

Chris Roberts  
IC Deputy  
Dean

# Project management



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11 years in private industries managing technical services and projects

4 years as independent consultant

17 years at EPFL:

- 10 years in charge of EPFL infrastructures  
strategy / teams of project managers, engineers / maintenance technicians
- 7 years as Deputy Dean of IC School

Engineer + EMBA

Experience in project management for private industry and public institutions

Range from simple equipment purchasing RFQ, to complex 10s millions project management

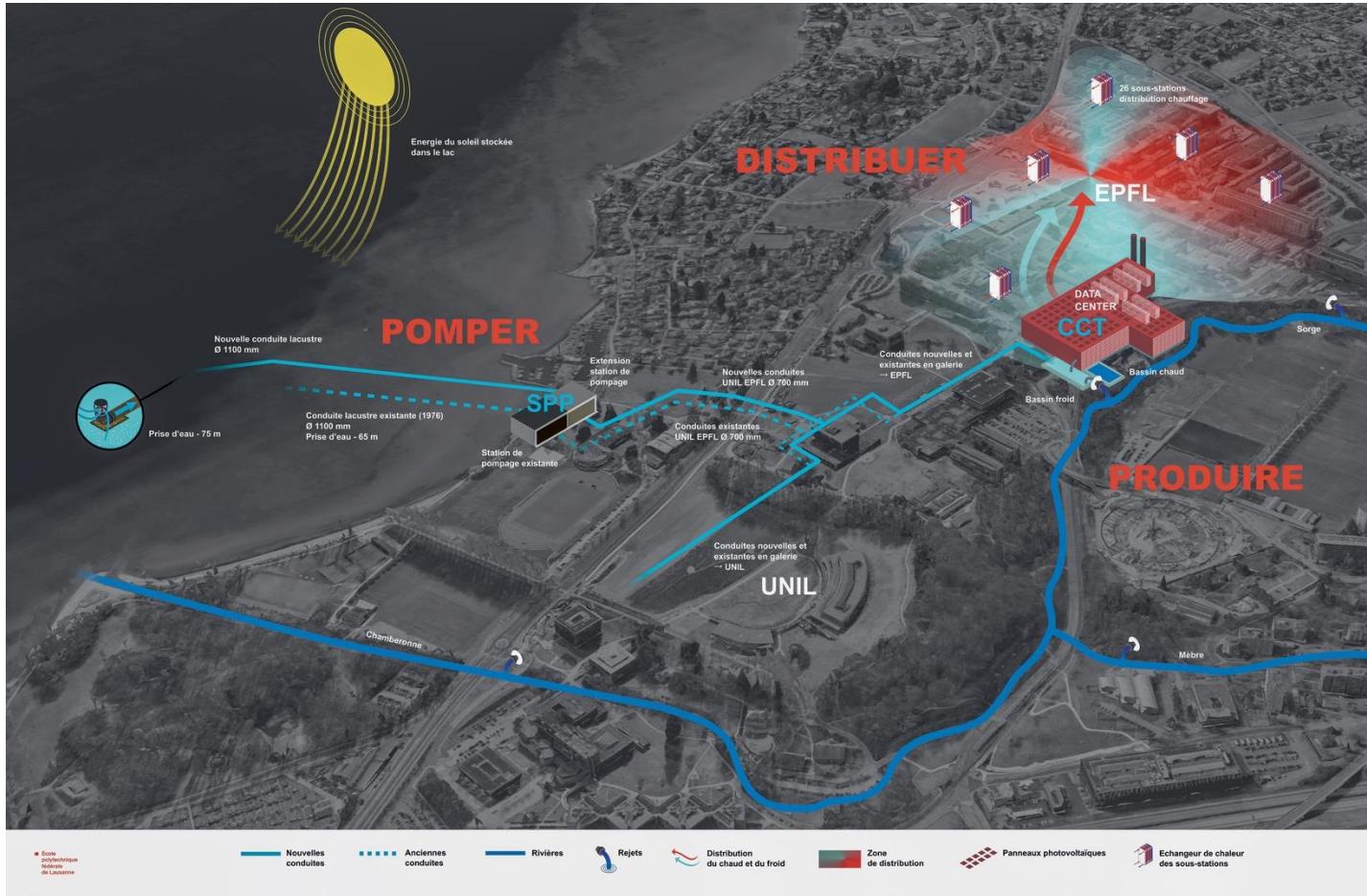
### Objective of my presence:

Present an example of project organization and process

Outline the importance of some fundamental concepts and key take aways

Discuss any questions and hope to give you the feedback I can from my experience

# Example: Data center infrastructures / heating / cooling



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## CONTEXT

Know your context

- Private - Public - Both
- National - International
- Legal that depends on above
- Hidden agendas
- RFI-P-Q procedure and organization
- Risks
- Potential foreseen changes and implications

Think broad and beyond the project itself

Be aware of the bullwhip effect

It applies to many other contexts than supply chain

<https://www.techtarget.com/searcherp/definition/bullwhip-effect>

## THE BULLWHIP EFFECT

SMALL CHANGES IN DEMAND... CAN PRODUCE... A WHIP-LIKE EFFECT UPSTREAM



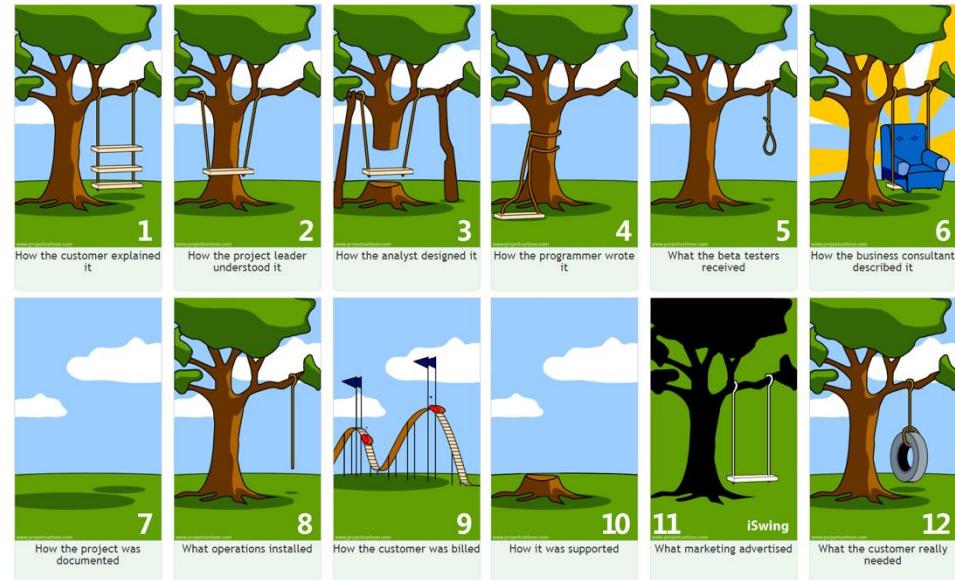
## CUSTOMER ORIENTATION

Know who the end customer is

- Make sure you have direct links to him and keep the customer as prevailing center of attention
- Coordinate with the other stakeholders

Know the real customer's needs

- Final usage
- Expected performance
- Prioritize needs with him
- After sales / Maintenance / Service Level Agreements / Performance contracting over x years
- Documentation / Language / documentation's users



## RESOURCES

Know what the resources are and who manages them

- Financial:
  - Investment capital
  - Operational budget and Total Cost of Ownership
- Human: decisional power, project capacity and operational capacity
- Organizational: how are the managerial VS project VS operational resources aligned ?

... And don't forget: things need to get done, not only designed, planned and coordinated

