



TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

Requirements Management

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- Requirements Management Overview
- Requirements
- Requirements Management Tool
- Examples of Current Projects
- Questions

- **What is Requirements Management?**
 - A collection of activities undertaken by many people on a project in order to gather, document, store, analyze, track, and implement requirements, while controlling change and communicating with stakeholders.

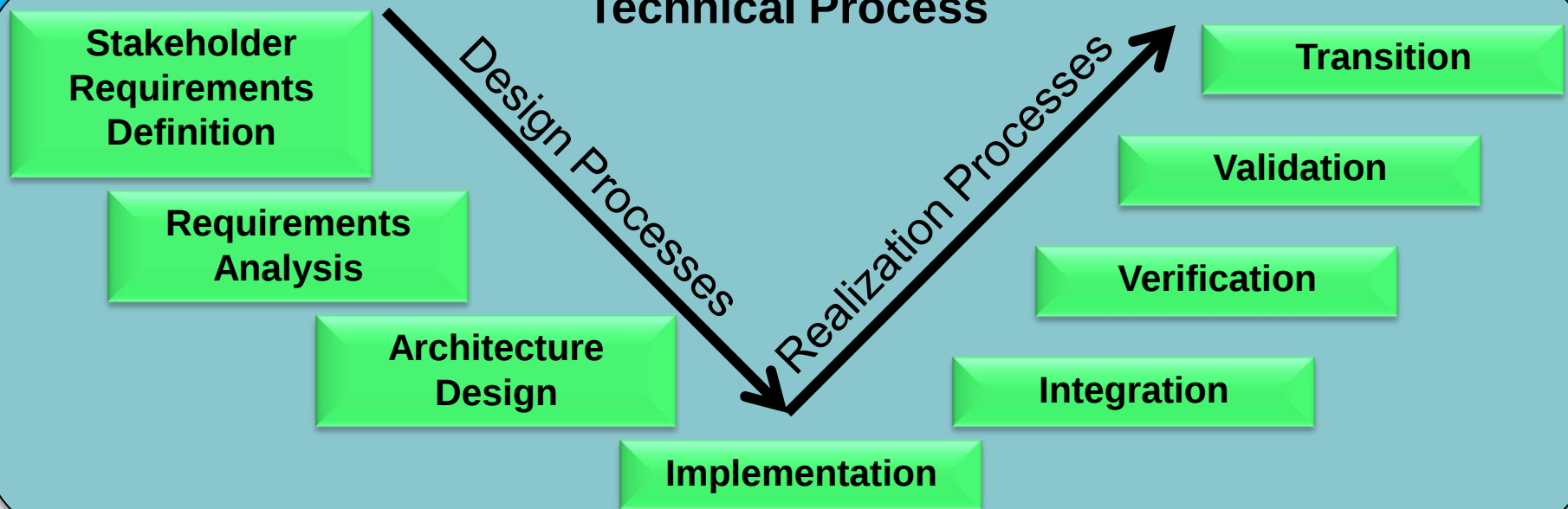
- **Why do we need Requirements Management?**
 - People involved on the project are:
 - Continually kept apprised of requirement status
 - Understand the impact of changing requirements specifically, to schedules, functionality, and costs.

- Ensures that the voice of the customer is heard throughout the entire development process
- Not restricted to a single phase in the lifecycle
- Key task is traceability of the requirements
- Different techniques, approaches and tools may be used
- Success depends on the commitment of the whole project team

Technical Management Process



Technical Process



Requirements Define:

- What the users want to achieve.
- What the system must do to satisfy user needs.
- What each component must do, and how components will interact.

Requirements:

- Have only one “shall” statement
- Have only one action verb
- Do not have stacked (multiple) “shall” statements in a list

What should a Requirement Be?



Unambiguous



Verifiable



Traceable



Correct



Feasible



Necessary

- **DOORS (Dynamic Object-Oriented Requirements System)**
 - Made for Requirements Management
 - Traceability (requirement, derived requirements, decisions, test reports, etc.)
 - Allocations
 - History/Change Management
 - Baselining
 - Access Control
 - Single Access Point for Requirements
 - Able to Export/Import Information into Other Formats

**LCMC managers –
indirect consumers of
DOORS data**

**Direct consumers of
DOORS data**

**Data owners and
authors**

**Power users, administrators,
project jump-start teams**

Leveraging DOORS
2 hour - concepts only

Intro to DOORS
2 hour hands-on + homework

DOORS Basic User Training
2 hour hands-on + homework

Traceability Links
2 hour hands-on + homework

Importing Information into DOORS
4 hour hands-on + homework

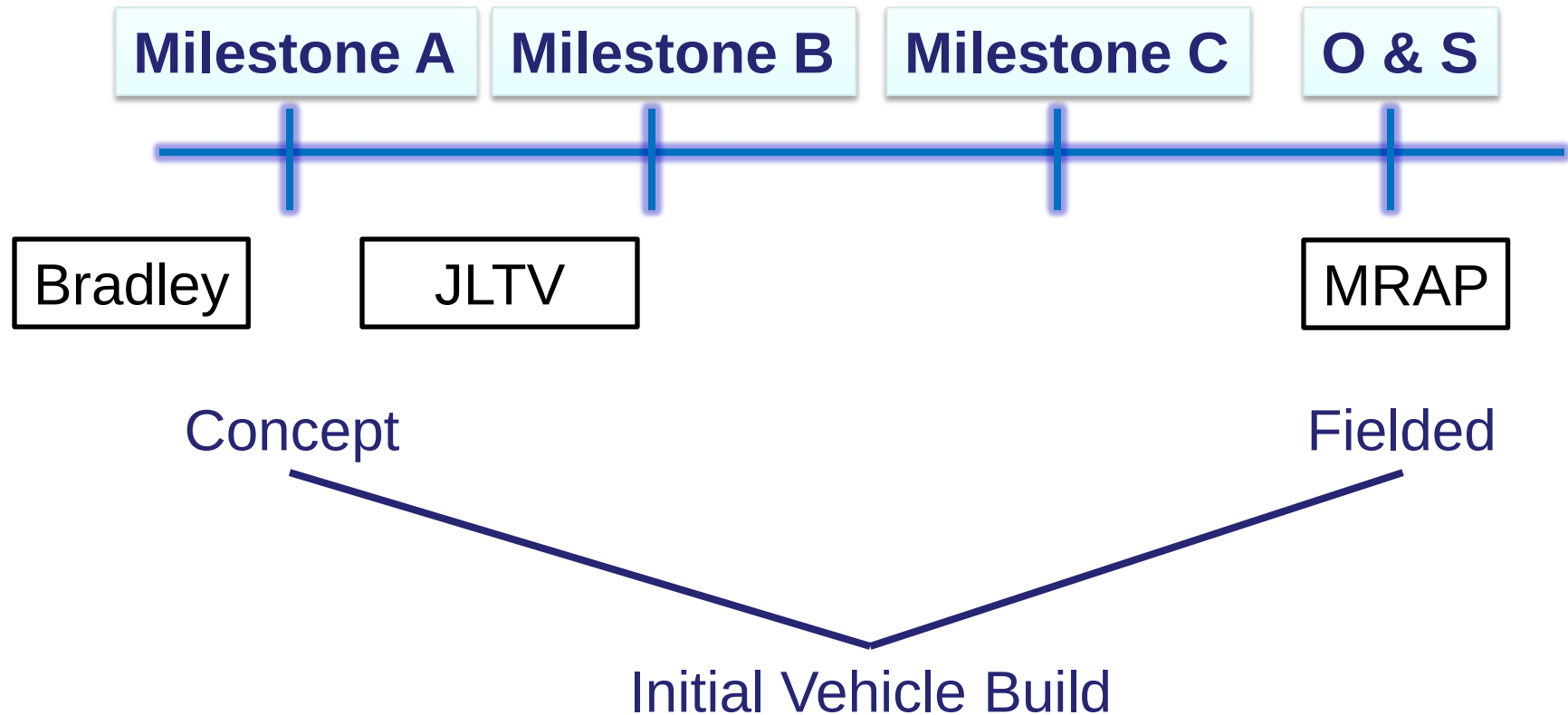
Managing DOORS Projects
4 hour hands-on + homework

Decision Management in DOORS
4 hour hands-on + homework

DOORS Extension Language (DXL)
4 hour hands-on + homework

DOORS training is available through TARDEC SEG. Contact Amber Manny 282-6834, or any SEG group member, for more information.

Current Programs Supported by TARDEC SEG: JLTV, GCV, MRAP, Bradley, PEO GCS Commonality, FED, HPLwT, PEO-I, PEO Land Systems, Unmanned Ground Systems, AMPV, and CGVDI.



- In any house if the foundation isn't sound it can cost more money and time to fix what should have been done when it was built. In our case the house is a program and the foundation is made out of good requirements.





How the customer explained it



How the Project Manager understood it



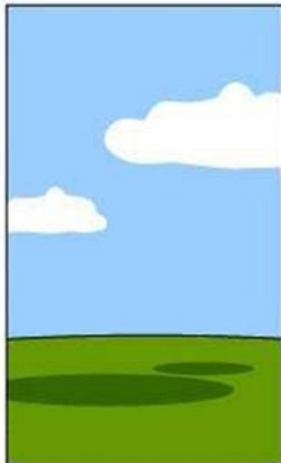
How the Engineer designed it



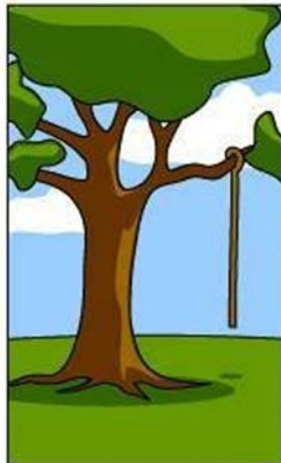
How the CAD Designer modeled it



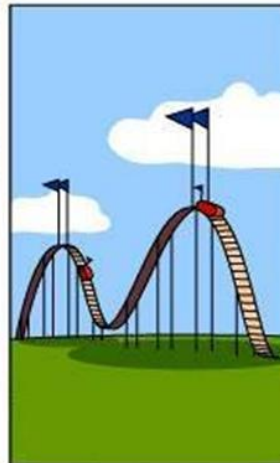
How the Salesman described it



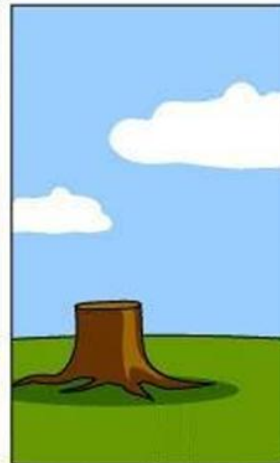
How the Project was documented



What Construction installed



How the customer was billed



The Warranty that was offered



What the customer really wanted