concept

GOVERNANCE OF MAJOR INVESTMENT PROJECTS
CONCEPT SYMPOSIUM 2008



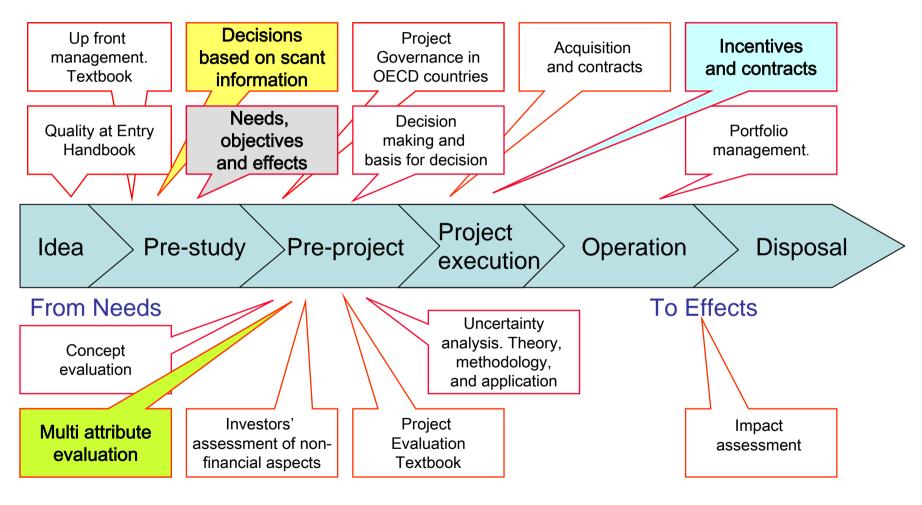
Findings from the Concept Research Programme

Nils O. E. Olsson Ole Jonny Klakegg





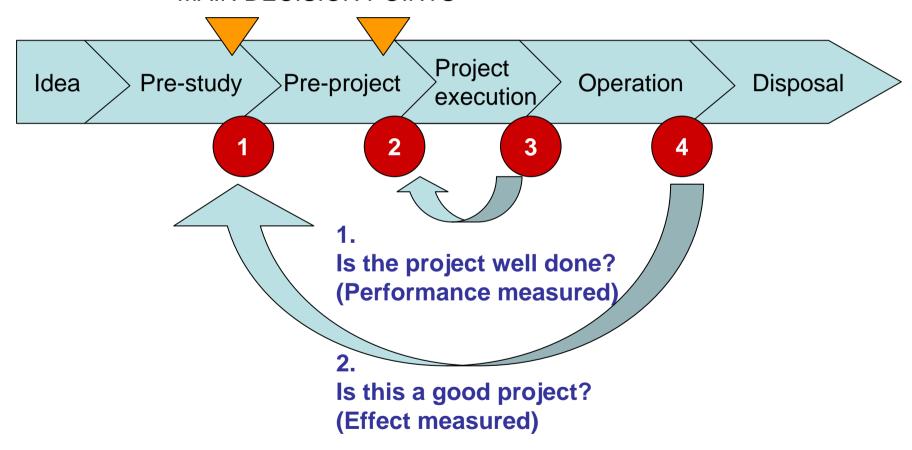
Front-end management with a life-cycle perspective





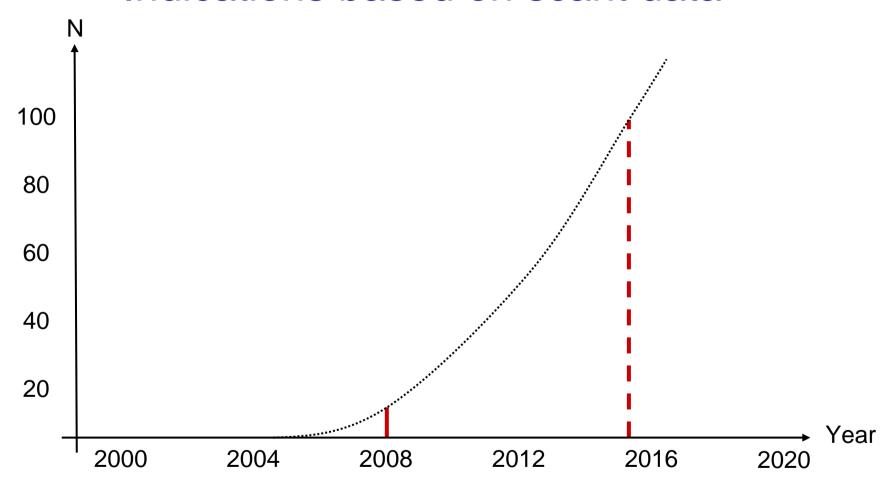
Efficiency and Effectiveness – Two perspectives on projects

MAIN DECISION POINTS





Indications based on scant data



Prognosis for the number of finished projects in the database





On what basis should a project concept be evaluated?

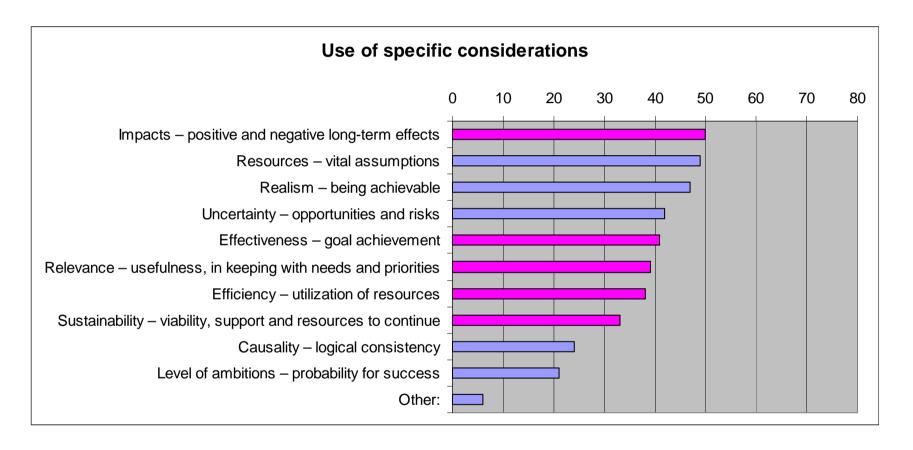
OECD

Best practice reference for success measures:

- Efficiency (transforming inputs into results)
- Effectiveness (achievement of objectives)
- Impact (positive and negative changes)
- Relevance (in keeping with priorities and needs)
- Sustainability (effect maintained after the project concluded)



Stated considerations when defining goals



Survey 2007: N = 80 international experts (public and private sector)





Finding the right investment opportunity

Strategy
Alignment,
Influence

Management
Timing
Realisation,
Exit

Project deliveries



Investors' basis for decisions

What do you amphasiza	Informant									
What do you emphasize in project evaluation?	a.	b.	C.	d.	e.	f.	g.	h.	i.	j.
Knowledge and business experience	X	Х	X	X	X	X	X	X	X	Х
Management	X		Х	X			X	X	X	X
Strategy and business alignment	X	Х	X				X	X		X
Intuition	X		X	X	X			X	X	
Key statistics				Х	X			X		Х
Exit			X	X				X	X	

N = 10 In-dept interviews



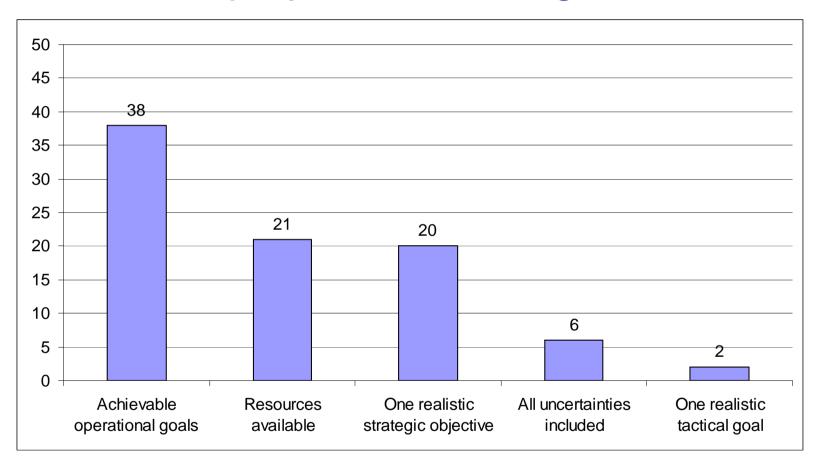
Is there a lack of fundamental logic in projects?

Category	A	В	С	D	E	F
Characteri- sation	Well defined	No purpose	No effect	No content	Parallel effects	Top heavy
Symbolic represen- tation						
Number of projects	15	7	3	2	21	2
Share of projects	29,4%	13,7%	5,9%	3,9%	41,2%	3,9%

Result of analysis: fundamental logic in defining project objectives. N = 51 projects.



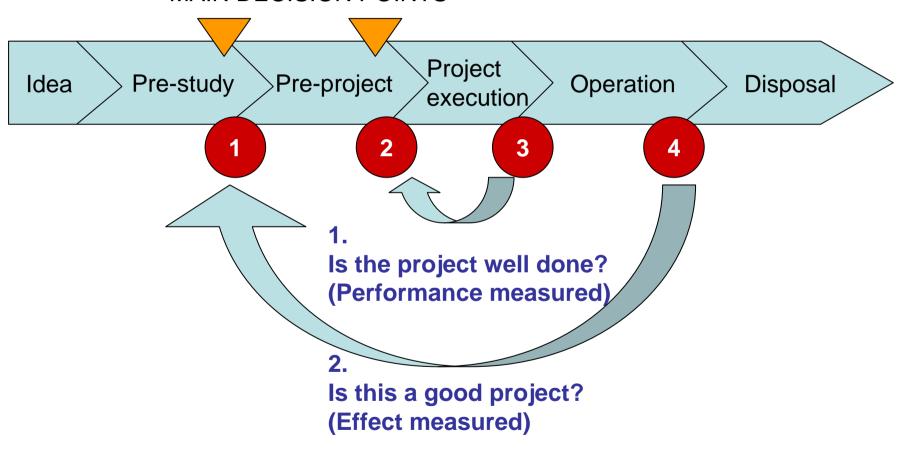
Are projects well designed?



The number of projects meeting the best practice criteria. Total of 51 projects evaluated.

A shift of perspective

MAIN DECISION POINTS





Uncertainty areas in major public projects

Category	Number	Percent
Organization (resources, ability)	48	20
Market	44	19
Technical issues	35	15
Scope management	26	11
Contracts	25	11
Project control	20	8
Project management	10	4
Nature	12	5
Users	6	3
New pre-requisites	3	1
Exchange rate	3	1
Interface other projects	2	1
Stakeholders, context	2	1
Handover to operations	1	0
Total	237	100

Operational

Contextual

Interface

N = 79 projects

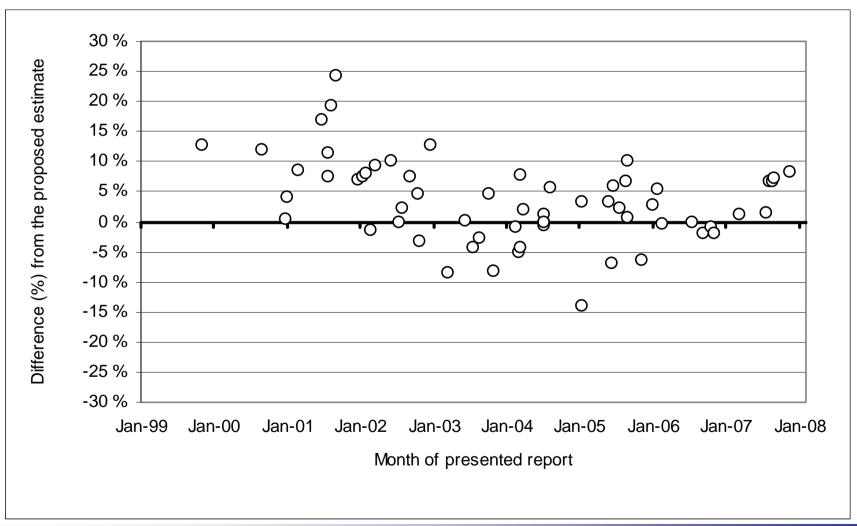


Size of Contingencies

Type of project	N	Contingency (mean)
ICT	4	17 %
Railway	4	12 %
Buildings	13	10 %
Roads	32	9 %
Defence procurement	14	7 %
Other	7	13 %
	74	

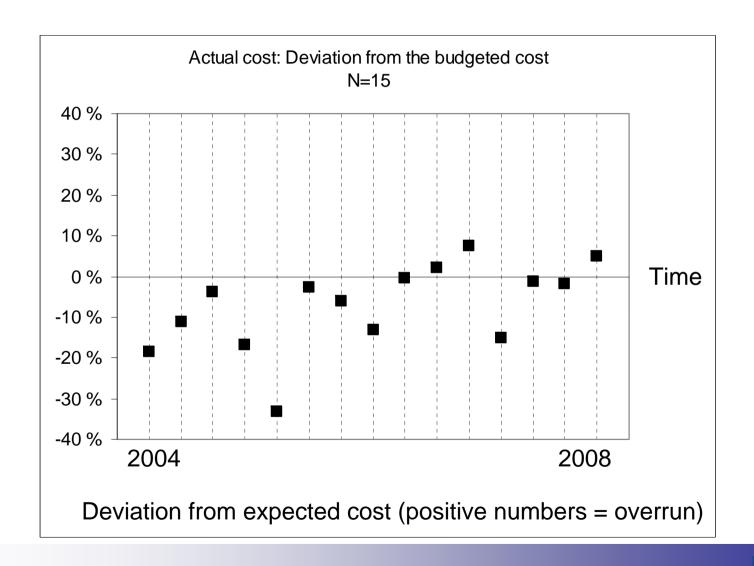


A converging view on cost estimates?





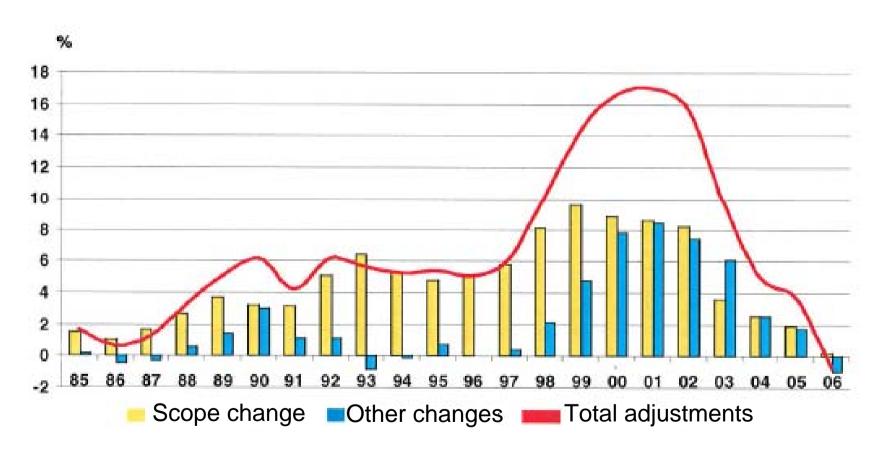
Indications of cost control







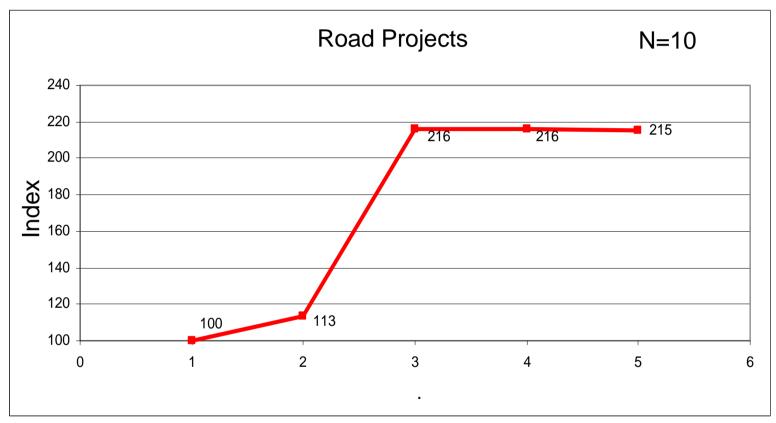
Indications of cost control in a larger portfolio







Projects grow more expensive over time

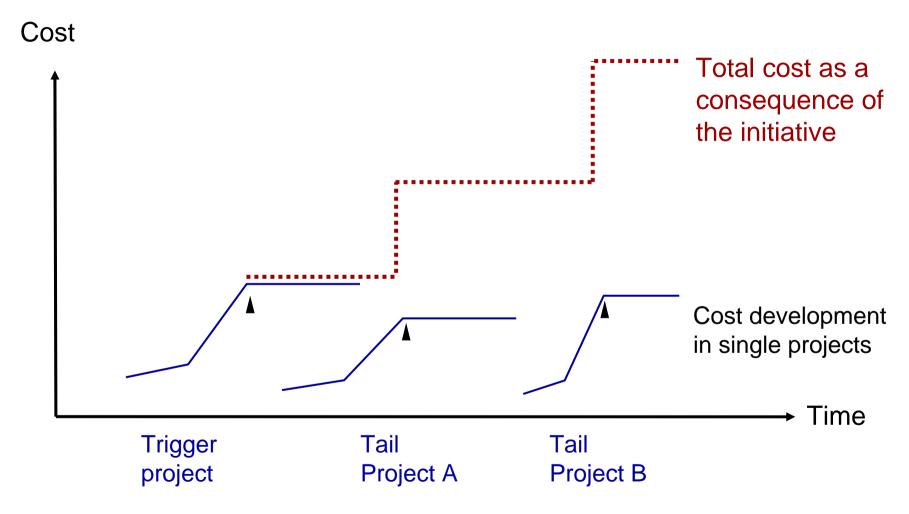


- 1. First estimate
- 2. NTP estimate

- 3. QA2 estimate
- 4. Parliamentary bill
- 5. Current estimate



Amoebic growth of project clusters: Trigger and Tail projects

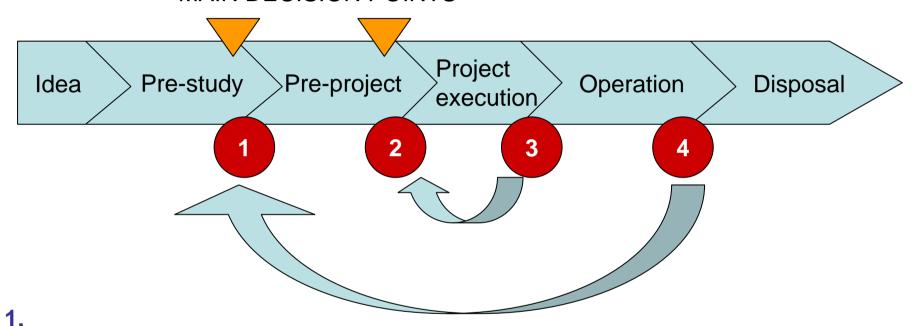






Main indications in this material

MAIN DECISION POINTS



The first projects in our database seems to be well executed.

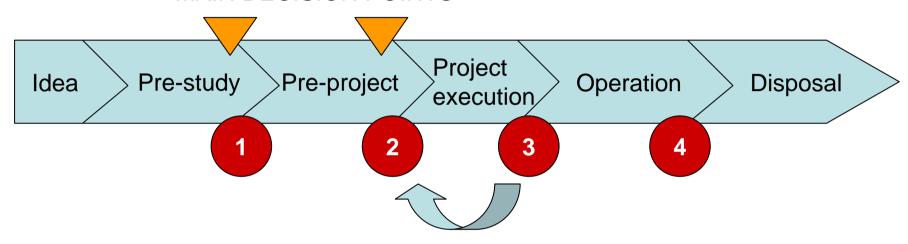
2.

There are indications that the projects in the sample are not well defined. It is too early to tell whether they are successes.



Looking into the future

MAIN DECISION POINTS

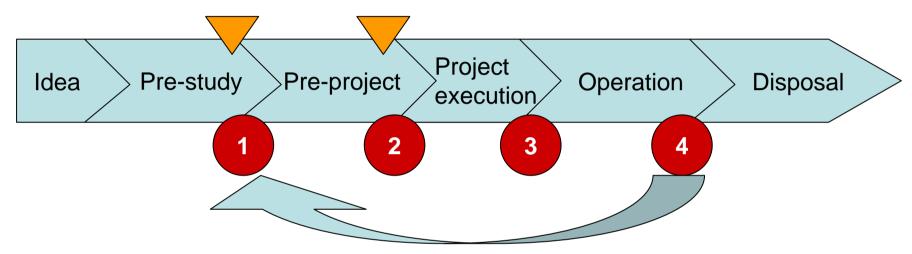


- The 'small' learning cycle (efficiency):
 - Currently a substantial amount of front-end data
 - Waiting for more data from finished projects



Looking into the future

MAIN DECISION POINTS

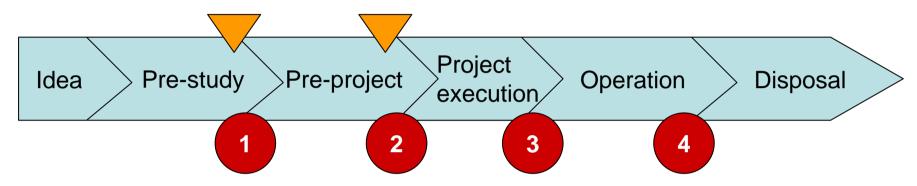


- The 'big' learning cycle (effectiveness):
 - Lack of data for many years yet
 - This is the most important part; patience is needed



Thank you for listening

MAIN DECISION POINTS



Any questions?

Nils O. E. Olsson nils.olsson@sintef.no

Ole Jonny Klakegg @ntnu.no



