit, Manage slides, create animations, ... etc,
- Development
 - Write the code
 - Organized by same-technology teams
- Quality Assurance







Software development – the agile way

- An agile team is a stable group of people who have autonomy to deliver a part of software
- It includes all key roles to build software
 - product owner : functionality / value (1 per team)
 - tech = software developers (3-5 per team)
 - quality = tester (1-2 per team)
- The team members are full time, other people can support the team (UX, cloud, ... etc) but are usually not part of the team
- Even at a large scale, agile will still involve autonomous 6-to-9 people teams, with various ways to organize and synchronize them





Software development – an agile organization





PRACTICES CONSISTENCY

LEADERS

QUALITY GLOBAL PERFORMANCE PEOPLE DEVELOPMENT



Agile – how teams work

- Stable small teams of 6-9 people
- Breakdown work in small chunks (called user stories)
- Show their work every 2 weeks
- Well defined ceremonies:
 - planning, 15' stand-ups, demo, problem solving ...
- ... and *roles*
 - ... scrum master, product owner,
- Specific vocabulary (sprints, scrums, product owner, etc...)
- Gaming atmosphere (e.g. play cards to estimate effort)
- Team spirit, collaboration











Changing at scale





The challenge of changing at scale

- Lean and Agile now expand from manufacturing and IT to logistics, services, sales, marketing ...
- Lean
 - Since many years, large variations in Lean implementations are found across facilities of the same company
 - Frustration: famous paper by Jim Womack : <u>http://planet-lean.com/jim-womack-lean-thinking-promise/</u>
 - « The results were strikingly positive, but the organizational immune reaction was immediate and crushing. »
 - Also a reputation of cost-killing approach
- Agile
 - Small companies manage to become Agile
 - Startups can have an Agile culture from the start and scale then (like Google, Amazon, etc...)
 - But large companies have to deal with the existing culture
 - According to State of Agile 2018 report, the top 3 « *Challenaes Experienced Adoptina & Scalina Aaile »* are:

Organizational culture at odds with agile values

General organization resistance to change

Inadequate management support and sponsorship

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What Lean and Agile have in common

- Lean and Agile put an emphasis on many aspects of work:
 - stable teams, cadence
 - prescribed roles and ceremonies
 - delegation / autonomy
 - focus on product and customer feedback
 - wide use of data and metrics
 - visual management information transparency
 - experimentation, learning by doing, innovation
 - importance of collaboration and group learning
 - problem solving as the backbone of improvement
 - flexibility with respect to priority changes (Agile)





Changing at scale

- The previous characteristics describe how a lean / agile system works, but we may not want to tackle change the same way at different hierarchy levels. Not the same roles, not the same context.
- For simplicity, let's look at 3 levels:
 - teams (individuals in groups of 6-10 people)
 - groups of teams (100's of people, including leadership)
 - corporate (vision, corporate policies)











Reality: at the team level

- Lean and Agile prescribe how people work, with roles, ceremonies, and we usually have little difficulty for adoption here.
- people get more autonomy, they receive feedback on a regular basis, they improve their way of working
- the key behaviors that are always difficult to setup in teams are:
 - the use of metrics to measure team performance
 - and transparency of information
 - ... these are key in order to have a good predictibility, provide feedback and measure improvement, but people are afraid that data will be used against them by management.
 - sometimes innovation does not come spontaneously: people are used to being told what to do





Reality: at the group level

- in larger organizations, dealing with groups of teams becomes a challenge because giving more autonomy to teams requires another way to coordinate work across teams, and a new style of management.
- Usually, leaders (mid-management) are harder to convince, because they need to:
 - delegate more, but provide vision and guidelines upfront
 - not interfere with the teams while they work
 - give feedback at a regular pace based on objective judgment
 - contribute to continuous improvement by helping solve teams problems
- The main concern is that their responsibility is diluted in a system. They do not know how to combine respect of people, and performance. They have been trained to be coercive to get results (negative reinforcement).





Reality: for top management

- budget and contracts based on given targets, not on means:
 - money is managed by assigning targets to teams, not by providing them the means to work well and asking them to get the most out of it (*management by results* vs *management by means*), which is somewhat incompatible with giving autonomy to teams
 - projects are managed by cost, not by added value
 - this has an impact on how the company manages projects, and contracts
- HR policies:
 - performance evaluation based on individual performance, not on collaborative behaviors
 - jobs defined too precisely that make it difficult to smoothly evolve from one role to another (prevent collaboration too)
- same impediments to change as for mid-management (previous slide),
- plus, a strong focus on KPIs (but less on the product itself), and often a lack of corporate vision (which prevents good delegation of work)