

Provided with 17856

Strengths

- COMPLEXITY
- CONSISTENCY
- CO-ENGINEERING

Content for 17856

- FORMAL SPECIFICATION
- INCREMENTAL STEPS & CONFIG CONTROL
- COMMUNICATION through simulation

Example

~~CONOPS & USE~~ Define function to implement (semi formal)

Weaknesses

Representation

- INTEROPERABILITY
- USE CASES
- LEVEL OF DETAILS
- LARGE COMBINATION OF PARAMETERS
- LACK OF EXHAUSTIVITY

LANGUAGES

Opportunities

Process / Method

- RE-USE
- LEGACY
- INTEGRATE BOTTOM-UP & TOP-DOWN

TOOLS

- TRACEABILITY
- AUTOMATED CODE GENERATION

Threats

Process / Verification

- one-way vs two-way Comm. & closing the loop ahead of V-cycle.
- WHEN TO SYNCHRONIZE? WORKFLOW
- IS THE MODEL COMPLETE?

Costs

- LEVEL OF ABSTRACTION VS LEVEL OF DETAILS
- INTEROPERABILITY
- COMPLEXITY

STAPLES

Strengths

Documents

- PDF generated for Nucleus
- STRUCTURED DOCUMENTS
- ICDs
- Design Def
- Design Spec

CONSISTENCY ACROSS DOCUMENTS

Weaknesses

change management

- Document (Model) Changes
- COMPARISON OF MODELS
- VERSION CONTROL

MAINTENANCE (of the SW)

Review

- INTERACTIVE REVIEW OF THE MODEL
- + Auto-generation

Opportunities

quality

- TRACEABILITY

Representation

- PARTIAL DOCS
- Different purpose/ing of docs
- GRANULARITY PER LEVEL OF MODELLING
- BETTER STAKEHOLDER INVOLVEMENT

Automate SE tools for completeness of documentation generation

Threats

TAILORED

Different way of telling stories.
↓
(Different for formatting)

Ambiguity when exporting partial or incomplete data from the model.

Big models
↳ large documentation

Documentation availability in 10 years
Models availability?