ET-O AND ET COLLABORATION TDRS

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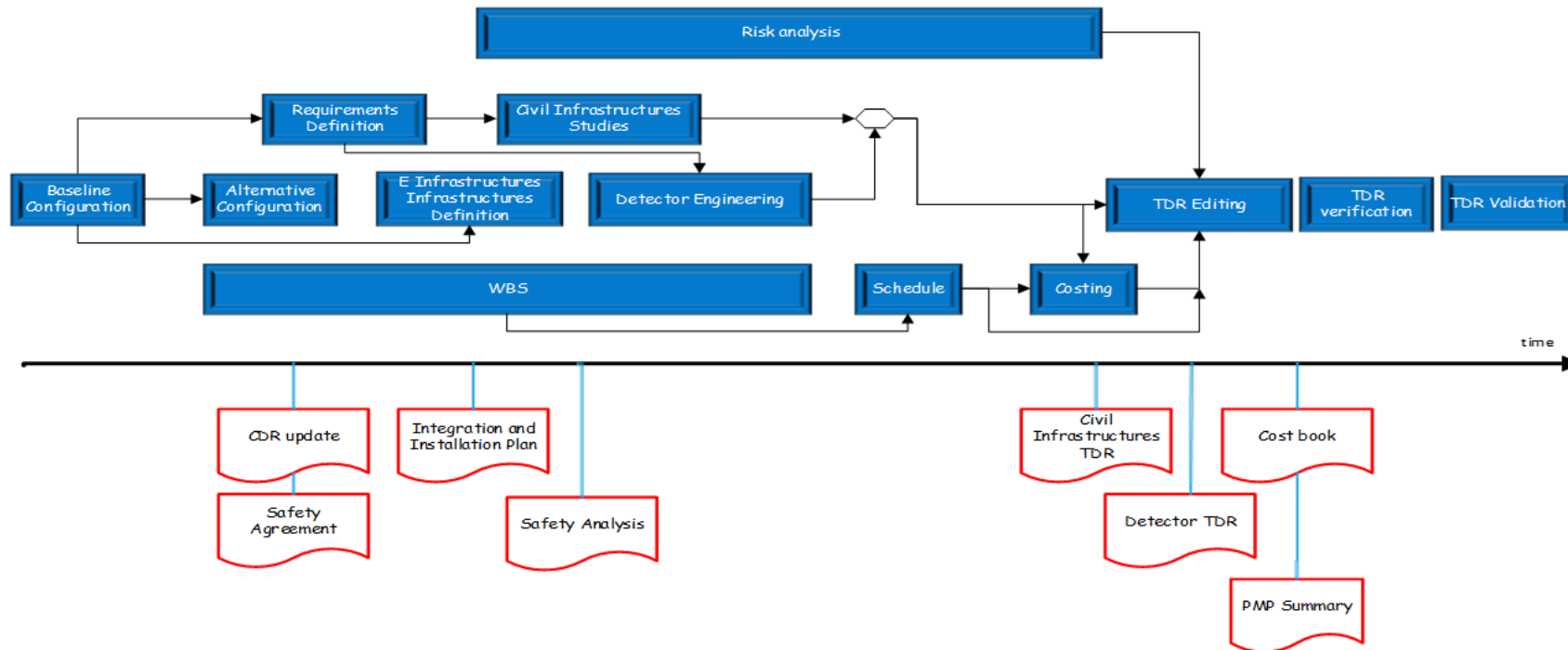
ET-PP INFRA-DEV Annual Meeting

Barcellona

WHAT A TDR DOES

- Provide the project scientific motivation.

- Provide the results of the R&D proposed in the CDR and the validation process.

- Summarize the main systems and elements requirements.

- Technical and functional description of the systems and of the adopted solutions – Hardware, IT, Infrastructure, Safety. (and layouts…).

- Provide, for systems and elements, parameters and specifications. Elements engineering specifications shall be privileged in respect the systems functional description. (Tables)

- Provide an installation and integration plan to support the studies and the costing.

- Provide a description of the safety management.

- Provide the basic elements for project management : schedule (master), cost estimate for procurement, installation, integration, operation *(and dismantling if possible)*.

- The master schedule shall be based on a WBS (Wp description) – High tiers.

- Provide the description of the risk analysis elements and first version of the risk matrix, (at least the technical ones, TRL evaluation)

WHICH TDRS

- Three main TDRs to be delivered
  - Instrument TDR
  - Civil infrastructure TDR
  - E-infrastructure TDR
- Strongly interleaved, interfaces need to be defined (and managed…)
- Same procedure for verification and validation

A ROADMAP FOR THE TDRS

TDR STEPS

1. Baseline design → CDR

2. Requirements definition

3. Definition of the project (WBS, schedule, risk analysis, cost book)

4. Engineering of TDR deliverables

5. TDR editing (editing, verification, validation, approval)

TDR DISCUSSION

Open discussion

- Do we agree on the first slide? Can we produce a TDR topics template?
- What about the tentative roadmap?
- Have we all the resources and competences available?
- What Verification and Approval process?
- What organization ?
- What approximation for costing and schedule ?
- How to merge local initiatives?
- What framework and processes for E-infrastructures ?

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TDR DISCUSSION SUMMARY

- TDR editing (editing, verification, validation, approval)

  - What tools are available/should be used for editing?

  - How can we link parameters tables to text?

  - In principle, TDR editing comes at the end of the timeline, but deadlines are rather strict (end of 2024) → can we anticipate editing of the subsystem chapters?

- Action items on PO and ET-EB

  - PO: provide template with TDR structure and some recommendations for editing;

  - ET-EB: start identification of TDR editors (Division chairs, WP coordinators…)