## Master Project; Execution Phase

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### **Abstract**

A master project in systems engineering using action research or indystry as laboratory requires that the student is both researcher and engineer. In this presentation we give guidleines for the execution phase of the project to ensure that the master project student plays both roles. These roles require quite different behavior. Especially the role of researcher is new for most students.

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## Know your Academic Supervisor

Discuss way of working and expectations with your academic supervisor.

The following slides are valid for supervision by Gerrit.

Other academic supervisors may have other doctrines.



# Recommendations for Project Execution

maintain a project log

data, findings documents references

keep supervisors involved

regular presentations regular meetings

time box and iterate

system and context reflection and consolidation

early feedback on paper

start writing early elicit feedback early work incremental



# You have Multiple Roles!

	systems engineer	researcher
normal work	elicit needs, specify, design, analyze, integrate, test	observe, experiment, argue, evaluate, write
attitude	explain, educate, sell	question everything, proof opposite

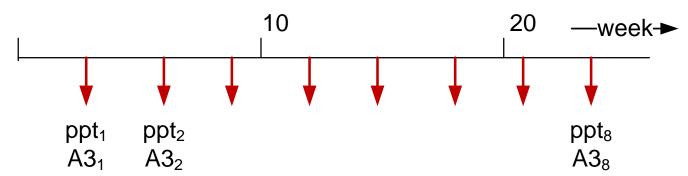


## Maintain a Detailed Research Logbook

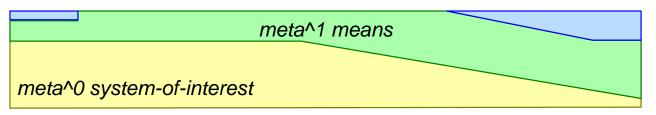
Word or PowerPoint file take notes continuously! date/time what how why when where who references, e.g. URLs; make electronic copy of any relevant material all "raw" data, e.g. submitted questionnaires all intermediate data, e.g. spread sheets with version numbers and dates

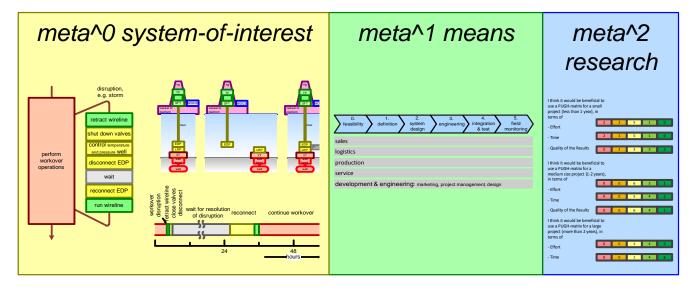


## Discuss Regularly With Company Supervisor



focus first on content, then means and then research approach

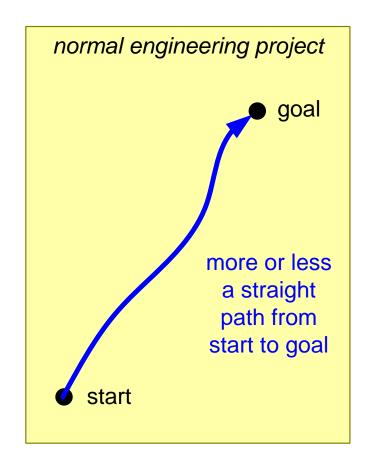


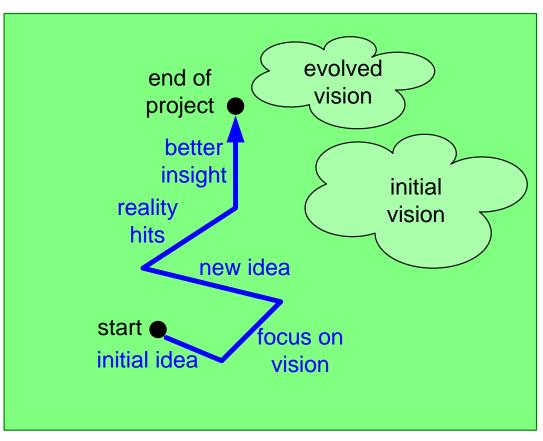




## The Nature of Research Projects

## Research is an adventurous journey, be perceptive and see where it goes





Some students in the past called it a rollercoaster....

