PMI Oslo From Risk To Uncertainty Management

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Agenda

- Part 1 : Big Picture
- Part 2 : Project uncertainty
- (break)
- Part 3 : Next-Gen Agile techniques
 - Power Kanban
 - Agile Rolling Wave Planning

Defining project success



'Project success is a subjective construct; it depends on who asks, who is being asked, when you ask, and how you ask the question.'

Ika, 2009, Project Success as a Topic in Project Management Journals



Experiment

Project Assignment



Team 1: PMP



Team 2: Prince 2



Team 3: SCRUM





DNOC

Healthy:	
Day 1	41%
Day 2	68%
Day 3	71%
Day 4	100%

PLACEBO

Healthy:	
Day 1	36%
Day 2	69%
Day 3	70%
Day 4	100%



Questionaire 1

- 1. The project was delivered per the specifications
- 2. The project achieved the business case objectives
- 3. The project manager always acted responsible
- 4. The chosen project method fits the assignment
- The deliverables were verified
- 6. The project team worked effectively
- 7. The project contributed to the vision
- 8. The project team was resilient
 - 1) Strongly disagree 2) Disagree 3) Neutral 4) Agree 5) Strongly Agree



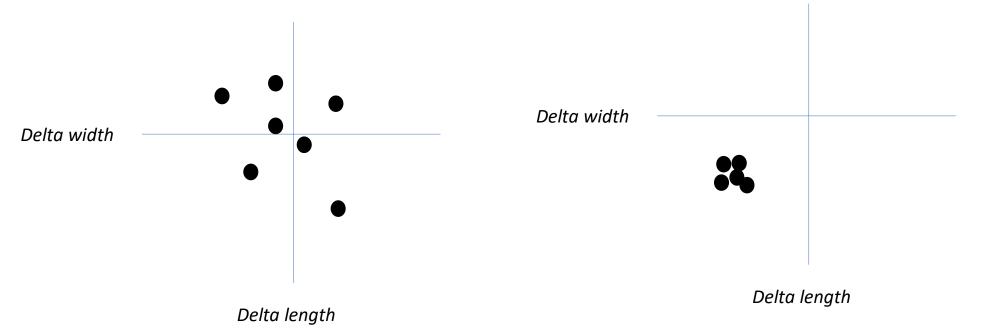
Questionaire 2

- 1. The project was delivered per the requirements
- 2. The project achieved the business case goals
- 3. The project manager always acted accountable
- 4. The chosen project method fits the assignment
- 5. The deliverables were verified
- 6. The project team worked effectively
- 7. The project contributed to the vision
- 8. The project team was robust
 - 1) Strongly disagree 2) Disagree 3) Neutral 4) Agree 5) Strongly Agree

One Breath Challenge



- Speed vs acceleration
- Precision vs accuracy





Questionaire

- requirements vs specifications
- goals vs objectives
- accountable vs responsible
- method vs methodology
- verification vs validation
- effectiveness vs efficiency
- vision vs mission
- robust vs resilient

Note that they are NOT the same. So what question did you actually answer?



Summary Part 1: Big Picture Uncertainty

- No generic definition of project success exists
- The concept of methodology is absent
- Proving causation between project success and a method is challenging as projects cannot be repeated, control groups are not possible
- The illusion of communication makes questionnaires questionable.

Part 2 Uncertainty



The definition of uncertainty is uncertain



Unaware	Unknown-Known	Unknown-Unknown	
Aware	Known-Known	Known-Unknown	

<u>Available</u> <u>Unavailable</u>



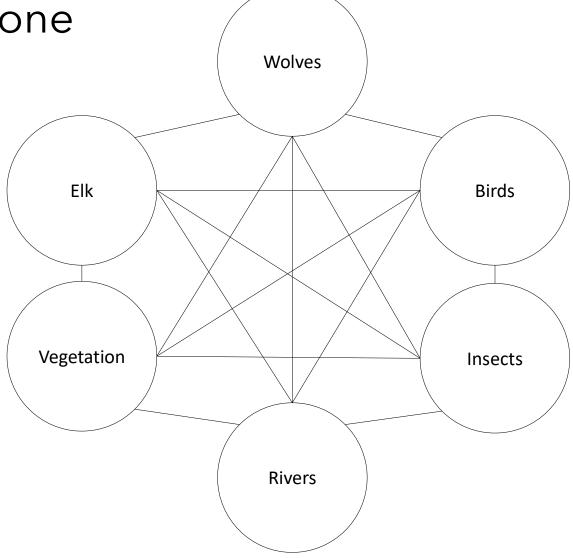
Unknown-Known	Unknown-Unknown
Known-Known	Known-Unknown

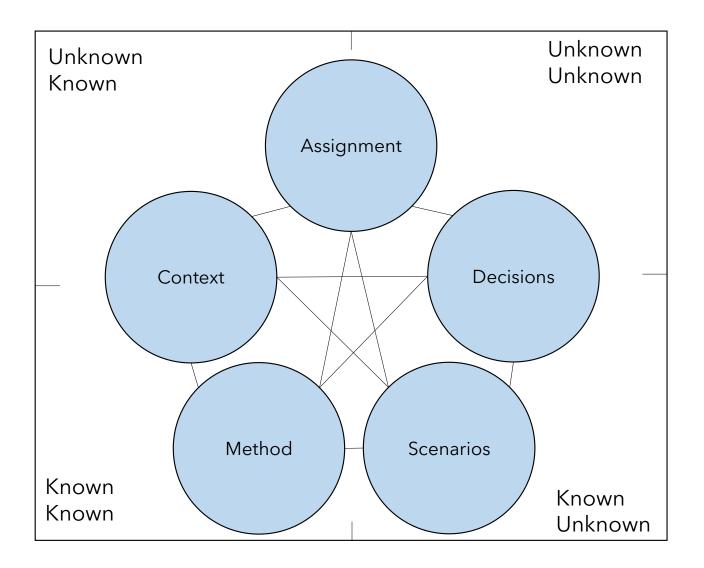


Systems Thinking

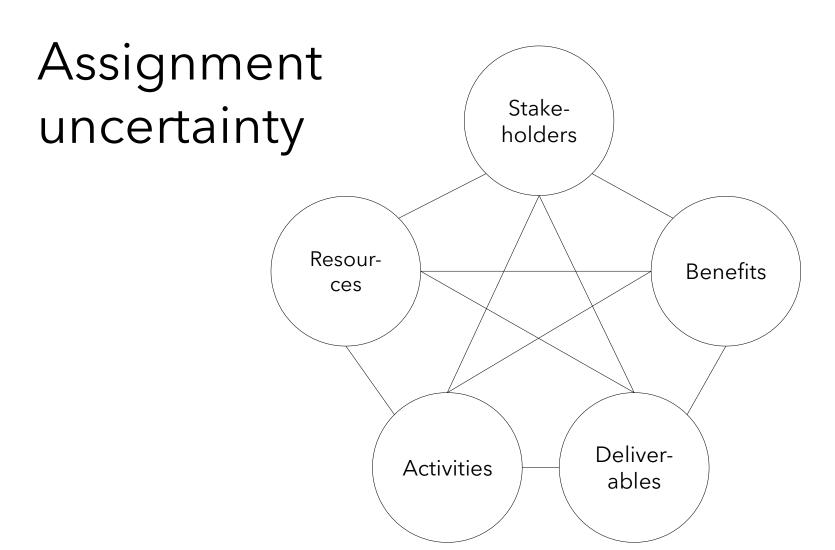
Yellow Stone Park













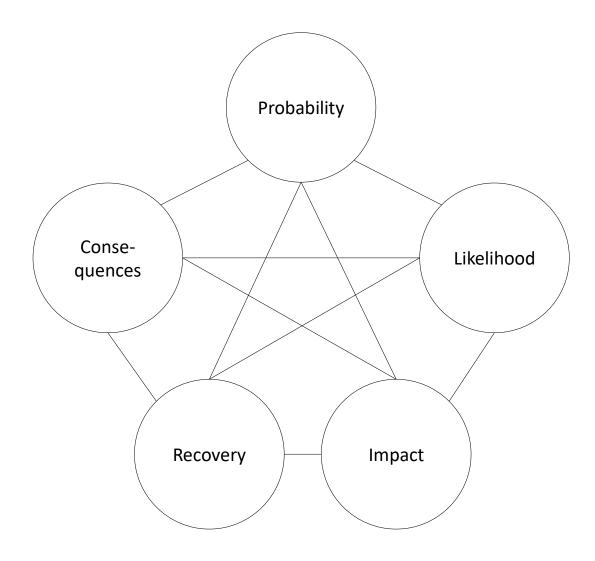


Inherent uncertainty

Direct uncertainty

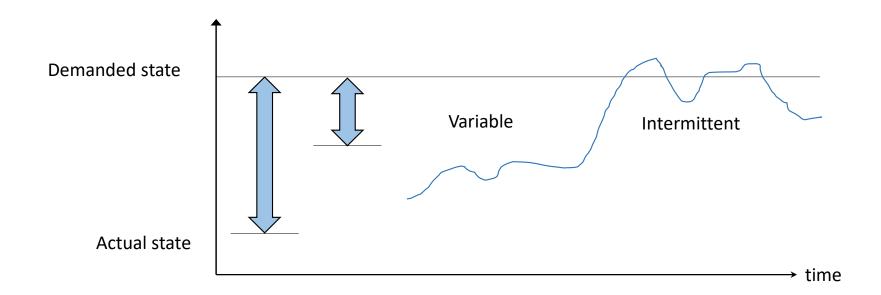


Risk



Problem



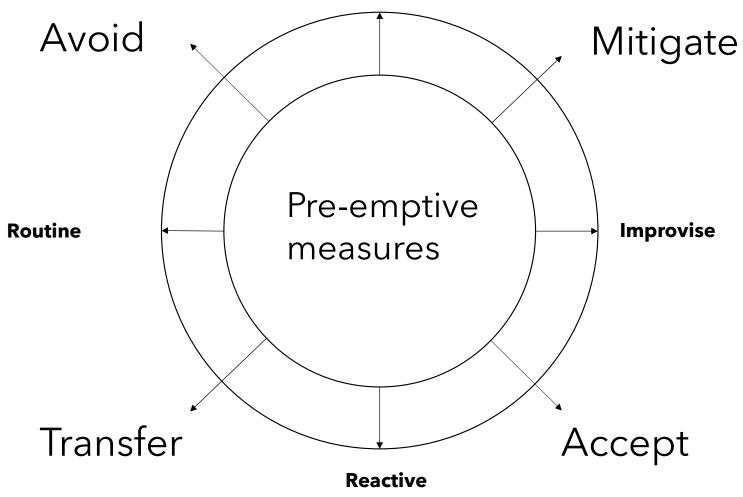




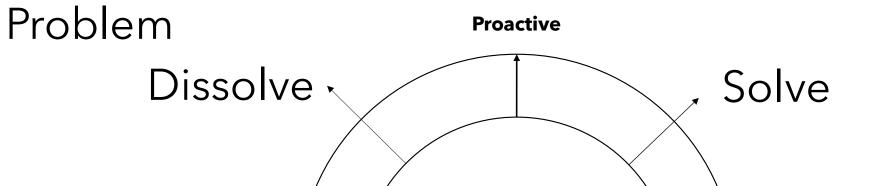


Risk Avoid

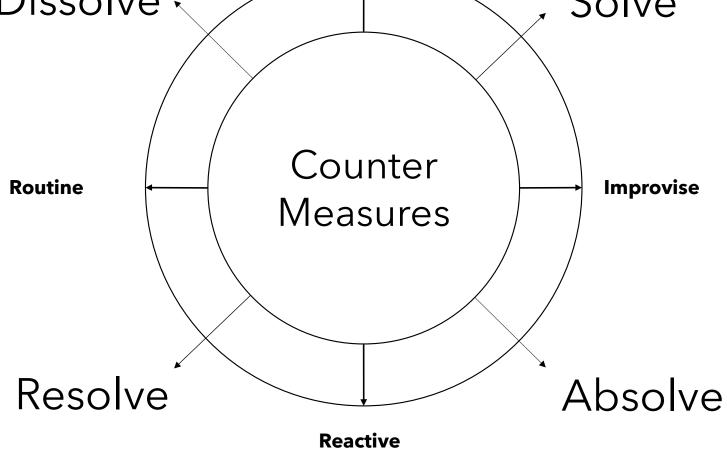




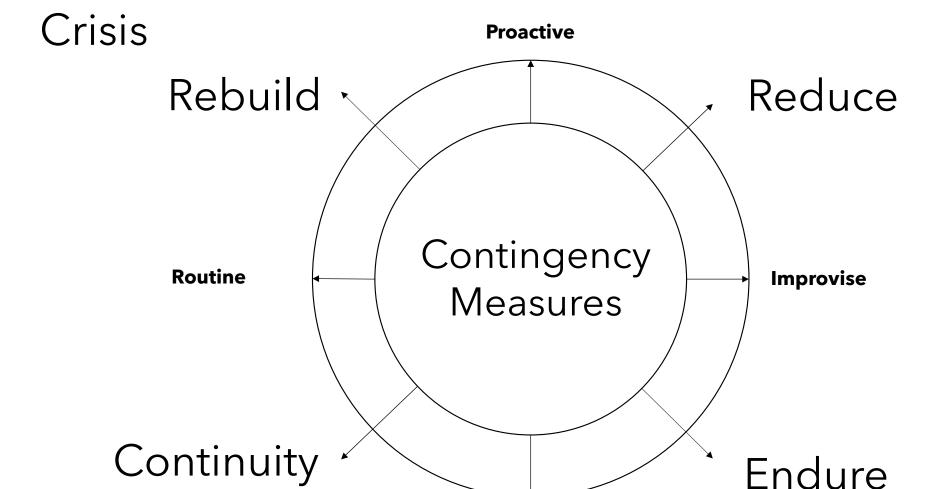
Proactive











Reactive





Posture

	Risk	Problem	Crisis	
Conceptual	Pre-emptive Measures	Counter Measures	Contingency Measures	Aftermath
	AcceptAvoidMitigateTransfer	AbsolveResolveSolveDissolve	EndureReduceContinuityRebuild	

Summary Part 2: Project uncertainty

- Uncertainty matrix as a conceptual model
- Project as a system
- Projecting matrix over the system
- Direct and inherent uncertainty
- Event-driven uncertainty continuum
- Pre-emptive, counter-, and contingency measures

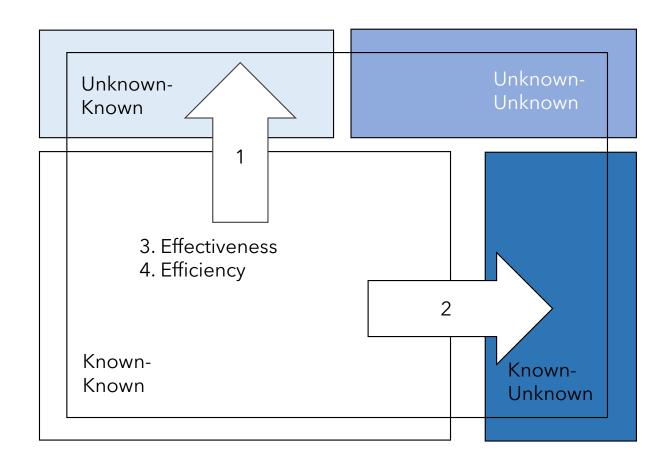


Part 3 Next Generation Agile

SCRUM defined 1993 by Jeff Sutherland SCRUM Presented 1995 in Austin TX

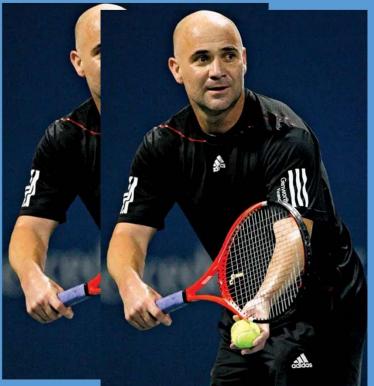
https://www.thescrummaster.co.uk/scrum/short-history-scrum/







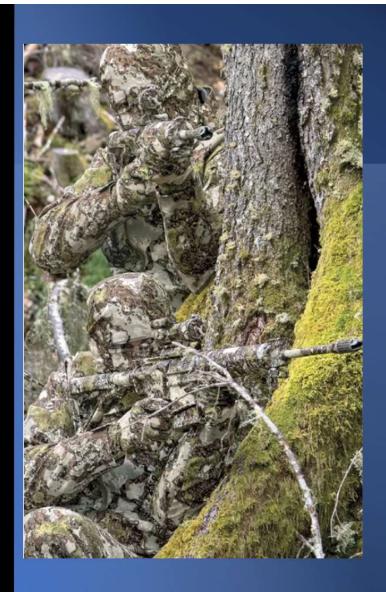






https://www.youtube.com/watch?v=UfA3ivLK_tE

Project Meta Data Technique



TICKET TYPES

- Constraints
- Dependencies
- Risk
- Problems
- Prerequisites
- Decisions
- Working assumptions
- Stakeholders
- Drivers
- etc



(DCS)

- Description
- Urgent, important
- Global, local
- Stakeholders
- Owner
- Latest date
- Alternatives
- Logic
- Confirmation





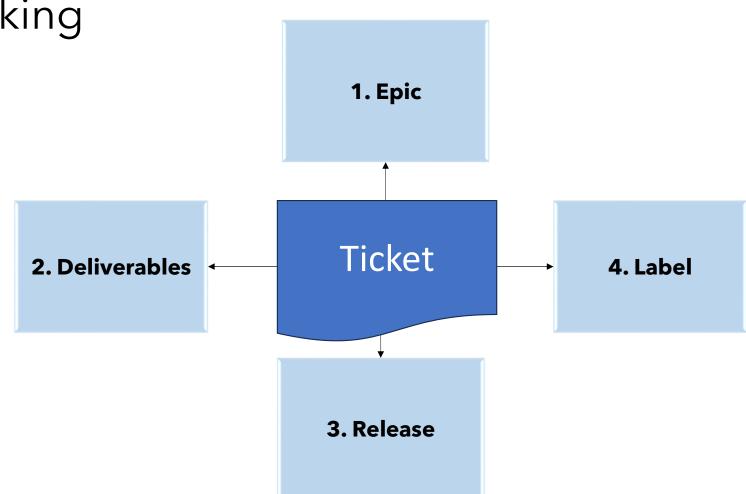
Working Assumption

(WAS)

- Description
- Owner
- Earliest confirmation time
- Method
- Confirmation

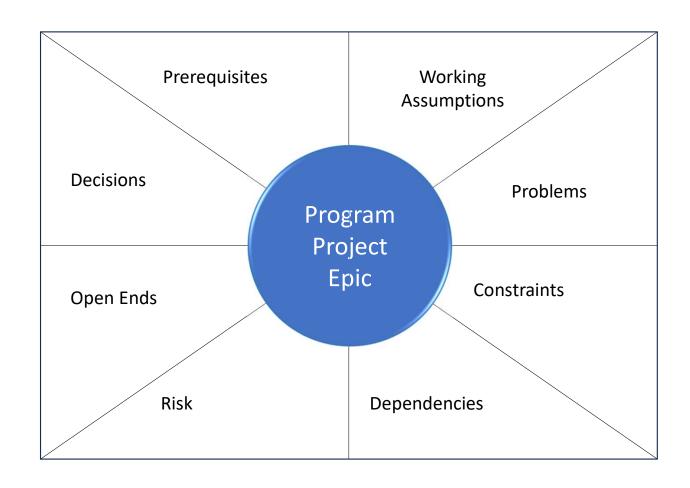






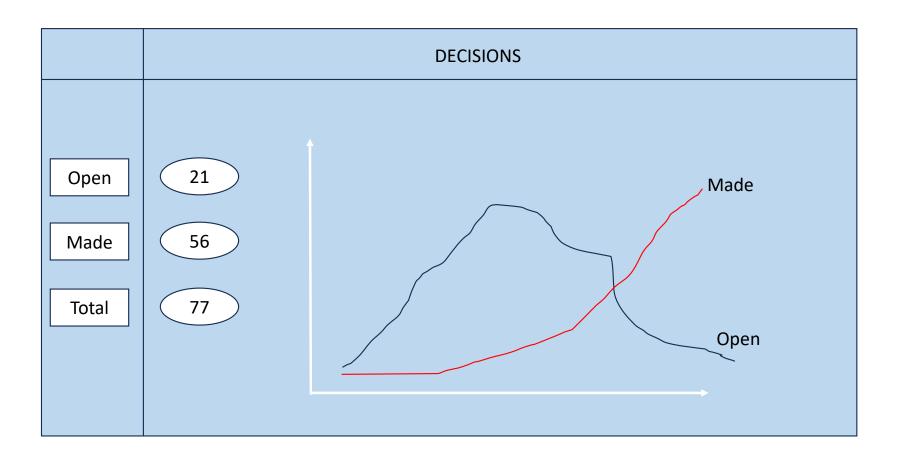
Slicing and dicing: Filtering



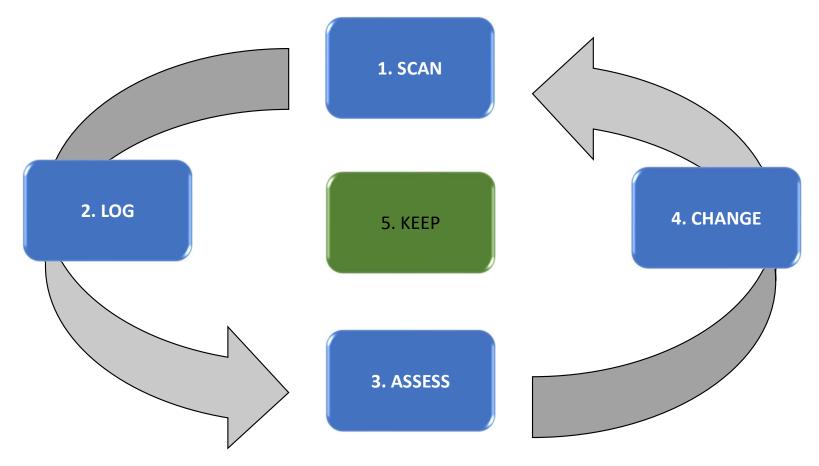


Metrics & reporting









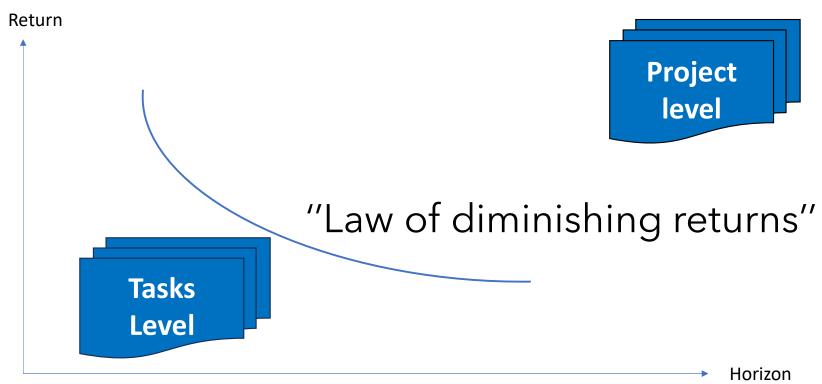


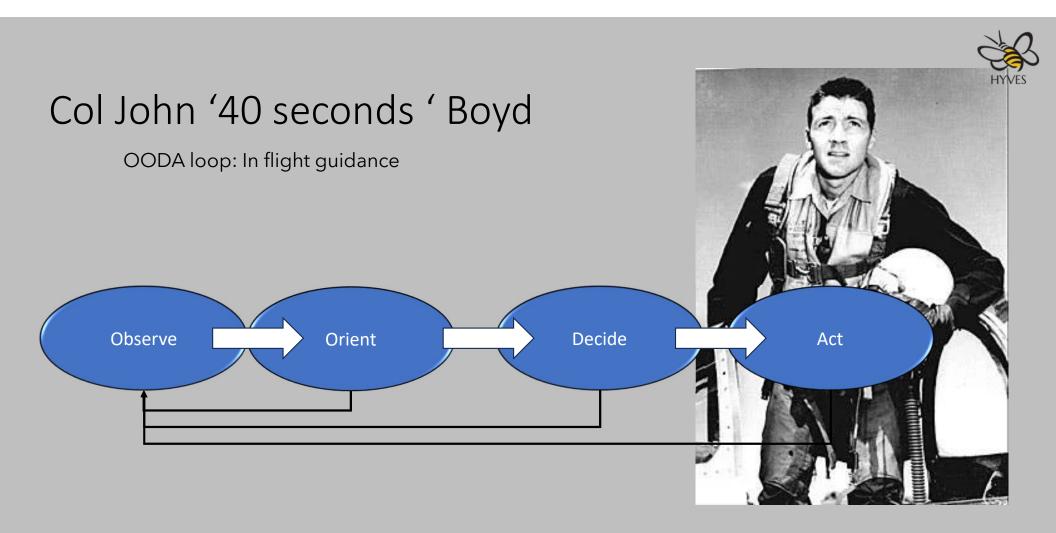
Power-Kanban summary

- Combination of Project Meta Data technique and Kanban
- Improve information awareness
- Disseminate information
- Common picture
- Single source of information
- Different views reduces the need for logs

Planning conundrum

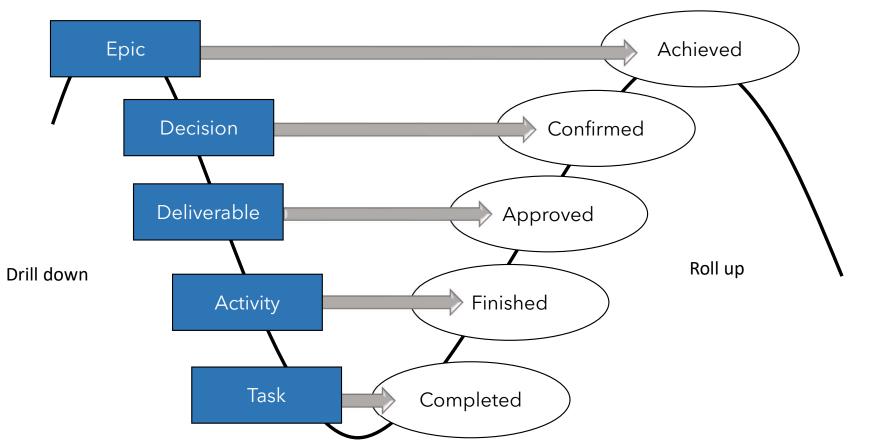






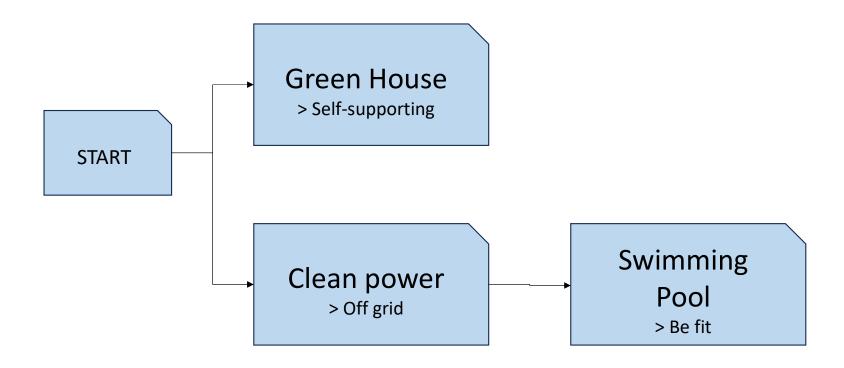
Planning levels





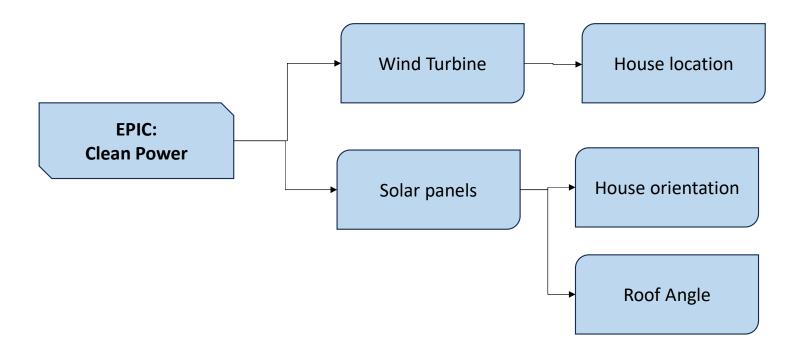
Epic network: Building a Dream House



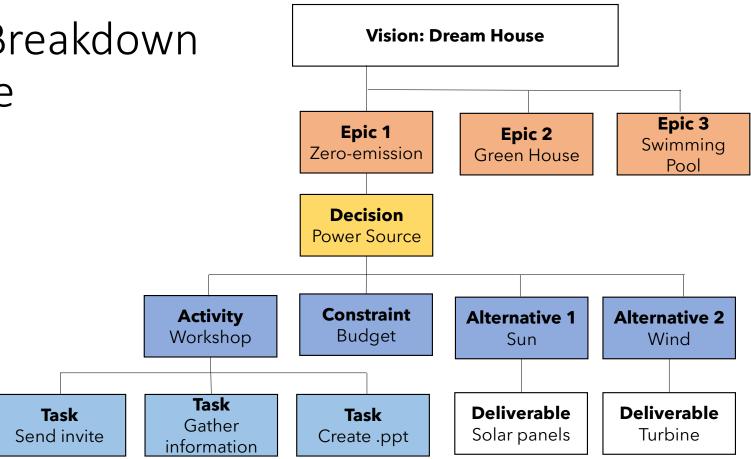


Decision network



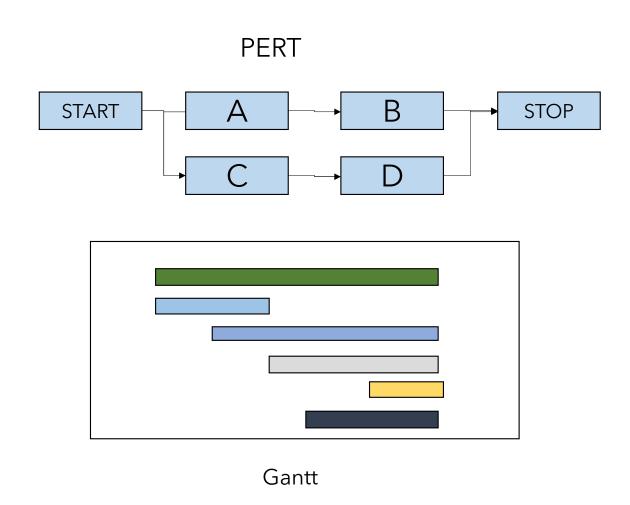


Project Breakdown Structure



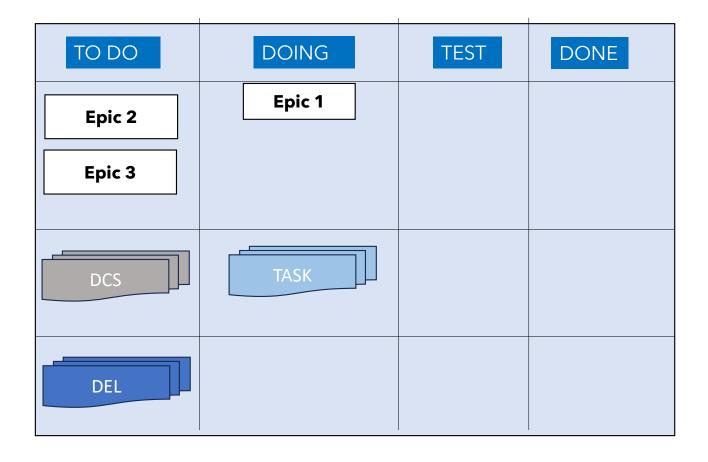
Activity level





Task level: Power Kanban





SUMMARY AGILE ROLLING WAVE



- Multi-level, multi-horizon, multi technique
- Adaptive and proactive (OODA-loop)
- Information foundation from Power Kanban
- Generalization towards non-software projects.

Summary: Towards uncertainty management

- Part 1 : Big Picture Uncertainty
 - Project Success
 - Project Methodology
 - Illusion of communication
- Part 2 : Project Uncertainty
 - Uncertainty matrix
 - Project as a system
 - Continuum risk-problem-crisis
- Part 3 : Next Gen Agile
 - Power Kanban
 - Agile Rolling Wave

