

Project Management Symposium

Power Kanban

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PROJECT MANAGEMENT
CENTER FOR EXCELLENCE

A.J. CLARK SCHOOL OF ENGINEERING
Civil & Environmental Engineering Department





Power Kanban

Mastering Project Uncertainty
- Through Improved Information Awareness.



Cantabria Train Project





New Norwegian SAR Helicopter





“ General Hindsight, is *always* right”

- everything is easy after the fact!



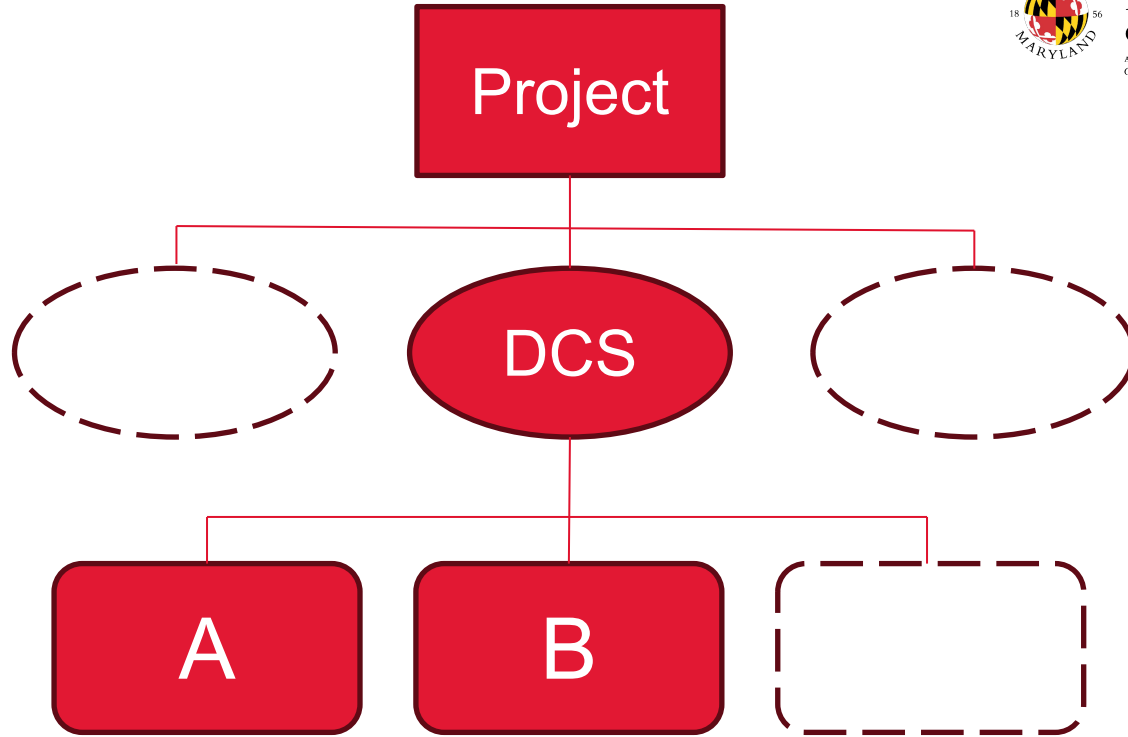
Inattention blindness

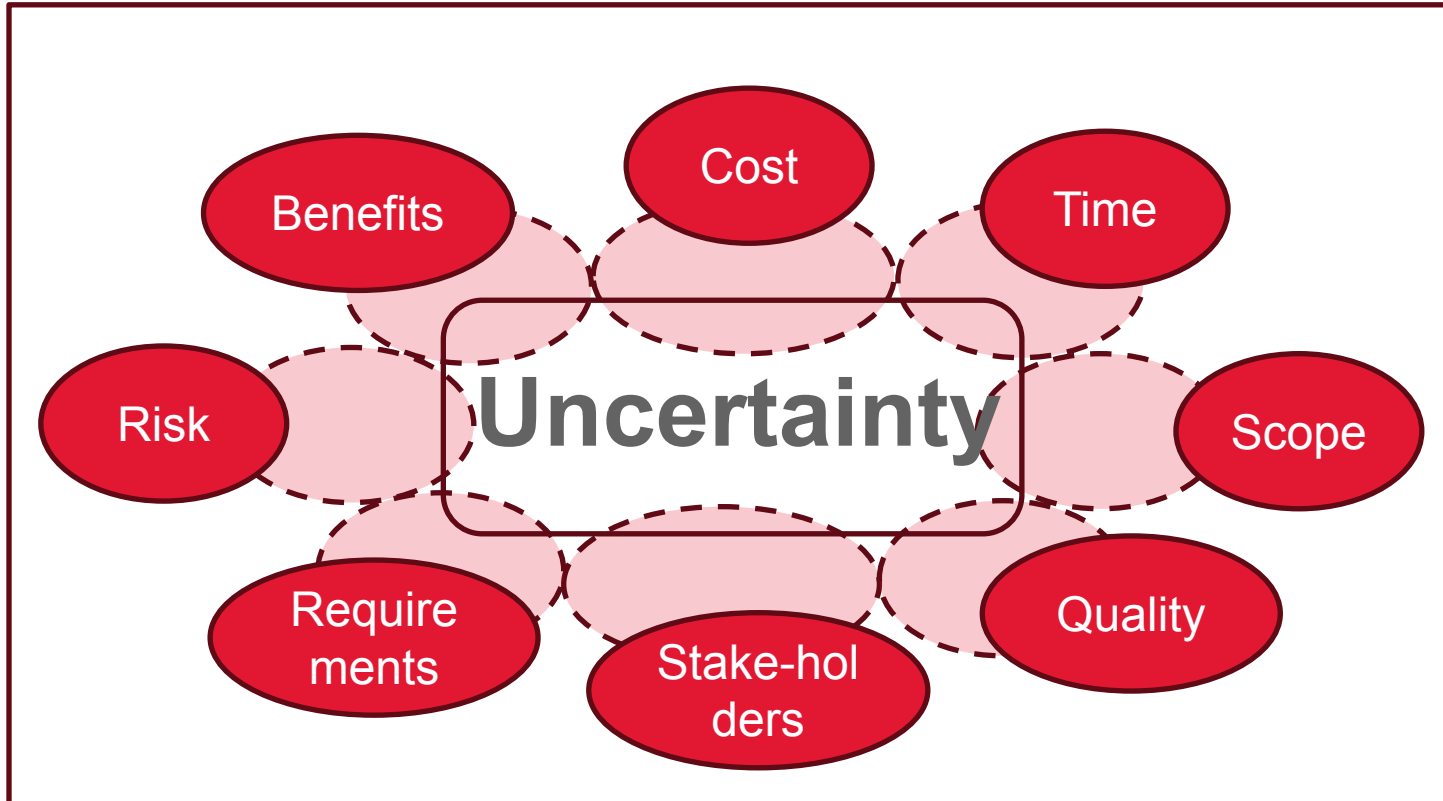


Simons, Daniel J.; Chabris, Christopher F. (1999). "Gorillas in our midst: sustained inattention blindness for dynamic events" (PDF). Perception. 28 (9): 1059–1074. CiteSeerX 10.1.1.65.8130. doi:10.1068/p2952. PMID 10694957.



RSK
PRB
CON
DEP
PRQ
WAS







Unaware

Unknown-known

Unknown-unknown

**God
Mode**

Aware

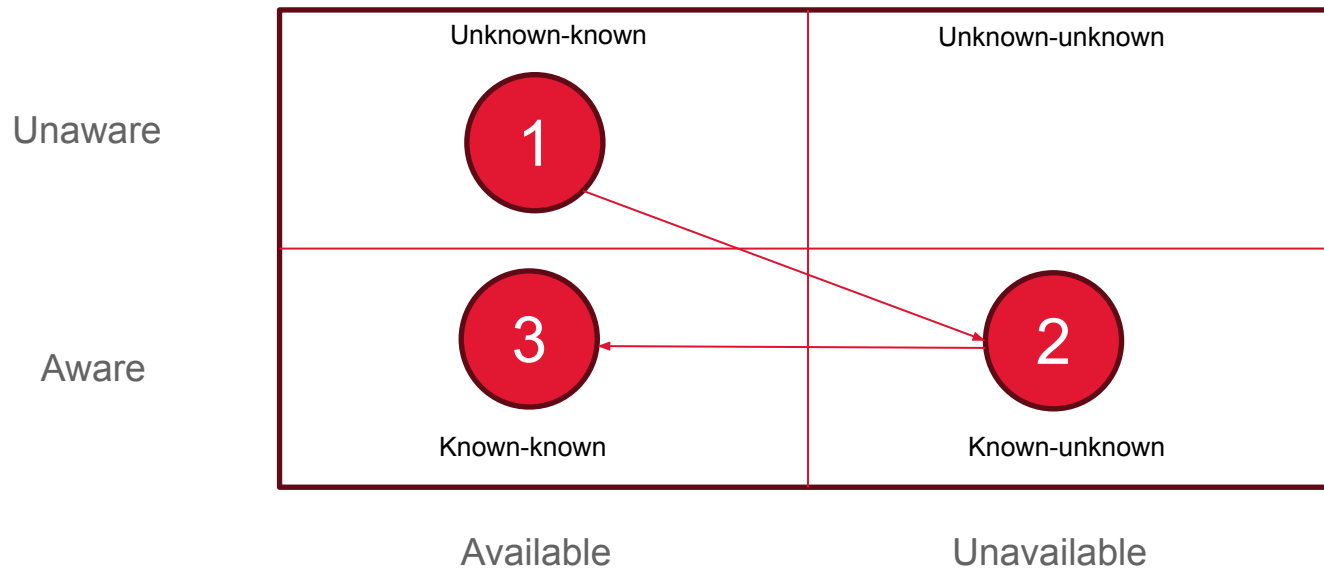
Known-known

Known-unknown

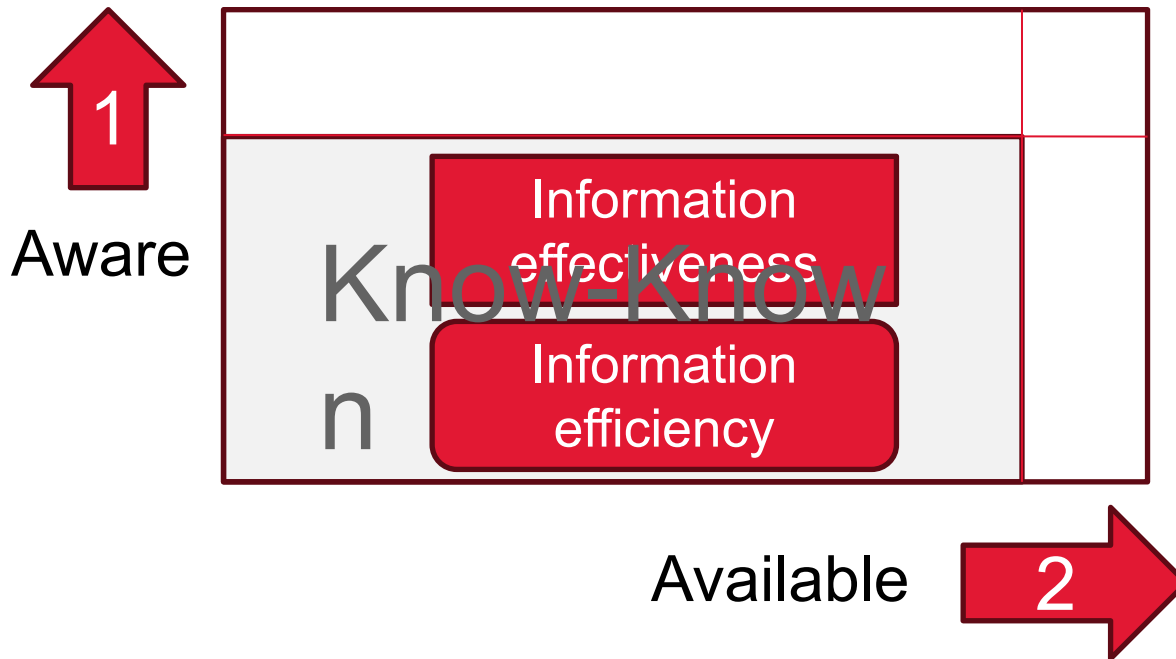
Available

Unavailable

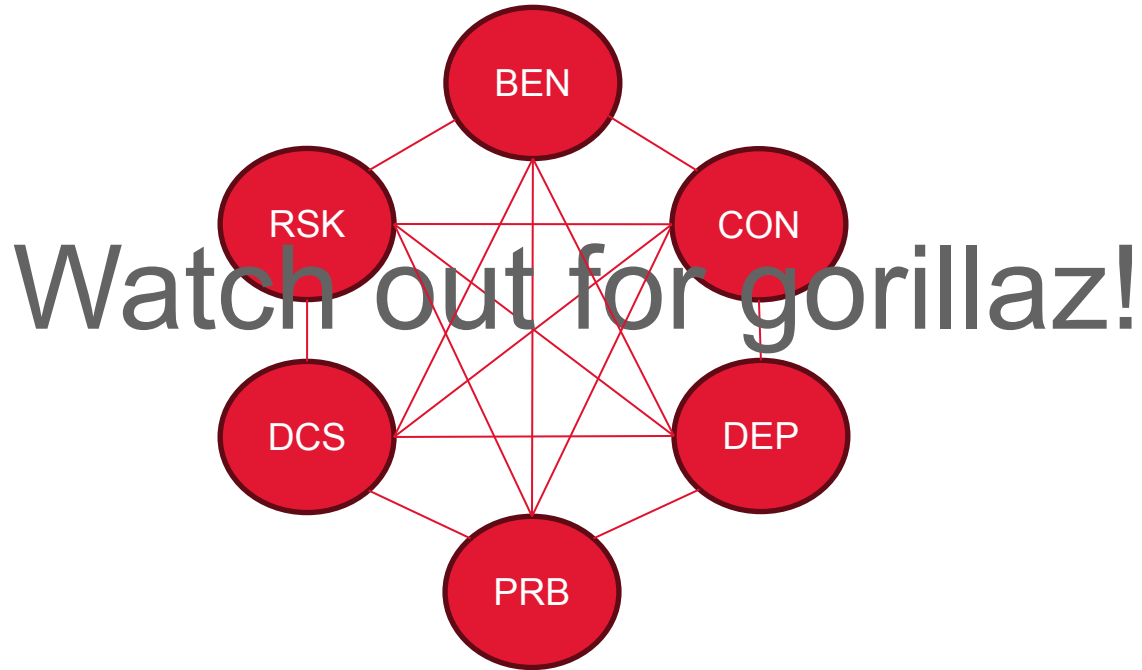




Reducing uncertainty



Project Meta Data Model



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Meta Data Element Attributes

Decisions

- Urgent vs important
- Global-local
- Owner
- Stakeholders
- Alternatives
- Latest point in time

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Meta Data Element

Working assumptions

- What are we assuming (estimating)
- How to check
- Earliest point in time
- Owner

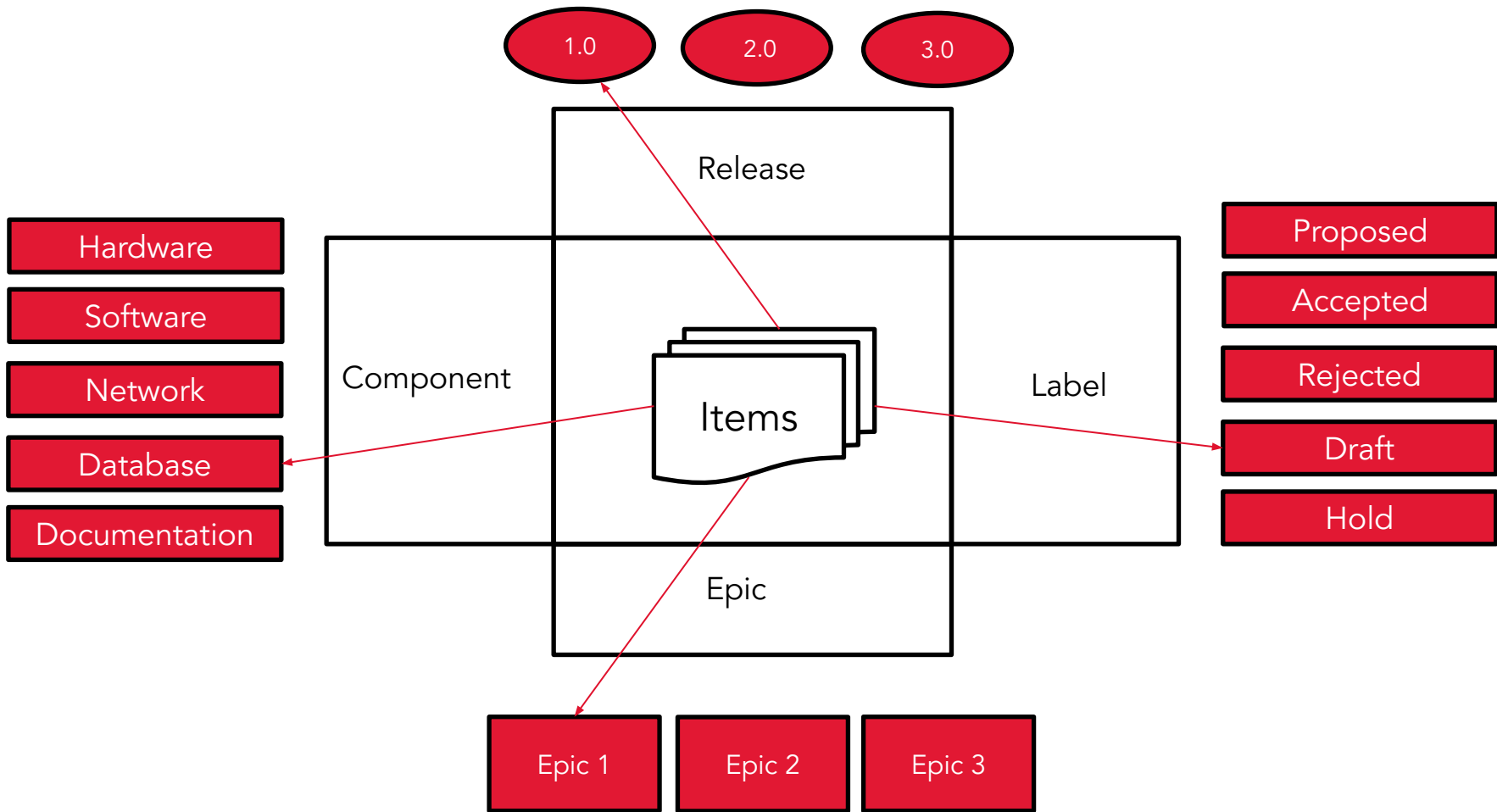
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Meta Data Element

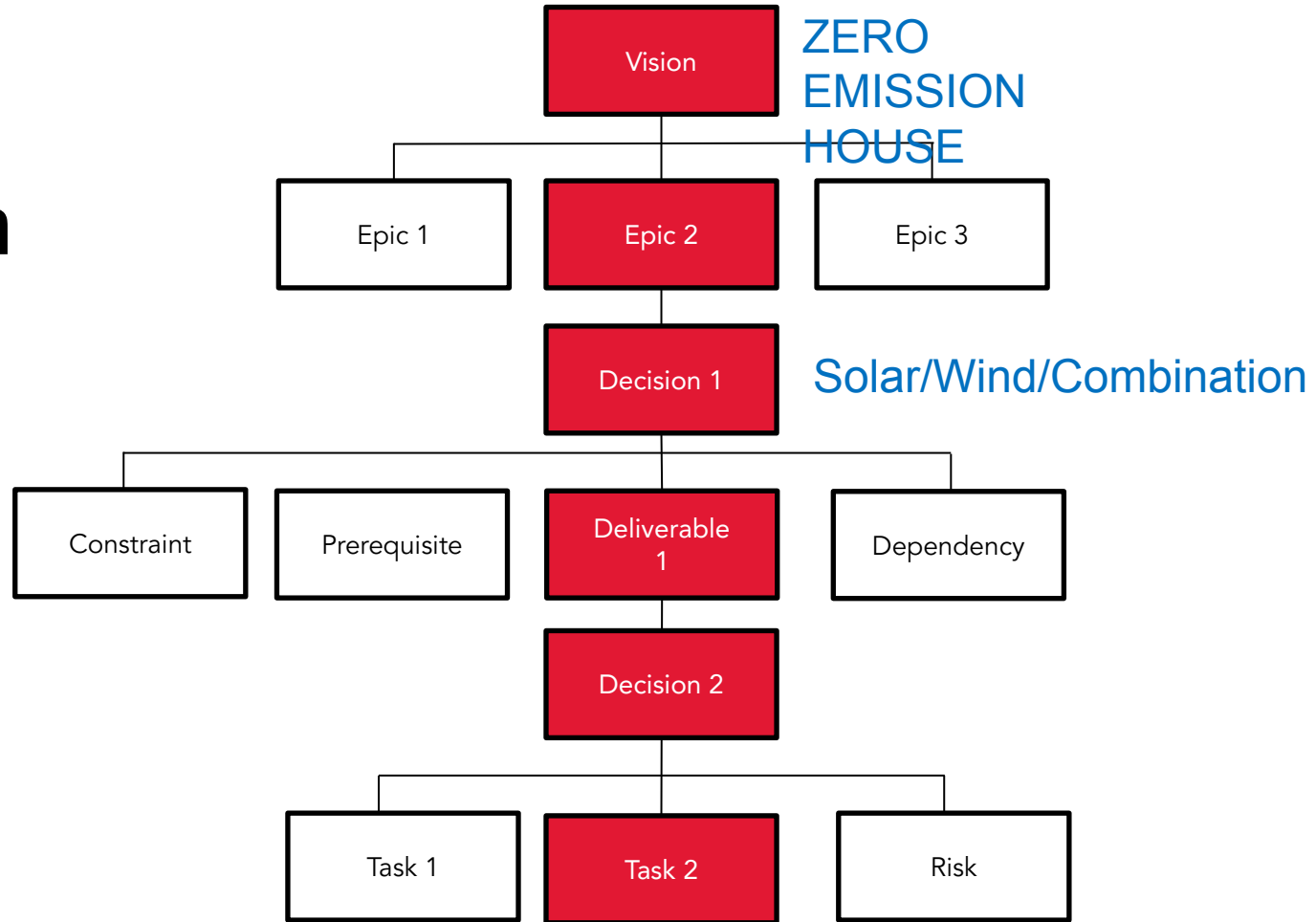
Risks

- Top List/ Watch List
- Pre-emptive measures
- Owner
- Costs
- Latest point in time

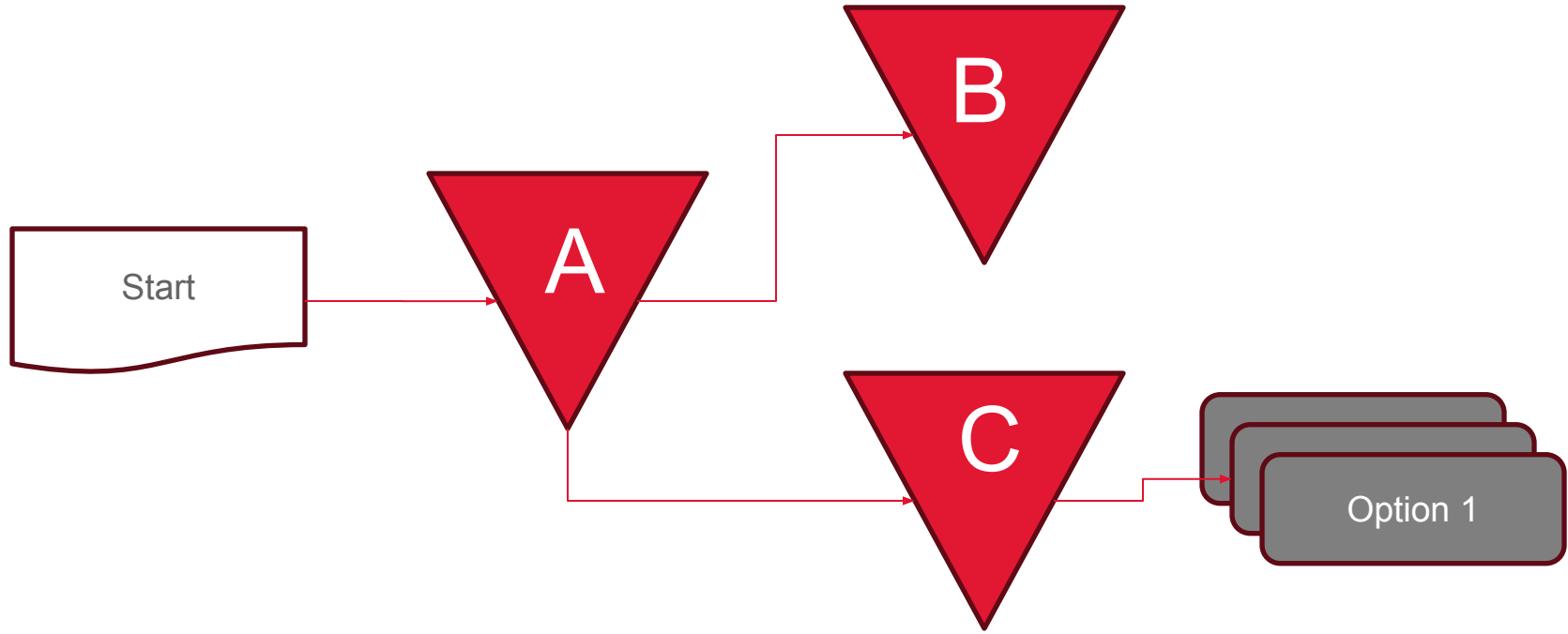
	<u>To Do</u>	<u>Doing</u>	<u>Test</u>	<u>Done</u>
Sprint	CON	Epic 1	Task	Task
	DEP	DCS 1	Task	DCS 2
	Task	DEL 1	PRB 1	
	Task	Task	PRB 2	
	WAS			
Backlog	Epic 2			
	Epic 2			



Information Breakdown Structure



Decision Network



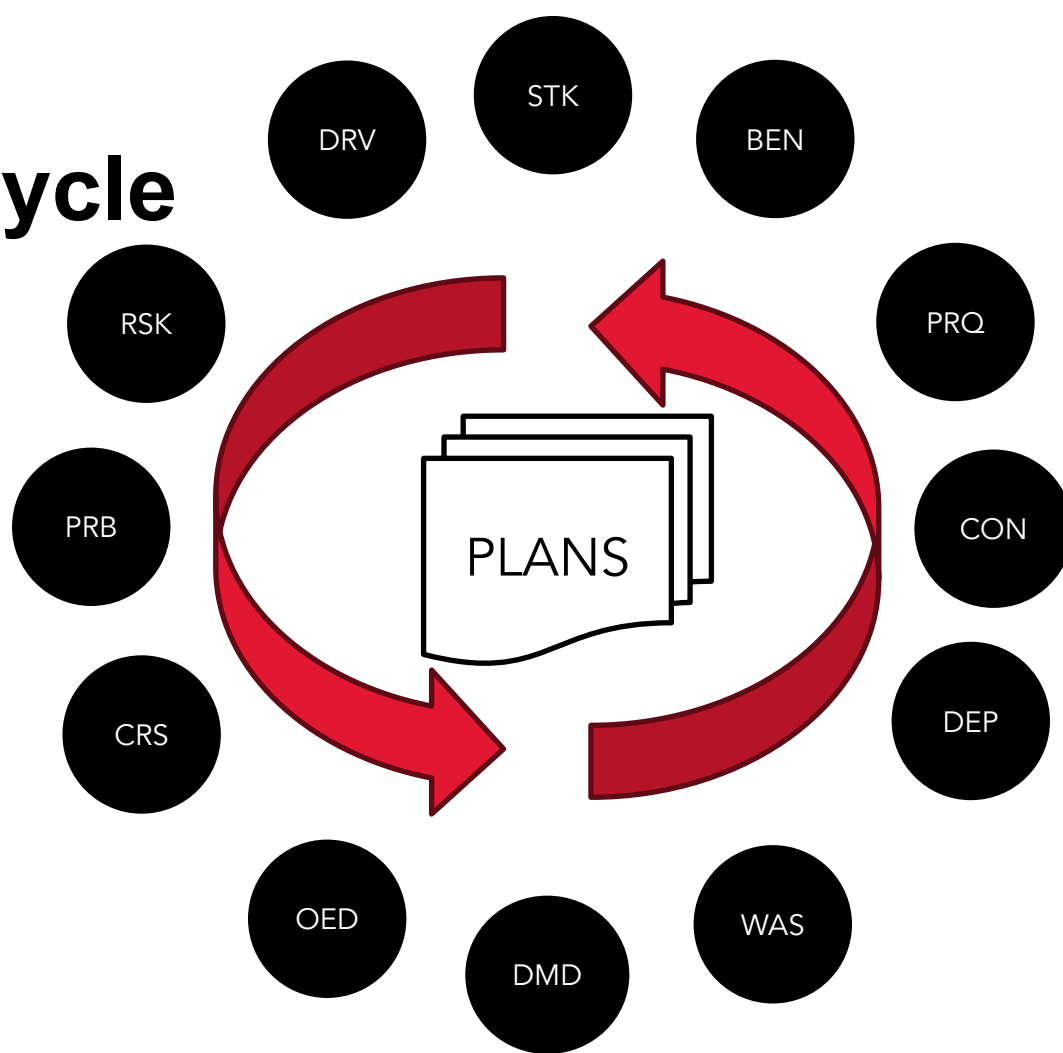
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Filtering & Dashboards

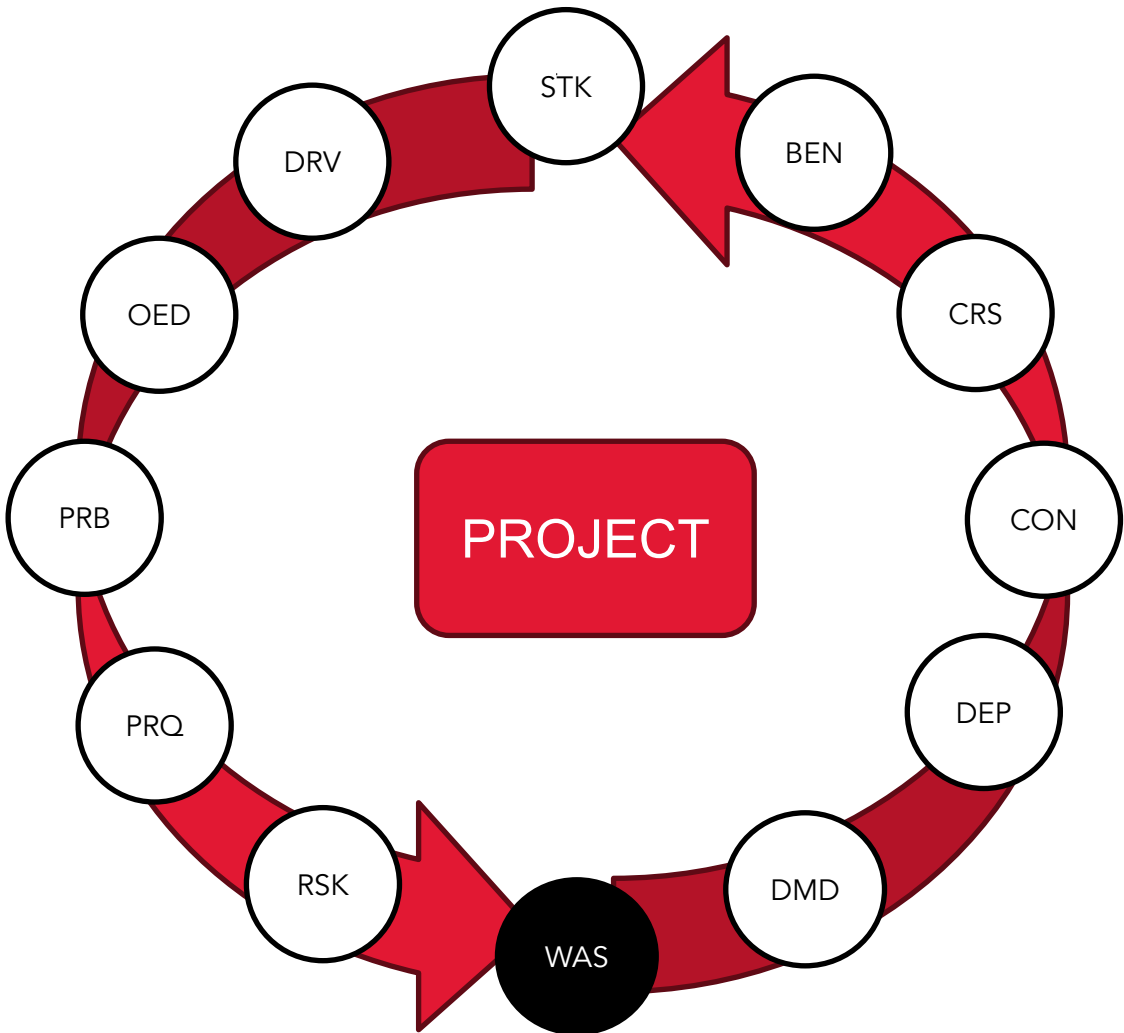
	Total	Done	Open
Decisions	45	15	30
Problems	6	3	3
Risks	10	4	3
Dependencies	4	1	3

SLACK Cycle

- Scan
- Log
- Assess
- Change
- Keep



Juggling



Tools

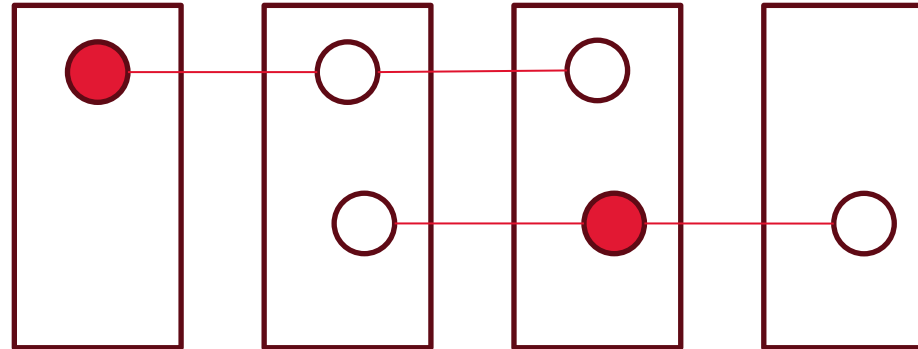




Organization

Program, Project, multi team
SCRUM, SAFe

DELIVERABLE



ACTIVITY

A stylized logo consisting of three overlapping arrows pointing to the right, colored red, yellow, and black.

SCRUM meta-data model

USE CASE
USER STORY

FEATURE
REQUEST

TASK

BUG

Same deliverables

Standardized decisions

Fixed activities cycle based on ceremonies and routines

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Power Kanban summary:

- Next generation Agile technique from the field
- Project Meta Data Technique + Kanban board
- Uncertainty reduction through improved information *awareness* and *efficiency*
- Dashboard & filters provide status and proactivity
- Generalization towards other than software development projects.



Questions?



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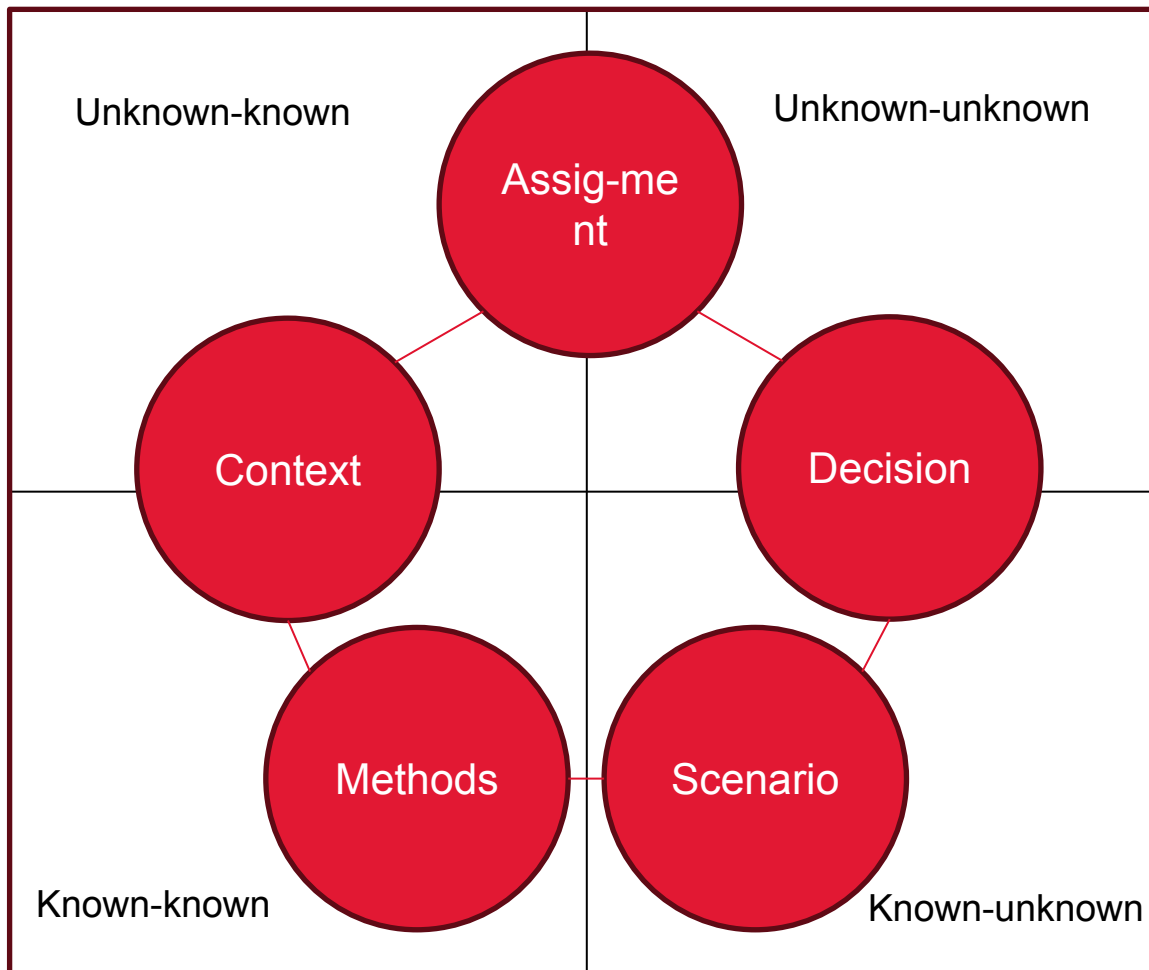


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SPARES





S

S

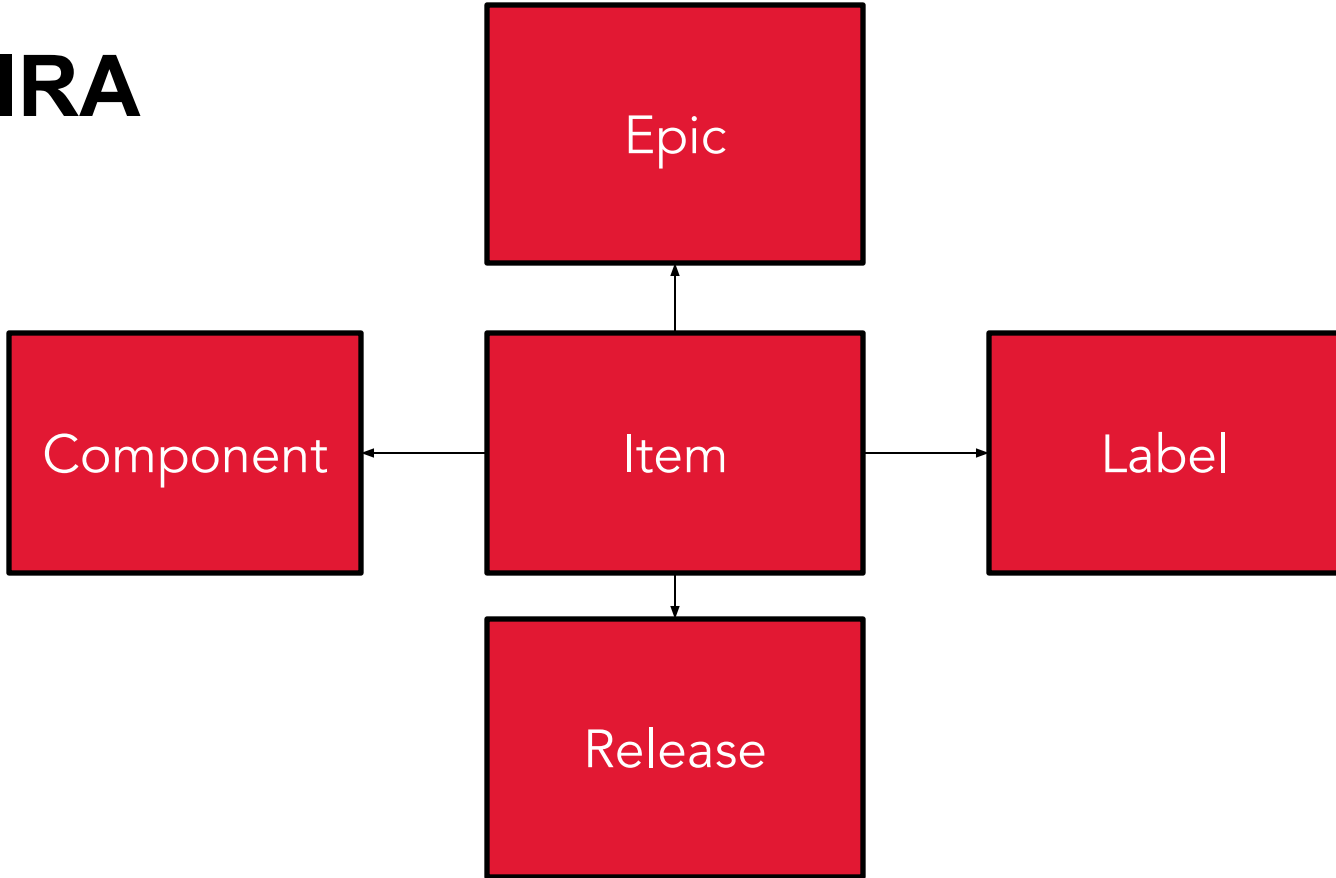


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JIRA





SLACK cycle

Scan

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Assess

Change

Keep



