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science for systems engineering

openETCS

WP2 ↔ WP3a Collaboration

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Agenda

- WP3 History
- WP3a Overview
- WP2 ↔ WP3a collaboration

WP3 History

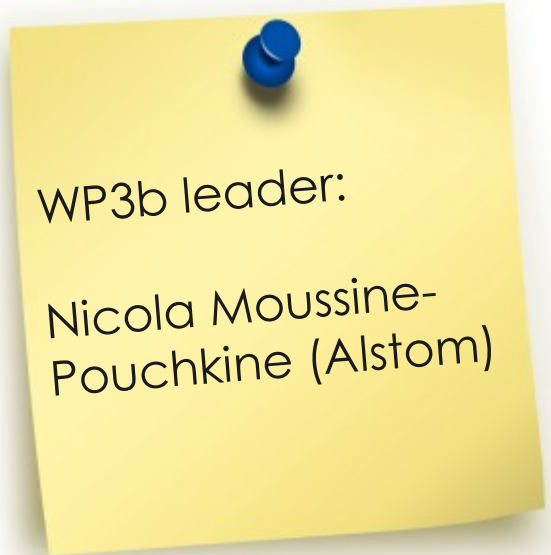
- WP3: Modelling – Code Generation

- 3 Tasks, 6 Deliverables
- Adaption after split necessary

→ WP3a: Toolchain

- DoW just finalized
- 9 Pages, 4 Tasks, 37 Inputs, 31 Outputs, 23 Deliverables

→ WP3b: Modelling and code generation



WP3b leader:

Nicola Moussine-
Pouchkine (Alstom)

WP3a Tasks and Task Leaders

Michael Jastram

WP3a Leader

Arnaud Cuccuru

WP3a.1 Task Leader (Core Tool Chain Analyses and Recommendations)

Marielle Petit-Doche

WP3a.2 Task Leader (Supporting Tools Analyses and Recommendations)

Jan Peleska

WP3a.3 Task Leader (Define and Develop Tool Chain)

Jonas Helming

WP3a.4 Task Leader (Develop Open Source Ecosystem)

WP3a participants

OpenETCS



All information at
[https://github.com/
openETCS/
toolchain/wiki](https://github.com/openETCS/toolchain/wiki)

Inputs from WP2

due November 2012

- List of suitable languages (based on State of the Art Analysis) **(T2.1, D2.1)**
- List of suitable tools (based on State of the Art Analysis) **(T2.1, D2.1)**
- List of target platforms, based on the tools being evaluated **(T2.1, D2.1)**
- Small subset of ERTMS requirements that is representative **(T2.2?)**

Inputs from WP2 due January 2013

- Those WP2 Requirements that are sufficient to evaluate a target language **(T2.1, T2.3, D2.6)**
- Those WP2 Requirements that are sufficient to evaluate the tool **(T2.1, T2.3, D2.6)**
- Definition of the process **(T2.2, D2.3)**

Inputs from WP2 due March 2013

- Designer Wishes and Requirements **(T2.1, T2.3, D2.6)**
- WP2 Requirements **(T2.1, T2.3, D2.6)**

Issues for Today

- Ensure that WP2 Outputs match WP3a Inputs
- Scope (just software? also hardware?)
- Certification / CELENEC (readiness? included?)

WP3a Task Details

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1 Core Tool Chain Analyses and Recommendations.....	4
1.1 Identify and define the potential means of description	5
1.2 Identify and compare existing modelling tools	5
1.3 Identify the tool platform	6
2 Supporting Tools Analyses and Recommendations.....	6
2.1 Identify and define the supporting tools and methods	7
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2.3 Requirement traceability.....	8
2.4 Validation and Verification Tools	8
2.5 Safety analyses Tools	10
3 Define and Develop Tool Chain	10
3.1 Overall Tool Architecture	10
3.2 Development Infrastructure	10
3.3 Decomposition and Distribution of work	11
3.4 Inputs and Outputs for Section 3	11
4 Develop Open Source Ecosystem.....	11

Goals today

- Scope of Work / Objectives
- Interface between WPs (Inputs, Outputs)
- Timeline

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