Förändringsledning



Björn Fagerström 2021-10-08



Lunds Universitet



Bjorn.fagerstrom@fsi.lu.se



+46-701-411 255



Göteborg/Lund I Sweden



https://www.linkedin.com/in/björnfagerström-79ab3415/

SCAF konferens

Jönköping I Sweden

Klockan 10:45 - 11:30

OUTLINE

Frågor är välkommet!

Stannar kvar under Workshop

Sorry för blandat SE/ENG

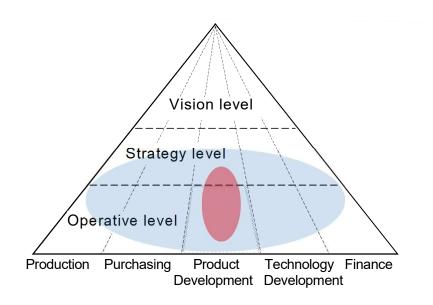
PP skickas efter pres.



- Introduktion
- Förstå helheten
- Förändringsledning Lite vägledning
- Beslutsprocesser
- Q/A Workshop

INTRODUKTION





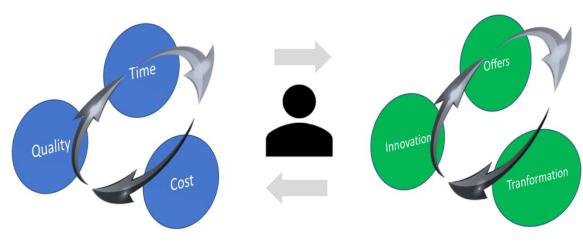


 Vi har ofta fokuserat på processen för produktutveckling.



- För att lyckas med förändringsledning måste man tänka helhet.
- Blandar lite förändra företag och hantera "change" I project.

MANAGE "old" and "new" simultaneously



Operational Excellence Dimension

Still to be managed

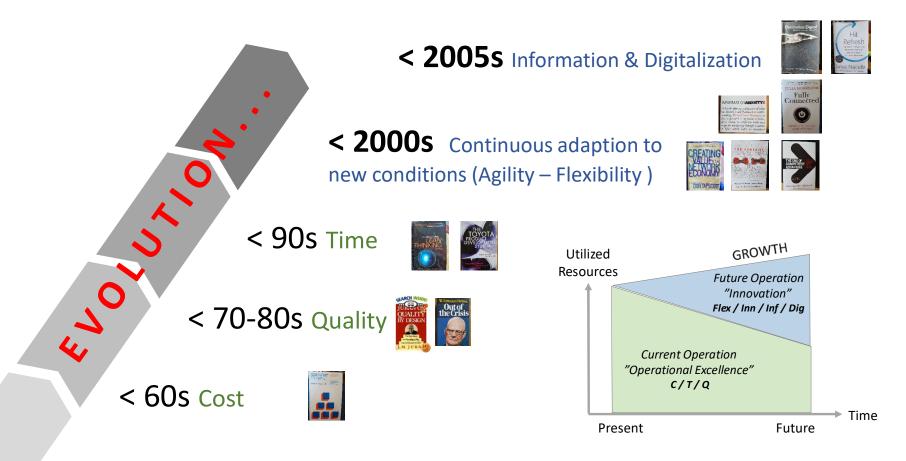
Innovative Dimension

Crucial for survival

Increased change pace
Current structures obsolete

- Transformation competence needed now.
- Increased number of people in the organization focus on transformation/innovation.
- The Innovation/change capability will be a strategic important factor for survival.
- Includes the entire company

Måste klara två saker samtidigt!



Partly from "Ln Grwth, Sven Ohde, 2007"

OUTLINE

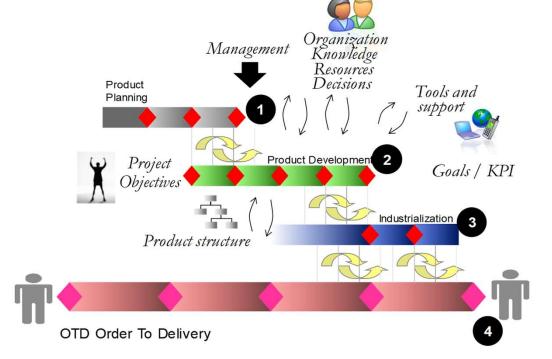
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PRODUKTUTVECKLING OCH PRODUKTION

PRODUCT PLANNING AND INDUSTRIALIZATION



SJÄLVKLART



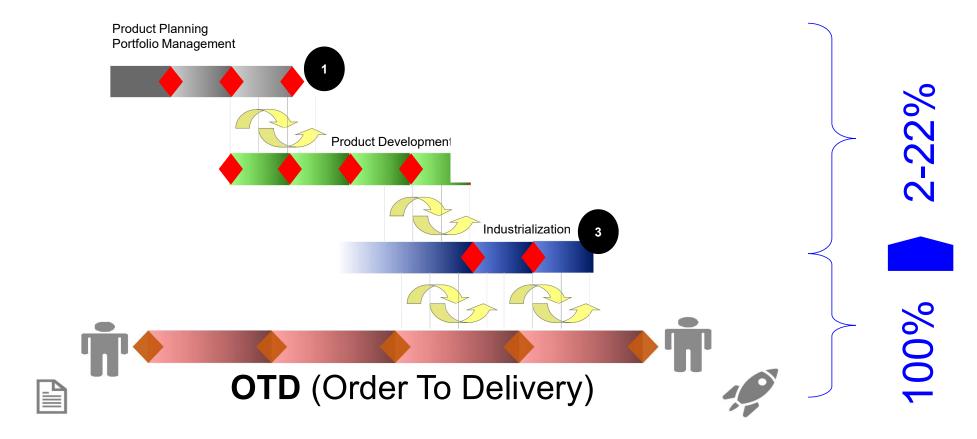
GÖR SKILLNAD

FÖRETAGETS MOTOR

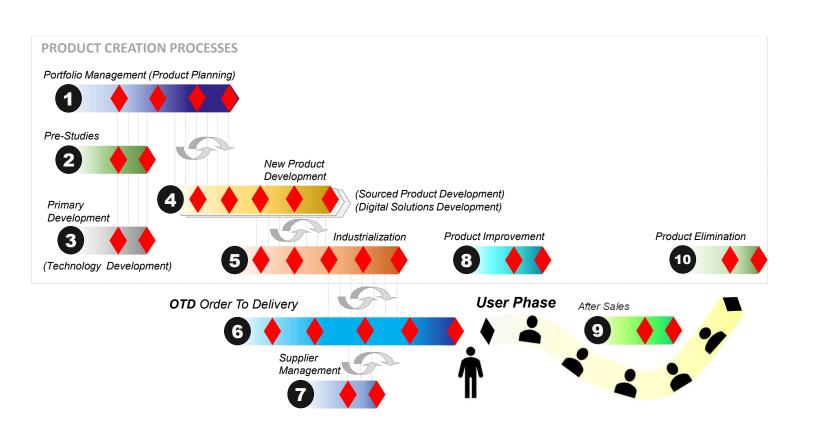
FÖRETAGETS MOTOR



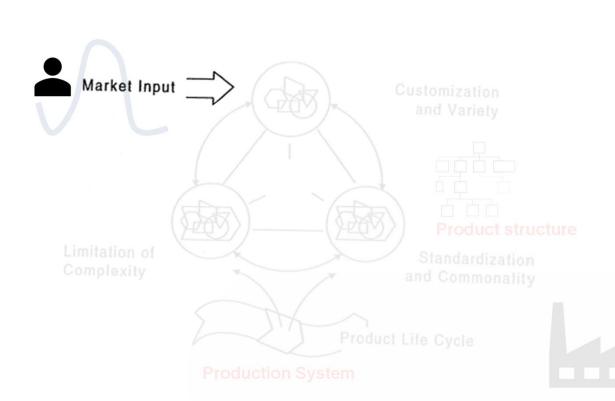
FÖRETAGETS MOTOR

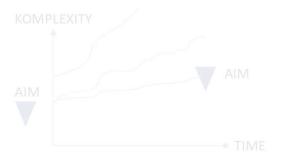


Ofta slår en "change" på väldigt många delar



PRODUCT STRUCTURE PRODUCTION SYSTEM

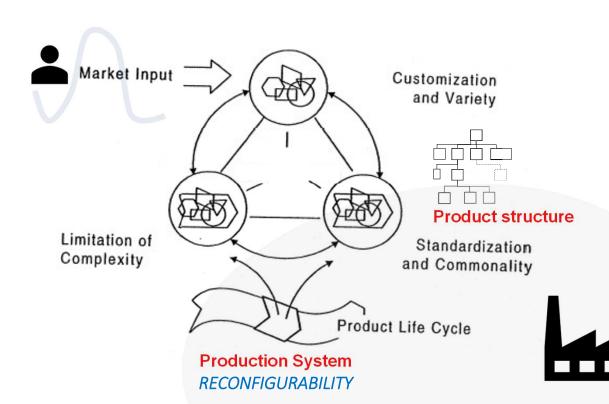


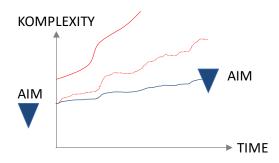


Complexity increase (time), target to have ha robust and modular structure with less complexity growth

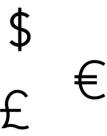


PRODUCT STRUCTURE PRODUCTION SYSTEM

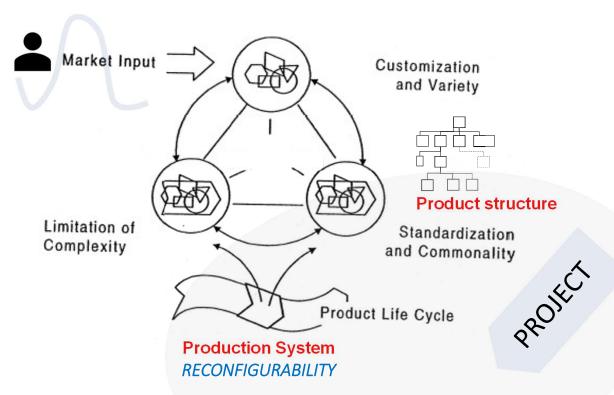


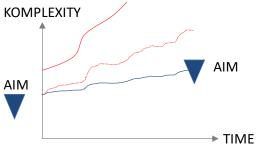


Complexity increase (time), target to have ha robust and modular structure with less complexity growth



PROJECT VIEW

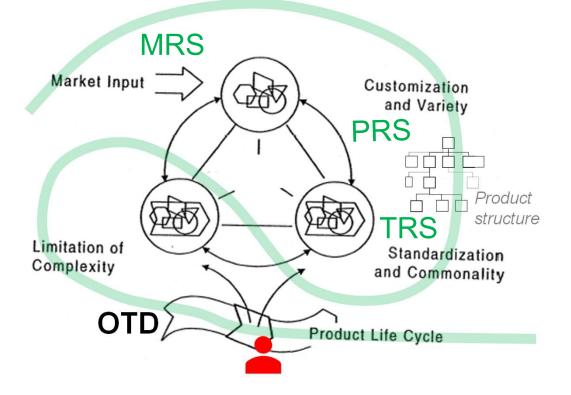




Complexity increase (time), target to have ha robust and modular structure with less complexity growth

- Gate model
- Agile vs Waterfall

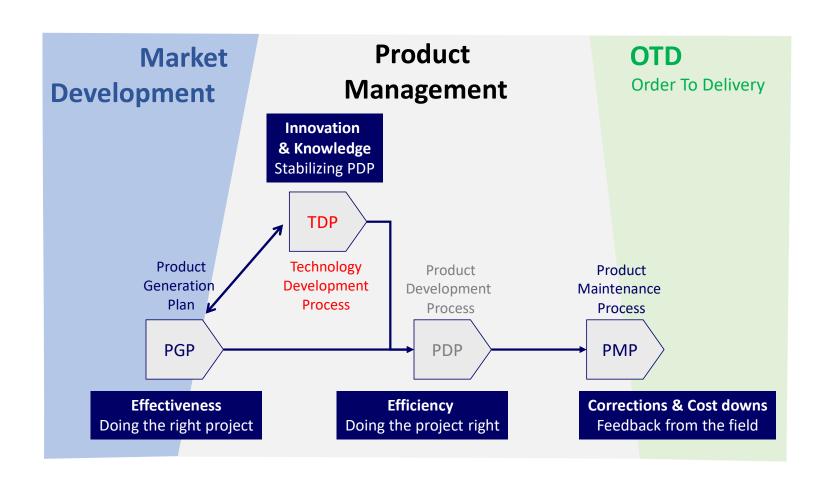
PRODUCT STRUCTURE / COMPLEXITY / REQUIREMENTS



REQUIREMENT MANAGEMENT = PROCESS

You can release specifications from the process (RM tool)

KORTA LEDTID & MINSKA OSÄKERHET PD



HELHETEN BORTOM FÖRETAGET

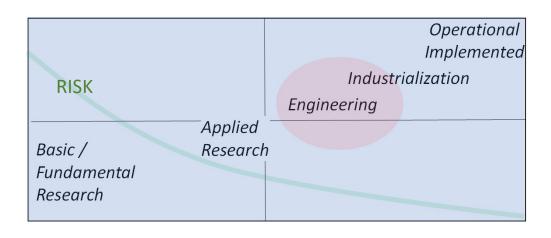




PRODUKT UTVECKLING - "GOAL-DRIVEN"

Possibility to manage and predict the outcome

100 %



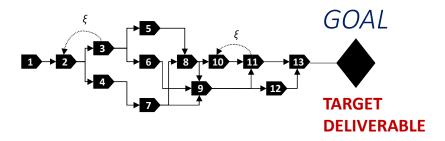
0 %

Knowledge - driven

Goal - driven

Process - driven

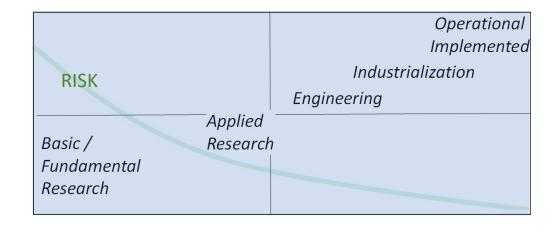
Several task structures possible to reach target.
Replanning critical



TILLVERKNINING - "PROCESS-DRIVEN"

Possibility to manage and predict the outcome

100 %



OUTPUT

Process-Driven

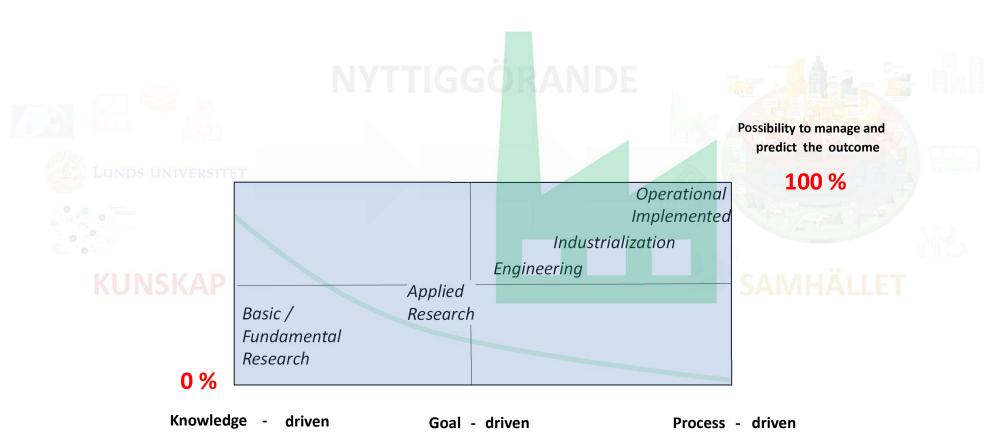
0 %

Knowledge - driven

Goal - driven

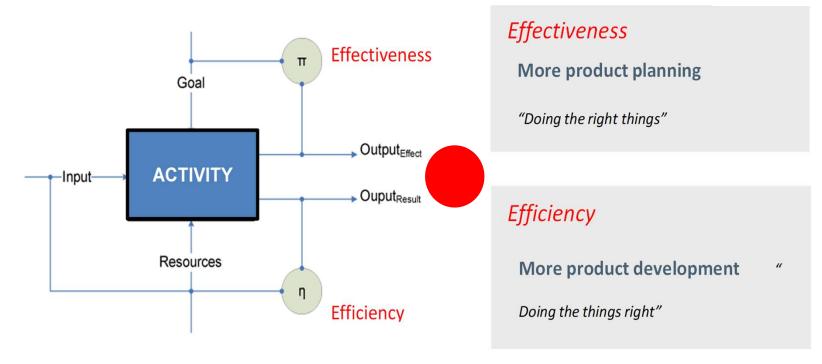
Process - driven

TAR TID!



Inre och Yttre effektivitet





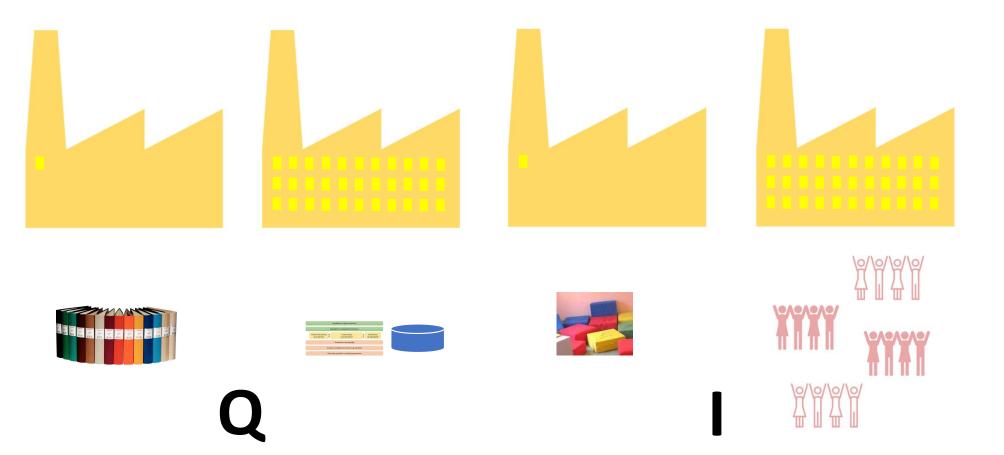
Viktigt att förstå skillnaden (agilt)

"PROJEKTLEVERANSEN"

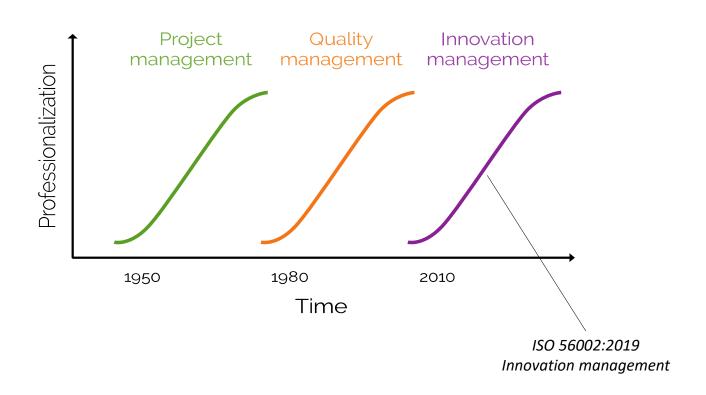
OUTLINE

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- Förändringsledning Lite vägledning
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- Q/A Workshop

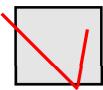
METAFOR – Engagera fler!

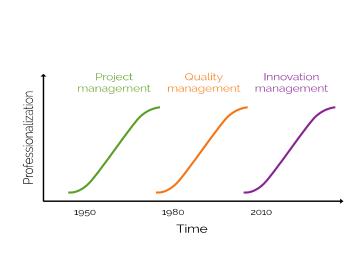


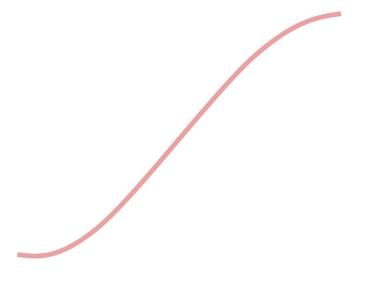
Engagera fler Q & I

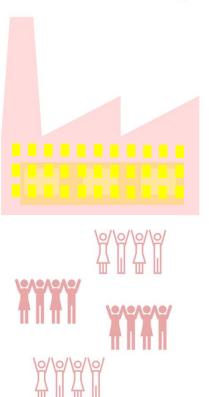


Bygg en kultur för Innovation & Change





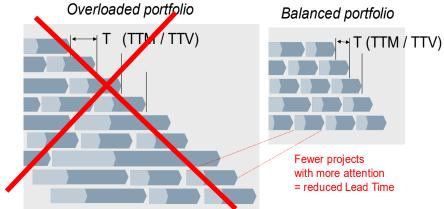




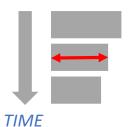


MARKET INTRODUCTION APPROACH





SHORTER TIME IN THE MARKET



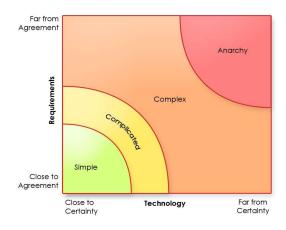
- Product Architecture
- Flexibility

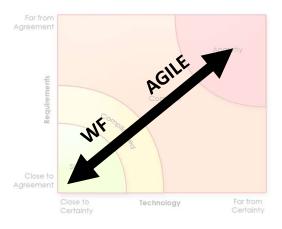
INCREASED COST OF DELAY!

- Balanced Portfolio
- Shorter Lead Time
- Fewer projects with Higher pace

BELÄGG ALLA TILL 80% FÖR FLEX / CHANGE

Ralph Stacey model (agile)





(Just a summary – more on internet)

Simple tasks

- Simple tasks that are well defined and easy to solve.
- Clear Cause and effect
- Fact-Based management
- It takes some time to define a problem to be Simple and not Complicated

Complicated tasks

- Expert competence required
- Cause and effect exist but less visible
- Fact-based to a high degree
- Manageable number of external influences

Complex tasks

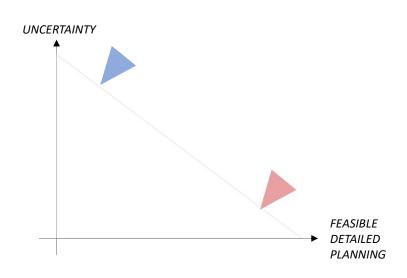
- Complex relations / High degree of uncertainty / unpredictability
- No right answers and many potential solutions
- Creative and innovative approaches Subjectivity and facts
- Inclusive and pattern-based leadership
- Broad range of competence required
- Takes time and reflection beneficial

Anarchy / Chaotic

- Unpredtable / turbulence
- Seek patterns and what could work instead of the right and best solution.
- No clear cause and effect
- Experiment and learn if possible
- Conflicting requirements and not known
- Broad range of competence and pattern-based leadership.

[Snowden and Boone, HBR, 2007]

UNCERTAINTY INFLUENCE OUR PM APPROACH



AGILE

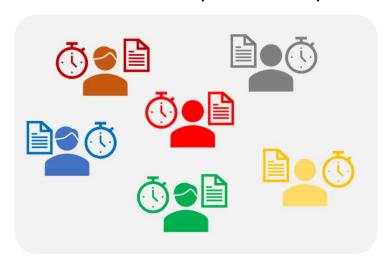
Uncertainty in requirements, technical solutions, risks, planning, etc.

- Draft planning Focus on near future
- Cost with +/- Targets
- Draft / indicative Risks
- Collaboration critical

Enhanced detailing and de-risking will allow for more accurate analyzes
"MORE WATERFALL"
Waterfall assumes known scope

AGILE is not solely a method – Rather a philosophy

WATERFALL (COMMON)



- Top down approach
- Distribution of work by PM
- Centralized
- Measure individual

AGILE (intro)

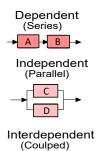


- Bottom Up
- Team effort to define SoW
- Decentralized
- Measure team not individual

The purpose of this picture was just to introduce Agile and somme differenceies with Waterfall – More will come!

SOME SUPPORT FOR ORGANIZING THE WORK

- SEQUENTIAL
- PARALLELL
- ITERATIVE





- Well defined work package
- Just to send a specification and you know exactly what you get.
- Limited uncertainty

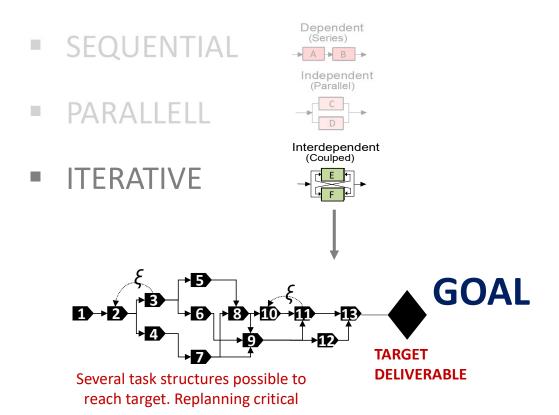


INTEGRATION

- Uncertainty
- Iterative scope
- Joint effort required



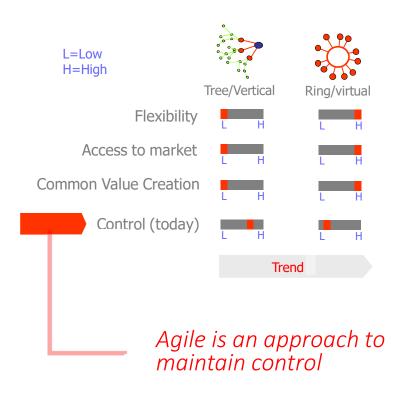
ORGANIZATION FOR ITERATIVE SCOPE

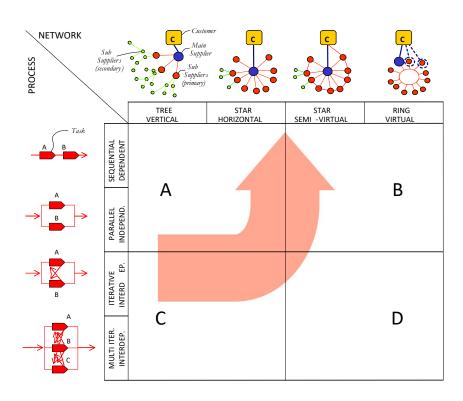






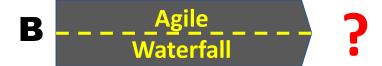
PLANNINING/ACTIVITIES ORGANIZATION





COMBINE AGILE AND W.F.





EARLIER SLIDE – HUGE DIFFERENCE



AGILE (intro)



- Top down approach
- Distribution of work by PM
- Centralize
- Measure individual
- Fixed SoW + Scope growth + Delay
- Bottom Up
- Team effort to define SoW
- Decentralized
- Measure team not individual
- Fixed time Adjust scope On time

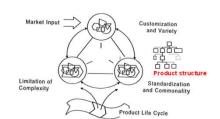


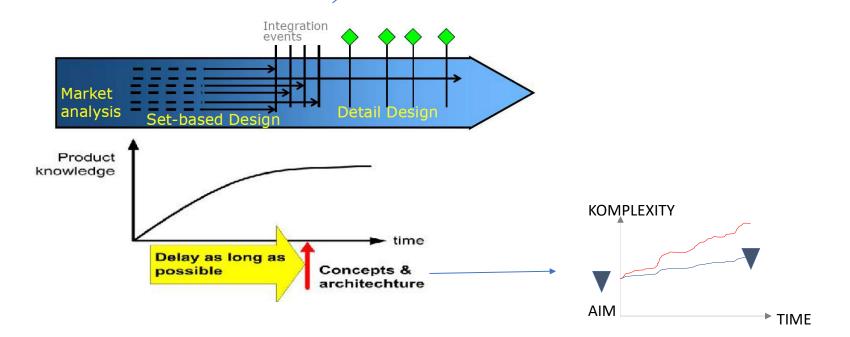
In case the work can be coordinated and an integrated approach NOT required between Agile and waterfall team, then OK

OVERVIEW SET-BASED (LEAN)

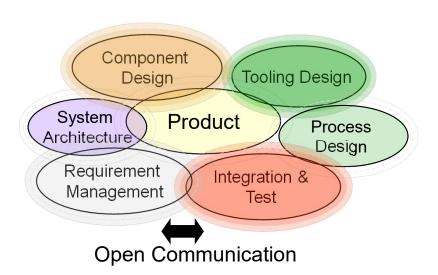
- Focus on Functional requirements
- Few but important explicit requirements
- Consider bandwidth for RQs (+ picture/diagram)
- Parallel sets of concepts

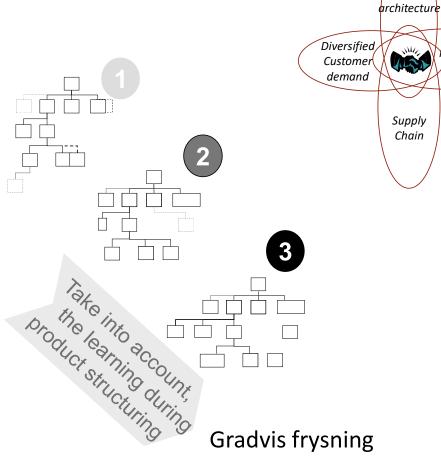
- Test various combinations of your sets of concepts
- In order to find the overall best architecture





SET-BASED ENGINEERING





Product

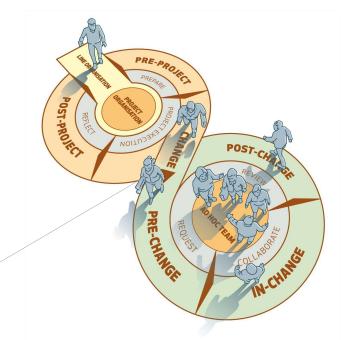
Manufacturing

technologies.

CHANGE MANAGEMENT – LINE / PROJECT

Change Management is a key task for the Line and Project Organization

LINE

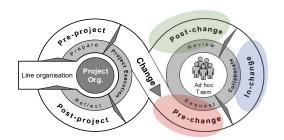


PROJECT

CHANGE MANAGEMENT

PRE - IN - POST

Three phases to manage Change in the project (somewhat simplified)



PRE CHANGE

- Appoint responsibility
- Define process
- Change Log
- Meeting structure
- DB / Storage
- Change request forms
- Change carrier

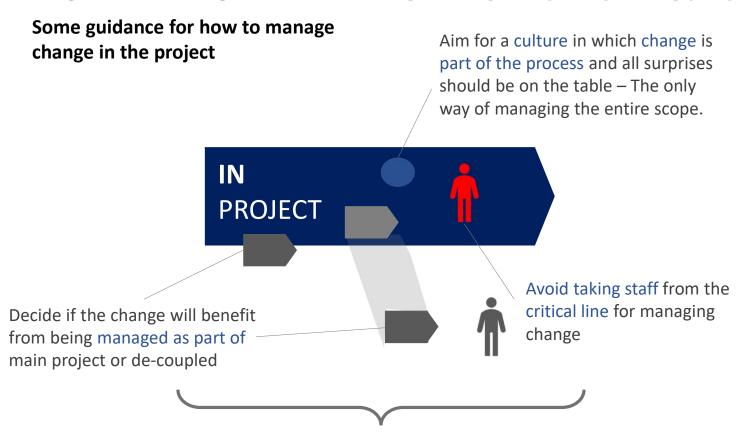
IN CHANGE

- Maintain process/meetings /DB/responsibility/etc.
- Involve concerned disciplines.
- Opportunities
- Evaluate consequences/impact/ risk/propagation
- Feasible alternatives Endclient feedback - Decide
- Implementation plan
- Update SoW / Plans

POST CHANGE

- Follow-up C-T-Q
- Monitor Implementation
- Close-Out & Alignment client
- Update related documentation, as required
- Invoicing
- LL -> Line / process

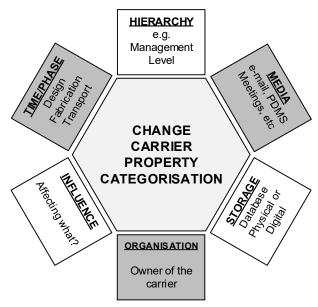
CHANGE MANAGEMENT – FOR A SPECIFIC PROJECT



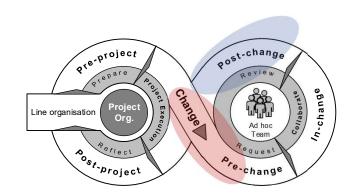
As PM – Develop a system that will keep track of all changes, including triggering events.

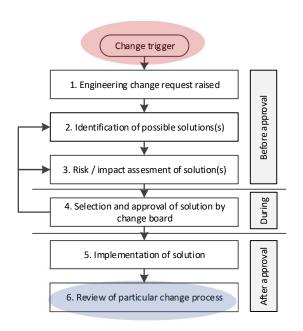
CHANGE CARRIER

Change Carrier could be considered as the mean for bringing all aspects of a change from <u>initiation</u> to <u>implementation</u>



(Change Carrier by Sjögren 2018)

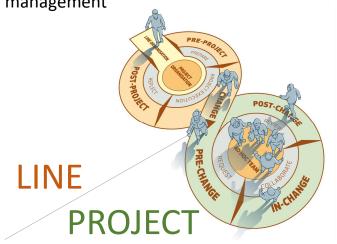


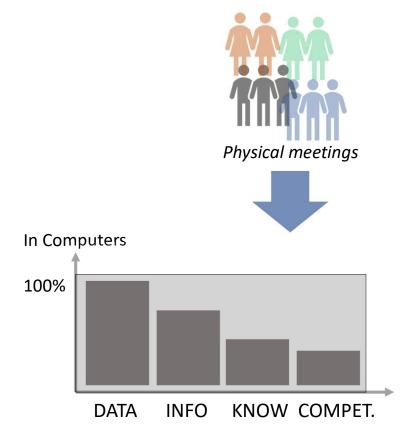


CHANGE MANAGEMENT – LINE / PROJECT LEARNING

For line / Project learning - Physical meetings is required, or workshops

- A lot of Change related information is stored as data and information in computers.
- For knowledge and competence exchange, physical meetings is required - Learning
- In order to further develop the way of working with Change management



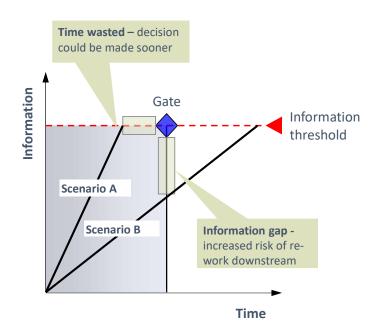


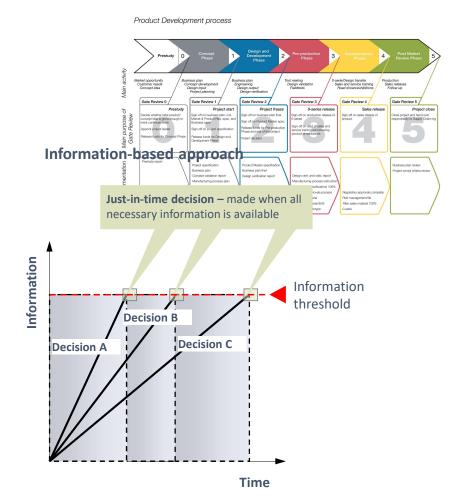
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GATE MODELS

Risk at GATE-Review



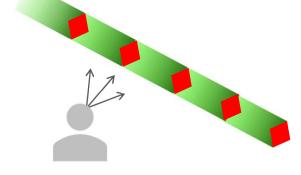


[The Future of Product Development", The McKinsey Quarterly, Vol. 2003]

INTRODUCTION DECISION MAKING

My interest started

- Product development Progress / Decision
- Few companies focus on development of DM capabilities.
- Chevron (O&G Company US)



Aim

- Present decision-making process, supporting PM:s/Teams to enhance the decision quality.
- Increase flexibility, as decisions are planned upfront and options evaluated in a structured manner.
- Focus on complex decisions which don't have easily calculated and simple solutions.

Based On

- Research
- Experiences from large scale engineering/ construction projects.





CRITERIA FOR DECISION?







+ 2 FEASIBLE ALTERNATIVES TO BE EVALUATED

".... Decision making can be regarded as a process, resulting in selection of a course of action among multiple alternatives. One choice is selected for action and implementation."

"We prefer the term "Decision Quality" rather then aiming for the perfect or optimal decision, even if that is worthwhile to striving for."

WHY?



"..... above all else, leaders are made or broken by the quality of their decisions"

[Garvin and Roberto, HBR, September, 2001, p 108]



".... improving your companies decision-making competency can have a direct impact on performance"

[Luecke, 2001]



"Life is a sum of all your choices...... "

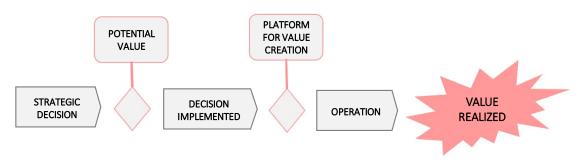
[Decision Quality, 2016]



"... or just because it works"

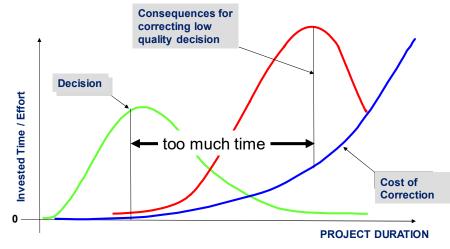
[DM high impact ROI]

EVALUATE IMPACT OF DECISION



A key problem with decision-making is that there are often long time between the decision is taken and the consequences of the decision visible/realized.......

Important to always consider ways to shorten the feedback loop, through simulations, scenario development, agile methods, etc.



APPROACH



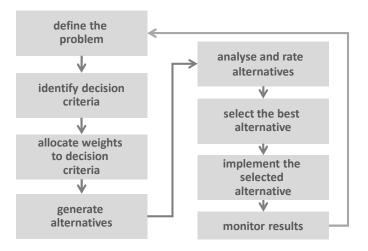
"Selection of approach/method for decision making is dependent on your view and what type of decision you aim to take and implement."

Dock alltid bättre att start med något enkelt och testa = Starta lärandet.

RATIONAL vs BOUNDED RATIONAL

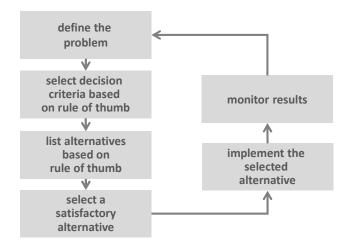
Rational model

- clear and stable objectives
- objective is to maximize outcome
- closed decision-making process
- all required information is available
- founded on quantitative disciplines;
- process supported by computers



Bounded Rational model

- objectives are achievable (might change)
- to identify solutions that are good enough
- open decision-making process
- decision-making strategy is based on making judgements under bounded rationality
- not all information is available or obtainable
- qualitative orientation



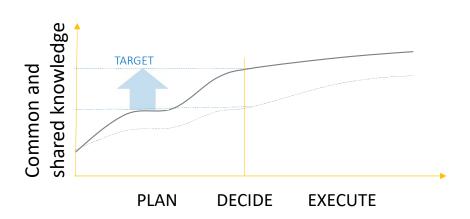
2 CRITICAL ASPECTS

Cross Functional Collaboration



Process Focus (more details will follow) PLAN (PRE) D EXECUTE (POST)

Aiming at



AD-HOC vs PROCESS (including collaboartion)

Project Sponsor / Board / Etc.

Project Team

Project Sponsor / Board / Etc.

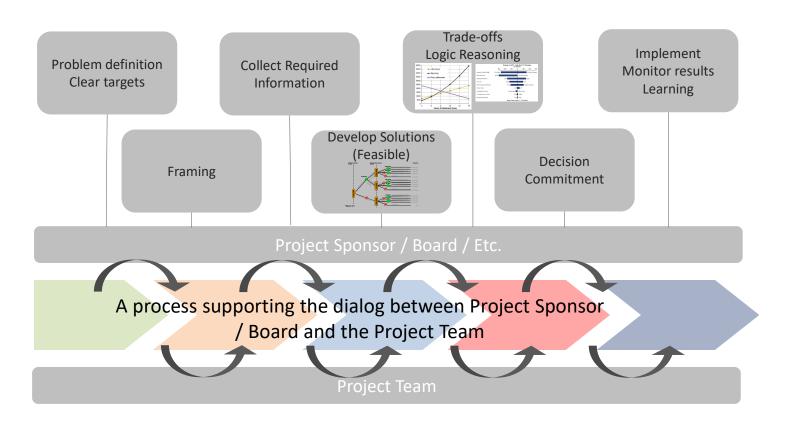
Sponsor / Board and the Project Team

DECISION MAKING PROCESS

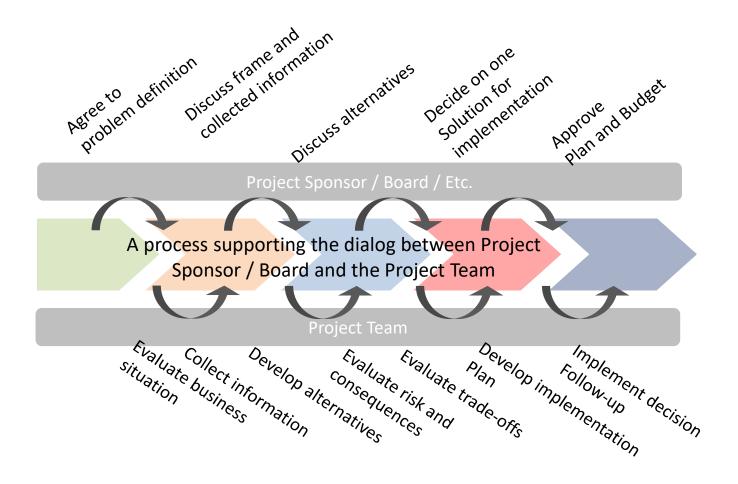
PLAN (PRE)



EXECUTE (POST)



DECISION MAKING PROCESS – EXAMPLE OF ACTIVITIES



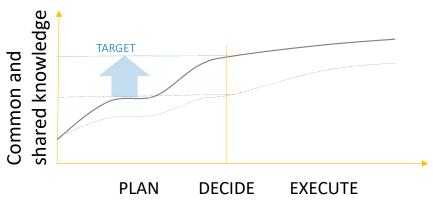
COMMON PROBLEM – COMMUNICATION / COLLAB.

Cross Functional Collaboration

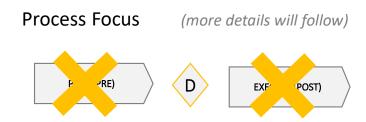








LACK OF PROCESS FOCUS and UNBALANCED PROCESS

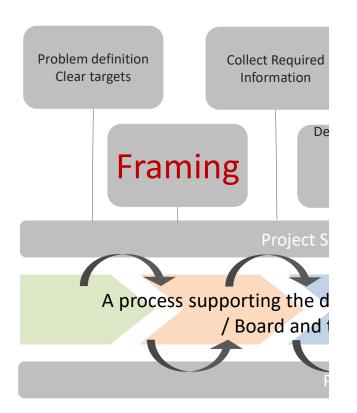


"Lack of process focus and ad-hoc behavior reduces the possibility take a well informed decision (reduces decision quality) "

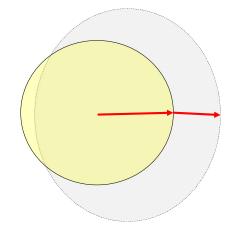




COMMON PROBLEM – LACK OF FRAMING



Poor defined frame and by just collecting some additional not required information increases the complexity and reduce the likelihood to take a decision with high quality!





COMMON PROBLEM – ADDITIONAL

GENERAL

- Decision making not considered as critical capability
- Roles/Responsibilities not defined.
- Sufficient resources not allocated

PLAN (PRE)

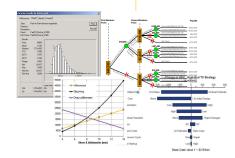
- Unclear problem definition.
- Information quality low (Wrong and too much info)
- Few feasible alternatives
- Few classical decision analysis tools used



- Few persons with knowledge of planned decision present => No decision / delays.
- Decisions influenced by one/several traps.

EXECUTE (POST)

- Execution plan for the taken decision pending (Vacuum).
- Follow-up pending.
- Feedback and lessons learned to line organization.



POTENTIAL TRAPS (1 AND 2 ADDED BY BJÖRN)

1. The Expert Advice Trap

the simple way out – rely on an external expert

2. The Expectations Trap

uncertain information provided due to expectations from team to provide certain input.

3. The Anchoring Trap

disproportional weight to first information

4. The Status Quo Trap

bias toward maintaining current situation

5. The Sunk Cost Trap

justify previous decisions that are not working

6. The Confirming Evidence Trap

seek supporting information only

7. The Framing Trap

misstating the decision situation – undermining entire D-M process

8. The Memory Trap

over-influenced by both recent and dramatic events

9. The Prudence Trap

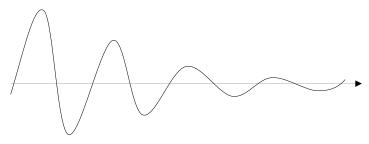
overcautious of estimates around uncertain events

10. The Recognition Trap

tendency to place a higher value on what is familiar

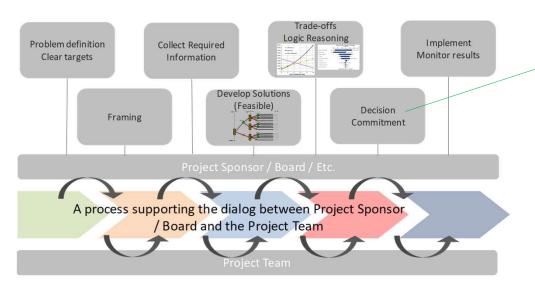
BENEFITS – PROCESS FOCUS

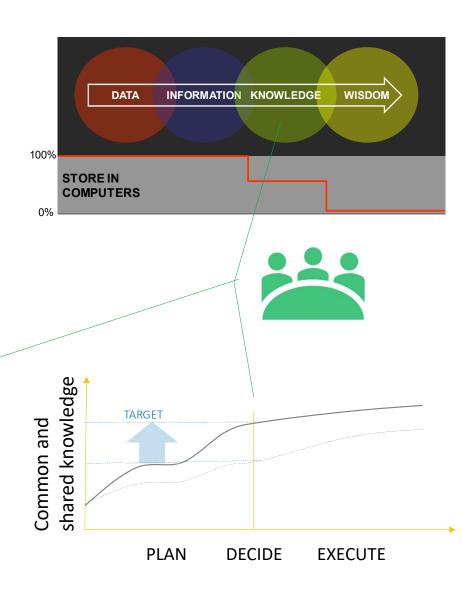
- Allows PM enhance the decision quality, resulting in a higher likelihood to deliver the project in line with plans and reaching goals/objectives.
- The process is the motor for collaboration and common creation of knowledge
- People have two modes (somewhat simplified): Emotional and logical/analytical –
 The process will help to balance these.
- It is normally bad to discuss facts, alternatives, objectives, implementation, etc. in the decision in the same meeting. The process will allow for dedicated meetings for certain tasks.
- Manage biases, by using several meeting to structure the problem, facts, solutions, uncertainty, frame, etc.



DIGITALIZATION

- Process still relevant!
- Framing required for information gathering
- A lot of data available, but filtering and data quality important to consider.
- Structure data into information and then put into context for knowledge sharing





CONCLUSIONS – FINAL WORD DECISION

- Few companies has realized the full potential of efficient Decision Making and implemented sufficient processes, tools, trained the staff, etc.
- Several feasible alternatives could serve as fall-back plan in case implementation of decision fails......
- Progress in a project is directly influenced by decisions, no decisions means no progress and low quality in the decision-making might give rework.
- Taking control over the DM Process enhance your flexibility, as more problems solved upfront and more focus on several feasible alternatives.
- When we see a great disaster That is normally caused by a series of small bad decisions, none of which would have caused a fatality on its own! [McGinn, 2013]

"Deepwater Horizon Oil Spill: blamed BP and its partners for a series of cost-cutting decisions.... (Wiki)"

Do not wait, define your required DM process and work accordingly!

OUTLINE

- Introduktion
- Förstå helheten
- Förändringsledning Lite vägledning
- Beslutsprocesser
- Q/A-Workshop