Prima	ary Tool Chain Analyses and Recommendations	Duration	(Complete?
Identi	ify and define the potential means of description	6 months	Jan-2013	- Jul-2013
→	D2.1: Report on existing methodologies	Jan-2013	T0+7	yes
→	D2.5: Methods and tools benchmarking methodology	Feb-2013	T0+8	yes
→	D2.6a: Set of requirements for the model used and the modeling process (preliminary)	Jan-2013	T0+7	yes
→	D2.6b: Set of requirements for the model used and the modeling process (intermediate)	Mar-2013	T0+9	yes
→	D2.6c: Set of requirements for the model used and the modeling process (intermediate)	May-2013	T0+11	no
←	O7.1.1 Formal Model representing the sample spec, one for each candidate	May-2013	T0+11	partially
←	means of description used (if any)	Jun-2013	T0+12	no
←	requirements	Jul-2013	T0+13	no
←	choice(s)	Jul-2013	T0+13	no
Identi				
\rightarrow				yes
-				yes
-				yes
-		May-2013	T0+11	no
→	ogy	Feb-2013	T0+8	yes
-	type	Jun-2013	T0+12	no
←	(if any)	Jun-2013	T0+12	no
	quirements	Jul-2013	T0+13	no
		Jui-2013	10+13	no
_	tool chain (means of description, tool and platform)	Jul-2013	T0+13	no
	· · · · · · · · · · · · · · · · · · ·			
		Jan-2013	10+7	yes
→	ogy	Feb-2013	T0+8	yes
-				yes
\rightarrow				yes
→	D2.8c: Set of requirements for the tools used:	May-2013	T0+11	no
←	WP2 requirements, independent of target tool	Jul-2013	T0+13	no
-	specific target tools	Jul-2013	T0+13	no
←	O7.1.11 Selection of Tool Platform (and reasoning)	Jul-2013	T0+13	no
	Identi	 D2.5: Methods and tools benchmarking methodology D2.6a: Set of requirements for the model used and the modeling process (preliminary) D2.6b: Set of requirements for the model used and the modeling process (intermediate) D2.6c: Set of requirements for the model used and the modeling process (intermediate) O7.1.1 Formal Model representing the sample spec, one for each candidate O7.1.2 Documentation of the changes to each means of description used (if any) O7.1.3 Evaluation of the models against the WP2 requirements O7.1.4 Decision on the final means of description choice(s) Identify and compare existing modelling tools D2.1: Report on existing methodologies D2.8c: Set of requirements for the tools used: D2.8c: Set of requirements for the tools used: D2.5: Methods and tools benchmarking methodology O7.1.5 Evaluation of tool and model for each prototype O7.1.6 Documentation of the changes to each tool (if any) O7.1.7 Evaluation of the tools against the WP2 requirements O7.1.8 Decision on the final tool choice(s) D D7.1 Report on the final choice(s) for the primary tool chain (means of description, tool and platform) Identify the tool platform D2.1: Report on existing methodologies D2.2: Methods and tools benchmarking methodology D2.5: Methods and tools benchmarking methodology D2.8a: Set of requirements for the tools used: D2.8c: Set of requirements for the tools used: O7.1.10 Evaluation of each tool platform in the context of specific target tools 	Description Description	Identify and define the potential means of description D2.1: Report on existing methodologies D2.5: Methods and tools benchmarking methodology D2.6a: Set of requirements for the model used and the modeling process (preliminary) D2.6b: Set of requirements for the model used and the modeling process (intermediate) D2.6c: Set of requirements for the model used and the modeling process (intermediate) D2.6c: Set of requirements for the model used and the modeling process (intermediate) May-2013 T0+9

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.2 S	Secondary Tools Analyses and Recommendations			Complete?
	dentify and define the supporting tools and methods	7 months		- Sep-2013
	→ D2.1: Report on existing methodologies	Jan-2013	T0+7	yes
	→ D2.5: Methods and tools benchmarking methodology			
	,	Feb-2013	T0+8	yes
	→ D2.9a: Set of requirements for the verification and			
	validation process:	Jan-2013	T0+7	yes
	→ D2.9b: Set of requirements for the verification and			
	validation process:	Mar-2013	T0+9	yes
	→ D2.9c: Set of requirements for the verification and	May-2013	T0+11	
	validation process:	May-2013	10+11	no
	 D2.3: Definition of the overall process for the formal description of ETCS and the rail system it works in 	Feb-2013	T0+8	yes
	→ D2.4: Definition of the methods used to perform the	1 CD 2010	10.0	yes
	formal description	Sep-2013	T0+15	no
	→ D2.8a: Set of requirements for the tools used:	Jan-2013	T0+7	yes
	→ D2.8b: Set of requirements for the tools used:	Mar-2013	T0+9	yes
	→ D2.8c: Set of requirements for the tools used:	May-2013	T0+11	no
	→ I:O7.1.4: Decision of the final choice for the core			
	language	Jul-2013	T0+13	no
	 O7.2.1 Evaluation of supporting tools and methods 			
	against the WP2 requirements and task 1 choices	Aug-2013	T0+14	no
	 O7.2.2 Decision on the supporting tools choice(s) 	Aug-2013	T0+14	no
	D D7.2 Report on all aspects of secondary tooling (re-			
	sults of T7.2)	Sep-2013	T0+15	no
17.2.2 N	Model Transformation and Code Generation	8 months		- Sep-2013
	→ D2.7a: Set of requirements for API:	Jan-2013	T0+7	yes
	→ D2.7b: Set of requirements for API: D2.7b: Set of requirements for API:	Mar-2013	T0+9	yes
	→ D2.7c: Set of requirements for API:	May-2013	T0+11	no
	→ I:O7.1.4: Decision of the final choice for the primary	Jul-2013	T0+13	no
	means of description ← O7.2.3 Model Transformation Strategy	Sep-2013	T0+15	no
	← O7.2.4 Code Generation Strategy	Sep-2013	T0+15	no
T723 E	Requirement traceability	8 months		- Sep-2013
11.2.0	→ D2.8a: Set of requirements for the tools used:	Jan-2013	T0+7	yes
	→ D2.8b: Set of requirements for the tools used:	Mar-2013	T0+9	yes
	→ D2.8c: Set of requirements for the tools used:	May-2013	T0+11	no
	→ I:O7.1.4: Decision of the final choice for the primary	may Lozo	.0.11	
	means of description	Jul-2013	T0+13	no
	O7.2.5 Requirement management tool choices	Sep-2013	T0+15	no
T7.2.4 V	alidation and Verification Tools	6 months	Jan-2013	
	→ D2.9: Set of requirements for the verification and			
	validation process:	Jan-2013	T0+7	yes
	→ O4_WP3_T2 WP3 formalized API	Apr-2013	T0+10	no
	→ D.4.1 VnV Plan & Methodology	Apr-2013	T0+10	no
	← O7.2.6 V&V tool choice	Jul-2013	T0+13	no
	← O7.2.7 Test automation tool choice with experience		***	
	report	Jul-2013	T0+13	no
17.2.5 S	Safety analyses Tools	7 months	Jan-2013	- Sep-2013
	→ D2.6a: Set of requirements for the model used and	lon 2010	TO: 7	
	the modeling process:	Jan-2013	T0+7	yes
	D2.6b: Set of requirements for the model used and	Mor 2012	TO+0	V00
	the modeling process:	Mar-2013	T0+9	yes
	D2.6c: Set of requirements for the model used and the modeling process:	May-2013	T0+11	no
	the modeling process: → D.4.3.3 Report on the prototypical application of the	Way-2013	10+11	110
	V&V tool chain and processes	Apr-2013	T0+10	no
	← O7.2.8 Safety analyses tools choices	Sep-2013	T0+15	no

T7.3	Define and Develop Tool Chain			Complete?
	Overall Tool Architecture	6 months	May-2013	- Nov-2013
	→ I:O7.1.1: Formal Model representing the sample			
	spec, one for each candidate	May-2013	T0+11	no
	→ I:O7.1.2 Documentation of the changes to each			
	means of description used (if any)	Jun-2013	T0+12	no
	→ I:O7.1.4 Decision on the final means of description			
	choice(s)	Jul-2013	T0+13	no
	\rightarrow I:O7.1.3: Evaluation of the models against the WP2			
	requirements	Jul-2013		no
	→ I:O7.1.8 Decision on the final tool choice(s)	Jul-2013		no
	→ I:O7.1.11: Selection of Tool Platform	Jul-2013		no
	→ I:O7.2.6: Verification and test tool choice(s)	Jul-2013		no
	 O7.3.1 Tool chain development plan (or equivalent) 	Sep-2013	T0+15	no
	 O7.3.2 Specification of tool interoperability mecha- 			
	nisms	Oct-2013	T0+16	no
	 O7.3.3 Guideline for developing the tool chain ac- 			
TT 0 0	cording to CELENEC	Nov-2013		no
17.3.2	Development Infrastructure	8 months	Jan-2013	- Sep-2013
	→ D2.4: Definition of the methods used to perform the	Can 2012	TO . 1 F	
	formal description	Sep-2013		no
	→ I:O7.2.5: Requirement management tool choices	Sep-2013	T0+15	no
	→ WP1-7: Feedback from project partners (All WPS)	continuous		
	→ D2.2a: Set of requirements to be fulfilled according	lan 2012	T0 . 7	
	to CENELEC standards (state-of-the-art)	Jan-2013	T0+7	yes
	→ D2.2b: Set of requirements to be fulfilled according	Mar-2013	T0+9	yes
	to CENELEC standards (state-of-the-art)	WIGH-2013	10+9	yes
	 O7.3.4 Specification of primary and support tool chain architecture and its embedding into the plat- 			
	form	Sep-2013	T0+15	no
	← O7.3.5 Infrastructure evolution strategy	Sep-2013		no
	O7.3.6 Tool chain infrastructure maintenance	continuous	10113	110
T7 2 2	Decomposition and Distribution of work		Jul-2013	- Jan-2014
17.0.0	→ I:O7.1.8 Decision on the final tool choice(s)	Jul-2013		no
	→ I:O7.1.18 Decision on the linal tool choice(s) → I:O7.1.11: Selection of Tool Platform	Jul-2013		no
		Sep-2013		no
	→ I:O7.3.4: Infrastructure evolution strategy	3ep-2013	10+15	110
	 WP1-7: Bugs report and feedback from project partners (All WPS) 	continuous		
	O7.3.7 Tool chain qualification test suite	Dec-2013	T0+18	no
	O7.3.8 Tool chain qualification test suite O7.3.8 Tool chain maintenance and debug	continuous	10+10	110
	D D7.3 Tool Chain Qualification Process Description	Jan-2014		
T7.3.4	Tool chain development			- Feb-2014
17.5.4	→ I:O7.3.1 Tool chain development plan (or equivalent)			no
			10+13	110
	→ I:O7.3.2 Specification of tool interoperability mechanisms	Oct-2013	T0+16	no
	nisms	Sep-2013		no
	 → I:O7.3.4: Infrastructure evolution strategy → I:O7.3.6 Tool chain qualification test suite 	Dec-2013		no
		Dec-2013	10+10	110
	 WP1-7: Bugs report and feedback from project partners (All WPS) 	continuous		
		continuous		
	← O7.3.9 Tool chain releases	Feb-2014	T0+20	no
	D D7.4 Tool chain first release	ren-2014	10+20	110

Feedback from project partners (All WPS) WP1: Requirements for the open source ecosystem continuous WP1: Legal decisions CO7.4.1 Initial proposal for license model O7.4.2 Initial proposal for open source development process O7.4.3 Initial proposal for infrastructure and tools O7.4.4 Adaptation of license model O7.4.5 Adaptation of open source development process O7.4.6 Adaptation of infrastructure and tools O7.5 Ecosystem Artefacts: Proposed Terms of use Proposed Committer Agreements Proposed Development Process Description Development Process Guidelines Infrastructure Documentation Infrastructure Template Evolution Report of previous Deliverables	 → Feedback from project partners (All WPS) continuous → WP1: Requirements for the open source ecosystem continuous → WP1: Legal decisions continuous ← O7.4.1 Initial proposal for license model Aug-2012 T0+2 yes process ← O7.4.2 Initial proposal for open source development Aug-2012 T0+2 yes process ← O7.4.3 Initial proposal for infrastructure and tools Aug-2012 T0+2 yes ← O7.4.4 Adaptation of license model continuous ← O7.4.5 Adaptation of open source development continuous process ← O7.4.6 Adaptation of infrastructure and tools continuous D D7.5 Ecosystem Artefacts: Jun-2015 T0+36 no Proposed Terms of use Proposed Committer Agreements Proposed IP Policy Proposed Development Process Description Development Process Guidelines Infrastructure Documentation Infrastructure Template 	Develop Open Source Ecosystem Co				
 → WP1: Requirements for the open source ecosystem continuous → WP1: Legal decisions ← O7.4.1 Initial proposal for license model ← O7.4.2 Initial proposal for open source development process ← O7.4.3 Initial proposal for infrastructure and tools ← O7.4.4 Adaptation of license model ← O7.4.5 Adaptation of open source development continuous ← O7.4.6 Adaptation of infrastructure and tools D D7.5 Ecosystem Artefacts: − Proposed Terms of use − Proposed Committer Agreements − Proposed Development Process Description − Development Process Guidelines − Infrastructure Template 	 → WP1: Requirements for the open source ecosystem continuous → WP1: Legal decisions ← O7.4.1 Initial proposal for license model ← O7.4.2 Initial proposal for open source development ← O7.4.3 Initial proposal for infrastructure and tools ← O7.4.4 Adaptation of license model ← O7.4.5 Adaptation of open source development continuous ← O7.4.6 Adaptation of infrastructure and tools ► O7.4.6 Adaptation of infrastructure and tools D D7.5 Ecosystem Artefacts: ← Proposed Terms of use ← Proposed Committer Agreements ← Proposed Development Process Description ← Development Process Guidelines ← Infrastructure Documentation ← Infrastructure Template 			34 months	Aug-2012	Jun-2015
→ WP1: Legal decisions ← O7.4.1 Initial proposal for license model ← O7.4.2 Initial proposal for open source development process ← O7.4.3 Initial proposal for infrastructure and tools ← O7.4.4 Adaptation of license model ← O7.4.5 Adaptation of open source development process ← O7.4.6 Adaptation of infrastructure and tools D D7.5 Ecosystem Artefacts: − Proposed Terms of use − Proposed Committer Agreements − Proposed Development Process Description − Development Process Guidelines − Infrastructure Template	 → WP1: Legal decisions ← O7.4.1 Initial proposal for license model ← O7.4.2 Initial proposal for open source development Aug-2012 ← O7.4.2 Initial proposal for open source development Aug-2012 ← O7.4.3 Initial proposal for infrastructure and tools ← O7.4.4 Adaptation of license model ← O7.4.5 Adaptation of open source development continuous process ← O7.4.6 Adaptation of infrastructure and tools D D7.5 Ecosystem Artefacts: ← Proposed Terms of use ← Proposed Committer Agreements ← Proposed Development Process Description − Development Process Guidelines − Infrastructure Documentation − Infrastructure Template 	\rightarrow	Feedback from project partners (All WPS)	continuous		
 ← O7.4.1 Initial proposal for license model ← O7.4.2 Initial proposal for open source development process ← O7.4.3 Initial proposal for infrastructure and tools ← O7.4.4 Adaptation of license model ← O7.4.5 Adaptation of open source development process ← O7.4.6 Adaptation of infrastructure and tools ← O7.4.6 Adaptation of infrastructure and tools D D7.5 Ecosystem Artefacts: − Proposed Terms of use − Proposed Committer Agreements − Proposed Development Process Description − Development Process Guidelines − Infrastructure Documentation − Infrastructure Template 	 O7.4.1 Initial proposal for license model O7.4.2 Initial proposal for open source development process O7.4.3 Initial proposal for infrastructure and tools O7.4.4 Adaptation of license model O7.4.5 Adaptation of open source development continuous process O7.4.6 Adaptation of infrastructure and tools D7.5 Ecosystem Artefacts: Proposed Terms of use Proposed Committer Agreements Proposed Development Process Description Development Process Guidelines Infrastructure Template 	\rightarrow				
 ← O7.4.2 Initial proposal for open source development process ← O7.4.3 Initial proposal for infrastructure and tools ← O7.4.4 Adaptation of license model continuous ← O7.4.5 Adaptation of open source development process ← O7.4.6 Adaptation of infrastructure and tools continuous D D7.5 Ecosystem Artefacts: Jun-2015 T0+36 no − Proposed Terms of use − Proposed Committer Agreements − Proposed Development Process Description − Development Process Guidelines − Infrastructure Documentation − Infrastructure Template 	 ← O7.4.2 Initial proposal for open source development Aug-2012 T0+2 yes process ← O7.4.3 Initial proposal for infrastructure and tools Aug-2012 T0+2 yes ← O7.4.4 Adaptation of license model continuous ← O7.4.5 Adaptation of open source development process ← O7.4.6 Adaptation of infrastructure and tools continuous D D7.5 Ecosystem Artefacts: Jun-2015 T0+36 no Proposed Terms of use Proposed Committer Agreements Proposed IP Policy Proposed Development Process Description Development Process Guidelines Infrastructure Documentation Infrastructure Template 	\rightarrow				
process Cor.4.3 Initial proposal for infrastructure and tools Or.4.4 Adaptation of license model Or.4.5 Adaptation of open source development process Or.4.6 Adaptation of infrastructure and tools Dr.5 Ecosystem Artefacts: Proposed Terms of use Proposed Committer Agreements Proposed IP Policy Proposed Development Process Description Development Process Guidelines Infrastructure Documentation Infrastructure Template	process ← O7.4.3 Initial proposal for infrastructure and tools Aug-2012 T0+2 yes ← O7.4.4 Adaptation of license model continuous ← O7.4.5 Adaptation of open source development process ← O7.4.6 Adaptation of infrastructure and tools continuous D D7.5 Ecosystem Artefacts: Jun-2015 T0+36 no - Proposed Terms of use - Proposed Committer Agreements - Proposed IP Policy - Proposed Development Process Description - Development Process Guidelines - Infrastructure Documentation - Infrastructure Template	←	• •	Aug-2012	T0+2	yes
 ← O7.4.4 Adaptation of license model ← O7.4.5 Adaptation of open source development process ← O7.4.6 Adaptation of infrastructure and tools D D7.5 Ecosystem Artefacts: − Proposed Terms of use − Proposed Committer Agreements − Proposed IP Policy − Proposed Development Process Description − Development Process Guidelines − Infrastructure Documentation − Infrastructure Template 	 ← O7.4.4 Adaptation of license model ← O7.4.5 Adaptation of open source development process ← O7.4.6 Adaptation of infrastructure and tools D D7.5 Ecosystem Artefacts: ← Proposed Terms of use ← Proposed Committer Agreements ← Proposed IP Policy ← Proposed Development Process Description ← Development Process Guidelines ← Infrastructure Documentation ← Infrastructure Template 	←	· · · · · · · · · · · · · · · · · · ·	Aug-2012	T0+2	yes
 O7.4.5 Adaptation of open source development process O7.4.6 Adaptation of infrastructure and tools D7.5 Ecosystem Artefacts: Jun-2015 T0+36 no - Proposed Terms of use - Proposed Committer Agreements - Proposed IP Policy - Proposed Development Process Description - Development Process Guidelines - Infrastructure Documentation - Infrastructure Template 	 O7.4.5 Adaptation of open source development process O7.4.6 Adaptation of infrastructure and tools D7.5 Ecosystem Artefacts: Jun-2015 T0+36 no Proposed Terms of use Proposed Committer Agreements Proposed IP Policy Proposed Development Process Description Development Process Guidelines Infrastructure Documentation Infrastructure Template 	←	O7.4.3 Initial proposal for infrastructure and tools	Aug-2012	T0+2	yes
process O7.4.6 Adaptation of infrastructure and tools continuous D D7.5 Ecosystem Artefacts: Jun-2015 T0+36 no Proposed Terms of use Proposed Committer Agreements Proposed IP Policy Proposed Development Process Description Development Process Guidelines Infrastructure Documentation Infrastructure Template	process O7.4.6 Adaptation of infrastructure and tools continuous D D7.5 Ecosystem Artefacts: Jun-2015 T0+36 no Proposed Terms of use Proposed Committer Agreements Proposed IP Policy Proposed Development Process Description Development Process Guidelines Infrastructure Documentation Infrastructure Template	←	O7.4.4 Adaptation of license model	continuous		
D D7.5 Ecosystem Artefacts: Jun-2015 T0+36 no - Proposed Terms of use - Proposed Committer Agreements - Proposed IP Policy - Proposed Development Process Description - Development Process Guidelines - Infrastructure Documentation - Infrastructure Template	D D7.5 Ecosystem Artefacts: Jun-2015 T0+36 no - Proposed Terms of use - Proposed Committer Agreements - Proposed IP Policy - Proposed Development Process Description - Development Process Guidelines - Infrastructure Documentation - Infrastructure Template	←	· · · · · · · · · · · · · · · · · · ·	continuous		
 Proposed Terms of use Proposed Committer Agreements Proposed IP Policy Proposed Development Process Description Development Process Guidelines Infrastructure Documentation Infrastructure Template 	 Proposed Terms of use Proposed Committer Agreements Proposed IP Policy Proposed Development Process Description Development Process Guidelines Infrastructure Documentation Infrastructure Template 	←	O7.4.6 Adaptation of infrastructure and tools	continuous		
)	 Proposed Terms of use Proposed Committer Agreements Proposed IP Policy Proposed Development Process Description Development Process Guidelines Infrastructure Documentation Infrastructure Template 	Jun-2015	T0+36	no

Instructions

- This spreadsheet lists the inputs, outputs and deliverables, grouped by Task
- Every time you make changes, you must generate a PDF. (This PDF is incorporated into the DoW)
- Also regenerate the DoW (using Latex), to make sure it contains the updated information.