



UIC Asset Management Global Conference 2015

How can an IT platform unlock value from your assets ?

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Session 3 – October 13th

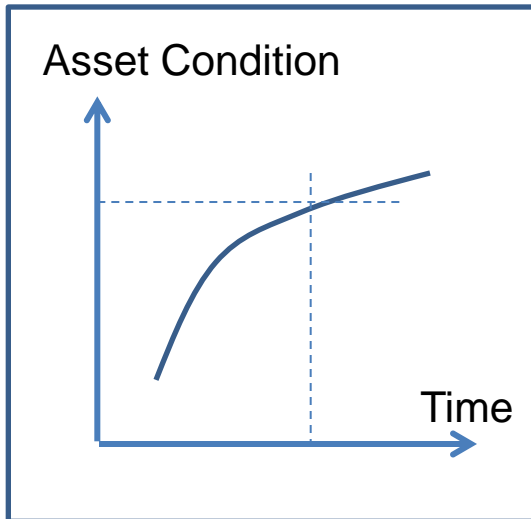
*Putting your assets
on the right track*



- We deliver **Value from assets** by
 - Improving Asset Management Systems (**Consulting**)
 - Connecting data with advanced analytics (**SIMEO™**)
 - Coaching and training people (**Academy**)
- International company, 130 consultants specialized in Transportation and Energy

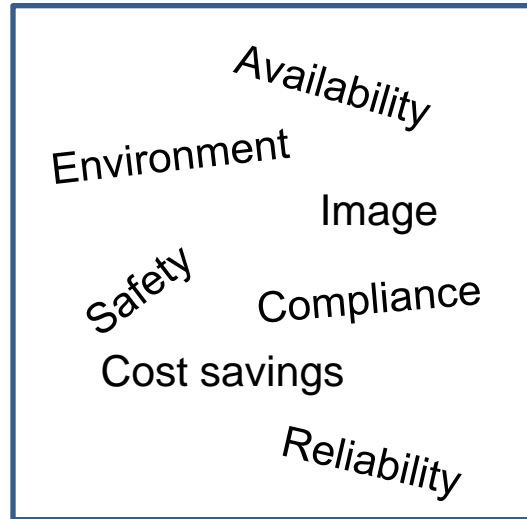
Asset Management History

The Golden Age



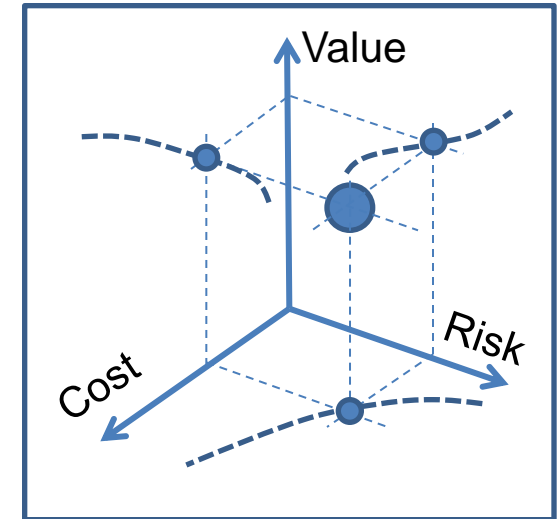
Scientists/technicians
are the masters

The Bronze Age



Financial players are
the guardians

The Value Age



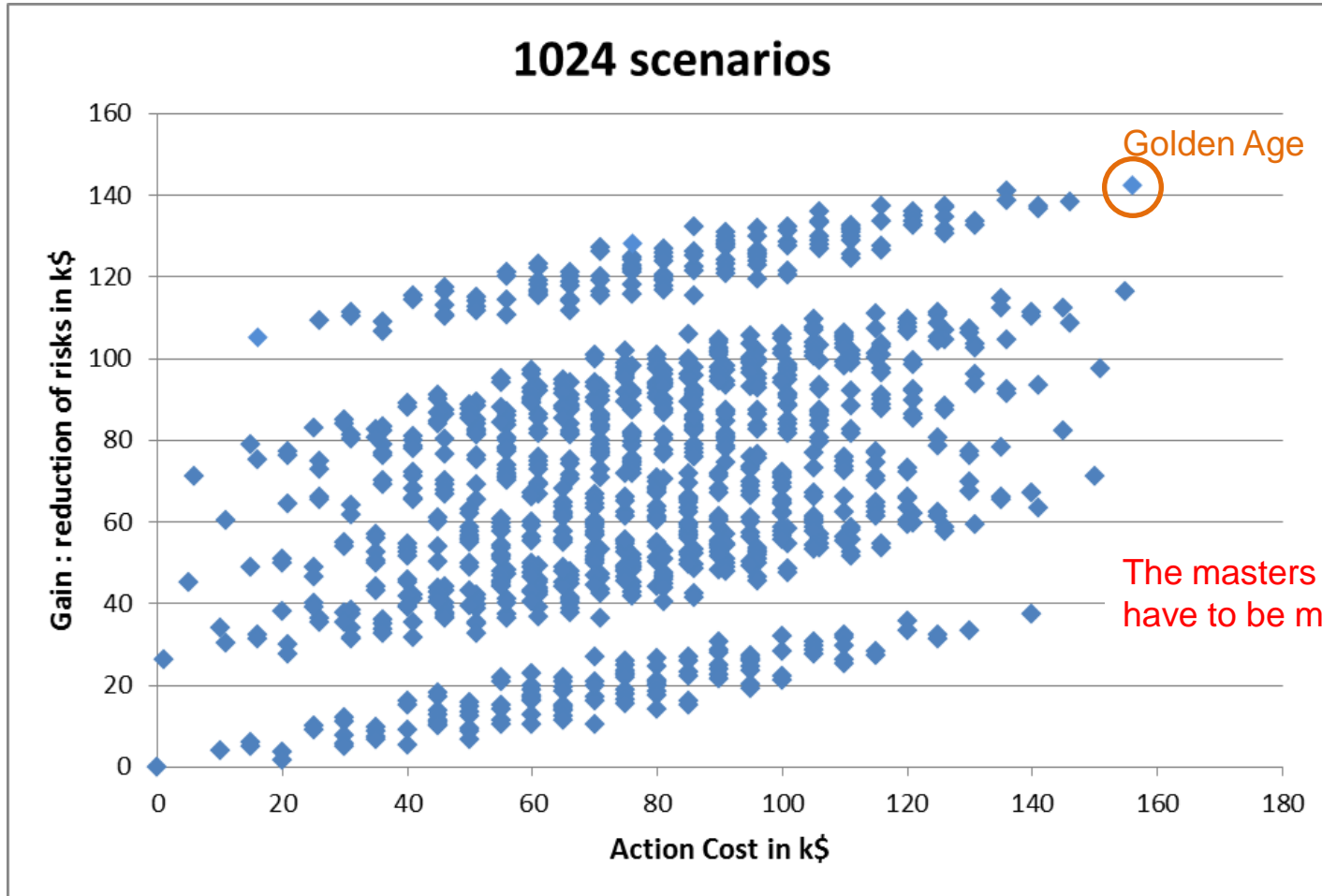
Team aligned on
stakeholder objectives



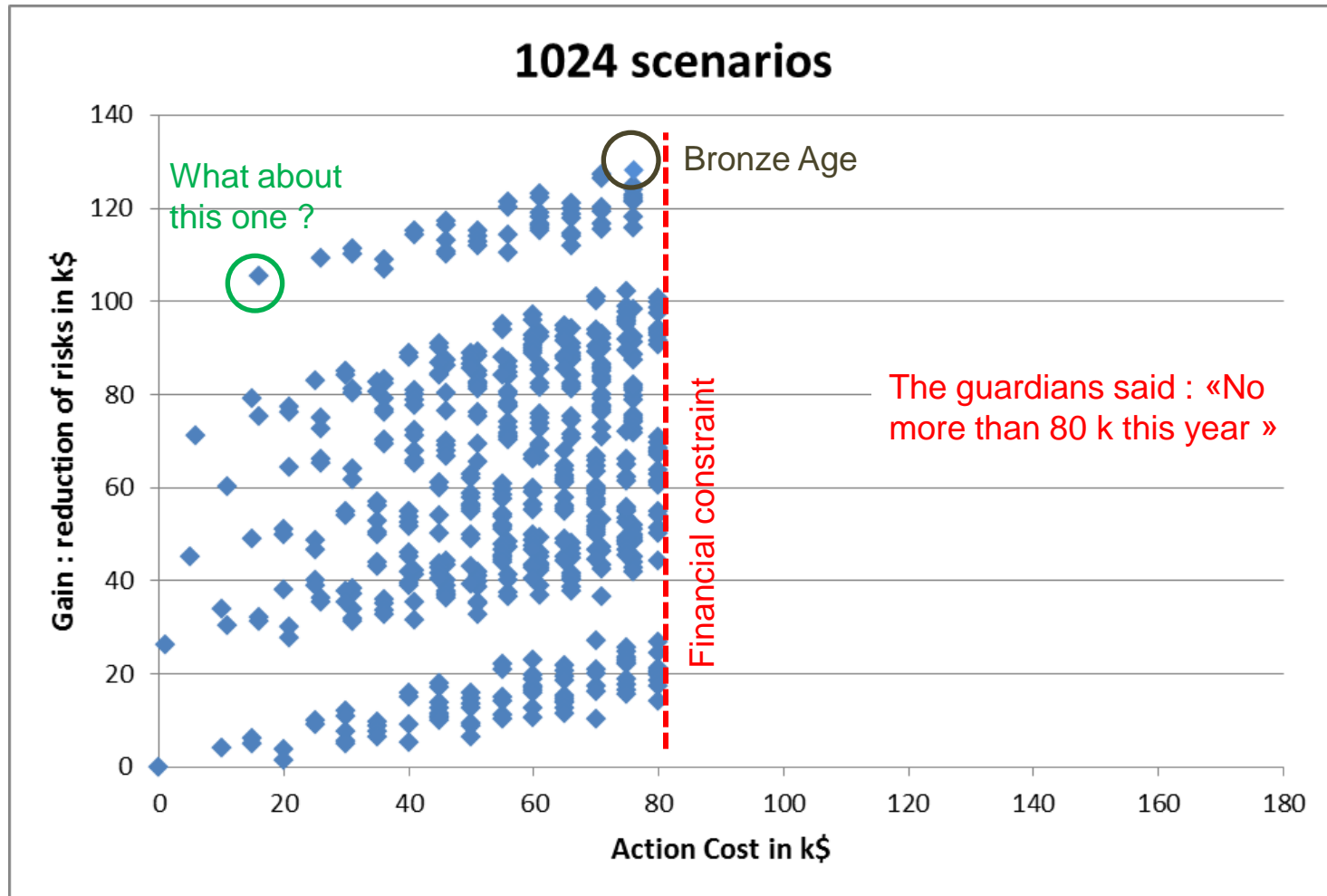
A « simple » example

Inputs						
Risks			Actions			
N°	Proba (before) [-]	Severity (before) [k\$]	N°	Cost [k\$]	Proba (after) [-]	Severity (after) [k\$]
R1	0.1	100	A1	30	0.05	100
R2	0.05	50	A2	20	0.05	20
R3	0.2	40	A3	10	0.1	40
R4	0.4	20	A4	15	0.15	20
R5	0.5	80	A5	10	0.3	20
R6	0.35	75	A6	1	0.35	0
R7	0.55	100	A7	5	0.1	100
R8	0.15	50	A8	15	0.15	10
R9	0.2	25	A9	20	0.05	25
R10	0.4	40	A10	30	0.1	40

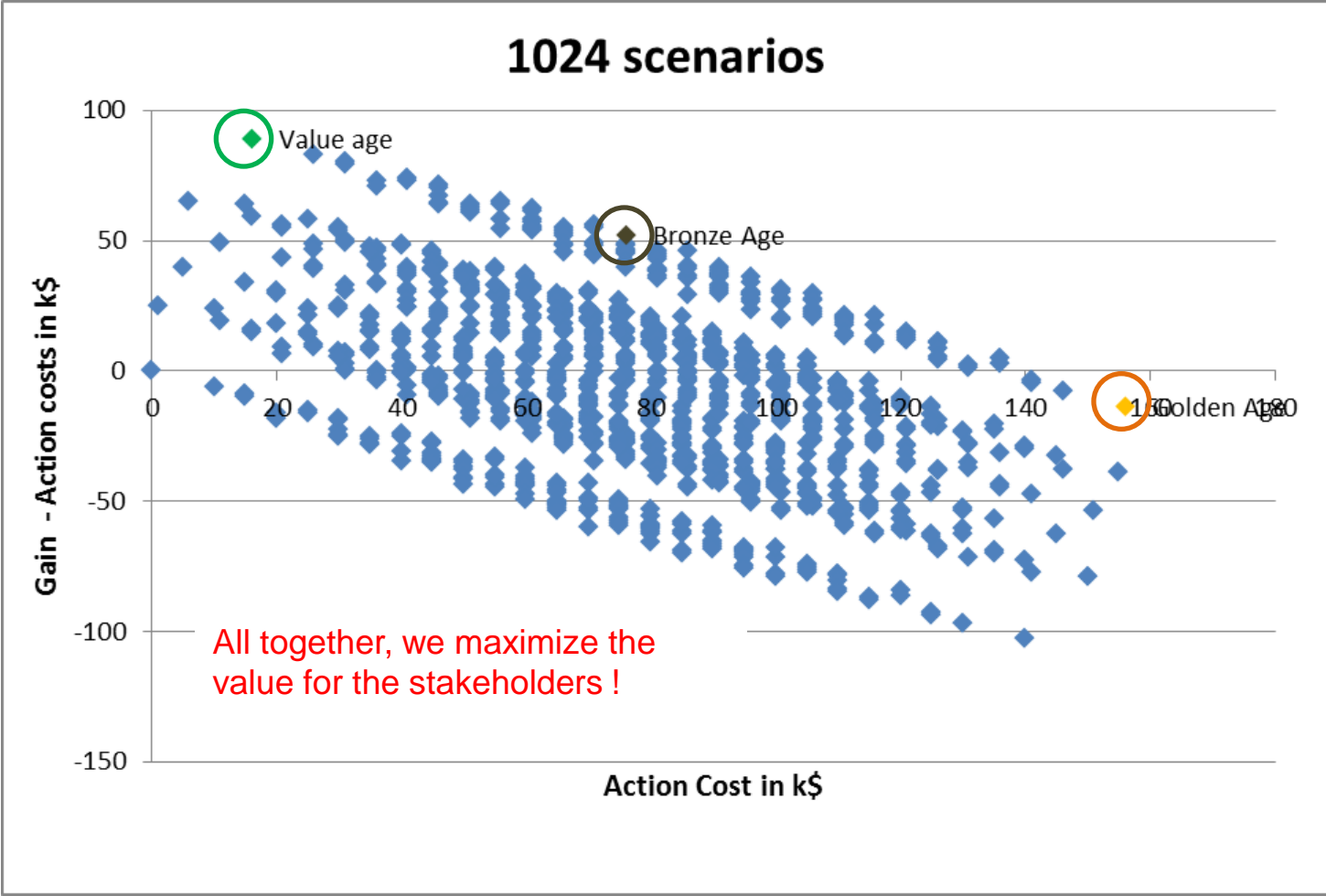
Where do you
invest your
money ?



You pay for all actions (Cost = 156 k\$)



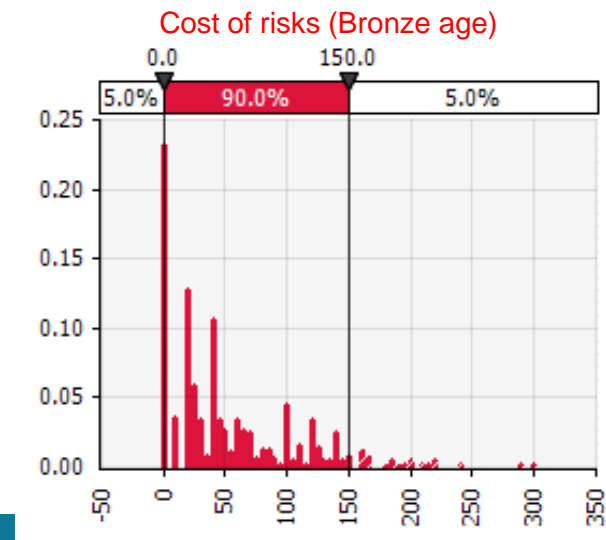
Invest on actions 4, 5, 6, 7, 8 and 10 (cost 76 k)



Invest on actions 5, 6, 7 (cost 16 k)

In the asset world ...

- Technical systems are usually characterized by more than 10 risks
- Risks evolve with time (ageing)
- There are dependancies between risks and actions
- Actions can affect more than 1 risk
- Mean value of risk is not enough to capture properly uncertainty

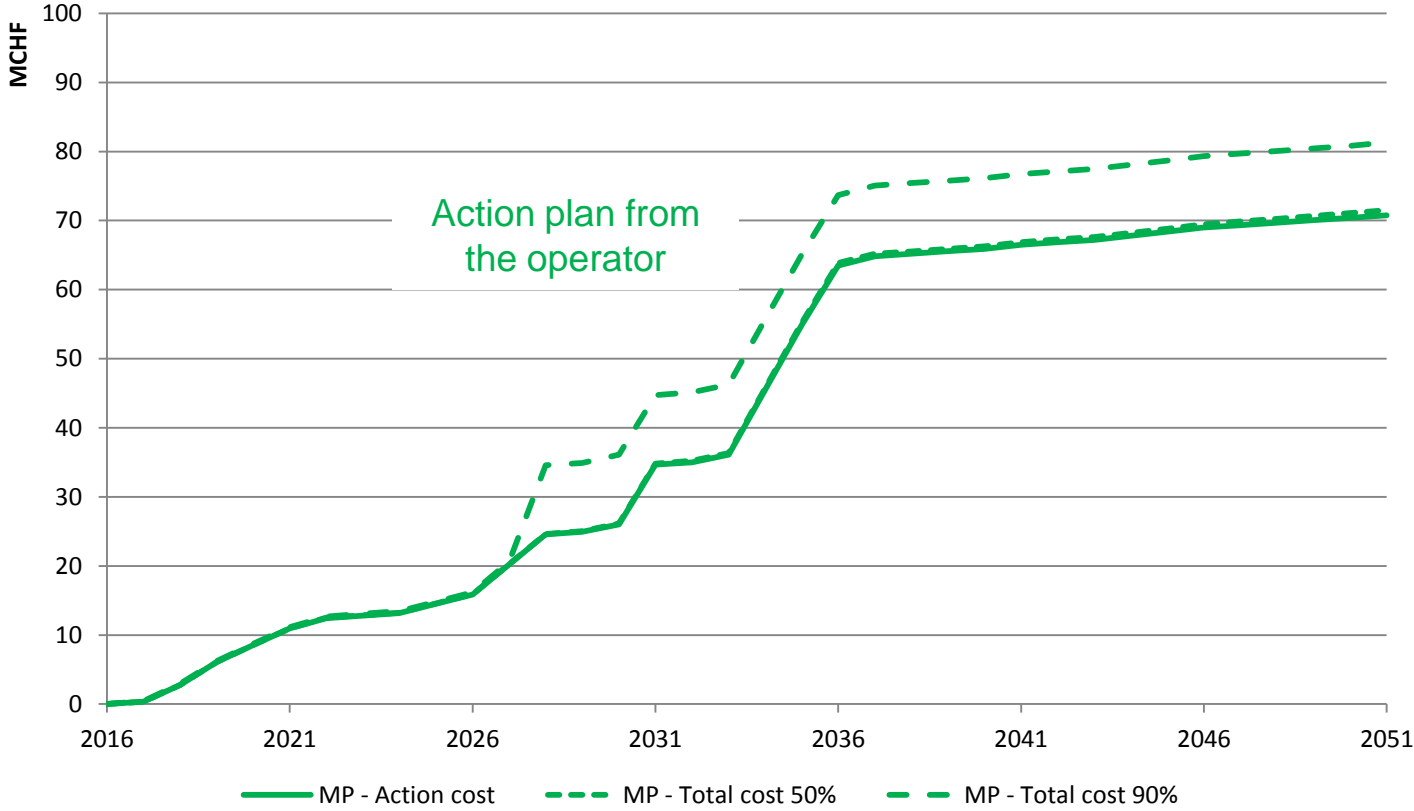


What is needed to unlock value ?

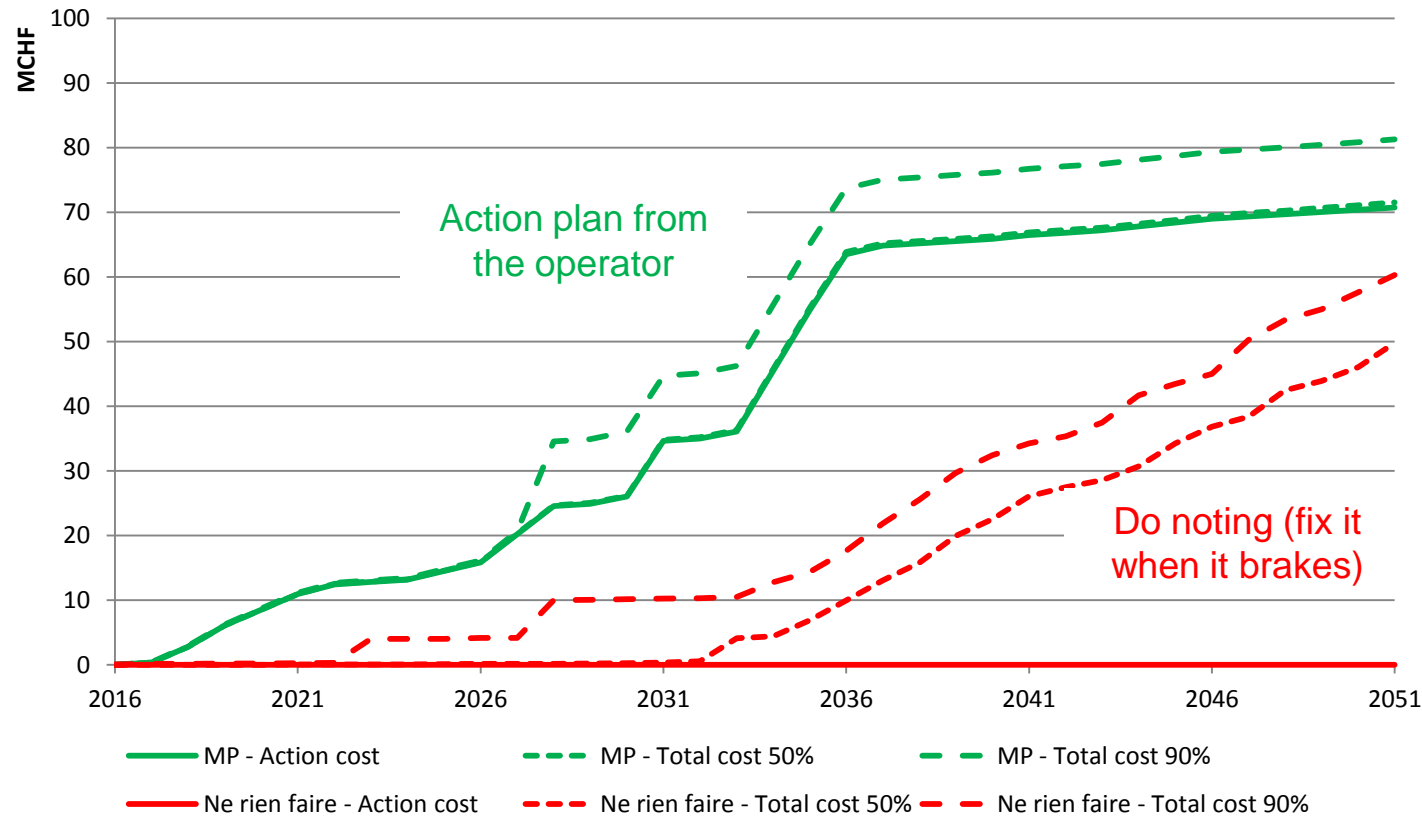
- To talk « Risk » : the team language to link technical knowledge with corporate goals
- To see into the future (risk + ageing)
- To generate scenarios « quickly »
- To quantify value and risks at the P&L level
- To engage decision-makers with analytics
- To bring the proof of value creation (PMS)



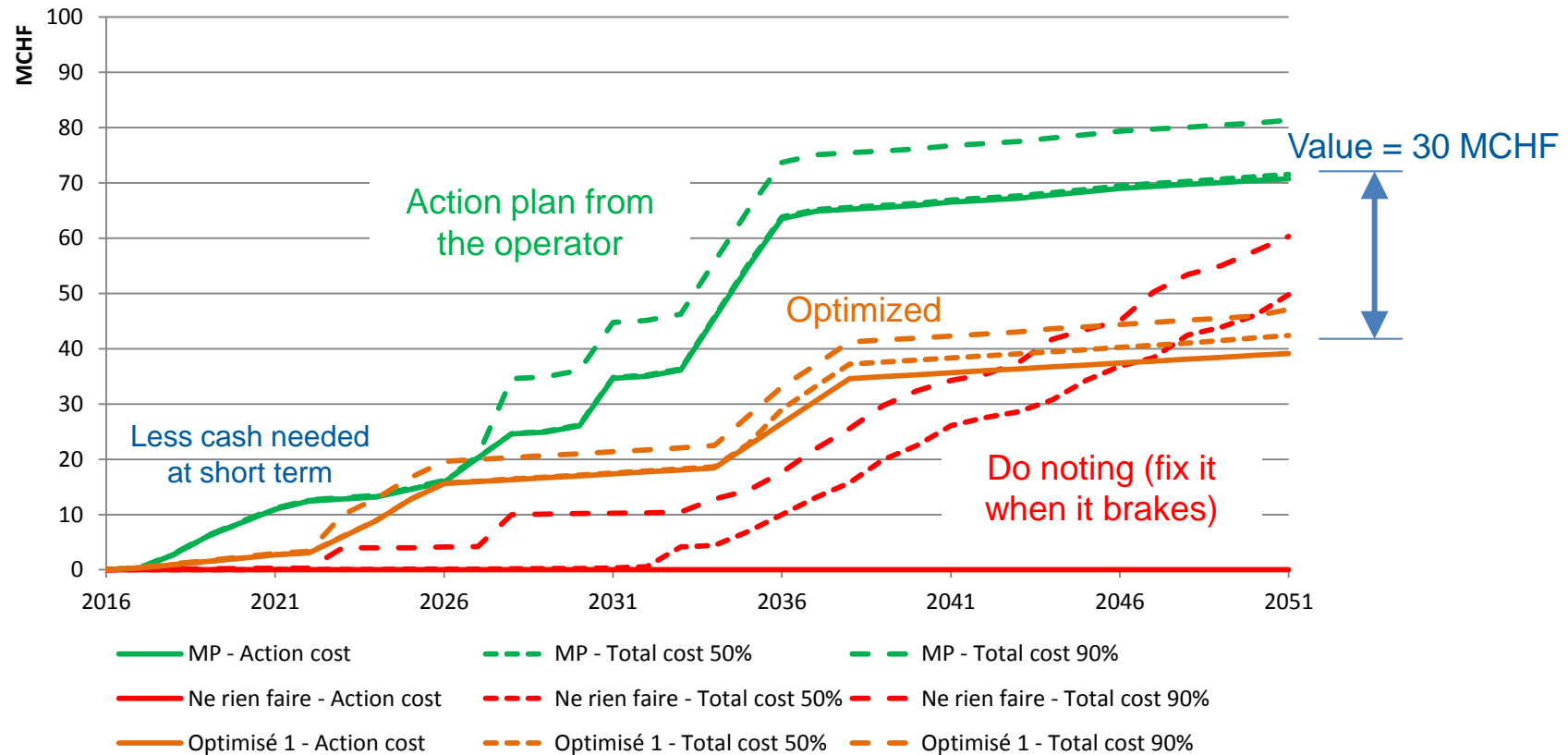
An hydropower example (NPV \approx 300 MCHF)



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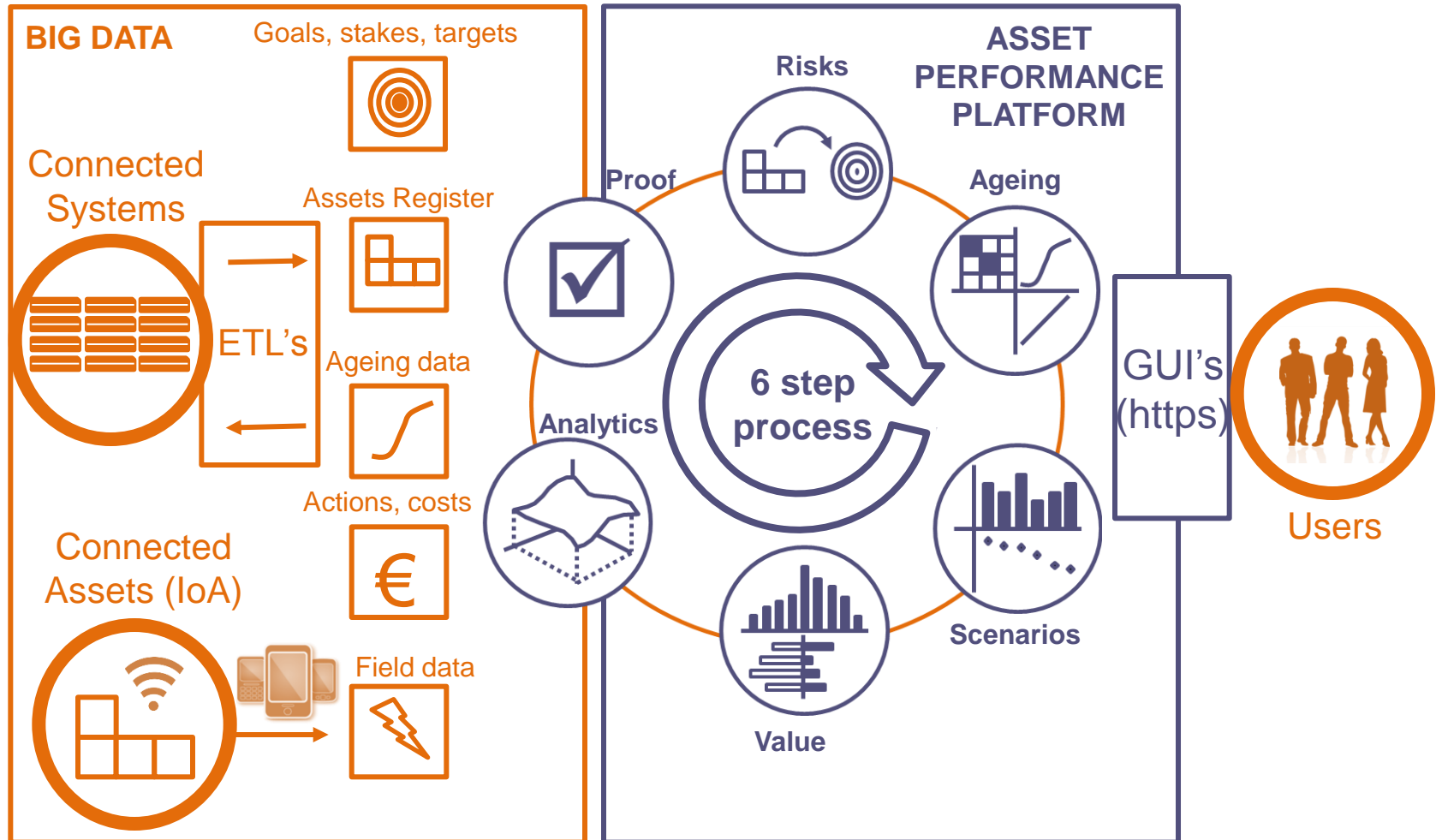




Why an IT platform is needed?

- You need to be connected to your asset data and information :
 - to talk a good « Risk » language
 - to simulate ageing
- You need advanced algorithms to deal with complexity :
 - to generate scenarios « quickly »,
 - to quantify value and risks at the P&L level
- You need powerfull decison support tool & process :
 - to engage decision-makers with analytics
 - to bring the proof of value creation

To be successful in the Value Age





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Thank you for your attention

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