



3rd openETCS@ITEA2 Project Cooperation Committee Meeting

openETCS@ITEA2 Project

Klaus-Rüdiger Hase

Braunschweig October 7, 2013

3rd PCC Meeting AGENDA (1)



T	D	Cultinat / Damanla Cuantan / Dana and site in	
Time	Room	, , ,	-
12:00	TBD	Welcome, Lunch, Registration / TBD (Building 118.6)	
12:45	A015	3rd PROJECT COOPERATION COMMITTEE MEETING: Welcome address / Objectives for this PCC Meeting: Discussion / Proposals and Agreement on the Agenda Klaus-Rüdiger Hase, DB Netz / all Partners	
13:00	A015	Wrap-up of ITEA2 review and recent activities in WP3 + WP7: Results so far and action to be taken: Recommendations from ITEA2 review team> POLARSYS Feedback from various stakeholders: ERA: Entire SRS to be formalized, High quality OBU reference SW EUG: Entire SRS to be formalized, not just OBU CEO ITEA2: Future project strategy and "Plan B" activities Other inputs: POLARSYS/Eclipse Workshops, CEO Esterel Technologies, SHIFT²RAIL FP7 Project Proposal, OPENCOSS Advisory Board Workshop Discussion and agreement on further action Klaus-Rüdiger Hase, DB Netz / all Partners	

3rd PCC Meeting AGENDA (2)



Time	Room	Subject / Remark - Speaker / Responsible
13:45	A015	 Proposals for further actions: Results from Doodle poll on resource spending Further strategy on formalization, Tools R&D, and V&V activities SCADE full scale formal Model & SW development EFS semi-formal Model (& SW) development EFS' role inside the V&V activities Further Tools Chain development + Proof of concept Resource allocation & commitment confirmation Q&A / open discussion Klaus-Rüdiger Hase, DB Netz / all Partners
14:15	A015	 Decisions D7.1: All decisions documented in D7.1 shall be confirmed by PCC Resource Allocation of Partners as committed in the doodle: to be confirmed Kick-Off for PCC Charta Activities Klaus-Rüdiger Hase, DB Netz / all Partners
14:30	TBD	END of PCC Meeting *) - Coffee Break

Wrap-up of ITEA2 review and recent activities WP3&7:



Results so far and action to be taken:

Recommendations from ITEA2 review team → POLARSYS

Feedback from various stakeholders:

- ERA: Entire SRS to be formalized, High quality OBU reference SW
- EUG: Entire SRS to be formalized, not just OBU
- CEO ITEA2: Future project strategy and "Plan B" activities

Other inputs:

- POLARSYS/Eclipse Workshops,
- CEO Esterel Technologies,
- SHIFT²RAIL FP7 Project Proposal,
 - OPENCOSS Advisory Board Workshop

Discussion and agreement on further action

Proposals for further actions:

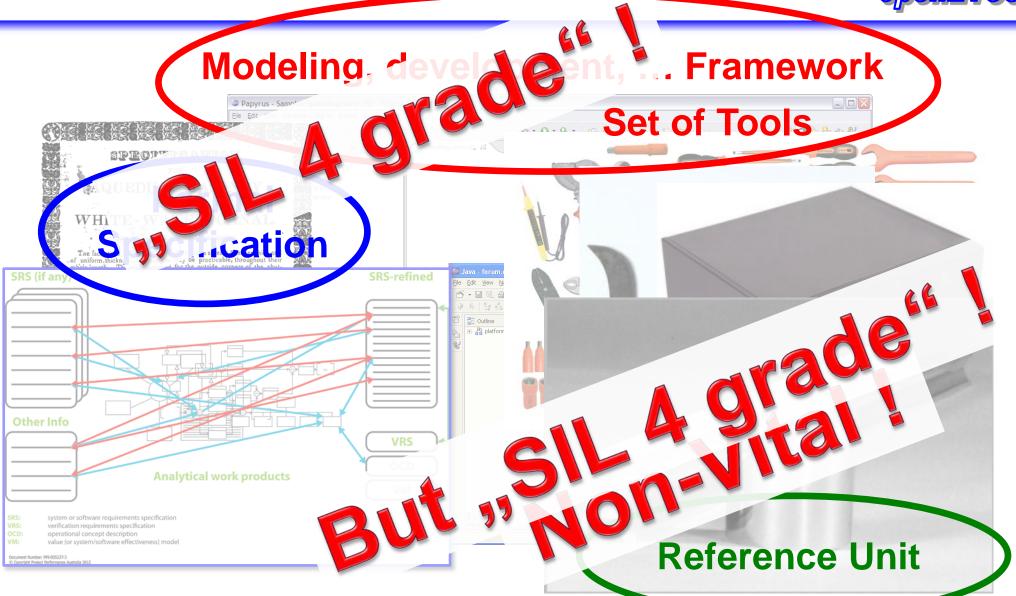


Results from Doodle poll on resource spending

- Further formalization strategies, Tools, R&D, and V&V activities
 - SCADE full scale formal Model & SW development
 - EFS semi-formal Model (& SW) development
 - EFS' role inside the V&V activities
- Further Tools Chain development + Proof of concept
- Resource allocation & commitment confirmation
- Q&A / open discussion

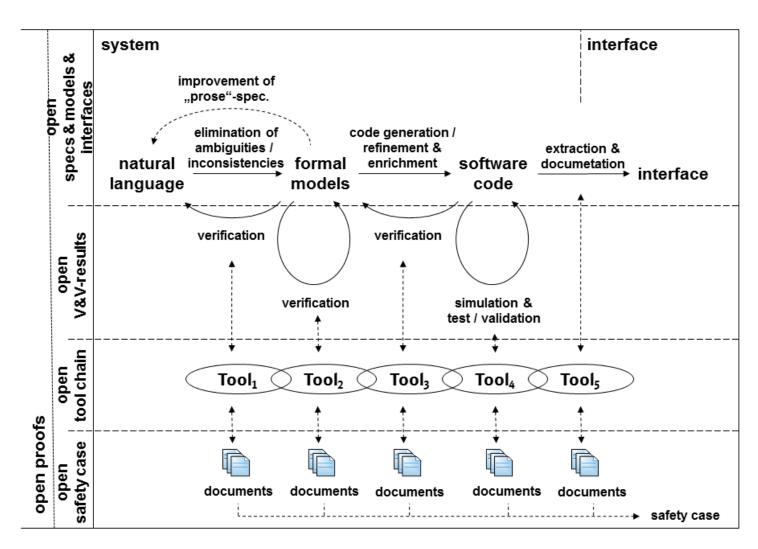
The Goals and Major Expected Outcomes (FPP V.2.2)





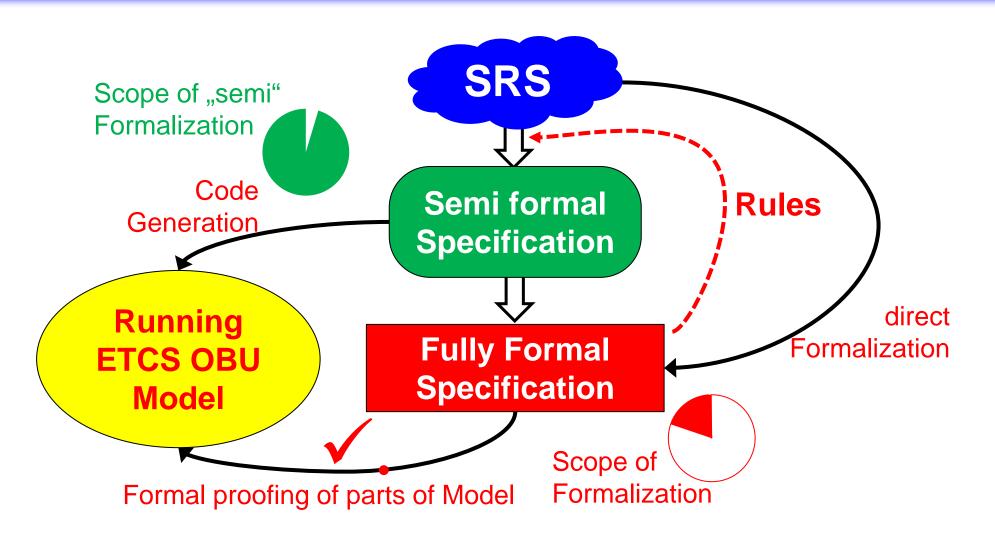
Tools Chain from the FPP





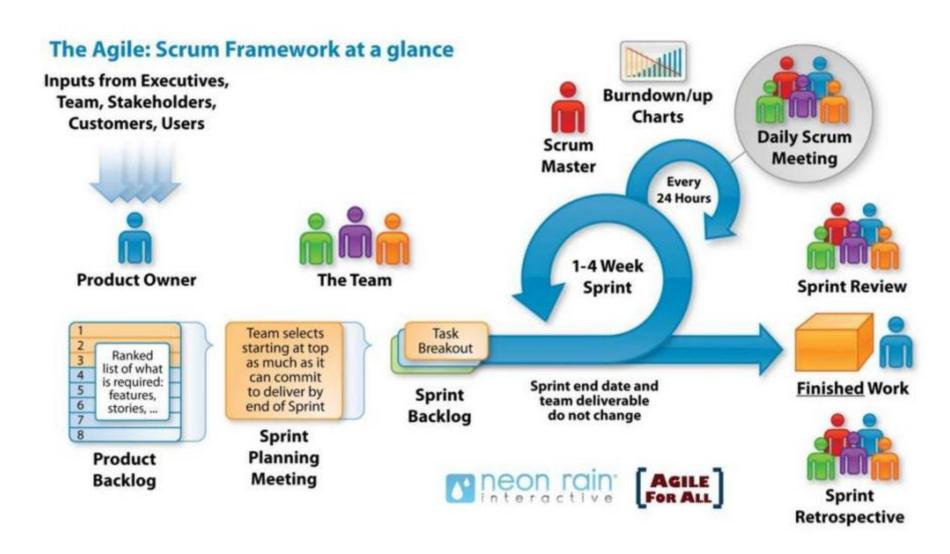
Formalization of SRS within openETCS





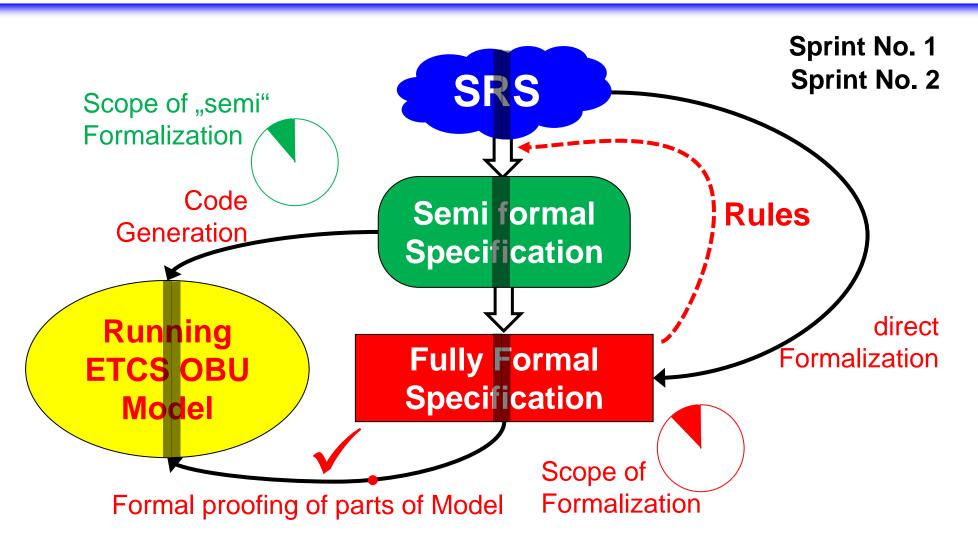
Apply SCRUM → incremental deliverables





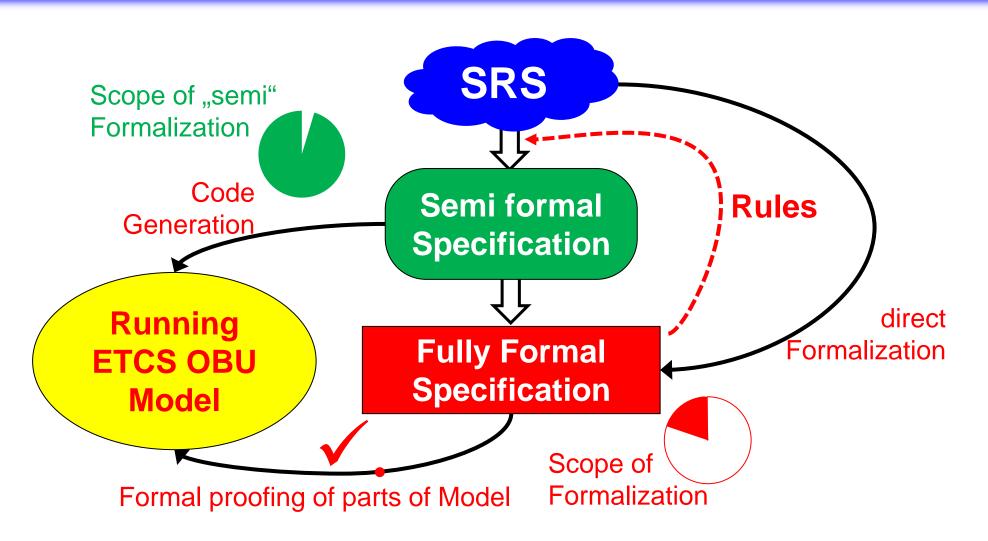
Formalization of SRS within openETCS





Formalization of SRS within openETCS





D7.1 Results



OETCS/WP7/D7.1 - 01/04

XITEA2

ITEA2 Project Call 6 11025 2012 – 2015

Work Package 7, Task 1: "Primary Toolchain"

Report on the Final Choice of the Primary Toolchain

Decision on the final choice for the means of description (07.1.4), tools (07.1.8) and tool platform (07.1.11)

Michael Jastram, Marielle Petit-Doche and all participants of the decision process

September 2013



Funded by









enETCS

Key results:



- Eclipse EMF + SysML are selected
- No complete OSS "pro" tools chain available
- "Formal Spec." & "Ref. OBU SW" cannot wait!
 - → Need to use CSS tool SCADE (SIL4)
- EFS for V&V and Content Resource (no SIL)
 - → May be used for "rapid prototyping"
- WP7 needs to look for CSS → OSS tools migration path → join POLARSYS ?

D7.1 Decision Recommendations (1)

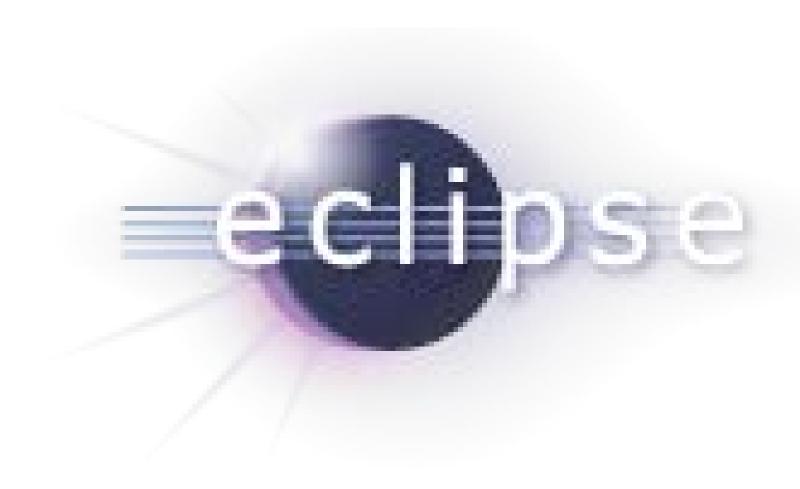


Decision 1

By vote in Paris on July 4th, 2013, all the partners agree on the use of Eclipse as tool platform.

Want to go ... eclipse ... EMF





D7.1 Decision Recommendations (1)



Decision 1

By vote in Paris on July 4th, 2013, all the partners agree on the use of Eclipse as tool platform.

Decision 2

By vote in Paris on July 4th, 2013, all the partners agree on the use Papyrus/SysML to cover the highest level of the OpenETCS V-cycle. Later it was clarified that it will be an original or bidirectional synchronized (but not a derived) artifact.

We will start with ...



Sys ML

D7.1 Decision Recommendations (2)



Decision 3

With input from WP2 and WP3, a WP7 will develop a validator for Papyrus-based SysML.

D7.1 Decision Recommendations (2)



Decision 3

With input from WP2 and WP3, a WP7 will develop a validator for Papyrus-based SysML.

Decision 4

As the first tool chain release, WP7 will provide at a minimum a Papyrus SysML environment to WP3, under the assumption that this is suficient for WP3 to start modeling, until the final decision has been made (see Decision 5).

D7.1 Decision Recommendations (3)



Decision 5

A final decision on the primary tool chain must be made by the end of January 2014. After this point, WP7 resources must not be spread between competing tools.

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Decision 5

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Decision 6

EFS activities will be coordinated with WP4, to support V&V activities (as these are modeling activities, they still belong in WP3). This issue must be raised and resolved with the PCC.

D7.1 Decision Recommendations (4)



Decision 7

Unless new evidence is provided in agreement with Decision 5, SCADE will be considered the foundation for the primary tool chain. In that case, a feasible migration from what had been done with SCADE is essential.

D7.1 Decision Recommendations (5)



Decision 8

Work on the tool chain must always take the objective of an OSS migration into account, e.g. by standardizing interfaces between tools. It is acknowledged that such a migration may not be feasible within the timeframe of the openETCS project. However, by the end of the project, feasibility of a migration must be demonstrated (e.g. with a prototype or case study).

D7.1 Decision Recommendations (6)



Decision 9

All openETCS project partners must be made aware of the need for acquiring a SCADE license (depending on their activities). If a partner feels that this is not achievable, this must be escalated to the project office by November 15, 2013. The project office will assist in finding a solution. If no solution has been found by January 31, 2014 for all partners who escalated, then SCADE will be abandoned for anything on the critical path of the tool chain.

D7.1 Decision Recommendations (7)



Decision 10

According to the spirit of an open proofs project, team members are permitted to continue evaluating B, even with the objective of contradicting Decision 7. However, if unsuccessful by the deadline set by Decision 5, they must refocus either by contributing elsewhere, or by focusing on the transition to OSS, as outlined in Figure 57. The team is strongly encouraged to coordinate with POLARSYS.

D7.1 Decision Recommendations (8)



Decision 11

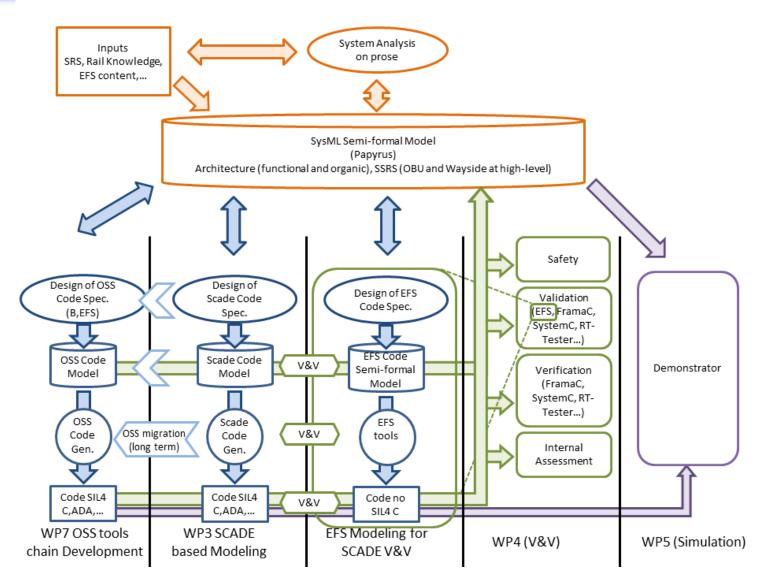
WP4 is going to consider the artifacts of "SysML+ SCADE" tool chain for the first round of verification and validation launched in July 2013.

Decision 12

For the following rounds, starting in February 2014, WP4 will adapt the verification and validation activities to the models and code provides by WP3.

Activities according to D7.1 recommendation





Resources estimate via Doodle:





We should...



wisely use our resources!

We need a decision:



Voting on the D7.1

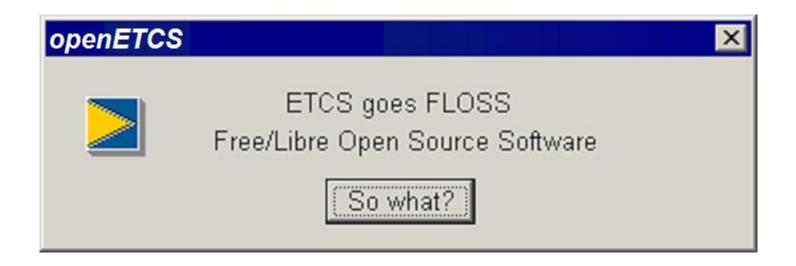
Recommendations

We need a PCC Charta:



PCC Charta Working Group





Thank you for your attention.