

Master Project; Execution Phase

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Abstract

A master project in systems engineering using action research or industry as laboratory requires that the student is both researcher and engineer. In this presentation we give guidelines 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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Research is an adventurous journey, be perceptive and see where it goes



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

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	case system and context reflection and consolidation
early feedback on paper	start writing early elicit feedback early work incremental

You have Multiple Roles!

	<i>systems engineer</i>	<i>researcher</i>
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

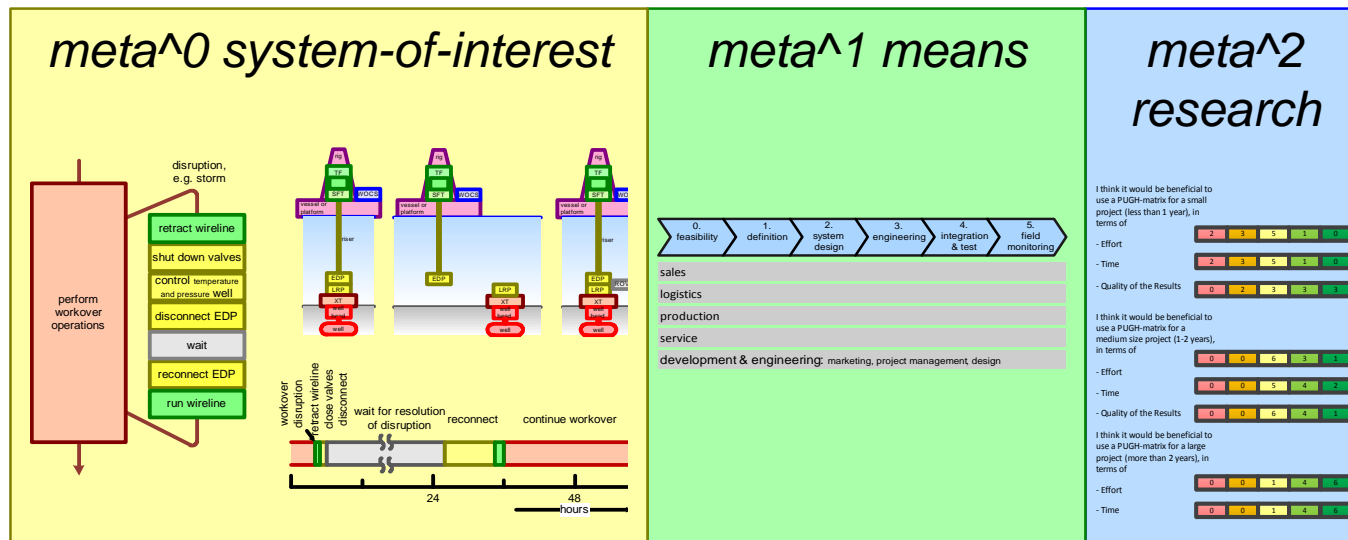
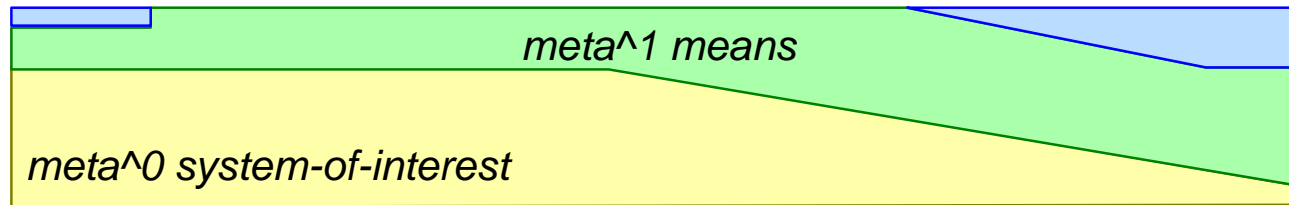
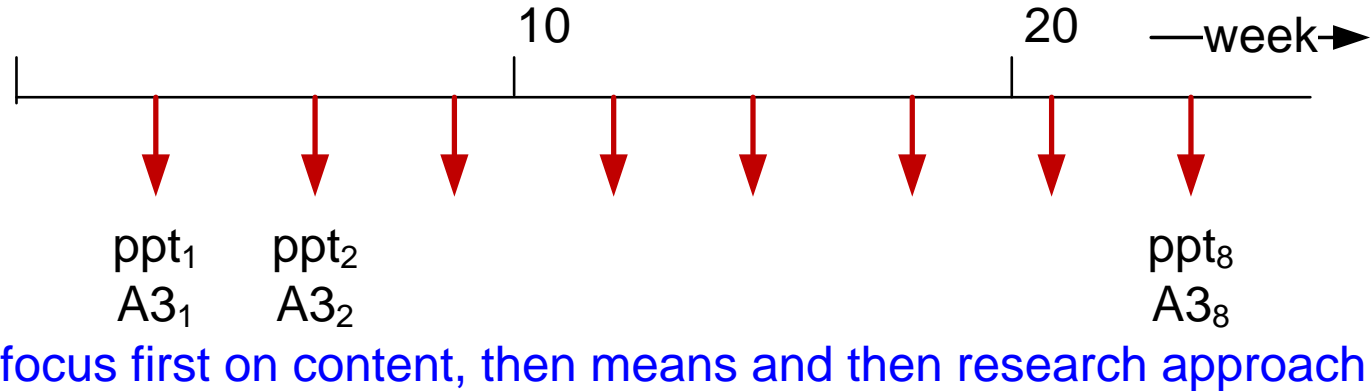
who

references, e.g. URLs; make electronic copy of any relevant material

all "raw" data, e.g. submitted questionnaires

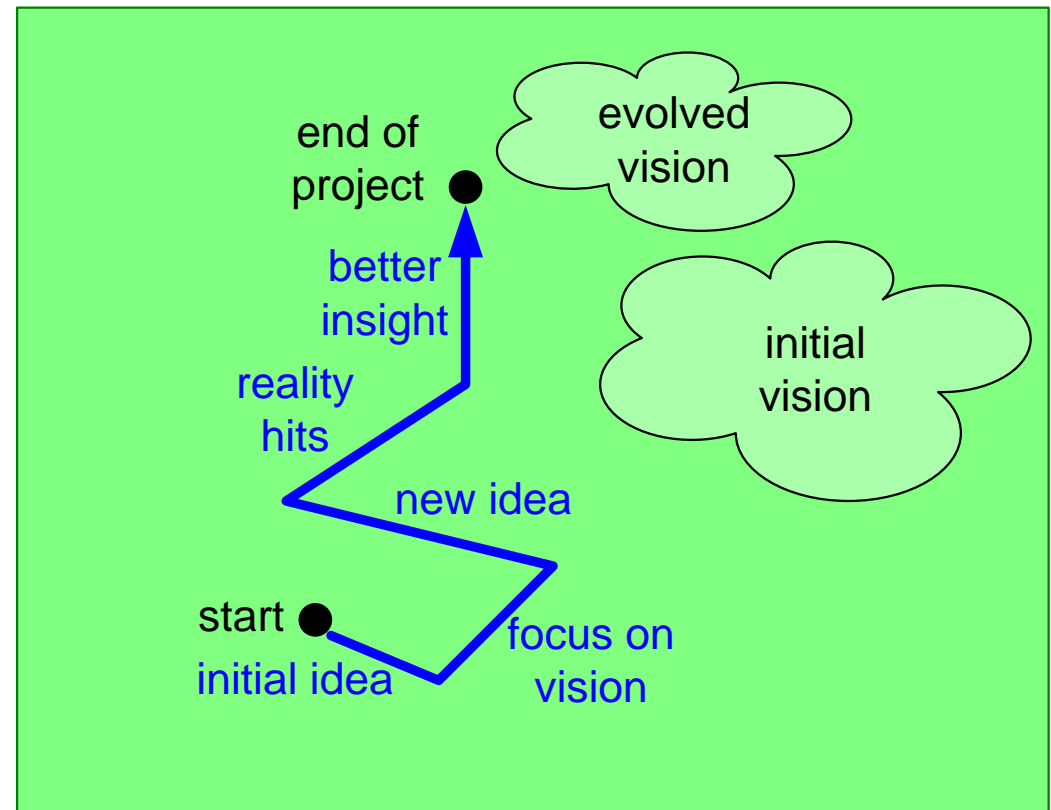
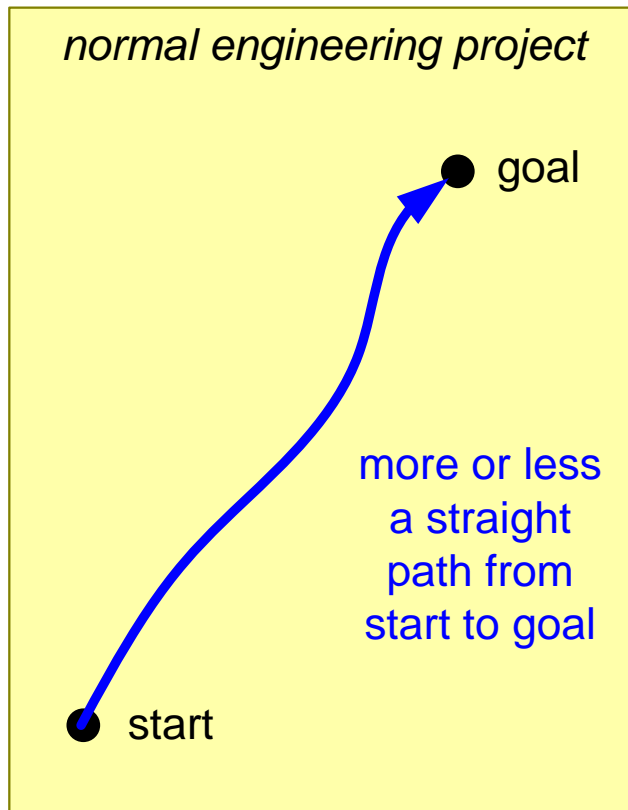
all intermediate data, e.g. spread sheets with version numbers and dates

Discuss Regularly With Company Supervisor



The Nature of Research Projects

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



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