T7.1	Prima	ry Tool Chain Analyses and Recommendations	Duration	C	omplete?
T7.1.1	Identif	y and define the potential means of description	6 months	Jan-2013 -	Jul-2013
	\rightarrow	D2.1: Report on existing methodologies	Jan-2013	T0+7	no
	\rightarrow	D2.5: Methods and tools benchmarking methodology	Feb-2013	T0+8	no
	\rightarrow	D2.6: Set of requirements for the model used and the modeling process:	Jan-2013	T0+7	no
	\rightarrow	D2.8: Set of requirements for the tools used:	Jan-2013	T0+7	no
	←	O7.1.1 Formal Model representing the sample spec, one for each candidate	May-2013	T0+11	no
	←	O7.1.2 Documentation of the changes to each means of description used (if any)	Jun-2013	T0+12	no
	←	O71.3 Evaluation of the models against the WP2 requirements	Jul-2013	T0+13	no
	←	O7.1.4 Decision on the final means of description choice(s)	Jul-2013	T0+13	no
T7.1.2	Identif	y and compare existing modelling tools	6 months	Jan-2013 -	Jul-2013
	\rightarrow	D2.1: Report on existing methodologies	Jan-2013	T0+7	no
	\rightarrow	D2.8: Set of requirements for the tools used:	Jan-2013	T0+7	no
	\rightarrow	D2.5: Methods and tools benchmarking methodology	Feb-2013	T0+8	no
	←	O7.1.5 Evaluation of tool and model for each prototype	Jun-2013	T0+12	no
	←	O7.1.6 Documentation of the changes to each tool (if any)	Jun-2013	T0+12	no
	←	O7.1.7 Evaluation of the tools against the WP2 requirements	Jul-2013	T0+13	no
	\leftarrow	O7.1.8 Decision on the final tool choice(s)	Jul-2013	T0+13	no
	D	D7.1 Report on the final choice(s) for the primary tool chain (means of description, tool and platform)	Jul-2013	T0+13	no
T7.1.3	Identif	y the tool platform	6 months		Jul-2013
	\rightarrow	D2.1: Report on existing methodologies	Jan-2013	T0+7	no
	\rightarrow	D2.5: Methods and tools benchmarking methodology	Feb-2013	T0+8	no
	\rightarrow	D2.8: Set of requirements for the tools used:	Jan-2013	T0+7	no
	←	O7.1.9 Evaluation of each tool platform against WP2 requirements, independent of target tool	Jul-2013	T0+13	no
	\leftarrow	O7.1.10 Evaluation of tool platform in the context of specific target tools	Jul-2013	T0+13	no
	←	O7.1.11 Selection of Tool Platform (and reasoning)	Jul-2013	T0+13	no

T7.2.1 Identify and define the supporting tools and methods → D2.1: Report on existing methodologies → D2.5: Methods and tools benchmarking methodology → D2.9: Set of requirements for the verification and validation process: → D2.3: Definition of the overall process for the formal description of ETCS and the rail system it works in → D2.4: Definition of the methods used to perform the formal description → I:O7.1.4: Decision of the final choice for the core language ← O7.2.1 Evaluation of supporting tools and methods against the WP2 requirements and task 1 choices ← O7.2.2 Decision on the supporting tools choice(s) D D7.2 Report on all aspects of secondary tooling (results of T7.2) T7.2.2 Model Transformation and Code Generation → D2.7: Set of requirements for API: → D2.7: Set of requirements for RAPI: → D7.2.3 Model Transformation Strategy → O7.2.4 Code Generation Strategy T7.2.3 Requirement traceability → 2.8: Set of requirements for the tools used: → I:O7.1.4: Decision of the final choice for the primary means of description ← O7.2.5 Captured and organized designer requirements → D2.9: Set of requirements for the verification and validation process: → D4.3: Namely and verification Tools → D4.4: Validation and Verification Tools → D4.4: Validation and Verification Tools → D4.7: Test automation tool choice with experience report T7.2.5 Safety analyses Tools → D4.3: Report on the prototypical application of the V&V tool choice portions the very the prototypical application of the V&V tool choice sees the ince.	T7.2	Secondary Tools Analyses and Recommendations		(Complete?
D2.5: Methods and tools benchmarking methodology → D2.9: Set of requirements for the verification and validation process: D2.3: Definition of the overall process for the formal description of ETCS and the rail system it works in D2.4: Definition of the methods used to perform the formal description I:07.1.4: Decision of the final choice for the core language C77.2.1 Evaluation of supporting tools and methods against the WP2 requirements and task 1 choices C77.2.2 Decision on the supporting tools choice(s) D D7.2 Report on all aspects of secondary tooling (results of T7.2) T7.2.2 Model Transformation and Code Generation D D2.7: Set of requirements for API: C77.2.4 Code Generation Strategy C77.2.4 Code Generation Strategy C77.2.4 Code Generation Strategy D D2.8: Set of requirements for the tools used: D D7.2.5 Captured and organized designer requirements of description D D2.9: Set of requirements for the verification and validation process: D D.4.1 VnV Plan & Methodology C77.2.5 Safety analyses Tools D D.4.3 Report on the prototypical application of the V&V tool chain and processes D D.4.3.3 Report on the prototypical application of the Apr-2013 D D.4.3.3 Report on the prototypical application of the Apr-2013 D D.4.4 Dr.4.3 To H1 T0+7 no T0+8 no Feb-2013 T0+8 no Feb-2013 T0+8 no Feb-2013 T0+14 no D+2013 T0+14 no Aug-2013 T0+15 no Sep-2013 T0+15 no Apr-2013 - T0+15 no Apr-2013 - T0+15 no D-2.5 Captured and organized designer requirements T0-7.2.5 Captured and organized designer requirements T0-7.7 Test automation tool choice with experience report D-4.1 VnV Plan & Methodology C7.2.6 V&V tool choice C7.2.7 Test automation tool choice with experience report D-4.3.3 Report on the prototypical application of the Apr-2013 D-4.1 VnO Plan & Methodology Apr-2013 D-4.3.3 Report on the prototypical applica	T7.2.1	Identify and define the supporting tools and methods	7 months	Jan-2013 -	Aug-2013
ogy → D2.9: Set of requirements for the verification and validation process: → D2.3: Definition of the overall process for the formal description of ETCS and the rail system it works in → D2.4: Definition of the methods used to perform the formal description → I:O7.1.4: Decision of the final choice for the core language ← O7.2.1 Evaluation of supporting tools and methods against the WP2 requirements and task 1 choices ← O7.2.2 Decision on the supporting tools choice(s) D D7.2 Report on all aspects of secondary tooling (results of T7.2) T7.2.2 Model Transformation and Code Generation → D2.7: Set of requirements for API: → I:O7.1.4: Decision of the final choice for the primary means of description ← O7.2.3 Model Transformation Strategy ← O7.2.4 Code Generation Strategy → D7.2.5 Set of requirements for the tools used: → I:O7.1.4: Decision of the final choice for the primary means of description ← O7.2.5 Captured and organized designer requirements T0.7.1.4: Decision of the final choice for the primary means of description ← O7.2.5 Captured and organized designer requirements Sep-2013 T0+15 no T0+7 no T0+8 no T0+8 no T0+8 no T0+8 no T0+13 no Feb-2013 T0+14 no Aug-2013 T0+14 no Aug-2013 T0+15 no Sep-2013 T0+15 no Sep-2013 T0+15 no Sep-2013 T0+15 no E0.7.2.3 Model Transformation Strategy E0.7.2.4 Code Generation Strategy E0.7.2.5 Captured and organized designer requirements for the tools used: → I:O7.1.4: Decision of the final choice for the primary means of description ← O7.2.5 Captured and organized designer requirements Sep-2013 T0+15 no E0.7.2.5 Captured and organized designer requirements Sep-2013 T0+15 no E0.7.2.6 WP3 T0 WP3 formalized API Apr-2013 T0+10 no → D4.4 VNV Plan & Methodology Apr-2013 T0+10 no ← O7.2.7 Test automation tool choice with experience report F0.7.2.5 Set of requirements for the model used and the modeling process: → D4.4.3.3 Report on the prototypical application of the Apr-2013 T0+10 no		→ D2.1: Report on existing methodologies	Jan-2013	T0+7	no
→ D2.9: Set of requirements for the verification and validation process: → D2.3: Definition of the overall process for the formal description of ETCS and the rail system it works in → D2.4: Definition of the methods used to perform the formal description → I:O7.1.4: Decision of the final choice for the core language ← O7.2.1 Evaluation of supporting tools and methods against the WP2 requirements and task 1 choices ← O7.2.2 Decision on the supporting tools choice(s) D D7.2 Report on all aspects of secondary tooling (results of T7.2) T7.2.2 Model Transformation and Code Generation → I:O7.1.4: Decision of the final choice for the primary means of description ← O7.2.3 Model Transformation Strategy ← O7.2.4 Code Generation Strategy Formal Transformation Strategy → C7.2.4 Code Generation Strategy → C7.2.4 Code Generation Strategy → 2.8: Set of requirements for the tools used: → I:O7.1.4: Decision of the final choice for the primary means of description ← O7.2.5 Captured and organized designer requirements T7.2.4 Validation and Verification Tools → D2.9: Set of requirements for the verification and validation process: → Q.4. WP3. T2 WP3 formalized API → D.4.1 VnV Plan & Methodology ← O7.2.6 T Fest automation tool choice with experience report T7.2.5 Safety analyses Tools → D.4.3.3 Report on the prototypical application of the WaV tool chain and processes → D.4.3.3 Report on the prototypical application of the WaV tool chain and processes		→ D2.5: Methods and tools benchmarking methodol-			
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T7.2.2 Model Transformation and Code Generation → D2.7: Set of requirements for API: → I:O7.1.4: Decision of the final choice for the primary means of description ← O7.2.3 Model Transformation Strategy ← O7.2.4 Code Generation Strategy Fraction Strategy → D2.8: Set of requirements for the tools used: → 1:O7.1.4: Decision of the final choice for the primary means of description ← O7.2.5 Captured and organized designer requirements T7.2.4 Validation and Verification Tools → D2.9: Set of requirements for the verification and validation process: → O4_WP3_T2 WP3 formalized API → D.4.1 VnV Plan & Methodology ← O7.2.6 V&V tool choice ← O7.2.7 Test automation tool choice with experience report T7.2.5 Safety analyses Tools → D2.6: Set of requirements for the model used and the modeling process: → D.4.3.3 Report on the prototypical application of the V&V tool chain and processes Apr-2013 T0+7 T0+7 T0+15 T0+7 T0+15 T0+7			Sen-2013	T0+15	no
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→ I:O7.1.4: Decision of the final choice for the primary means of description ← O7.2.3 Model Transformation Strategy Fig. 3 Requirement traceability Fig. 3 Requirement traceability Fig. 4 Decision of the final choice for the primary means of description Fig. 4 Decision of the final choice for the primary means of description Fig. 4 Decision of the final choice for the primary means of description Fig. 4 Decision of the final choice for the primary means of description Fig. 5 Decision of the final choice for the primary means of description Fig. 6 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice for the primary means of description Fig. 7 Decision of the final choice fo					
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 O7.2.3 Model Transformation Strategy O7.2.4 Code Generation Strategy Sep-2013 T0+15 T0+17 Sep-2013 T0+7 T0+7 T0+7 T0+7 T0+7 T0+7 T0+13 T0+13 T0+15 T0+15 T0+15 T0+15 T0+15 T0+15 T0+15 T0+15 T0 T0+7 T0 T0+7 T0 T0+7 T0 T0+10 T0 T0+10 T0+10 T0+13 T0+13			Jul-2013	T0+13	no
T7.2.4 Code Generation Strategy Fig. 2.8 Set of requirements for the tools used: → 2.8: Set of requirements for the tools used: → 1:07.1.4: Decision of the final choice for the primary means of description ← 07.2.5 Captured and organized designer requirements Fig. 2.4 Validation and Verification Tools → D2.9: Set of requirements for the verification and validation process: → 04_WP3_T2 WP3 formalized API → D.4.1 VnV Plan & Methodology ← 07.2.6 V&V tool choice ← 07.2.7 Test automation tool choice with experience report T7.2.5 Safety analyses Tools → D.4.3.3 Report on the prototypical application of the V&V tool chain and processes → Apr-2013 T0+15 no T0+7 no T0+7 T0+7 T0+13 T0+					
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T7.2.4 Validation and Verification Tools 6 months Jan-2013 - Jul-2013 → D2.9: Set of requirements for the verification and validation process: Jan-2013 T0+7 no → 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 T7.2.5 Safety analyses Tools 7 months Jan-2013 - Sep-2013 → D.4.3.3 Report on the prototypical application of the V&V tool chain and processes Apr-2013 T0+7 no			Sep-2013	T0+15	no
 → D2.9: Set of requirements for the verification and validation process: → O4_WP3_T2 WP3 formalized API → D.4.1 VnV Plan & Methodology ← O7.2.6 V&V tool choice ← O7.2.7 Test automation tool choice with experience report T7.2.5 Safety analyses Tools → D2.6: Set of requirements for the model used and the modeling process: → D.4.3.3 Report on the prototypical application of the V&V tool chain and processes T0+7 no T0+7 no T0+7 no T0+7 no T0+7 no T0+7 no 	T7.2.4			Jan-201 <u>3</u> -	
validation process: → O4_WP3_T2 WP3 formalized API → D.4.1 VnV Plan & Methodology ← O7.2.6 V&V tool choice ← O7.2.7 Test automation tool choice with experience report T7.2.5 Safety analyses Tools → D2.6: Set of requirements for the model used and the modeling process: → D.4.3.3 Report on the prototypical application of the V&V tool chain and processes T0+7 no T0+10 no T0+13 no T0+13 no T0+13 no T0+13 no T0+13 no T0+13 no T0+7 no Apr-2013 T0+7 no					
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report T7.2.5 Safety analyses Tools D2.6: Set of requirements for the model used and the modeling process: D4.4.3.3 Report on the prototypical application of the V&V tool chain and processes Apr-2013 T0+13 no 7 months Jan-2013 - Sep-2013 T0+7 no Apr-2013 T0+10 no			Jul-2013	T0+13	no
report Jul-2013 T0+13 no T7.2.5 Safety analyses Tools 7 months Jan-2013 - Sep-2013 D2.6: Set of requirements for the model used and the modeling process: D.4.3.3 Report on the prototypical application of the V&V tool chain and processes Apr-2013 T0+10 no		← O7.2.7 Test automation tool choice with experience			
 → D2.6: Set of requirements for the model used and the modeling process: → D.4.3.3 Report on the prototypical application of the V&V tool chain and processes Apr-2013 T0+7 no 			Jul-2013	T0+13	no
 → D2.6: Set of requirements for the model used and the modeling process: → D.4.3.3 Report on the prototypical application of the V&V tool chain and processes Apr-2013 T0+7 no 	T7.2.5		7 months	Jan-2013 -	Sep-2013
→ D.4.3.3 Report on the prototypical application of the V&V tool chain and processes Apr-2013 T0+10 no					
V&V tool chain and processes Apr-2013 T0+10 no			Jan-2013	T0+7	no
Total test street processes					
O7 2 9 Cofety analyses tools shales Son 2013 T0±15 no					
← 07.2.6 Safety analyses tools choices 3ep-2013 10+13 110		← O7.2.8 Safety analyses tools choices	Sep-2013	T0+15	no

T7.3	Defin	ne and Develop Tool Chain			Complete?
		all Tool Architecture	6 months	May-2013	- Nov-2013
-	\rightarrow	I:O7.1.1: Formal Model representing the sample			
		spec, one for each candidate	May-2013	T0+11	no
	\rightarrow	I:O7.1.2 Documentation of the changes to each	l 0040	T0.40	
		means of description used (if any)	Jun-2013	T0+12	no
	\rightarrow	I:O7.1.4 Decision on the final means of description	Jul-2013	T0+13	no
		choice(s) I:O7.1.3: Evaluation of the models against the WP2	Jui-2013	10113	110
	_	requirements	Jul-2013	T0+13	no
	\rightarrow	I:O7.1.8 Decision on the final tool choice(s)	Jul-2013	T0+13	no
		I:O7.1.11: Selection of Tool Platform	Jul-2013		no
		I:O7.2.6: Verification and test tool choice(s)	Jul-2013	T0+13	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		elopment Infrastructure	8 months	Jan-2013	- Sep-2013
	\rightarrow	D2.4: Definition of the methods used to perform the	Feb-2013	T0+8	no
		formal description	Feb-2013	10+0	110
	\rightarrow	I:O7.2.5: Captured and organised designer requirements	Sep-2013	T0+15	no
	_	WP1-7: Feedback from project partners (All WPS)	continuous	10.10	110
		D2.2: Set of requirements to be fulfilled according to			
		CENELEC standards (state-of-the-art)	Jan-2013	T0+7	no
	←	O7.3.3 Specification of primary and support tool			
		chain architecture and its embedding into the plat-			
		form	Sep-2013	T0+15	no
		O7.3.4 Infrastructure evolution strategy	Sep-2013	T0+15	no
		O7.3.5 Tool chain infrastructure maintenance	continuous		
T7.3.3		mposition and Distribution of work			- Jan-2014
		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:O7.3.4: Infrastructure evolution strategy	Sep-2013	T0+15	no
	\rightarrow	WP1-7: Bugs report and feedback from project	continuous		
		partners (All WPS) O7.3.6 Tool chain qualification test suite	Dec-2013	T0+18	no
		O7.3.7 Tool chain maintenance and debug & con-	DCC-2013	10+10	110
	—	tinuously	continuous		
	D	D7.3 Tool Chain Qualification Process Description	Jan-2014		
T7.3.4		chain development			- Feb-2014
		I:O7.3.1 Tool chain development plan (or equivalent)			no
		I:O7.3.2 Specification of tool interoperability mecha-	·		
		nisms	Oct-2013		no
	\rightarrow	I:O7.3.4: Infrastructure evolution strategy	Sep-2013	T0+15	no
	\rightarrow	I:O7.3.6 Tool chain qualification test suite	Dec-2013	T0+18	no
	\rightarrow	WP1-7: Bugs report and feedback from project			
		partners (All WPS)	continuous		
		O7.3.8 Tool chain releases & follow the scrum	continuous		
		D7.4 Tool chain first release	Feb-2014	T0+20	no

 → Feedback from project partners (All WPS) → WP1: Requirements for the open source ecosystem cont → 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 	i g-2012 T	70+2 yes 70+2 yes 70+2 yes 70+2 yes	3
 → WP1: Requirements for the open source ecosystem cont → 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 IP Policy − Proposed Development Process Description 	tinuous tinuous ig-2012 7 ig-2012 7	0+2 yes	
 → WP1: Legal decisions cont ← 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 cont process ← O7.4.5 Adaptation of open source development process ← O7.4.6 Adaptation of infrastructure and tools cont D D7.5 Ecosystem Artefacts: Ju Proposed Terms of use Proposed Committer Agreements Proposed IP Policy Proposed Development Process Description 	tinuous ug-2012 7 ug- 2012 7 ug- 2012 7	0+2 yes	
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O7.4.5 Adaptation of open source development process O7.4.6 Adaptation of infrastructure and tools cont D7.5 Ecosystem Artefacts: Ju - Proposed Terms of use - Proposed Committer Agreements - Proposed IP Policy - Proposed Development Process Description	linuouo		;
process O7.4.6 Adaptation of infrastructure and tools cont D D7.5 Ecosystem Artefacts: Ju - Proposed Terms of use - Proposed Committer Agreements - Proposed IP Policy - Proposed Development Process Description	unuous		
D D7.5 Ecosystem Artefacts: Ju - Proposed Terms of use - Proposed Committer Agreements - Proposed IP Policy - Proposed Development Process Description	tinuous		
 Proposed Terms of use Proposed Committer Agreements Proposed IP Policy Proposed Development Process Description 	tinuous		
 - Development Process Guidelines - Infrastructure Documentation - Infrastructure Template - Evolution Report of previous Deliverables 	ın-2015 TC)+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.