

**Open  
Source Code**



# **openETCS**

## **Report from the last SSRS SysML Workshop in Frankfurt 2<sup>nd</sup> October**

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openETCS@ITEA2 Project

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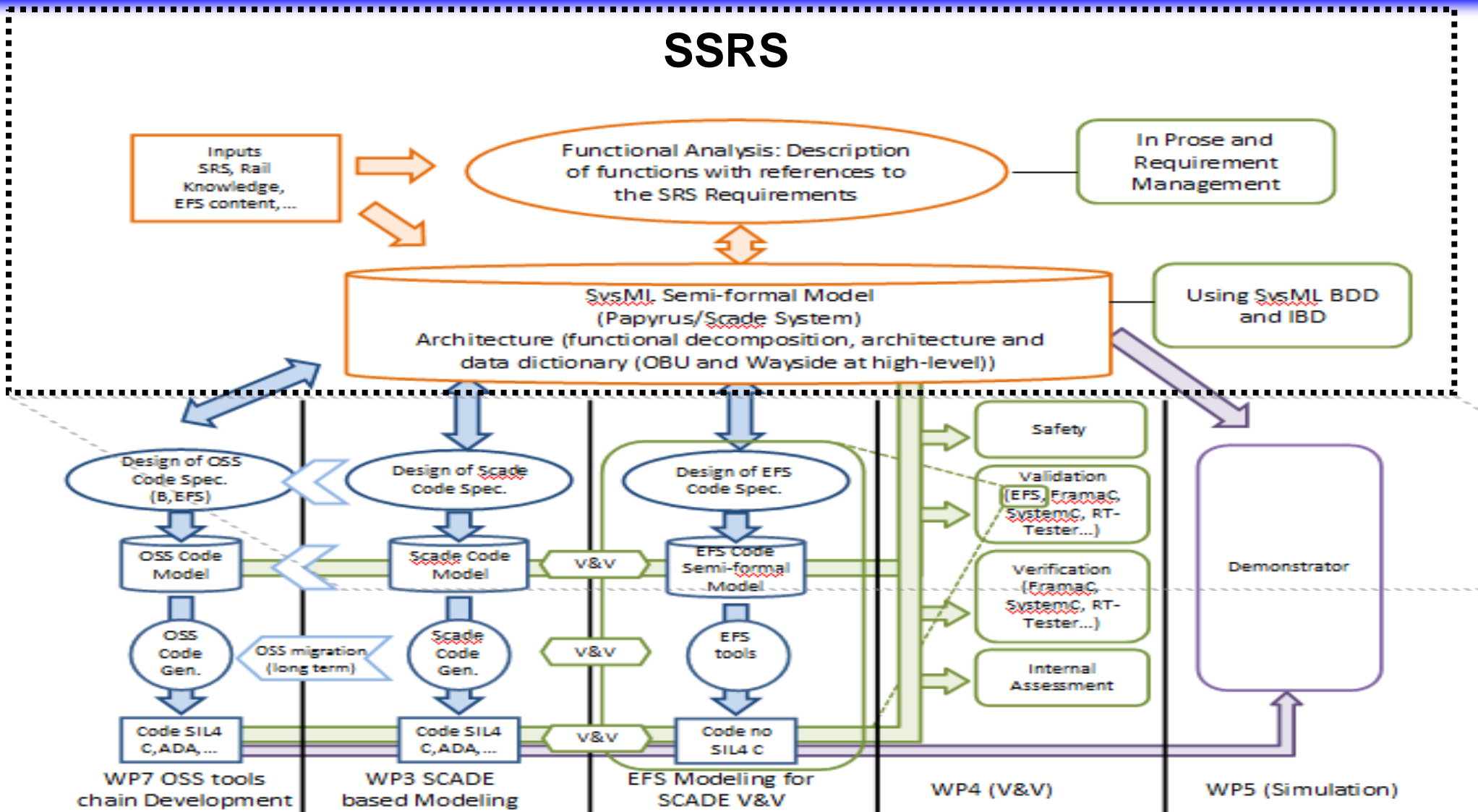
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'Braunschweig, 07.10.2013

- **Evaluation of the artifacts, documents, deliverables ..... by the modeller.**
- **Approval of the last SSRS SysML report from the 2<sup>nd</sup> of October in Frankfurt.**
- **Definition of the future working together**
- **Estimation of a timeline**
- **Allocation/sharing of the resources**
- **Commit on the backlog**

- **Presentation on functional breakdown (DB Student, Jan Welte, Jan Welvaarts)**
- **SRS analysis and functions (Jan Welvaarts)**
- **MoRC Model in Scade (Uwe Steinke)**
- **What is needed for the SSRS Model (Marielle Petit Doche)**
- **Interface documents**
- **ERSA-data dictionary/interface document**
- **EFS data dictionary**
- **Operational rules Germany**
- **Hazard Analysis Germany**
- **Operation rules Netherlands**
- **Package from Utrecht – Amsterdam HSL research project**
- **List of usefull documents**
- **Dow**

# Complement the Model



## 1. How to come from ERA+SRS to Modeling

If parts of the SRS are already written as a function it can be taken over in the SysML Model.  
Otherwise the functions have to be extracted from the requirements.

## 2. SysML – Modeling with Papyrus

Refer to the Model

## 3. How to start modelling tomorrow.

Process defined on the Model

## 4. View whats needed for Modelling

- Names of function
- Description of the function including reference to the SRS
- Data dictionary
- In- and Outputs of the functions

## 5. Organize Work – Meetings

- 4 day meeting in Munich – end of October
- Next come together - Thursday 10th of October in Brunswick

## 6. Decision 2

- Comit on 7.1 – decision 2

# Next Steps

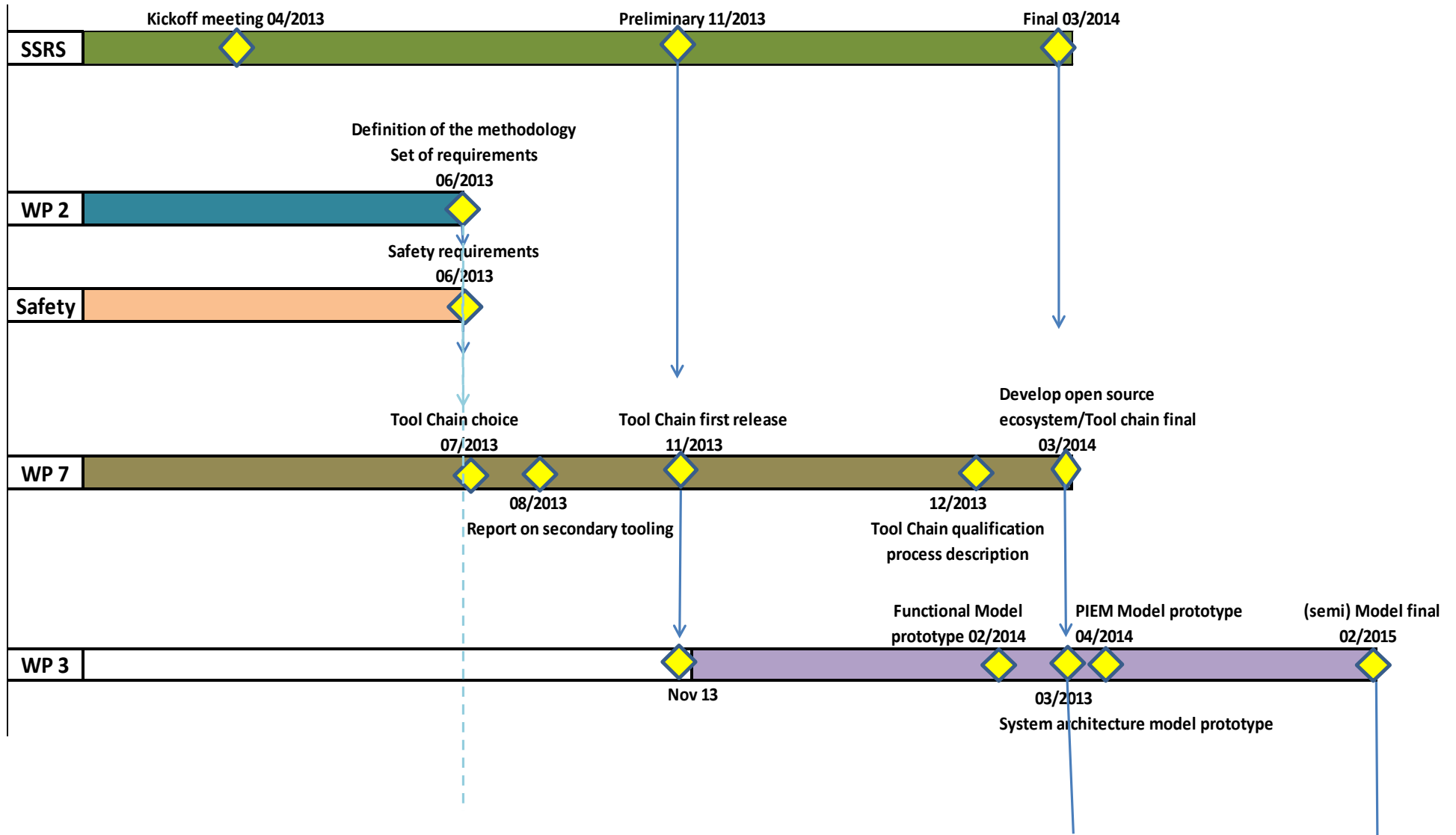
## Organize Work – Meetings

- 4 day meeting in Munich – end of October
- Weekly Telco/ Daily Warm up
- Come together today after the QA Plan review
- Next come together - Thursday 10th of October in Brunswick

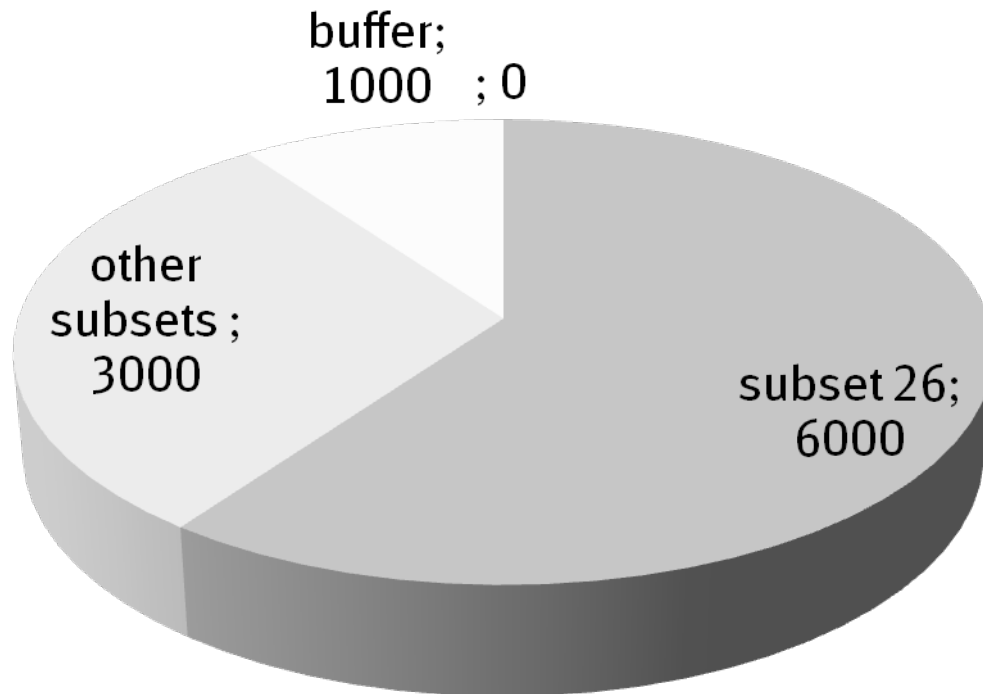
## List to do's by priority

1. High level and Bottom Up Functional Structure (Merging and discussing Jan Welte and Jan Welvaarts work)
2. Finding parts of the SRS which can be modelled directly
3. Evaluating of first version ProR
4. Data dictionary (EFS)
5. Assigning functions to the modeller [creation of a Backlog]

# Timeline



## Example for rewriting and modeling the TSI for the (OBU - SSRS)



- 6 months for the preliminary version
- 10 months for the final version
- Approximately workload 10000 req. for preliminary SSRS SysML
- (15 req. per person day)
- 700 person days estimated effort
- 3,5 person for 10 months
- 2,9 PY



**Task 1: delivering of the Primary sources and the ERTMS knowledge from the industry and the operator.**

**Task 2: Functional Analysis**

**Task 3: Documentation of the openETCS System Boundary**

**Task 4: linked with V&V**

# Resources

