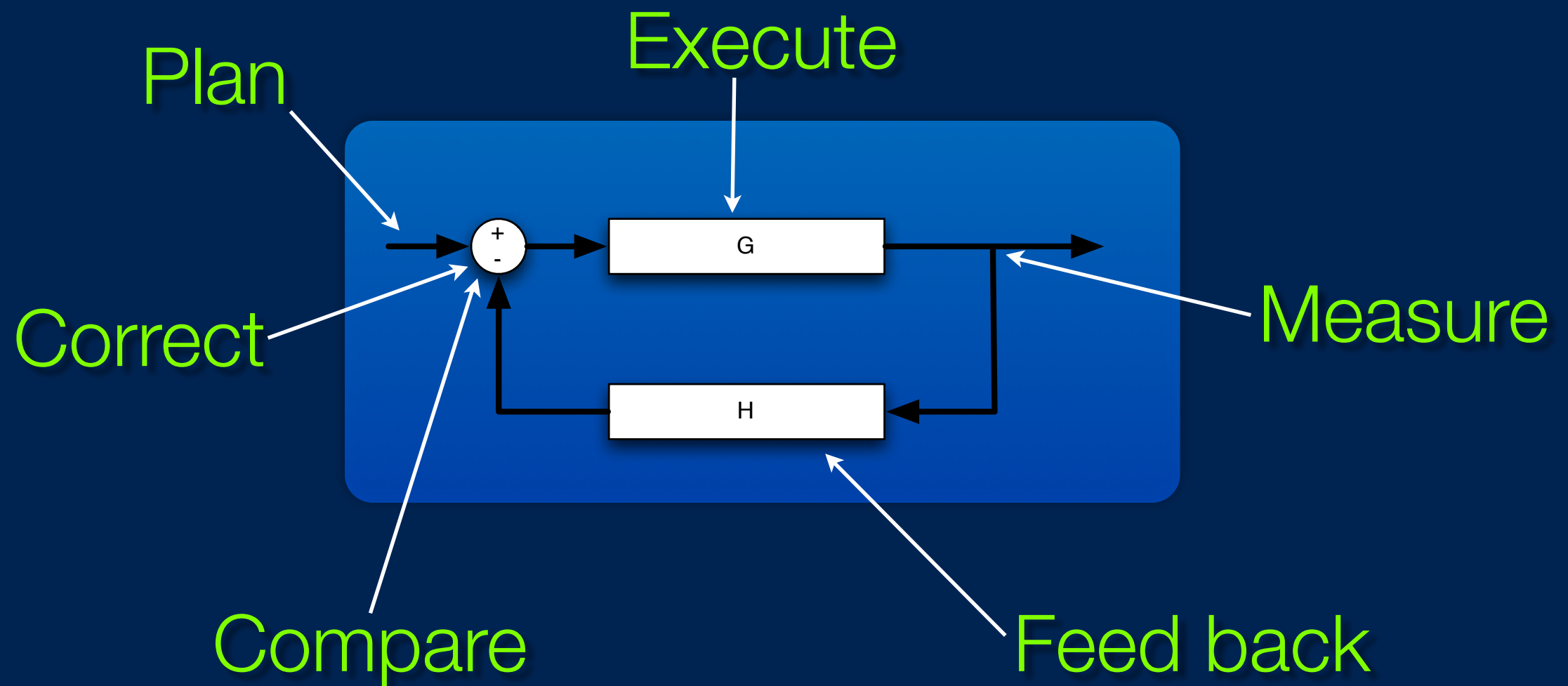
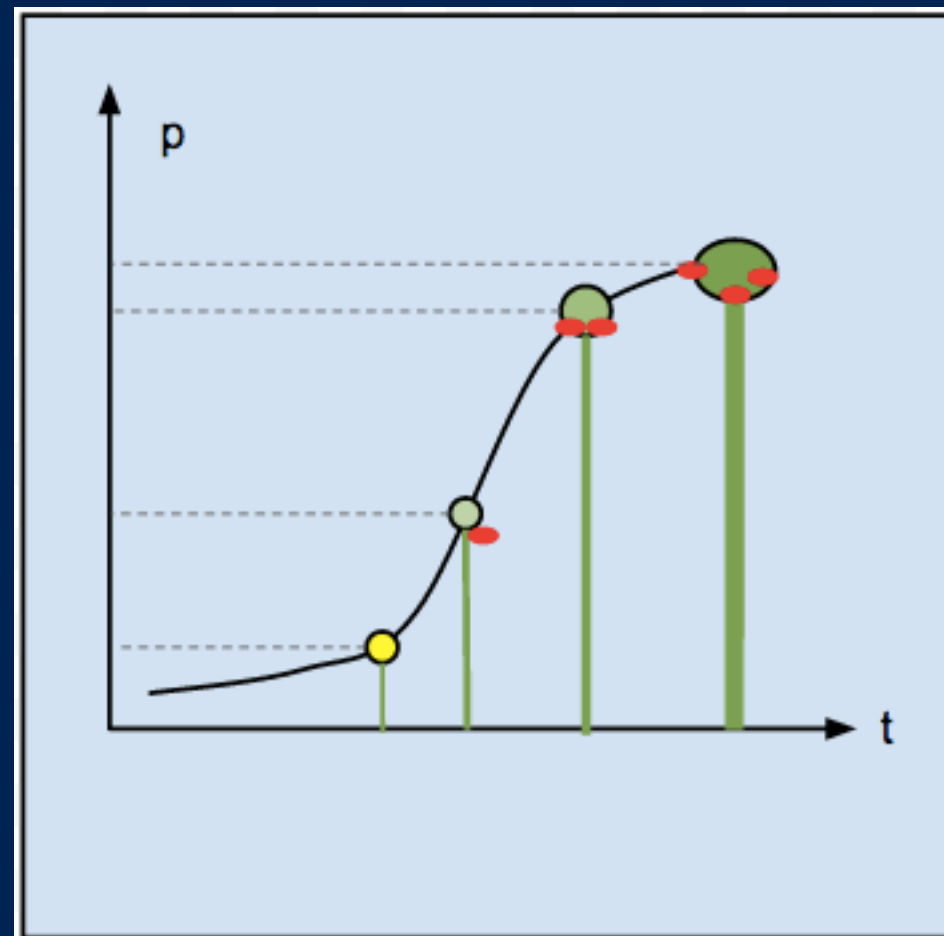


# DPC in a nut shell

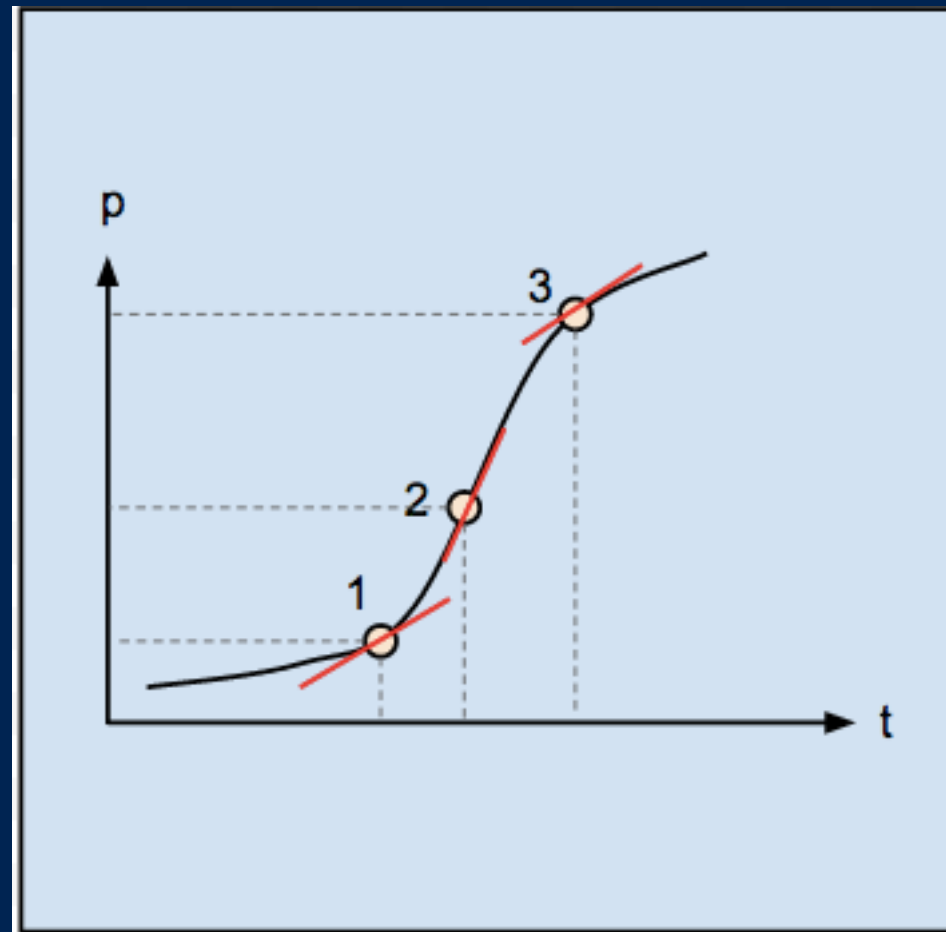
Dynamic Project Control



# Monitoring the growth of a flower



# Progress and progress speed



- Ho much: the dots
- How fast: the slope of the red lines

Task Name	Start Date	End Date	% Complete	Q3			Q4			Q1			Q2			Q3			Q4			Q1		
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
<input checked="" type="checkbox"/> NPT Phase 2	06/09/13	27/06/14	100%																					
<input checked="" type="checkbox"/> JP en Mi	06/09/13	26/06/14	100%																					
Uitbreken tuin	06/09/13	03/10/13	100%																					
Keuze tegels en bestellen	13/09/13	26/09/13	100%																					
Elektriker aanstellen.	14/01/14	10/02/14	100%																					
Keuze pellet kachel en bestellen.	19/03/14	15/05/14	100%																					
Leverinstermijn Kachel	16/05/14	26/06/14	100%																					
Bibliotheek kopen.	13/06/14	19/06/14	100%																					
<input checked="" type="checkbox"/> Veranda	11/10/13	27/06/14	100%																					
Grondwerken en terras	11/10/13	22/10/13	100%																					
Bezoek Architect	11/10/13	22/10/13	100%																					
Opmeten	06/11/13	06/11/13	100%																					
Uittekenen en prefab	07/11/13	30/01/14	100%																					
Vorbereiding veranda	03/02/14	07/02/14	100%																					
Uitbreken raam en plaatsen veranda	26/02/14	04/03/14	100%																					
Roofing op vloer	17/03/14	17/03/14	100%																					
Plaatsen kabels voor stopcontacten + Aansluiting licht	18/03/14	18/03/14	100%																					
Plaatsen waterleiding op	19/03/14	19/03/14	100%																					

$$D_{est} = \frac{S + 4E + L}{6}$$

$D_{est}$ : estimated duration

S: shortest possible duration

E: expected duration, most likely value

L: longest possible duration

Task Name	Responsible	WF	Predecessors	Duration	Start Date	End Date	% Complete
⊕ My Project				127	20/01/14	15/07/14	1%

First level: only one root

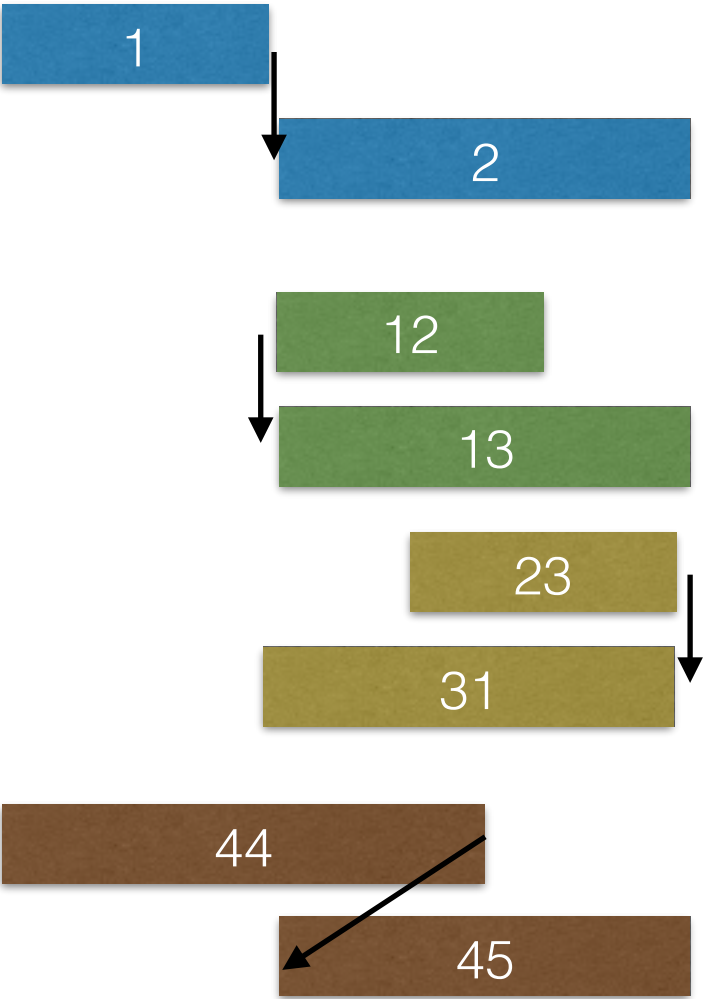
Task Name	Responsible	WF	Predecessors	Duration	Start Date	End Date	% Complete
⊖ My Project				127	20/01/14	15/07/14	
⊕ Milestones				127	20/01/14	15/07/14	
⊕ Summary 1				20	20/01/14	14/02/14	
⊕ Summary 2				30	17/02/14	28/03/14	
⊕ Summary 3				60	31/03/14	20/06/14	

First and second level

Task Name	Responsible	WF	Predecessors	Duration	Start Date	End Date	% Complete
⊖ My Project				127	20/01/14	15/07/14	1%
⊖ Milestones				127	20/01/14	15/07/14	
Project Start				0	20/01/14	20/01/14	100%
B1			7FF	0	14/02/14	14/02/14	
B2			21FF	0	20/06/14	20/06/14	
DL B2				0	15/07/14	15/07/14	
⊖ Summary 1				20	20/01/14	14/02/14	11%
a		100	3SS	20	20/01/14	14/02/14	10%
b		200	8SS	20	20/01/14	14/02/14	10%
c		500	8SS	20	20/01/14	14/02/14	25%
d		800	8SS	20	20/01/14	14/02/14	
⊖ Summary 2				30	17/02/14	28/03/14	
x			7	30	17/02/14	28/03/14	
y			13SS	30	17/02/14	28/03/14	
z			14SS	30	17/02/14	28/03/14	
⊖ Summary 3				60	31/03/14	20/06/14	
⊕ New summary				30	31/03/14	09/05/14	
⊕ Summary 4				30	12/05/14	20/06/14	

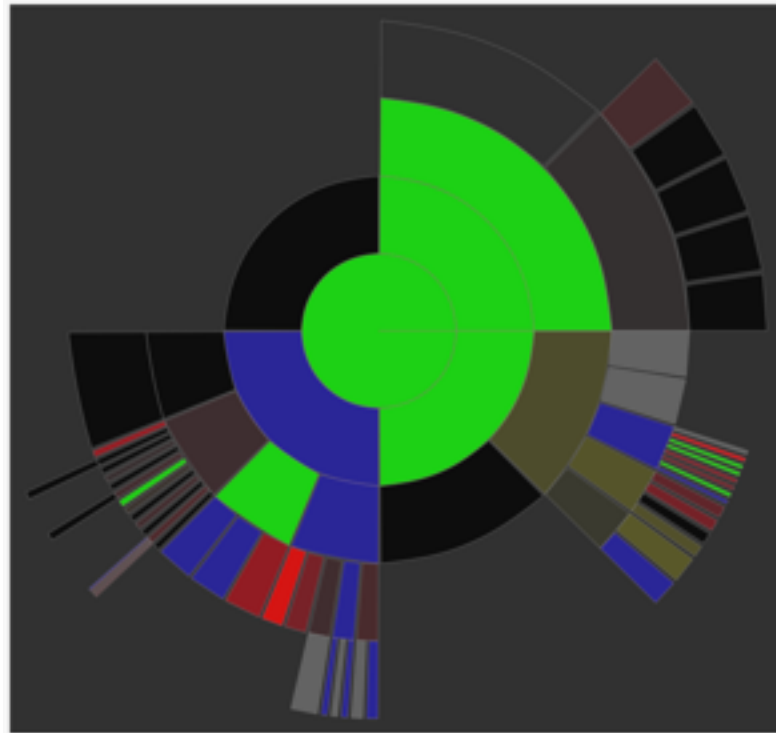
First, second and third level

Every bar below is a task in the Gantt chart  
 The nr is the line number

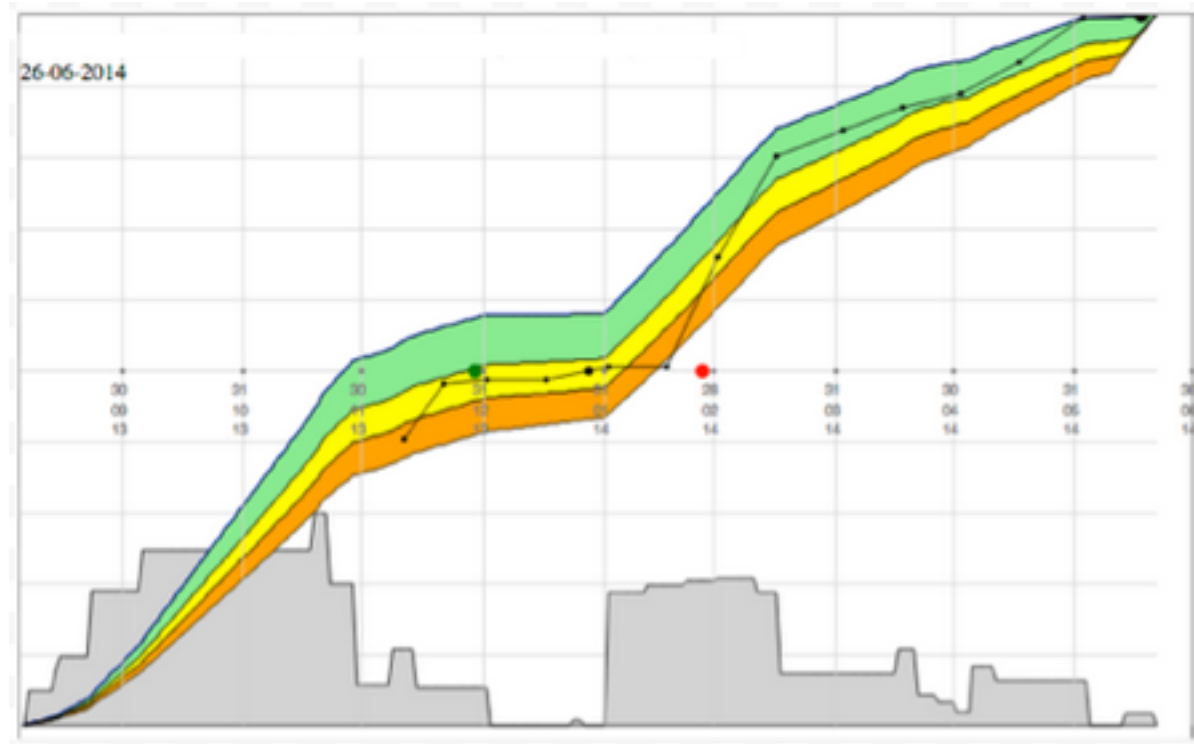


Meaning	Syntax	Parallel
2 starts when 1 is completed	2:1FS	No
12 and 13 start at same time	13: 12SS	Full
23 and 31 finish at same time	31: 23FF	Full
45 starts while 44 is still busy; lag is -10 days	45: 44FS-10d	Partial



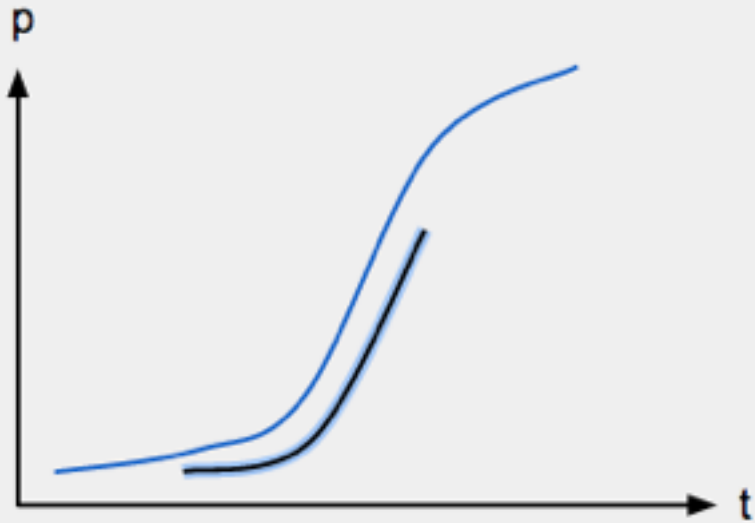


## Daisy Tree

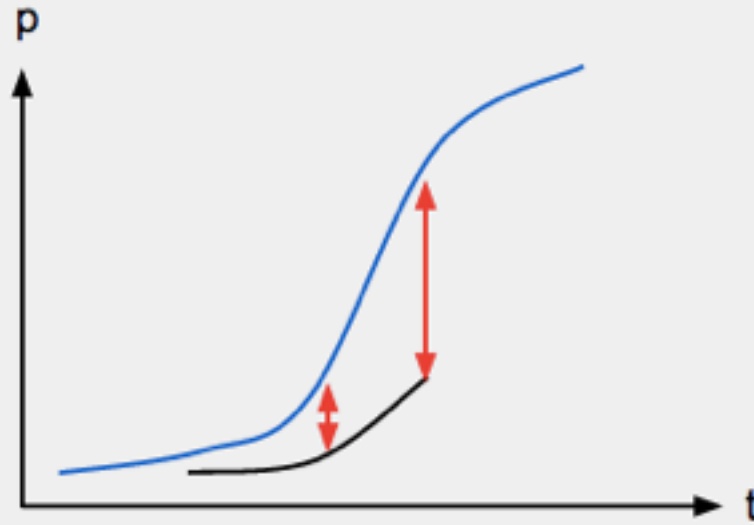


## S-curve

- Daisy tree: total view, tree structure in the rings
  - Global view
  - Helps spot where the problems are well ahead of time
- S-curve
  - Blue line: scheduled progress line
  - Black line: observed progress, dots are measuring points
  - Green: safe
  - Yellow: less safe
  - Orange: lesser safe, consider action
  - Outside orange (red): problem, need to act

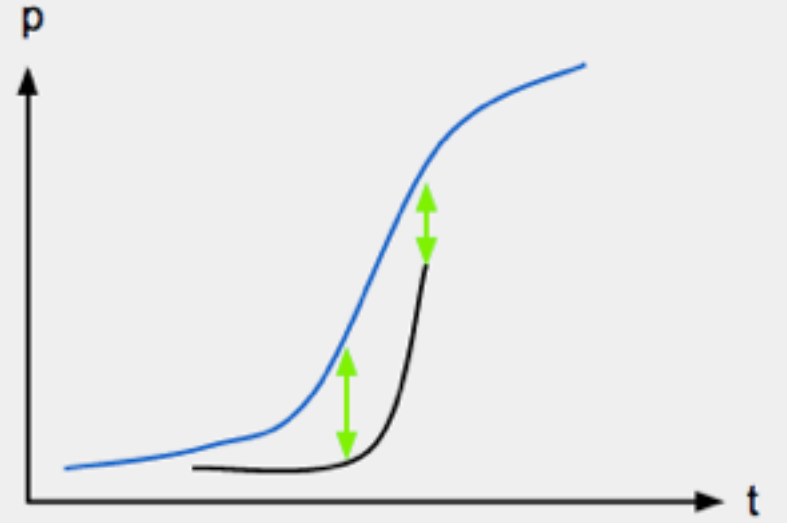


Parallel track  
Continue

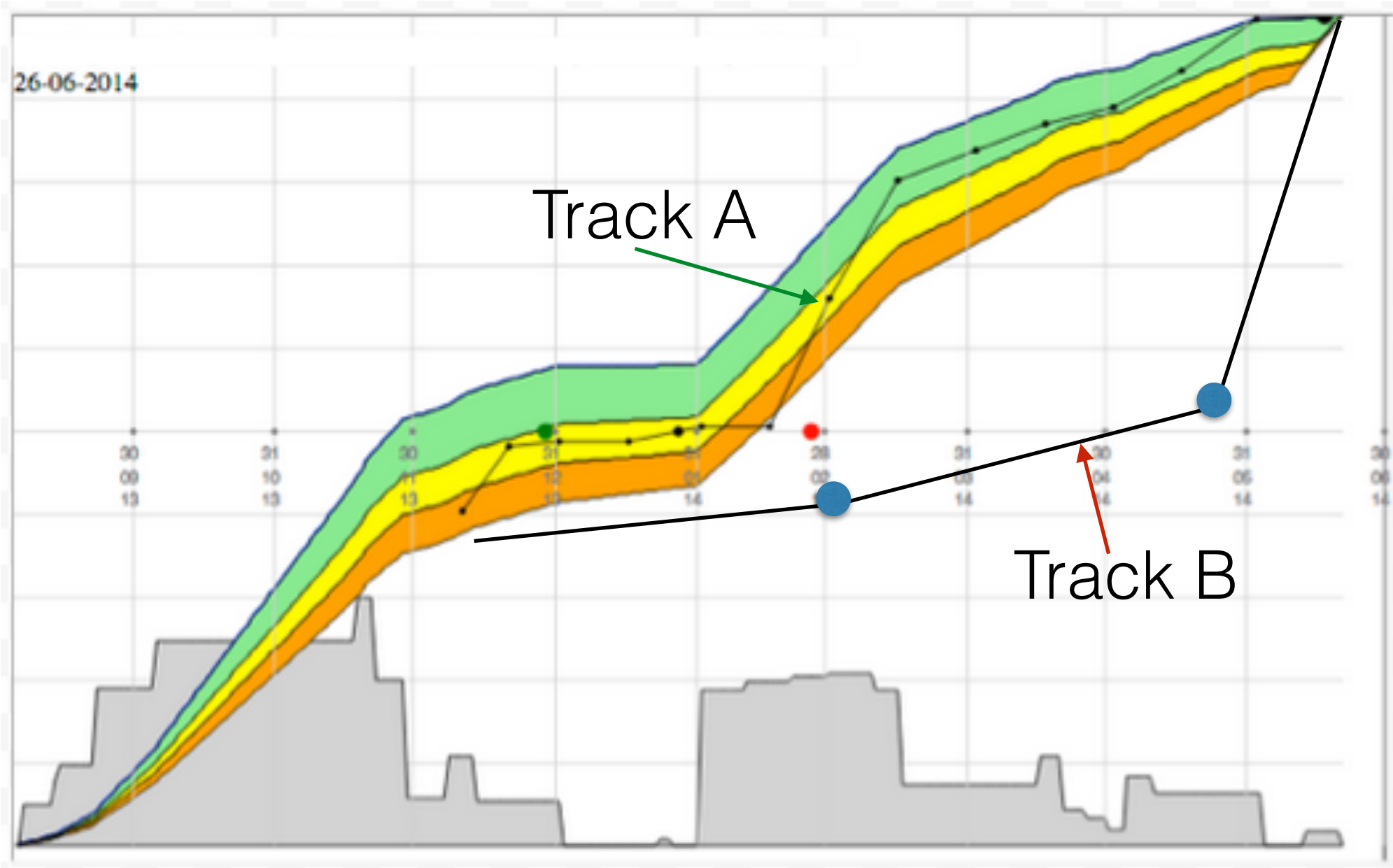


Divergent track  
Need to act

- Increase resources
- Increase working hours
- Improve logistics
- Improve communication
- Improve information



Convergent track  
You are recovering now  
Continue



## TRACK A

- Excellent
- Low risk
- Stays well in the safe (green zone)
- Success
  - in time
  - full scope
  - 100% quality

## TRACK B

- Bad
- High risk
- Is red zone
- Failure
  - in time, yes, but
  - not full scope
  - low quality

# The dream track

