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# DET KRÆVER DET RETTE MINDSÆT

LINAKs vej til mere effektivitet i udviklingsprocessen

Ved  
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CI Manager  
LINAK A/S

# Hvem er jeg:

- Cand Scient i Kemi og Fysik fra Århus Universitet
- Kemiker på kontrollaboratoriet Grindsted Products → Danisco Ingredients
- Kvalitetschef ved Chr. Hansen A/S, Gråsten
- Project Quality Manager (R&D) ved Siemens Flow Instruments
- Continuous Improvement Manager (R&D) ved LINA K A/S



# Our History

Christian Jensen  
founds his  
workshop

1907

Grandson  
Bent Jensen  
takes over

1976

The first  
actuator was  
developed

1979

First ever  
actuator system  
for hospital and  
care developed

1989

US factory opens

1999

Turnover  
410m Euro

2016

# Rejsen til en mere effektiv produktudvikling

## Indsigt og læring fra ProjectBooster

### Resultater

# Fokusområder i SPEED15

- Visuel fremstilling af ”New Product Development” processen
- Samarbejde mellem funktioner
- Projekt pipeline
- Kapacitet i organisationen
- Planlægning og opfølgning på projekter
- Træning

M1

Phase 2

M2

Phase 3

M3

Phase 4

M4

Phase 5

M5



Phase 1  
HC-PH-PI-AM

Phase 2  
HC-PI-PI-AM

Phase 3  
HC-PI-PI-AM

Phase 4  
HC-PI-PI-AM

Phase 5  
HC-PI-PI-AM

New Product Development (NPD) Process  
LINK IT Standard Process

n0

n1

n2

n3

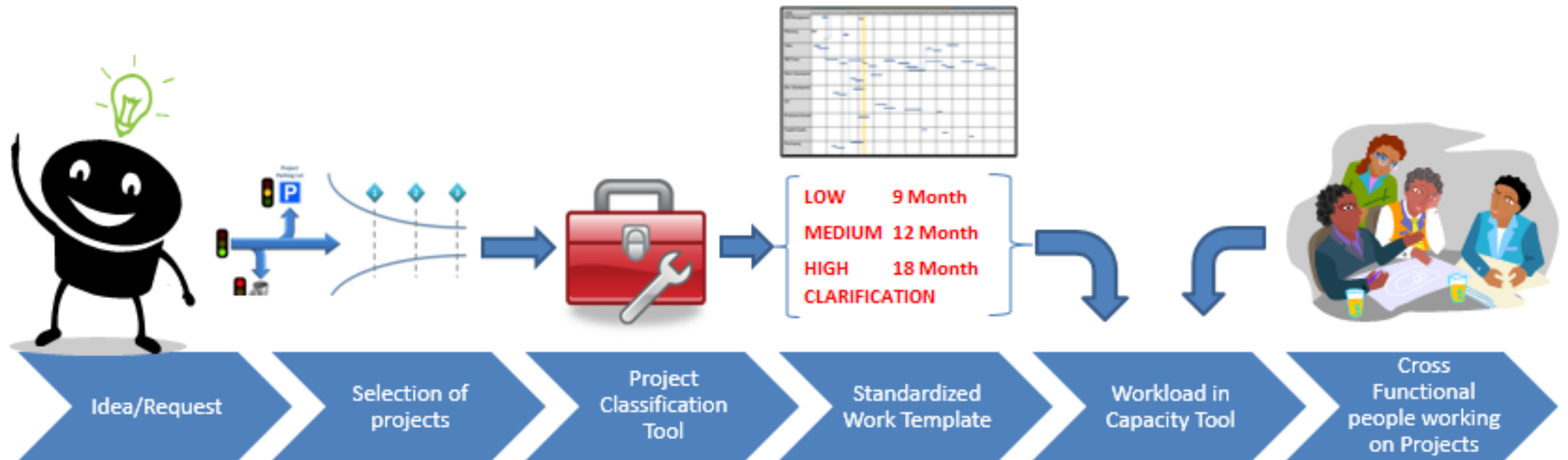
n4

n5

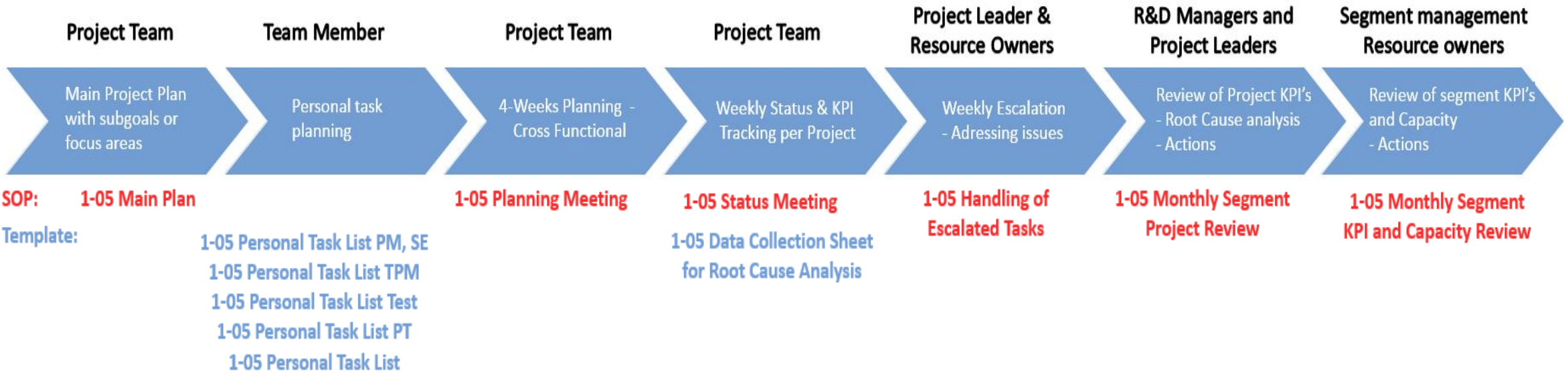




# From Idea to Project Start



# Project Planning and Performance Management Process



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# ProjectBooster

- ❑ Simulering af udviklingsprocessen
  - ✓ Træning af medarbejdere
  - ✓ Test af processer, adfærd og eksekvering
- ❑ Action Learning
  - ✓ Issues
  - ✓ Konflikter
- ❑ Fysisk øvelse & Simulering af reality
  - ✓ Ser aktioner og reaktioner
  - ✓ Ser arbejdsmåder og adfærd

# ProjectBooster @LINAk

- Projektledernes motivation af deres team
- Projektdeltagernes forståelse af samarbejde i udviklingsprocessen
- Roller og ansvar for styregruppen
- Projekt Kick-off
- Identifikation af konflikter mellem swimlanes
- Analyse af arbejdsmetodik og identifikation af problemer

# ProjectBooster forløb



- Setup
- Regler
- Case
- Forarbejde

- Introduktion
- Forberedelse
- Oplevelse
- Feedback

- Forbedringer
  - Processer
  - Kompetencer

# Case og Forberedelse

## Customer Situation

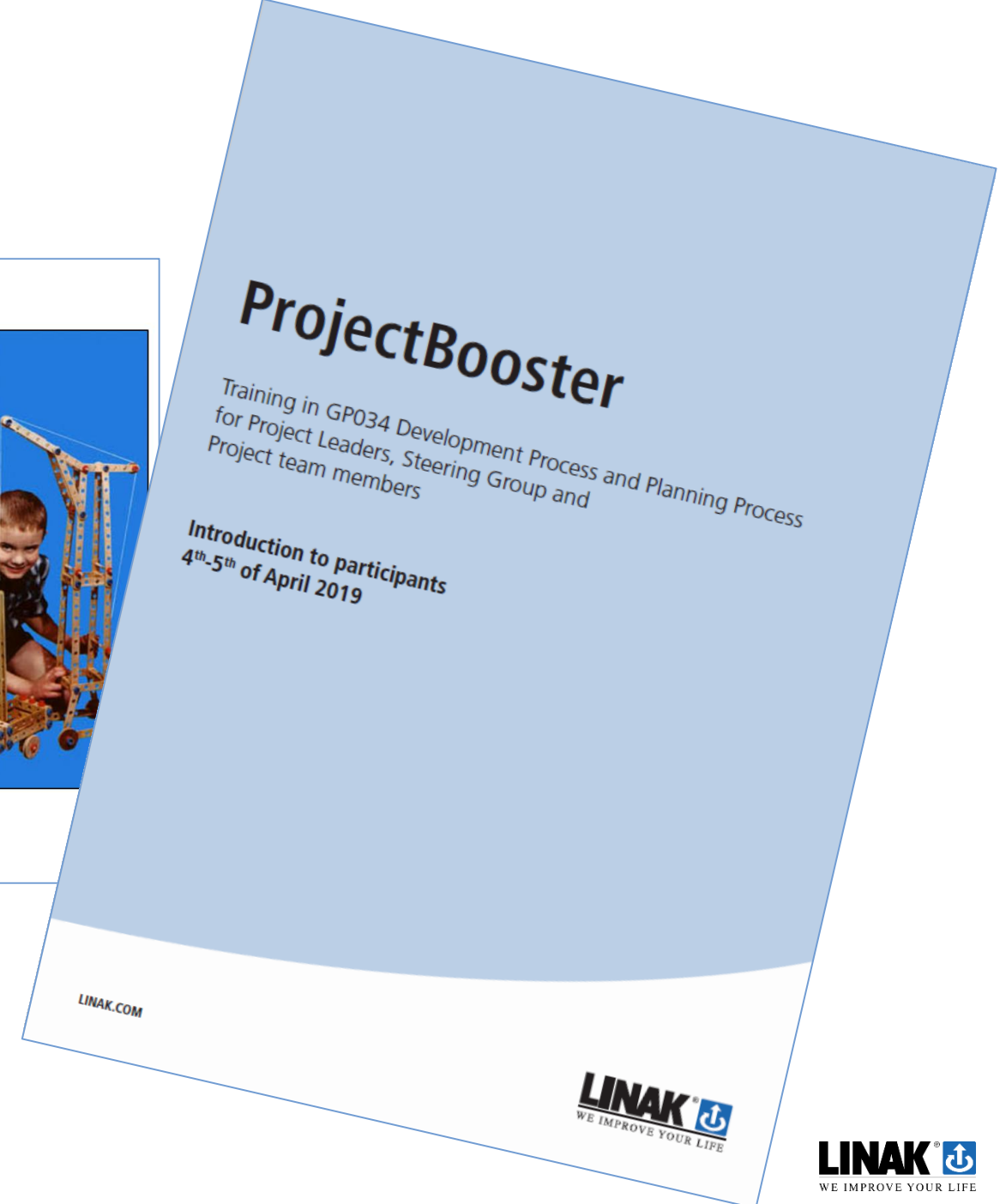
### Sustainable Danish Dairy A/S (SDD)

Selling high quality sustainable dairy products:

- Milk
- Yoghurt
- Butter
- Cheese

Production equipment:

- Build of BILOfix
- Operated by Arduino



# Opstart











Handwritten notes and diagrams on a dark wall. The notes include:

- Top left: A table with multiple columns and rows, possibly a schedule or data log.
- Top center: A diagram or flowchart with some text.
- Top right: A large diagram titled "SOP - WPM" with several columns and rows, possibly a process flow or organizational chart.
- Bottom left: A note with a yellow sticky tab that says "3-04 60A cost PRICE SURVEY H2300".
- Bottom center: A note with a yellow sticky tab that says "3-13 Milestone Audit".
- Bottom right: A note with a yellow sticky tab that says "4-02 Q-RELEASE TEST".

A table with various items and numbered cards:

- 1. A stack of wooden rods.
- 2. A small wooden rod.
- 3. A stack of wooden rods.
- 4. A stack of wooden rods.
- 5. A stack of wooden rods.
- 6. A stack of wooden rods.
- 7. A stack of wooden rods.
- 8. A stack of wooden rods.
- 9. A box of red markers.
- 10. A stack of wooden rods.
- 11. A stack of wooden rods.
- 12. A box of blue markers.
- 13. A box of blue markers.
- 14. A box of red markers.
- 15. A stack of wooden rods.
- 16. A box of blue markers.
- 17. A red perforated mat.
- 18. A stack of wooden rods.
- 19. A box of red markers.
- 20. A box of blue markers.
- 21. A box of red markers.
- 22. A stack of wooden rods.
- 23. A stack of wooden rods.
- 24. A stack of wooden rods.
- 25. A stack of wooden rods.
- 26. A stack of wooden rods.
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- 44. A stack of wooden rods.
- 45. A stack of wooden rods.
- 46. A stack of wooden rods.
- 47. A stack of wooden rods.
- 48. A stack of wooden rods.
- 49. A stack of wooden rods.
- 50. A stack of wooden rods.





### Tidsplan Torsdag den 4. marts - Gruppe II

The time plan grid shows the following structure:

Time Slot	12:00 - 13:00	13:00 - 14:00	14:00 - 15:00	15:00 - 16:00	16:00 - 17:00
Activity	Marked with a green square and a red 'X'				

Other visible elements on the grid include a 'Kick off' label at the top left and a 'MC' label in the 16:00-17:00 slot. The man is currently writing in the 13:00-14:00 slot.

### Opgaver

Ansvarlig	Opgaver
Projektleder	Byg m.d. aflever med dage gængs
Sales	
Test-EI	
Mech	
CAD	
EI	Casey F. med 12.30
SW	
EP-EI	
EP-Mech	
PT-EI	
PT-Mech	
Log	

# Hvad kan udvikles?

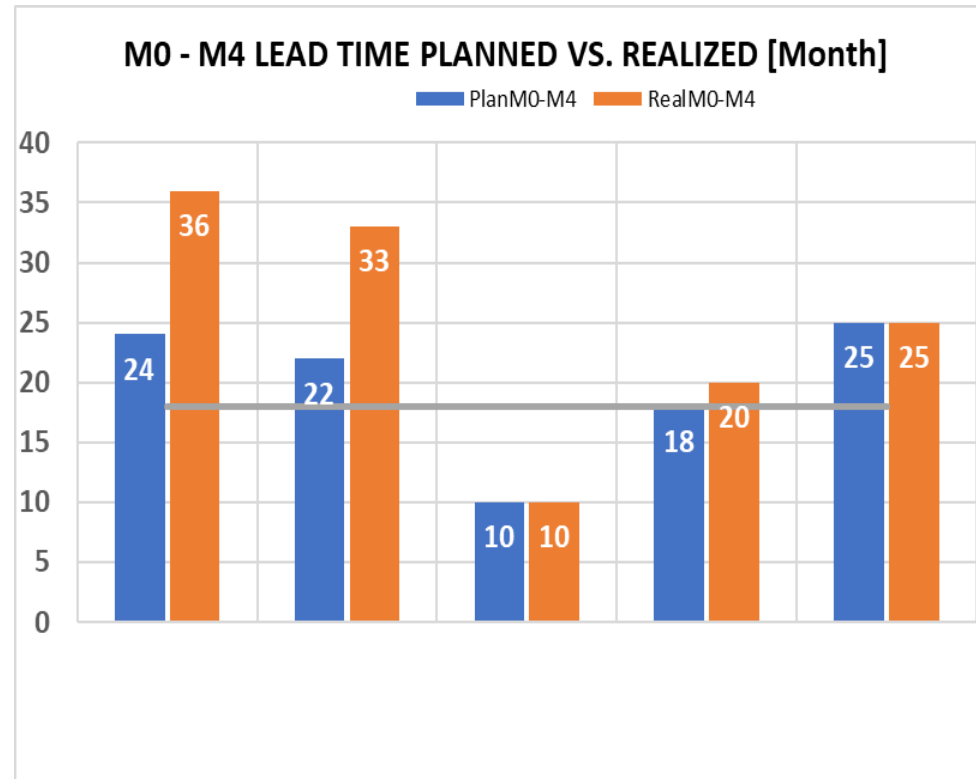
- Kommunikation mellem fagområder
- Samarbejde mellem afdelinger
- Korte/præcise uge møder, bedre agenda
- Synliggøre delmål
- Afklare specifikationer mellem afdelinger

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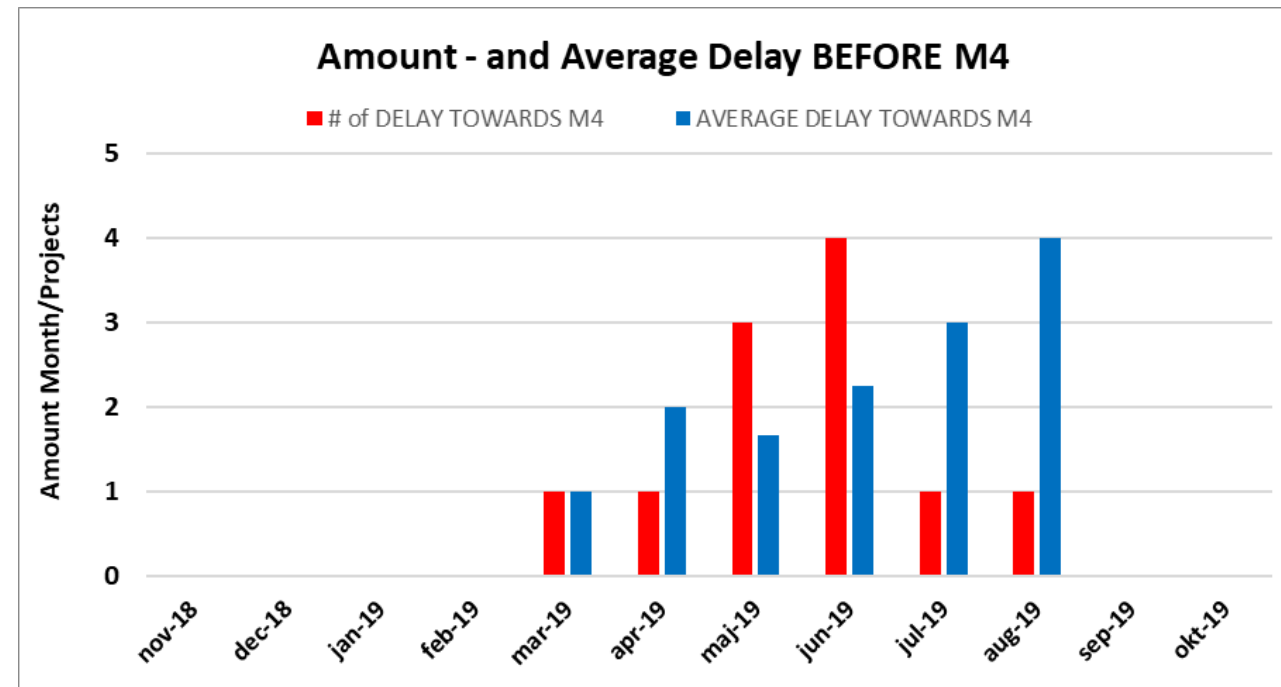
# Resultater per november 2019

- Leadtimes



# Resultater per november 2019

- Leadtimes
- M4 Ontime
- Average Delay



# Forandringsrejse



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