Project Coordinators Info Day CFM & OC 2018 December 11th 2018





1 - Introduction



Projects 2018 Overview - CFM

TOPIC	GA number	ACRONYM	COORDINATOR	COORDINATORS' CONTACTS	PROJECT OFFICER	COMPLEMENTARITY
522 5714 564 64 2040	026454	DI ACA O	Ve. 1 1.1		c'i ii BENIC	PINTA-2 SAFE4RAIL-2
S2R-CFM-CCA-01-2018	826151	PLASA-2	Ying Löschel	ying.loeschel@deutschebahn.com	Sébastien DENIS	PIVOT
S2R-CFM-IP1-01-2018	826054	PINTA-2	Laurent Nicod	laurent.nicod@transport.alstom.com	Sébastien DENIS	PLASA-2
						SAFE4RAIL-2
S2R-CFM-IP1-02-2018	826098	Connecta-2	lgor Lopez	igor.lopez@caf.net	Sébastien DENIS	MOVINGRAIL
						X2Rail-3
						CONNECTA-2
						FR8RAIL-2
						MOVINGRAIL
S2R-CFM-IP2-01-2018	826141	X2Rail-3	Bettina Doetsch	bettina.doetsch@thalesgroup.com	Léa PATIES	GATE4RAIL
						EMULRADIO4RAIL
						X2Rail-1
						X2Rail-2 IN2TRACK
S2R-CFM-IP3-01-2018	826255	IN2TRACK2	Yusuf Tross	Yusuf.Tross@networkrail.co.uk	Nikos ATHANASOPOULOS	IMPACT-2
						Co-Active
						ATTRACKTIVE
S2R-CFM-IP4-01-2018	826385	MaaSive	Scott Heath	scott.heath@networkrail.co.uk	Lucas GARVIA	CONNECTIVE
						COHESIVE
						M2O
						X2RAIL-1
						X2RAIL-2
S2R-CFM-IP5-01-2018	826206	FR8RAIL-2	Andrea Mazzone	andrea.mazzone@rail.bombardier.com	Lucas GARVIA	FR8RAIL
						ARCC
						FFL4E
						FR8HUB



Projects 2018 Overview - OC

ТОРІС	GA number	ACRONYM	COORDINATOR	COORDINATORS' CONTACTS	PROJECT OFFICER	COMPLEMENTARITY
						CONNECTA-2
S2R-OC-IP1-01-2018	826073	SAFE4RAIL-2	Dr Aitor Arriola	s4r2-mngt@technikon.com	Sébastien DENIS	X2Rail-3
						PLASA-2
						CONNECTA-2
S2R-OC-IP2-01-2018	826347	MOVINGRAIL	Prof Rob Goverde	r.m.p.goverde@tudelft.nl	Léa PATIES	X2Rail-3
						X2Rail-1
S2R-OC-IP2-02-2018	826324	GATE4RAIL	Prof Alessandro Neri	presidenza@radiolabs.it	Léa PATIES	X2Rail-3
32N-UC-IF2-U2-2U16	820324	GATE4KAIL	Prof Alessandro Neff	<u>presidenza@radioiabs.it</u>	Lea PATIES	X2Rail-2
S2R-OC-IP2-03-2018	826152	EMULRADIO4RAIL	Dr Marion Berbineau	marion.berbineau@ifsttar.fr	Léa PATIES	X2Rail-3
						IN2TRACK2
S2R-OC-IP3-01-2018	826250	Assets4Rail	Fanny Breuil	fanny.breuil@eurecat.org	Nikos ATHANASOPOULOS	IN2TRACK
						IN2SMART
S2R-OC-IP4-01-2018	826172	SPRINT	Stefanos Gogos	stefanos.gogos@unife.org	Nikos ATHANASOPOULOS	CONNECTIVE
S2R-OC-IP4-02-2018	826252	Shift2MaaS	Dr Guido Di Pasquale	guido.dipasquale@uitp.org	Lucas GARVIA	COHESIVE
S2R-OC-IP5-01-2018	826087	M2O	Luciano Cantone	luciano.cantone@uniroma2.it	Lucas GARVIA	FR8RAIL-2
3211-00-11 3-01-2010	020007	IVIZO	Editario Caritoric	idelano.cantone@dimoniaz.it	Lucas GARVIA	FFL4E
						Connecta-2
S2R-OC-IPX-01-2018	826189	FLEX-RAIL	Manfred Ninaus	manfred.ninaus@iitf.at	Nikos ATHANASOPOULOS	X2Rail-3
						IN2TRACK2
S2R-OC-IPX-02-2018	826055	TER4RAIL	DrIng. Armando Carrillo Zanuy	acarrillo@eurnex.eu	Léa PATIES	N/A
S2R-OC-IPX-03-2018	826238	MVDC-ERS	Dr Pietro Tricoli	p.tricoli@bham.ac.uk	Nikos ATHANASOPOULOS	N/A
S2R-OC-IPX-03-2018	826156	B4CM	Prof. Clive Roberts	c.roberts.20@bham.ac.uk	Nikos ATHANASOPOULOS	N/A



what is S2R

A public-private partnership, a platform for the rail sector as a whole to work together to drive innovation in the years to come until 2024

The S2R Joint Undertaking has been created in June 2014 to play a major role in rail-related research and innovation, ensuring coordination among projects and providing all stakeholders with relevant and available information on projects funded across Europe. It shall also manage all rail- focused research and innovation actions co-funded by the Union

Council Regulation (EU) No 642/2014 of 16 June 2014 (S2R Regulation)

 It has been tasked by the Union "to establish and develop a strategic Master Plan", which encompassed rail R&I until 2030, it reached autonomy in May 2016 and it is now fully operational



S2R OBJECTIVES



INCREASE RELIABILITY & PUNCTUALITY BY 50%



DOUBLERAILWAY CAPACITY



HALVE LIFE-CYCLE COSTS
OF RAILWAY TRANSPORTS



CONTRIBUTE TO **REDUCTION OF NEGATIVE EXTERNALITIES**, SUCH AS
NOISE, VIBRATIONS, EMISSIONS & OTHER
ENVIRONMENTAL IMPACTS



CONTRIBUTE TO THE ACHIEVEMENT OF THE SINGLE EUROPEAN RAILWAY AREA

S2R PROGRAMME, ABOUT € 1BLN and A NEW APPROACH TO R&I IN RAILWAY

working together & driving innovation





28 MEMBERS



343PARTICIPANTS INVOLVED FROM **27** COUNTRIES

AN OPEN and ACTIVE ORGANISATION



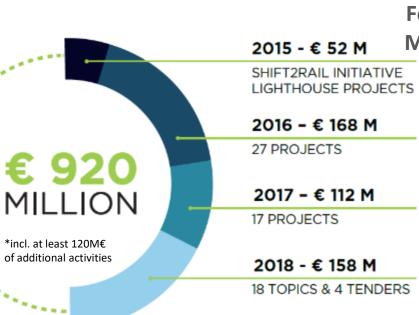
92 SMEs

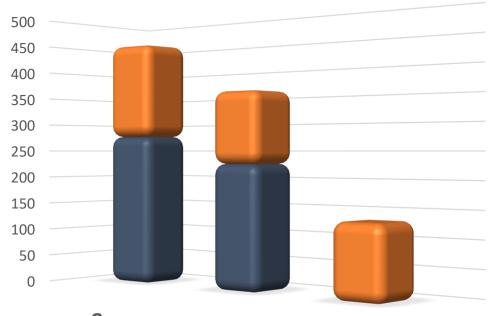


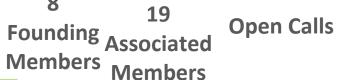
84

RESEARCH CENTRES AND UNIVERSITII

¹Data extracted from CORDA database in April, 2018









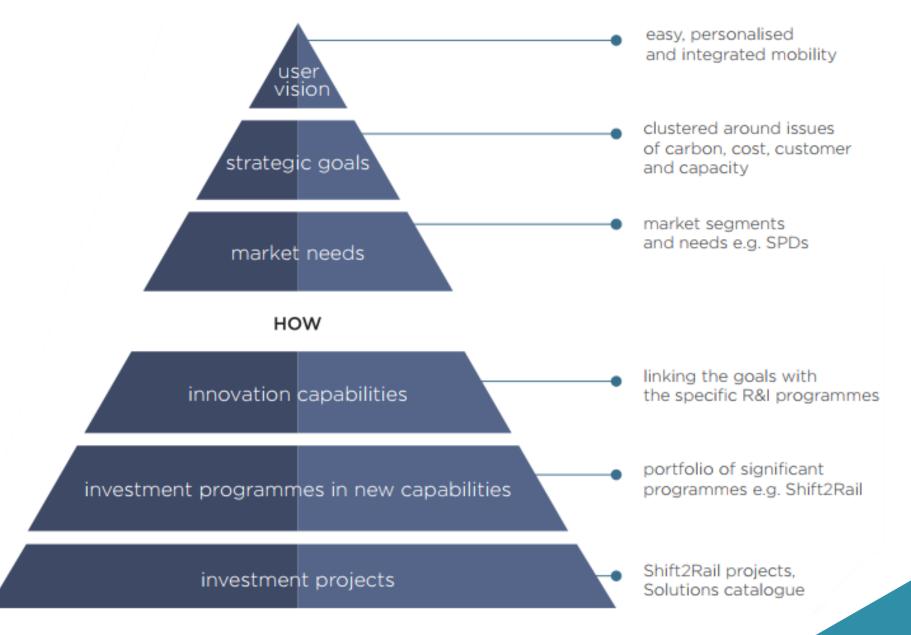
USER FIRST



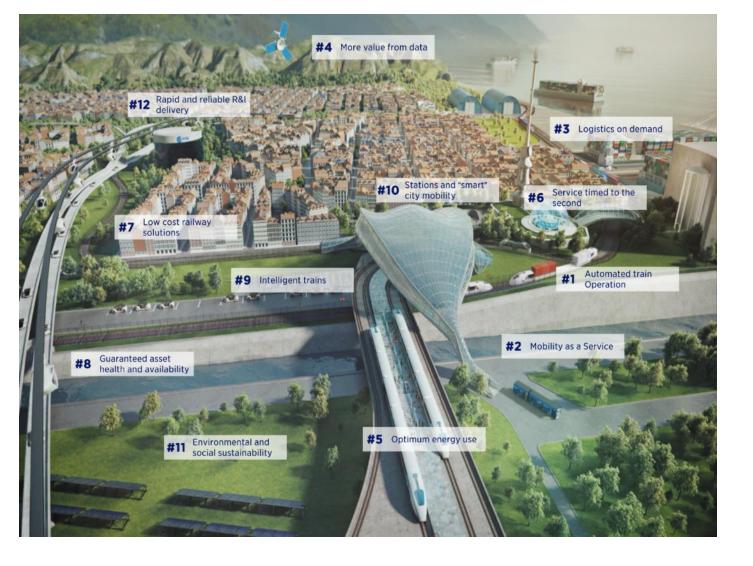


A S2R holistic approach...



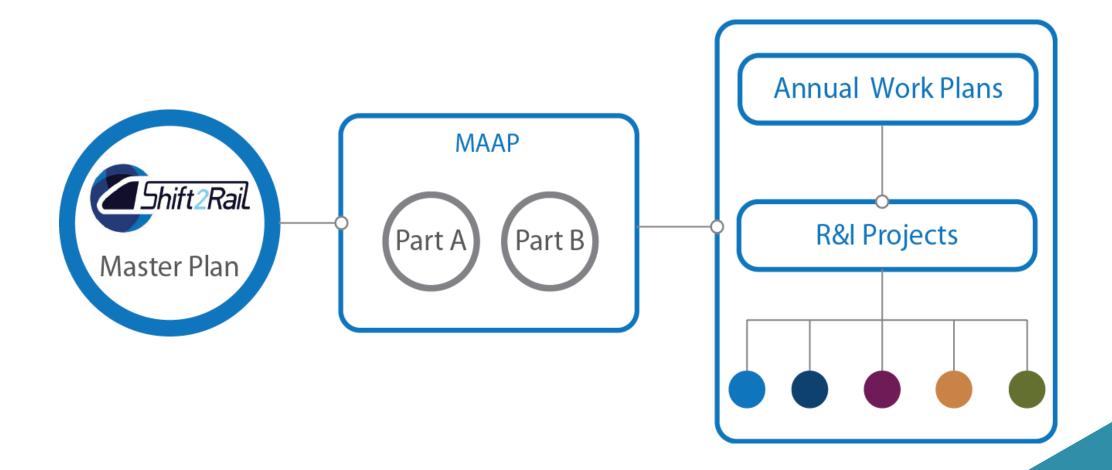






...opening up new Capabilities coming from emerging technologies or concepts!







S

Long-term needs and socio-economic research

Smart materials and processes

System integration, safety and interoperability

Energy and sustainability

Human capital

Advanced Traffic Management & Control

Systems

IP₁

Cost-efficient and Reliable Trains, including

capacity trains and high speed trains

high

IP₂

IP

Cost-efficient, Sustainable

Capacity Infrastructure

3 and Reliable High

IP 4

IP 5

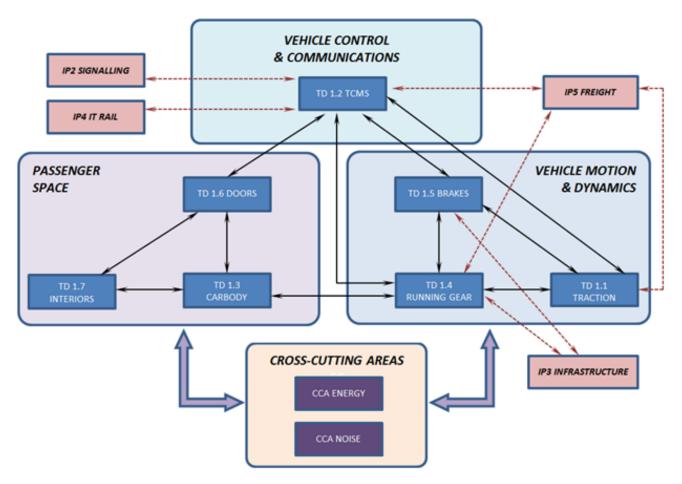
IT Solutions for Attractive Railway Services

Technologies for

Sustainable & Attractive **European Freight**



Example: IP1



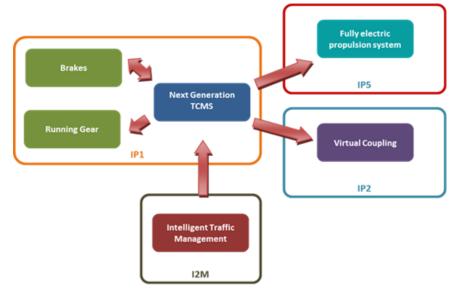


Example of a Technology Demonstrator

Final Demos of TD 1.2 TCMS:

Research Area	Specific	Specification	Demonstra	itor	Facus of activity.
	Techn. objective	Activities	Market	TRL	Focus of activity
	Wireless TCMS	Radio techn., architecture and protocols		6/7 6/7	Incorporate wireless technologies to the train communication network solutions (i.e. train backbone, consist network and train to ground communication).
Train Control & Monit. System	Drive-by-data	Architecture,		0/ /	Provide a train-wide communication network for full TCMS support including the replacement of train lines, connecting safety functions up to SIL4 (incl.
		protocors	Regional	5	signalling).
	Spe Functional distribution arch	Specification, architecture	Metro	ו /ס	New architectural concept based on standard framework & application profiles, distributed computing to allow execution of compliant functions on end devices
	a rchite cture	and interface	D: I	5	distributed along the vehicle meeting different safety & integrity requirements
		definition	Regional	6/7	Support the Functional Open Coupling
	Virtual Placing on the Market	Technology definition, protocols and procedures	Generic	6/7	Standardised simulation framework in which all subsystems of the train will be simulated, allowing remote and distributed testing including hardware in-the-loop through heterogeneous communication networks.

Interaction with other TDs and IPs:

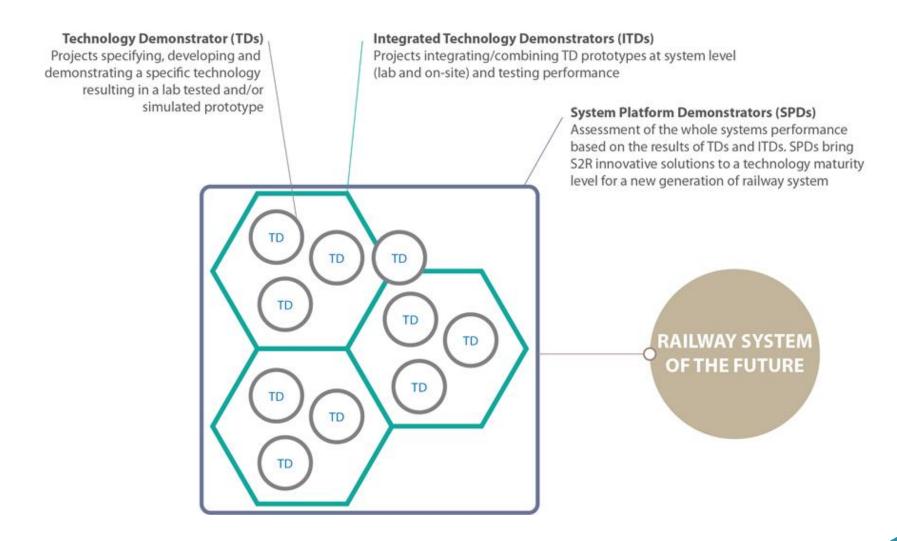


Planning (budget estimated at 48,8M€):

	TASKS	TRL	2015	2016	2017	2018	2019	2020	2021
TD1.2	TCMS					I		_	
	1.2.0 General specification	-				T.		_	
	1.2.1Wireless TCMS	6/7							
	1.2.2 Drive-by-data	6/7				T			
	1.2.3 Functional distribution architect.	6/7				1			
	1.2.4 Virtua I placing on the market	5				T			
	1.2.5 Integration, demo & a ssessment	6/7				I			
	1.2.6 Technical coordination	-							



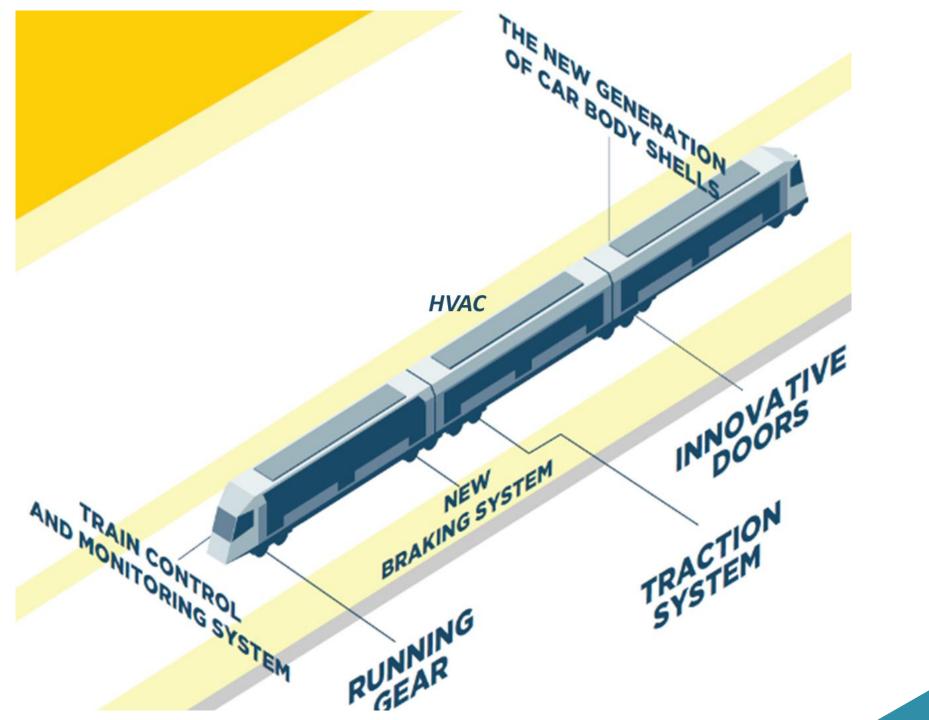
From TRL0 to TRL6/7





2 – Programme progress and relation with current call activities





IP1: Costefficient and reliable trains, including highcapacity trains and high-speed trains



	TD1.1 Traction Systems demonstrator											
2015 2016 2017 2018 2019 2020 2021 2022												
Fir	Finished: Roll2Rail (10/2017), PINTA (11/2018)											
	Ongoing: PINTA2											
						Planned a	ctivities					

	TD1.2 Train Control and Monitoring System Demonstrator										
2015	2016	2017	2018	2019	2020	2021	2022	•••			
Finished	Finished: Roll2Rail (10/2017), CONNECTA (09/2018)										
		Ongoing:	Safe4RAIL, CO	NNECTA-2, Sa	fe4RAIL-2						
						Planned ac	ctivities				

	TD1.3 Carbody Shell Demonstrator											
2015	2016	2017	2018	2019	2020	2021	2022					
Finished: Roll2Rail (10/2017)												
			Ongoing: PIVOT,	Mat4Rail								
					AWP	2019: CFM, C	OC					
Planned activities												

TD1.4 Running Gear Demonstrator											
2015	2016	2017	2018	2019	2020	2021	2022	•••			
Fini	shed: Roll2Rail (1	10/2017)									
			Ongoing: PIVOT,	Run2Rail							
					AWP	2019: CFM, C	OC				
						Planned ad	ctivities				



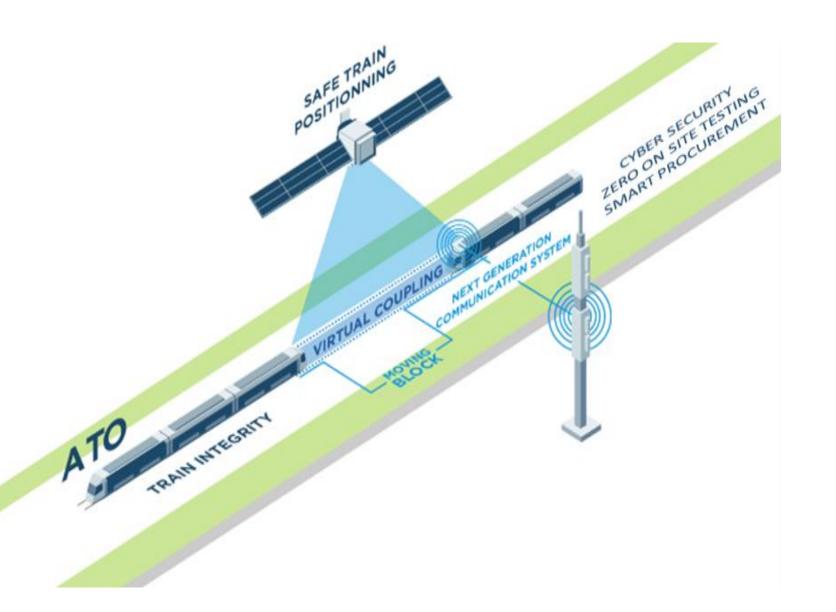
	TD1.5 Brake Systems Demonstrator											
2015	2016	2017	2018	2019	2020	2021	2022	•••				
Fin	: Roll2Rail (10/2	017), CONNECTA	(09/2018)									
		Ongo	ing: Safe4RAIL	, PIVOT, PINTA-2	2							
			#		AWP	2019: CFM, (OC					
						Planned a	ctivities					

	TD1.6: Doors and Access Systems Demonstrator											
2015	2015 2016 2017 2018 2019 2020 2021 2022											
		O	ngoing: PIVOT,	Run2Rail								
	AWP 2019: CFM, OC											

	TD1.7: Train Modularity In Use (TMIU)											
201	2015 2016 2017 2018 2019 2020 2021 2022											
	Finished: Roll2Rail (10/2017)											
				Ongoing: PIVOT,	Mat4Rail							
	AWP 2019: CFM, OC											

	TD1.8: HVAC										
2015	2015 2016 2017 2018 2019 2020 2021 2022										
					AWP 2019:	CFM					
	Planned activities										





IP2: Advanced
Traffic
Management
and Control
Systems



TD2	2.1: Adapta	ble commui	nications fo	r all railway	s (quality o	of service, i	nterfaces	
			to	signalling)				
2015	2016	2017	2018	2019	2020	2021	2022	•••
	F	nished: MISTRA	AL (10/18)					
		Ong	oing: X2Rail-1,	X2Rail-3, EMUL	RADIO4RAIL			
		· · · · · · · · · · · · · · · · · · ·	_			Planned A	ctivities	

TD2.2: Railway network capacity increase (ATO up to GoA4 – UTO)											
2015	2015 2016 2017 2018 2019 2020 2021 2022										
		Ongoing:	X2Rail-1, ASTRa	ail							
					A۱	NP 2019: CFM					

TD2.3 Moving Block										
2015	2016	2017	2018	2019	2020	2021	2022	•••		
		Ongoir	ng: X2Rail-1, AS	TRail, X2Rail-3,	MOVINGRAIL					
						Planned A	ctivities			

TD2.4: Fail-Safe Train Positioning (including satellite technology)										
2015	2016	2017	2018	2019	2020	2021	2022	•••		
			Ongoing: X2Rai	il-2; ASTRail, GA	ATE4Rail					
						Planned A	ctivities			



TD2.5: On-board Train Integrity											
2015 2016 2017 2018 2019 2020 2021 2022											
	Ongoing: X2Rail-2; ETALON										
					A	AWP 2019: CFM					

	TD2.6: Z	ero on-site	testing (cor	ntrol comma	and in lab o	demonstrato	ors)			
2015	2016	2017	2018	2019	2020	2021	2022	•••		
		Finished: VITE	(10/18)							
	Ongoing: X2Rail-1, X2Rail-3, GATE4Rail									
						Planned a	ctivities			

TD2.7: Formal methods and standardisation for smart signalling systems										
2015	2016	2017	2018	2019	2020	2021	2022	•••		
			Ongoing:	X2Rail-2; ASTRa	ail					
					AW	/P 2019: CFM,OC				
						Planned ac	ctivities			

	TD2.8: Virtually – Coupled Train Sets (VCTS)									
2015	2015 2016 2017 2018 2019 2020 2021 2022									
	Ongoing: X2Rail-3, MOVINGRAIL									

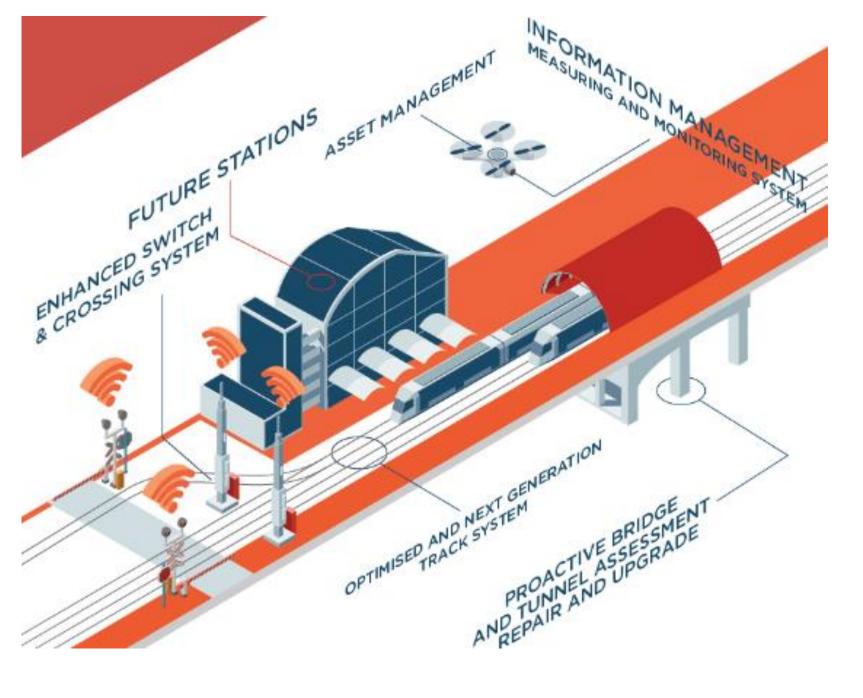


	TD2.9: Traffic management evolution										
2015	2015 2016 2017 2018 2019 2020 2021 2022 .										
			Ongo	oing: X2Rail-2							
					AWF	2019: CFM, OC					

TD2.10: Smart radio-connected all-in-all wayside objects											
2015	2015 2016 2017 2018 2019 2020 2021 2022										
	Ongoing: X2Rail-1, ETALON										
	AWP 2019: CFM										

TD2.11: Cyber Security										
2015	2016	2017	2018	2019	2020	2021	2022	•••		
	Finished: CYRAIL (09/18)									
		Ongo	ing: X2Rail-1							
		-	_		AWI	2019: CFM, O	C			
						Planned ad	ctivities			





IP3: Cost-Efficient and Reliable High-Capacity Infrastructure



TD3.1 Enhanced Switch & Crossing System										
2015	2016	2017	2018	2019	2020	2021	2022	•••		
F	inished: In2R	Rail (04/18)								
		Or	ngoing: IN2T	RACK, IN2TF	RACK2					
						Planned A	ctivities			

	TD3.2 Next Generation Switch & Crossing System									
2015	2016	2017	2018	2019	2020	2021	2022	•••		
F	inished: In2F	Rail (04/18)								
		C	Ongoing: S-Co	ODE, IN2TRA	CK2					
Planned Activities										

	TD3.3 Optimised Track System									
2015	2016	2017	2018	2019	2020	2021	2022	•••		
F	inished: In2R	Rail (04/18)								
		Or	ngoing: IN2T	RACK, IN2TR	RACK2					
	Planned Activities									

TD3.4 Next Generation Track System											
2015	2016	2017	2018	2019	2020	2021	2022	•••			
F	inished: In2F	Rail (04/18)									
				Ongoing	: IN2TRACK2						
						Planned A	ctivities				



TD3.5 Proactive Bridge and Tunnel Assessment, Repair and Upgrade									
2015	2016	2017	2018	2019	2020	2021	2022	•••	
F	inished: In2F	Rail (04/18)							
		Or	ngoing: IN2T	RACK, IN2TR	ACK2				
	Planned Activities								

TD3.6 Dynamic Railway Information Management System (DRIMS)										
2015	2016	2017	2018	2019	2020	2021	2022	•••		
	C	Ongoing: IN29	SMART, IN2D	REAMS						
					AWP 201	9: CFM				
Planned Activities										

TD:	TD3.7 Railway Integrated Measuring and Monitoring System (RIMMS)											
2015	2016	2017	2018	2019	2020	2021	2022	•••				
F	inished: In2F	Rail (04/18)										
		Ongoing: IN	2SMART, M	OMIT, Asset	s4Rail							
	AWP 2019: CFM											
Planned Activities												

TD3.8 Intelligent Asset Management Strategies (IAMS)										
2015	2016	2017	2018	2019	2020	2021	2022	•••		
F	inished: In2R	Rail (04/18)								
		Ongoin	g: IN2SMAR	Г						
					AWP 2019	9: CFM				
					Pla	nned Activit	ties			



	TD3.9 Smart Power Supply										
2015	2016	2017	2018	2019	2020	2021	2022	•••			
F	inished: In2F	Rail (04/18)									
			0	ngoing: IN29	STEMPO						
	AWP 2019: OC										
Planned Activities											

TD3.10 S	TD3.10 Smart Metering for Railway Distributed Energy Resource Management System										
2015	2016	2017	2018	2019	2020	2021	2022	•••			
F	inished: In2F	Rail (04/18)									
			C	ngoing: IN29	STEMPO, In2	Dreams					

	TD3.11 Future Stations										
2015	2016	2017	2018	2019	2020	2021	2022	•••			
	Ongoing: In2Stempo, FAIR Stations										





IP4: IT Solutions for Attractive Railway Services



TD 4.1 Interoperability Framework										
2015	2016	2017	2018	2019	2020	2021	2022	•••		
F	inished: IT2R	AIL, GOF4R, S	T4RT							
			(Ongoing: CON	INECTIVE, SPE	RINT				
AWP 2019: OC										

TD4.2 Travel Shopping											
2015	2016	2017	2018	2019	2020	2021	2022	•••			
	Finished: I	T2RAIL									
			Ongoing	g: Co-Active,	MaaSive						
					AWP 201	L9: OC					
Planned activities											

	TD4.3 Booking and Ticketing										
2015	2016	2017	2018	2019	2020	2021	2022	•••			
	Finished: IT2RAIL										
	Ongoing: Co-Active, MaaSive										
	AWP 2019: OC										
Planned activities											

TD4.4 Trip Tracker											
2015	2016	2017	2018	2019	2020	2021	2022	•••			
	Finished: I	T2RAIL									
		Ongoing:	ATTRACKTIVE	, My-TRAC, M	laaSive		_				
					AWP 201	L9: OC					
						Planned act	ivities				

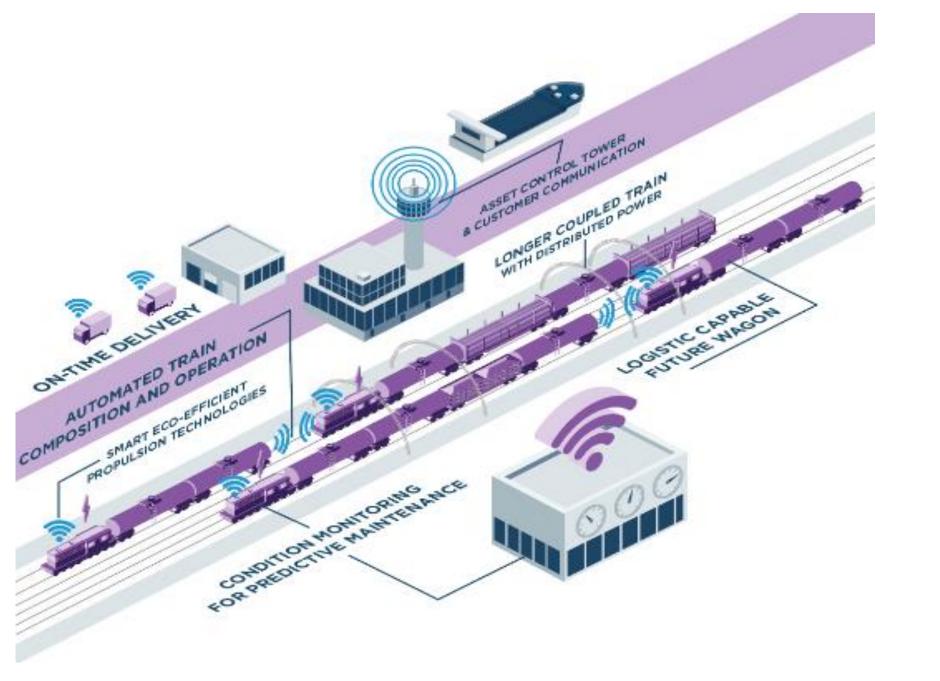


		-	TD4.5 Tra	vel Comp	anion			
2015	2016	2017	2018	2019	2020	2021	2022	•••
	Finished: I	T2RAIL						
		Ongoing:	ATTRACKTIVE	E, My-TRAC, N	1aaSive			
					AWP 20)19: OC		
						Planned act	ivities	

	TD4.6 Business Analytics										
2015	2015 2016 2017 2018 2019 2020 2021 2022										
F	inished: IT2RA	AIL, GOF4R, S	T4RT								
	Ongoing: CONNECTIVE										

	TD4.7 Integrated Technical Demonstrator										
2015	2015 2016 2017 2018 2019 2020 2021 2022										
	Finished: IT2RAIL										
	Ongoing: COHESIVE, SPRINT, Shift2MaaS										





IP5:
Technologies
for
Sustainable &
Attractive
European Rail
Freight



	TD 5.0 – Business analytics and implementation strategies										
2015	2015 2016 2017 2018 2019 2020 2021 2022										
Finis	Finished: SMART-RAIL (04/18)										
	Ongoing: FR8RAIL, INNOWAG, FR8HUB										

	TD5.1 Freight electrification, brakes and telematics									
2015	2016	2017	2018	2019	2020	2021	2022			
	Ongoing: FR8RAIL, INNOWAG, FR8HUB, FR8RAIL II									
	AWP 2019: CFM, OC									
	Planned Activities									

	TD5.2 Access and Operation										
2015	2015 2016 2017 2018 2019 2020 2021 2022										
	Ongoing: ARCC, SMART, OPTIYARD, FR8HUB, FR8RAIL II										
	AWP 2019: CFM										

	TD5.3 Wagon design										
2015	2015 2016 2017 2018 2019 2020 2021 2022										
	Ongoing: FR8RAIL, INNOWAG, FR8RAIL II										
	AWP 2019: CFM										
	Planned Activities										



	TD 5.4 Novel Terminal, Hubs, Marshalling Yards, Sidings										
2015	2015 2016 2017 2018 2019 2020 2021 2022 2023										
		(Ongoing: FF								
	AWP 2019: CFM										
						Planned A	ctivities				

	TD 5.5 New Freight Propulsion Concepts										
2015	2016	2017	2018	2019	2020	2021	2022	•••			
	Fin	: DYNAFREIG	HT (06/18)								
		Ongo	oing: FFL4E,	FR8HUB, FR	8RAIL II, M2	0					
					AWP	2019: CFM					
						Planned A	Activities				

	TD 5.6 Autonomous train operation										
2015	2016	2017	2018	2019	2020	2021	2022				
	Ongoing: ARCC, SMART, FR8RAIL II, X2Rail-3										
	AWP 2019: CFM + OC										
						Planned A	Activities				



Cross Cutting Activities (CCA)



WA1 Long-term needs and socio-economic research & SPD's									
2015	2016	2017	2018	2019	2020	2021	2022	•••	
IMPACT-1 (04/18), NEAR2050 (04/18)									
Ongoing: IMPACT2									
Planned activities									

WA2 KPI method and integrated assessment									
2015 2016 2017 2018 2019 2020 2021 2022							•••		
Finished: Roll2Rail (10/17), IMPACT-1 (06/18)									
Ongoing: Tender KPIs, IMPACT2									

WA3 Safety, Standardisation, Maintanance, Materials, Virtual Certification									
2015	2016	2017	2018	2019	2020	2021	2022	•••	
	Fin	ished: PLASA (C	08/18)	•				·	
		Ongoing: GoSAFE RAIL, IMPACT2, SMaRTE, PLASA-2							



WA4 Smart Planning, I2M

2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | ...

Finished: IN2RAIL (04/18), PLASA (08/18)

Ongoing: GoSAFE RAIL, IMPACT2, PLASA-2

AWP 2019: CFM

WA5 Energy and sustainability

 2015
 2016
 2017
 2018
 2019
 2020
 2021
 2022
 ...

Finished: Roll2Rail (10/17), DESTINATE (10/18)

Ongoing: FINE1, OPEUS

AWP 2019: CFM,OC

Planned activities

		WA6 Human Capital						
2015	2016	2017	2018	2019	2020	2021	2022	•••

Tender HC (12/18)

Ongoing: IMPACT2, SMaRTE



3 - Programme approach: complementarity concept + internal JU processes



Programme approach, future/current projects

- EACH PROJECT contributes to the achievement of the Master Plan and the MAAP objectives
- EACH PROJECT is part of a programme and cooperation with other projects must be ensured
 - → Through the collaboration and input to the JU Members, EACH PROJECT will support the realization of long-term S2R technological demonstrations or innovative break-through
- Particular attention is given to ensure that there is **no duplication of work** between EACH PROJECT and current/future R&I activities
- EACH PROJECT results are taken into consideration for the next annual work plans to ensure sufficient complementarity and coherence



Complementarity & Collaboration Agreement

- 1. Complementary is defined at topic level
- 2. Complementarity between topics is compulsory established in the Grant Agreement (need for a Collaboration Agreement)
- 3. IP/CCA SteCos, high level synchronization points: Project Coordinators may attend the SteeCo meetings as observer and IP Coordinators cooperate with project coordinator to foster/promote synergies
- 4. S2R Programme Managers: Central Contact Point for both projects



Complementarity & Collaboration Agreement

Issues to be tackled in the Collaboration Agreement (COLA) (examples/non-exhaustive list)

- Rules for collaboration, "who does what?"; Point of Contacts etc.
- Handling review of documents
- Agreement on action to be performed by both sides + linked timing (e.g. project A provides "user requirements" by M6 to project B; project B provides input by M18 to project A → project A uses input for deliver their deliverable 2.3).
- Participation to restricted meetings (for specific purpose) or to public meetings (including Advisory Groups, etc...).



Collaboration Agreement

Tips/lessons learnt:

- COLA establish the relation between OC Projects with CFM Projects, to ensure alignment, agreement on tasks, background and results and adequate dealing with know-how (if any) → Annexes should have meaningful content and ensure OC Projects duly provide to the CFM Projects input when so defined!
- Start discussions with complementary project(s) as soon as possible
 - Anticipate as much as possible issues (timing discrepancy, possible duplication, etc...)
 - Inform the S2R PM should any major difficulties encountered
 - However... COLA's signature cannot be a barrier to collaborate!
- Changes in your own project may be needed as a result:
 - assess the need for an amendment within the consortium
 - Inform the S2R PM as soon as possible → JU assessment



IPRs Collaboration Agreement

1. Access rights to background to beneficiaries of complementary grants

According to article 25.5: The rules on access to background (including conditions and scope of access) are generally the same as for results. *However*, for background there is NO (or a more limited) obligation to give access, if there are restrictions or limits (legal or otherwise) and the beneficiary has informed the others — before acceding to the GA (or immediately when additional background is agreed on) — e.g. a pre-existing agreement (e.g. an exclusive licence) which precludes the granting of access rights.

2. Access rights to results to beneficiaries of complementary grants

According to article 31.6: access rights to results must be granted to the beneficiaries complementary.



COMMON COLLABORATION AGREEMENT (CCOLA)

Under development





CCOLA Objectives

- Simplify and facilitate cooperation/results exchange within the Programme
- Create transparency and common contractual standards
- Ensure coherent IPR rules throughout the program
- Create legal certainty to facilitate future exploitation of results

CCOLA Key Points

- Standard process for results and background requests
- NO expansion of shared IPR/background the extent of sharing will be the same as under the current framework (H2020 rules), except it will no longer require individual contract negotiations each time → time and resources saved to focus on the technical side of the projects
- Creation of a unified IPR protection framework with a license scheme that allows research within the Programme while protecting the commercial interest regarding later exploitation.



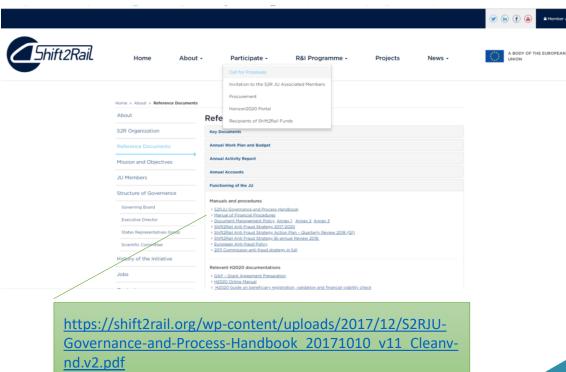
- Covers principally all kinds of cooperation between all kinds of projects
- establish a mechanism to automatically supersede previous COLAs between Parties that joined the CCOLA
- unification and simplification should result in a significant decrease in transaction costs regarding the bureaucratic and legal overhead to focus on the productive side of the programme



Governance and process handbook ("PM Handbook", available on the S2R website)

- The handbook defines and documents the Programme governance and relevant business processes, including relevant templates and guidelines.
- →Provides the Coordinator with useful reporting templates and guidelines (deliverable template, collaboration agreement, technical report, reporting to the SteCo, etc...)

Internal JU processes





Internal JU processes

Technical reporting

Deliverables and Technical reports must be submitted in the appropriate template given in the PM handbook

S2R Projects official reporting

Financial reporting

All project reporting must use the appropriate template

Project reporting to the Steering Committee

Each Committee meets every three months to handle disputes, propose possible budget re-allocations and check the implementation of detailed plans.

The project coordinators carry out the day-to-day project management, technical oversight and administration of the funded activities related to TDs and ITDs.

→ The project coordinators are expected to report to the SteCo the status of their project (using the appropriate template: "Project reporting to the IP SteCo")



Interactions & roles

Role of the Coordinator

- Central Contact Point for the S2R JU.
- Administers the S2R financial funding.
- Reviews the reports to **verify** consistency.
- Monitors the compliance under the GA.

S2R

YOUR PROJECT

Role of beneficiaries

- Carry out the **work** as identified in the Annex 1.
- Provide all data (financial and technical) requested by the S2R JU.
- Inform the S2R JU of any event that might affect the implementation.

IP SteeCo

- Ensuring continuity/synchronicity with IPs/CCAs.
- Ensuring contribution to MAAP.
- **Project Coordinator** may attend the SteeCo meetings as observer
- **IP Coordinator cooperate with Project Coordinator** to foster/promote synergies between TDs and CCA Area. different Activities of other IPs and CCA, running projects.

- **Ensuring** with the SteCo the fullfilment of the Master Plan
- **Central Contact Point** for the Project.
- > Supervise the project and the fulfilment of contractual obligations
- Check, deliverables, periodic reports, perform on-site reviews, etc.
- Check financial statements.

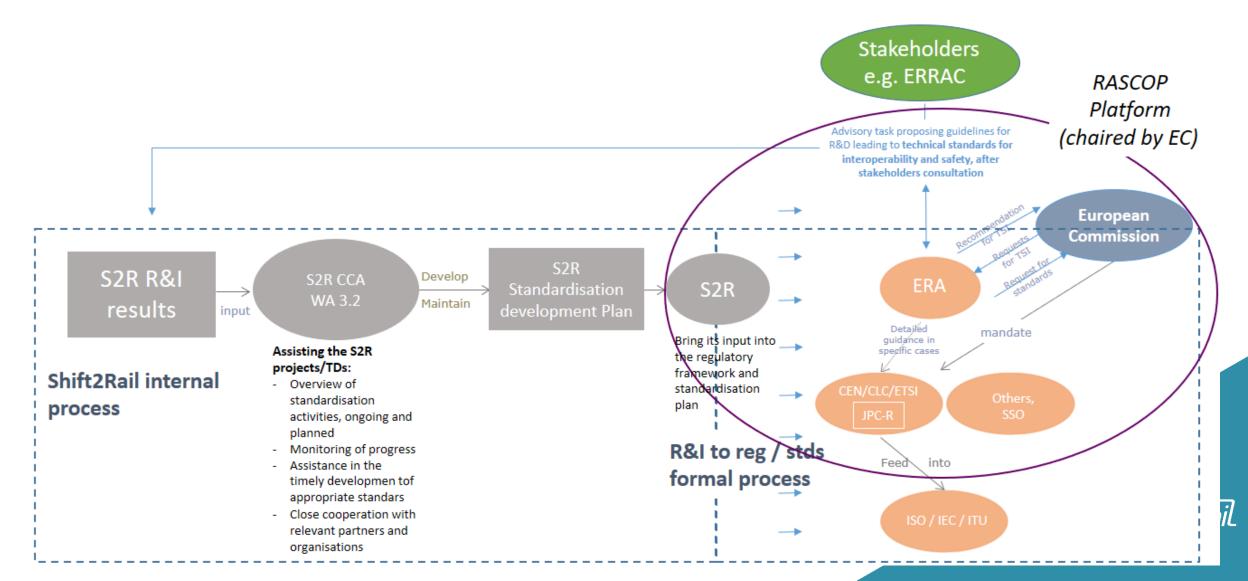
SIWG*

- **Support** the Executive Director in steering the Programme R&I activities
- **Discuss** processes in the context of Calls, Annual Reviews and S2R documentation
- **Report** on project's status and collaboration agreements
- **Ensure** alignment on crosscutting themes

*Programme management setup



S2R R&I results and process leading to standards and regulation



Projects results and process to standards / regulation

Relation with European Agency for Railways (ERA) relevant to the Projects:

To ensure that successful results do not encounter a regulatory blocking point because of their novelty, the S2R JU has defined with ERA and DG Move a process for collaboration at project level:

- 1. ERA could attend the evaluation of the call proposals as observer;
- 2. ERA will provide to the S2R JU the "the level of desired involvement" in those projects within the scope of its activities;
- 3. The S2R JU will discuss the involvement of ERA in the indicated projects with the relevant Project Coordinator to ensure their participation as appropriate. This should be defined during the Grant Agreement Preparation (GAP) phase, as far as possible;
- 4. ERA will communicate to the S2R JU the name of the ERA representative who will be following up the indicated projects;
- 5. S2R will provide the possibility to the ERA representative(s) to attend the respective Project Kick-off meeting and may involve him/her as observer during the Review meetings or Projects checks and may request ERA to provide written advice on specific Project deliverables or reports.



How to ensure that YOUR PROJECT will be successful?

- Delivering on time the expected results in accordance to the plan
- Regular dialogue with the S2R Programme Manager to ensure a good flow of information about the project and its progress.
- Collaboration with the bodies of the Joint Undertaking (in particular the IP Steering Committee or other working groups set up by the Governing Board) will be important.
- Coordination and cooperation with the complementary grants (and other ongoing research projects) will be essential.
- Coordination and communication among the different WPs.
- Collaboration to S2R KPIs and Standardization activity (CCA)



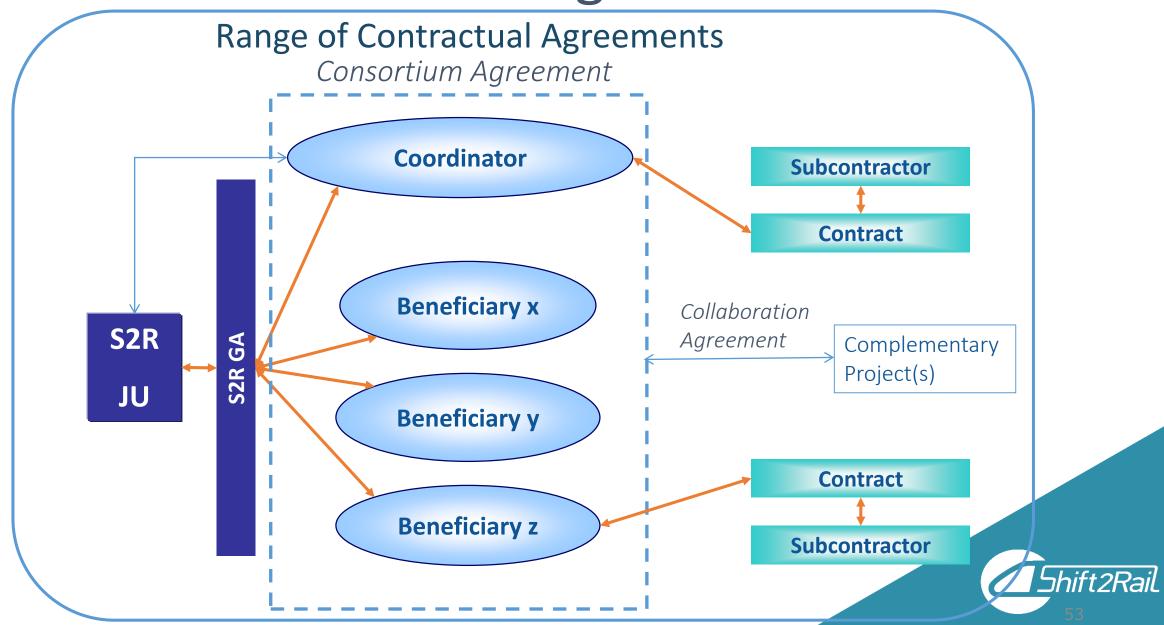
4 - Manage your project: Legal Aspects

Attention: The Following Sections Apply to

Open Call Grant Agreement



Grant Agreement Structure



Grant Agreement Structure

H2020 Grant Agreement

Annex 1: Description of the action part A & B

Annex 2: Estimated budget

Annex 3: Accession forms of beneficiaries

Annex 3a: Declaration joint liability of third parties

Annex 4: Model financial statements

Annex 5: Model certificate on financial statements

Annex 6: Model certificate on the methodology



AMGA V. 5.1December2018

ТҮРЕ	CHARACTERISTICS						
	Works on action tasks?	Provides resources or services for action?	What is eligible?	Must be indicated in Annex 1?	Indirect costs?	Selecting the third party	GA articles
Linked third party	YES	NO	Costs	YES	YES	Must be affiliated or have a legal link	Article 14
International partners	YES	NO	N/A	YES	N/A	Must not be eligible for funding	Article 14a
Subcontractor	YES	NO	Price	YES	NO	Must be best value for money, avoid conflict of interest	Article 13
Third party providing in-kind contribution	NO	YES	Costs	YES	YES	May not be used to circumvent the rules	Articles 11 and 12
Contractor (selling, equipment, good or service)	NO	YES	Price	NO	YES	Must be best value for money, avoid conflict of interest	Article 10
Third parties receiving financial support ³¹	The third parties participate in the action as recipients.		Amount of support given	YES	NO	According to the conditions in Annex 1	Article 15



Linked third parties (Art. 14) (1)

Affiliated entities (capital link) are:

- under the direct or indirect control of the beneficiary or
- under the same direct or indirect control as the beneficiary or
- directly or indirectly controlling the beneficiary.

Entities with a legal link:

• Broad and legal relationship not specifically created for the work in the GA (no ad hoc collaboration agreements).



Linked third parties (Art. 14) (2)

- The beneficiary remains responsible towards the JU for the work carried out by the linked third party.
- Do NOT sign the GA
- Must fulfil the same conditions for participation and funding under H2020 as beneficiaries
- Does not charge a price, but declares its own costs for implementing the action tasks



Purchases (Art.10)

Purchases of goods, works or services (Art.10)

- If necessary to implement the action and limited in cost and scope.
- Based the purchase either on the best value for money or the lowest price.
- "Contracting authorities" (2014/24/EU) or "Contracting entities" (Directive 2014/25/EU) must comply with the applicable national law on public procurement.



Subcontracting (Art. 13)(1)

Subcontracting (Art.13) versus Purchases (Art.10) (Pag. 126 AMGA):

- Implementation of action task vs necessary to its implementation (auxiliary tasks).
- Need to be indicated in Annex 1 vs No need to be indicated.
- Best value for money/national law on public procurement in both cases.



Subcontracting (Art. 13)(2)

- If necessary to implement the action.
- Only limited to certain tasks and parts of the action.
- Based on business conditions, entailing profit.
- Work without the direct supervision of the beneficiary and it is not hierarchically subordinate to it.
- Responsibility lies fully on the beneficiary.
- Best value for money/national procurement rules.



Subcontracting (Art. 13)

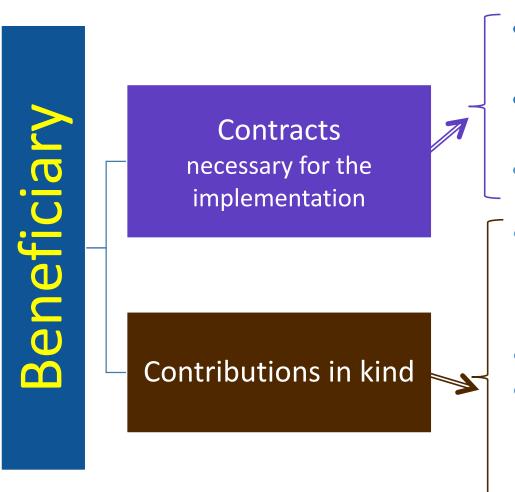
• New subcontracts. If not foreseen at the moment of the signature of the GA, the coordinator must request an amendment. It can be exceptionally approved during reporting time without an amendment.

• Specific cases:

- Framework contracts (E.g. services, furniture). If this is the usual practice of the beneficiary. Best value for money and no conflict of interest.
- Coordinator tasks of the Coordinator cannot be subcontracted.



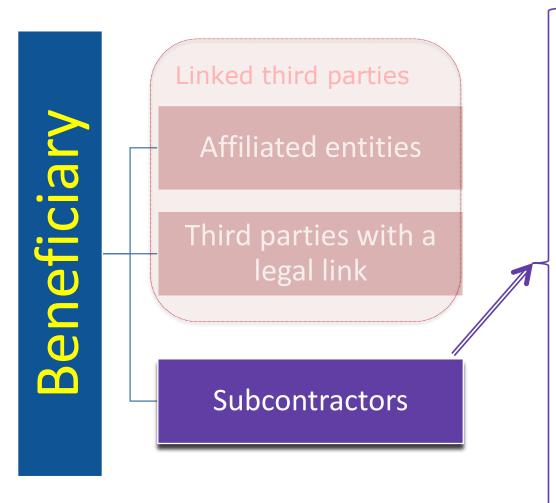
Summary: Third parties (1)



- For the purchase of goods, works or services
- Ensure best value for money and avoid any conflict of interests
- Article 10 GA
- Free of charge or against payment are eligible costs if they meet the eligibility conditions
- Must be set out in Annex 1
- If not identified in Annex 1, S2R JU may still approve them (beneficiary bears the risk of rejection)
- Articles 11 & 12 GA



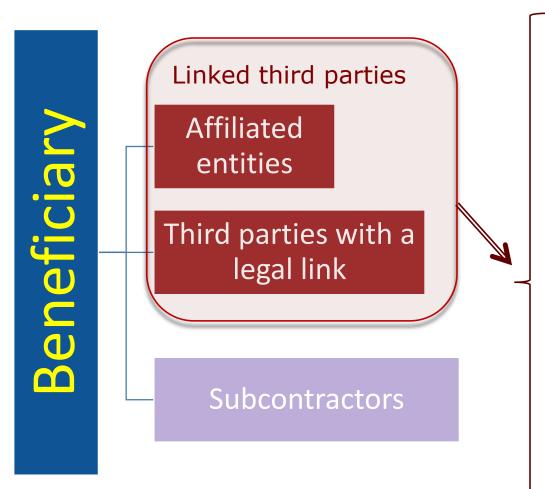
Summary: Third parties (2)



- Ensure best value for money and avoid any conflict of interests
- Estimated costs and tasks must be identified in the budget and Annex 1
- If not identified in Annex 1, S2R JU may still approve them without amendment if specifically justified in the periodic technical report and not entailing changes to the Agreement (beneficiary bears the risk of rejection).
- Article 13 GA



Summary: Third parties (3)



- Similar to FP7 Special Clause 10
- Must be identified in the GA - PIC
- Separate tasks / budget
- Same <u>cost</u> eligibility criteria like beneficiaries
- NEW: S2R JU may request them to accept joint and several liability for their EU contribution in order to protect the EU's financial interests.
- Article 14 GA



Consortium Agreement (1)

The S2R JU is NOT part of it.

Key issues addressed in the Consortium Agreement (Indicative list):

- Internal organisation of the consortium.
- Management of access to the electronic exchange system.
- Distribution of EU funding.
- Settlement of internal disputes.
- IPR (to be decided before signature of contract)
- Risk management / collective responsibility
- Liability, indemnification and confidentiality arrangements between the beneficiaries.



Consortium Agreement (2)

- Mandatory unless exceptionally provided otherwise in the work programme/call.
- Must not contradict the GA.
- Should be negotiated and concluded before the signature of the GA (or serious risk that prolonged disagreement jeopardises the action).
- Costs related to the preparation of the Consortium Agreement are not eligible.



Ethics and Security

- Ethics review is conducted in order not to fund proposals that contravene ethical principles. Proposals that are security sensitive must undergo a security screening
- 1. Self-assessment at the stage of proposals submission
- 2. Ethics review during the selection procedure
 - Clearance
 - Conditional clearance (Ethic issues to be addressed in Annex 1)
 - > definition of ethics requirements
 - > Ethics deliverables
 - Recommendation for ethics checks. In parallel with GAP
- 3. Ethics checks, review and audits
- Common ethics issues (1) participation of humans in research, (2) protection of personal data,
 (3) participation of third countries, (3) dual use



ACCESS RIGHTS TO BACKGROUND

- The beneficiaries must identify and agree on what **constitutes background** for their action.
- The agreement may take any form (e.g. positive list, negative list). It may be a separate agreement or may be part of the consortium agreement (article 41).
- If access to background is subject to **legal restrictions or limits**, the beneficiary must inform the other beneficiaries before signing the GA
- Access must be given:
 - o For the implementation of action tasks: the default rule is royalty-free.
 - For the exploitation of results: under fair and reasonable conditions.



OWNERSHIP OF RESULTS

- Results normally belong to the beneficiary that produced them.
- Automatic joint ownership If beneficiaries have jointly generated results and it is not possible to establish their respective contribution (or to separate them for protection), the beneficiaries automatically become joint owners. The beneficiaries concerned must conclude a joint ownership agreement.
- The beneficiaries must ensure that they can fulfil their obligations under the GA regarding results, by making arrangements with any third parties that could claim rights to them



IPR (3)

ACCESS TO RESULTS

- The beneficiaries must provide access to results, if it is needed:
 - by another beneficiary, for implementing action tasks or exploiting results
 - by an affiliated entity of another beneficiary, to exploit the results produced by the beneficiary to which it is affiliated unless otherwise provided for in the consortium agreement.
- Access rights are not automatic; they must be requested (in writing).
- The agreement by the beneficiary owning the results (on the request for access)
 may be in any form (tacit, explicit, in writing or oral).



Suspension of the GA

Costs incurred during the suspension period are NOT eligible.

By the beneficiaries (Art. 49.1):

• Exceptional circumstances (e.g "force majeure") makes implementation impossible.

By the JU (Art.49.2 GA):

 A beneficiary has committed or is suspect of having committed substantial errors irregularities, or fraud, or serious breach of obligations under the GA.



Termination

By the beneficiaries (Art. 50.1 & 50.2):

 Notification must include the reason why and the date the termination will take effect.

By the JU (Art.49.2 GA):

• Only for the grounds listed under Art. 50.3.1 GA.

Eg. No accession to the Agreement; implementation of the action is prevented by force majeure; a beneficiary is declared bankrupt; etc.



5 – Manage your project:

Financial aspects Reporting, payments,
budget and cost categories



5.1 - Reporting & payments



Technical deliverables

- The S2R JU will undertake regular review for each of the funded project to ensure the Deliverables are on-track and of the necessary quality
 - ➤ Those "investment gate controls" are set in the GA for Members' project as Annual → month of April, before payments
 - For OC projects the control will be based on the received deliverables and project review may also happen during the same period



Reporting Periods OC

S2R Governance Handbook: Project awarded through Open Calls, the cycle is in line with the usual practice applied within H2020 projects. Consequently, the reporting period for interim payment ends is not combined with the annual cycle but has been set every 12 months after the start of the project, for projects between 18 to 24 months, and every 18 months for longer life projects.

ARTICLE 20 — REPORTING — PAYMENT REQUESTS

ARTICLE 20 — REPORTING — PAYMENT REQUESTS

20.1 Obligation to submit reports

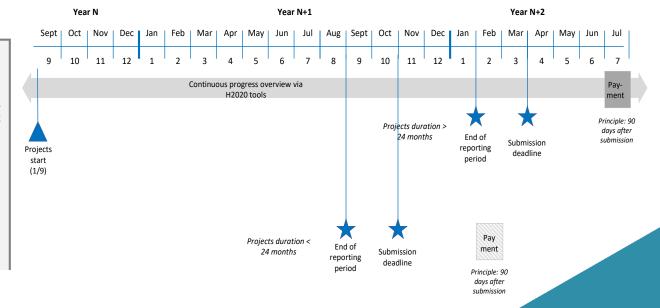
The coordinator must submit to the [Commission][Agency] (see Article 52) the technical and financial reports set out in this Article. These reports include the requests for payment and must be drawn up using the forms and templates provided in the electronic exchange system (see Article 52).

20.2 Reporting periods

The action is divided into the following '**reporting periods**':

- RP1: from month 1 to month [X]
[- RP2: from month [X+1] to month [Y]
- RP3: from month [Y+1] to month [Z]
[same for other RPs]

- RPN: from month [N+1] to [the last month of the project].]





Types of payments (Article 21)



One *pre-financing*



© One or several interim payments



One payment of the balance



Payments

- Payments will be made to the coordinator to the bank account established in the grant agreement
- Coordinator must distribute the payments to the beneficiaries without unjustified delay
- The coordinator will inform about the **distribution of the payments**: if the S2R JU requires it, in the event of a recovery at payment of the balance, if the participation of a beneficiary is terminated
- If the S2R JU does not pay within the deadline, the beneficiaries are entitled to a late-payment interest



Pre-financing

One pre-financing payment

When

 Within 30 days from the signature of the grant or 10 days before the starting date, whichever is latest

How much

- Usually = maximum grant amount / number of periods
- Retention 5 % of maximum grant for Guarantee
 Fund

Characteristics

 It remains the property of the EU until the payment of the balance



Pre-financing

	EXAMPLE		
Maximum grant amount (Article 5.1)	Funding rate	Reporting periods	Guarantee Fund (5 % x 1 000 000)
1 000 000	100%	3	50 000

Usual pre-financing = maximum grant amount / number of periods

Pre-financing Payment

283 334 € + 50 000 € = 333 334 €

Transferred to the consortium

Transferred to the Guarantee Fund



Guarantee Fund

- Participant's Guarantee Fund is established amounting to
 5% of total funding contribution
- The Guarantee Fund belongs to all beneficiaries of grant agreements under H2020
- Financial interests generated by the Guarantee Fund will serve to cover against financial risks
- The amount contributed to the Fund will be reimbursed at the end of the final payment after the end of the project



After the end of each interim period

Periodic report ⇒ submitted by coordinator 60 days after end of reporting period

Periodic Technical Report

- ✓ explanation of the work carried out
- ✓ overview of progress (milestones and deliverables)
- √ summary for publication
- ✓ plan for the exploitation and dissemination of results (if required)
- ✓ answers to the questionnaire

創

Periodic Financial Report

- √ Financial Statement (individual & summary)
- ✓ Explanation of the use of the resources



After the end of each interim period

An interim payment

When

• 90 days from reception of periodic reports

How much

- EU contribution corresponding to the eligible costs incurred in the reporting period
- Limit = 90 % of the maximum grant amount

Characteristics

• Ineligible costs will be rejected and not taken into account for the payment



After the end of the last period

Final report ⇒ submitted by coordinator 60 days after end of last reporting period

In addition to the periodic report

Final Technical Report

- ✓ summary for publication
- ✓ overview of results and their exploitation & dissemination
- ✓ conclusions of the action and socioeconomic impact

Final Financial Report

- ✓ Summary Financial Statement
- ✓ Certificate on Financial Statement (if needed)



After the end of the last period

A payment of the balance

When

• 90 days from reception of final reports

How much

- Reimburses the remaining part of the eligible cost incurred
- Includes the release of the Guarantee Fund (GF)

• If

• If Σ payments made < final grant amount : payment

Characteristics

- If Σ payments made > final grant amount : recovery → first by offsetting with GF released, if not enough, by a recovery order
- If applicable: receipts & reduction of the grant will be taken into account to determine the final grant amount



Final grant amount: example

Maximum grant amount	Approved eligible costs	Funding rate	If Receipts	If Reduction
200	220	100%	30	20

Step 1

Total approved eligible costs X reimbursement rate (100% research actions/70% and 100% innovation actions)

Step 2

The lower between Step 1 and the maximum amount of the grant

Lower between (220; 200) = 200

Step 3

If reduction due to the no-profit rule
(Profit (only if positive) = Step 2 + receipts – Eligible cost)

$$200 - (200 + 30 - 220) \Rightarrow 200 - 10 = 190$$

Step 4

If reduction due to improper implementation or breach obligations under GA, the lower between Step 3 and the reduced maximum grant

Lower between $(190; (200 - 20)) \Rightarrow$ Lower between (190; 180) = 180



Reporting: what if...?

(Article 20.8)



The consortium is late: no reports on time









One beneficiary is late: its report is not ready

The Coordinator may decide to submit the reports without that beneficiary

Beneficiary's costs will be considered 'zero' for this reporting period, but it can declare its costs with the next reporting period



Reporting

The S2R JU analyses the reports and:



The reports are complete and satisfactory, so it pays



The reports are incomplete / further information is needed:







In exceptional cases the S2R JU may:

- Reject the reports giving justification
- Suspend the payments for one or more beneficiaries
- Terminate the grant



Reminders for the financial reports

- Linked third parties fill in a separate financial statement but only their beneficiaries can encode it in the IT system
- Don't forget to submit the Certificate on the financial statements (for beneficiaries and/or the linked third parties), if needed
 - * as part of the final report
 - * when total EU contribution claimed by the beneficiary on the basis of actual costs + unit costs for average personnel ≥ EUR 325.000 (excluding e.g. flat rates !)



5.2 - Budget and cost categories



Budget Transfers

1				Est	timated eligible* cost	s (per budget	category)						
		A. Direct person	nel costs		B. Direct costs of subcontracting	[C. Direct costs of fin. support]	D. Other direct costs	E. I ndirect costs		[F. Co	osts of]		
	A.1 Personnel		A.4 SME owner salary	s without			D.1 Travel						
	A.2 Natural persons contract	under direct	A.5 Beneficiaries natural persons				D.2 Equipment		15.16.		[F.2 Coss of]		
	A.3 Seconded person	ns					D.3 Other goods and services		[F.1 Co	st ofJ			
	(A.6 Personnel for pr research infrastructu						D.4 Costs of large research infrastructure						
Form of costs****	Actual	Unit a	Unit XX EUR,		Actual	Actual	Actual	Flat-rate	Ur xxx EU				
			AX EUK)	nour		 				K/unik			
	·//	Total (b)	No hours	tal (c)	(d)	(e)	(f)	(g)	No units	Total	Total		
Beneficiary 1	500.000	o	100	3.213	150.000	0	325.000	207.053	0	0	0		
Beneficiary 2	0	300.000	0	0	> 0	0	125.000	106.250	0	0	0		



Budget Transfers

Budget transfers and re-allocation	Amendment needed?
From one beneficiary to another	NO
From one budget category to another	NO
Re-allocation of Annex 1 tasks	YES
Transfers between forms ofcosts (actual costs, unit costs, etc.)	YES if the 'form' receiving thetransfer wa not included in the budget (example a new unit cost)
Transfers within personnel costs	NO
New subcontracts	YES (strongly advised)



Eligibility

- Staff working on the project must keep time records (hours they spend on the project; regularly (daily, weekly); countersigned by a supervisor
- You must declare costs based on the actual amounts spent (AGA Article 5, Article 6(1)): Personnel Costs based on actual staff costs; Other direct costs based on actual costs for the project (AGA Article 6,2 D); Depreciation costs for assets; Real costs of consumables
- You cannot, under any circumstances, sub-contract to a project partner (AGA Article 13)



Personnel Costs

CALCULATING PERSONNEL COSTS

ACTUAL PERSONNEL COSTS

Calculation method defined in the model GA

UNIT COSTS



Fixed by the Commission

Calculated by the beneficiary in accordance to its usual accounting practices

(Average personnel costs)

for the owners of SME beneficiaries without a salary and natural persons without a salary





Other Direct Cost

- Cost must be actual, identifiable and verifiable (Art. 6 AGA)
 - No estimation of costs
 - No budgeted costs
- May include energy and power supply if can be measured and if it is the general practice to include actual cost to a project and not include it to the overheads
- Spare part may be included but only from the portion of actual consumption
- Contracts when they do not cover the implementation of action task but they are necessary (audit certificate, translation, consultant, setting up a website if not identified in Annex 1 as a task to the project) Art. 10 AGA
- Depreciation of equipment only in case directly used in projects, otherwise subject to timesheets (No % approach)



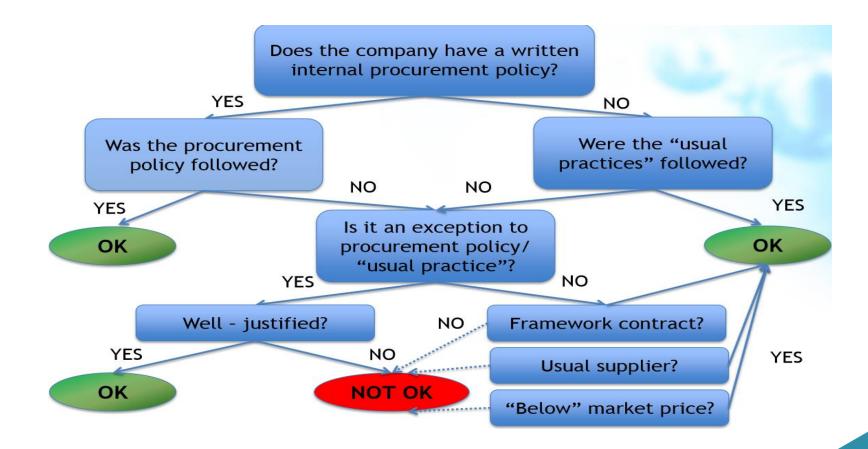
Subcontracting – Art. 13

- Subcontracts cover the implementation of action task as described in Annex 1 (Website, testing, building a prototype or any other defined in Action tasks)
- Not covered by the flat rate of indirect cost
- Subcontracting between beneficiaries in the same project is not allowed (p. 133 AGA)



Best Value for Money

Decision tree...
a possible
approach
but refer always
to the AGA
principles





Controls and audits: ex-ante

- Financial viability
 - Most beneficiaries exempt from detailed analysis; only systematic check for coordinators when requested EU funding for the action is ≥ EUR 500 000
- Certificates
 - Certificate on the financial statements: Only for final payments when total EU contribution claimed by the beneficiary on the basis of actual costs + unit costs for average personnel ≥ EUR 325.000 (excluding e.g. flat rates!)
 - Certificate on the methodology: Optional for average personnel costs (now under unit costs)



Controls and audits: ex-post

- "Ex-post" controls
 - Audits of the S2R performed by EC services on behalf of S2R JU limited to two years after the payment of the balance
 - Audits performed by the European Court of Auditors
 - OLAF Investigations....
- Extension of audit findings
 - Former "extrapolation" now included in the AGA
 - In the case of systemic or recurrent errors, irregularities, fraud or breach of obligations



6 - Manage your project: **Financial Aspects** Do's and Dont's

Please help us to help you to avoid errors!



Consequences of errors

Controls and audits are undertaken by the S2R JU (AGA Article 22) and the European Court of Auditors ... OLAF

Identified errors could lead to:

- Recovery of the undue amount (some time after you have received the money!)
- Penalties
- Reputational damage
- Financial losses
- etc



GAP checks

- Check that all third parties have been clearly declared (AGA) Articles 6, 11, 12, 14)
- Check that all sub-contracting of scientific (or other) work has been clearly declared (AGA Article 13)
- Using in-house consultants? please check the rules carefully (AGA Article 6.2 A2)
- Is a partner an interest group without staff? normally staff costs relate to employees, this may be better declared as sub-contracting (AGA Article 6.2, A1)



Time records

You must keep time records!

Typical errors:

- Staff working on the project and sick or on holiday at the same time
- Hours claimed cannot be supported
- Impossible number of hours claimed



Actual Costs

You must declare costs based on the actual amounts spent

- Typical errors
- Declaration of the agreed budget for the project the budget is a maximum amount, not THE amount or a price!
- Full costs of assets charged
- Internal charging system with no relation to real costs
- No demonstrated link of consumables to the project



Best Value

You must demonstrate "best value" in purchasing (AGA Article 10) and sub-contracting (AGA Article 13)

- some level of tendering to demonstrate "best value" e.g. tender, three offers, market survey
- We will normally accept your standard practices, when properly used
- We will normally accept commercial agreements already in place
- Naming the supplier in the contact does not mean that you do not have to demonstrate best value



Best Value

You must demonstrate "best value" in purchasing and sub-contracting

Regular errors

- "best value" not demonstrated no tender, no offers, no market survey
- Participants own normal practices not applied
- No documentation kept



5 most common errors

- 1. Direct costs apportioned, not measured
 - 2. Time sheets
- 3. Best value for money (subcontracting and purchase of goods)
 - 4. Basic vs additional remuneration
- 5. In-house, near off-site, semi-permanent, teleworking consultants

5+. Same old friends: no papers, depreciation "in one shot"



Direct Cost Examples

- Administrative staff members doing project accounting:
 - -> can I charge them to the project?

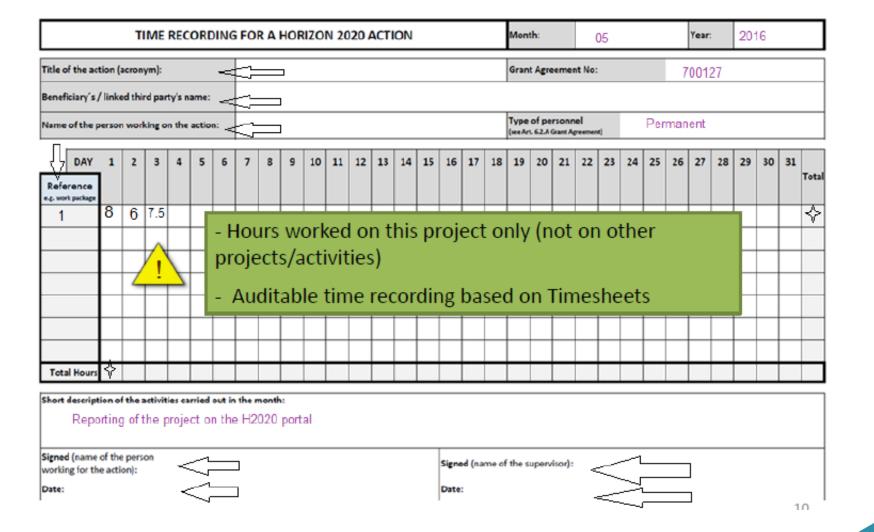
Yes, with time sheets...

- I have a big multi-purpose equipment and I use it for several activities and projects:
 - -> can I charge its depreciation to an EC project as a % of total capacity based on my experience?

No. I have to measure its use.



Timesheets examples





Timesheets examples

Electronic timesheet:

- 1. Electronic signature linking the electronic identity data with the electronic validation data require a password and user name
- 2. There is a documented secure process for managing user rights
- 3. An auditable log of all electronic transactions



Declaration for persons working exclusively on the action:

Model available in the AGA (version 19/12/2014)

the whole reporting period	
from/	←



Only one declaration can be
made per reporting period for
each person

Declaration on a person working exclusively on a H2020 action

Title of the action (acronym)		ant Agreement mber		
Beneficiary's/linked third party's name				
Reporting period covered by this declaration ¹				
Reporting period number	from (date)	to (date)		
This document certifies that \dots 2 has worked for the beneficiary/linked third party exclusively on the above-mentioned H2020 action during (chose one below):				
☐ the whole reporting period				
from/				
Short description of the activities carried out during the period covered by this declaration				
Reference (e.g. work package)	ivities			
SIGNATURES				
		he person working exclusively on ction		
Date:/		Date:/		
Signature:		ature:		
1 Only one declaration can be made per reporting period for each person working in the action. 2 Insert name of the person. 3 Insert date. 4 Insert date. 5 The person must keep timesheets for any hours worked for the action outside the period indicated herein.				



Hours worked for the action

You <u>cannot</u> declare:

- → Budgeted time (what you indicated for the budget)
- → Estimated time (e.g. person 'guessing' at the end of the year)
- → Time allocation (e.g. x % of the contractual time of the person)



Hours declared to the action must be supported by reliable records and documentation!



Best Value for Money Errors...

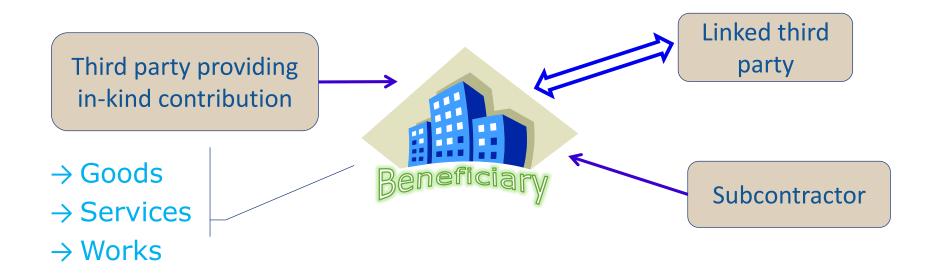
You must demonstrate <u>'best value for money'</u> and take measures to <u>avoid 'conflict of interests'</u> in sub-contracting and in Purchase of Goods

Regular errors

- 'Best value' not demonstrated no tender, no counter-offers, no market survey.
- Participants' own normal practices not applied.
- No documentation kept.
- Conflict of interests overriding any competition.



Third Parties' warnings





The beneficiary retains the sole responsibility for the work and the costs declared!

If something goes wrong with the third party, the beneficiary will be responsible.



7 – Amendments, legal basis





7.1 – Legal Basis



Amendments General (1)

Article 55 AGA

WHAT?

An amendment to the grant agreement is necessary to change GA specific data, GA options, **Annexes 1 and 2**

Consequences

The amended provisions **become** an integral part of the GA

other provisions remain unchanged and have full effect



Amendments General (2)

- An amendment is necessary whenever there is a need to change the GA
- Amendments may NOT result in changes that would impact the award decision.
- The general terms and conditions of the GA can NOT be changed via amendment.
- The amendment will take effect either on the day of its entry into force or on the specific date(s) indicated in the amendment.



Amendments: When?

Requests will be introduced **before the end of the action** (i.e. date set out in Article 3)

Exception: After the end of the action in exceptional cases (e.g. change of coordinator/bank account to make the payment of the balance)

Requests will be submitted **sufficiently in advance** (to allow preparation and proper analysis before the changes are due to take effect)



Amendments: Who?

Coordinator submits & signs amendments on behalf of the beneficiaries (Annex 3 – Accession Form)

Exception: if change of coordinator without his/her agreement, request must be done by another beneficiary (acting on behalf of the other beneficiaries)

Coordinators must ensure internally the agreement of the consortium based on their internal decision-making processes

(e.g. unanimity, simple or qualified majority etc. set out in the consortium agreement)



Amendments: how?



Prepared electronically

Requesting party will encode the amendment request

- * Indicate the reasons
- * Upload the supporting documents
- * Get validations done before submitting the request

(e.g. new legal entity, new bank account validations)

Submitted & signed electronically (by PLSIGN) **Counter signed electronically** by receiving party (by PLSIGN)





7.2 - Cases where an amendment is necessary (some examples)



Beneficiaries - changes

1. Removal of a beneficiary whose participation is terminated (Article 50.2 and 50.3)

- If it never became a beneficiary:
 - o non-accession to GA, or
 - o non-provision of requested declaration on joint and several liability Beneficiary is removed from the beginning
- For other reasons set out in Article 50
- Annexes 1 and 2 will be changed.
- If the coordinator is removed, the amendment has to propose a new coordinator.
- LTP participating with the beneficiary will be automatically removed.



Beneficiaries - changes

2. Adding a new beneficiary

- New beneficiary must be validated and have a PIC before the submission.
- New beneficiary and accession date are added to the Preamble of GA. It is possible to choose between the date of the signature of the accession form; the date of entry into force of the amendment or a fixed date (future or retroactive).
- Annexes 1 and 2 will be changed.
- Depending on type of beneficiary (e.g. JRC, IO) and if it was/was not receiving EU funding options will be added/modified/become applicable



Coordinator - changes

3. Change of coordinator

- 'Handover date' will be added in the Preamble of the GA
- There is NO need for an amendment to change the person in charge of the coordination of the project.
- Amendment request <u>can be</u> submitted after the end date of the action (e.g. coordinator in bankruptcy)

4. Change of bank account for payments

Banking information must validated before submitting the request

5. Change of the option for 'authorisation to administer'

 Option in Article 41.2 is added/removed/modified (e.g. change of name of the entity with 'authorisation to administer')



Action or action implementation - changes

6. Change to Annex 1 (description of the action)

- Significant change of the action tasks (e.g. if tasks are added/removed) or their division among the beneficiaries
- Changes concerning in-kind contributions provided by third parties (against payment or free-of-charge) or subcontracts
- Changes concerning the tasks to be carried out by linked third parties and related costs
- Changes to the options in the GA (e.g. options are removed or added)
- Example: adding the options to provide trans-national access to research infrastructure requires normally a modification of Annex 1 and/or Annex 2



Financial Aspects - Changes

7. Change to Annex 2 (estimated budget)

- Budget transfer between beneficiaries or budget categories (or both) due to a significant change of Annex 1
- Budget transfer to a form of costs that is not provided for in Annex 2

Examples: from actual costs to the unit costs for SMEs owners from actual costs to average personnel costs

8. Change of Annex 2a: 'Additional information on the estimated budget'

If the calculation of the unit costs needs to be provided or updated



No Amendment

- 1. Change of name, address, or other legal entity data of the coordinator, beneficiary, linked third party
- 2. Change of beneficiary due to universal takeover (In FP7: 'universal transfer of rights and obligations')
- 3. Changes to name of the bank, address of branch and name of account holder

(validation of this data on the PP by the S2R JU is sufficient)





7.3 – Amendment procedure



Amendment Procedure (1)

After submission of request the receiving party has 45 days for 'evaluation and validation' (may exceptionally be extended)

Agreement

Rejection

Request for additional information

Extension of the deadline for assessment

If no reaction within deadline, tacit rejection



Amendment Procedure (1)

A request containing several changes to the GA will be considered as a package and:

- it cannot be divided into several requests;
- request will be agreed or rejected as a whole;
- cannot be modified.

If there is **no reaction** within this deadline the request is considered to have been rejected

There is no tacit approval of amendments (contrary to FP7)



Entry into force and taking effect

- An amendment enters into force and is binding from the moment the receiving party signs it (in the electronic exchange system)
- An amendment takes effect (the changes will start to apply):
 - when the amendment enters into force, or
 - on the date agreed by the parties

This date should normally be after the entry into force

If an amendment request involves several changes, they could take effect on **different** dates (e.g. addition of beneficiary and change of bank account)

Depending on the type of change, the date of taking effect may have an **impact on the eligibility of costs**



8 - Communication and Dissemination



Communications

> Important for S2R! (and obligation on the GA)

- Communications plan in the proposal and the grant agreement
- Promote your project and its results beyond the project's own community
- Communicate your research in a way that is understood by non-specialists, e.g. to the media and the public
- Inform us in advance of communication activities expected to have a major media impact

> Communication ≠ dissemination

• Dissemination is a separate obligation (e.g. through scientific articles and conferences)





Communication and Dissemination

- See article 29 of the GA
 European Union / S2R support shall be highlighted
 - JU logo and the EU emblem to be displayed
 - Disclaimer to be added on any communication (publicity reflects the author's view and the JU is not liable of any use ...)
- Right for the S2R JU to publish information on the project
 - The consortium shall ensure that all necessary authorisations for such publications have been obtained
- Confidentiality:
 - During the project and for a period of 5 years after completion



Communication and Dissemination

- <u>Inform the JU PM and communication unit</u> of any participation in conferences/events, new videos, dissemination action, etc... We can help!
- The planning of mid-term conference and final conferences need to be agreed with the S2R JU, so that we can have a Programme approach
 - Try already to check with your complementary project for synergies in this respect
- If you are planning to develop a project logo (non compulsory for S2R), this needs to contain <u>"a Project of the S2R JU" in the logo itself</u>
- → Please note that if the dissemination/communication actions foreseen by the Grant Agreement or requested by the S2R JU in the points above are not implemented, the S2R JU will reduce the S2R JU contribution to the project accordingly to art.29.6 of the GA (reduction can reach 100% of GA contribution)



Use of S2R Label and Position

Extracts from S2R Governance and Process Handbook:

Projects documents with the S2R logo can only represent a S2R position* if the following conditions are all met:

- a) There is an agreement within the Project and following the Project decisional procedure
- b) There is an agreement within the respective IP/CCA SteCo
- c) There is an official agreement from the S2R JU, through a written confirmation of the S2R ED

Similarly, any Project beneficiary or S2R Member can only officially represent a S2R position* if:

- the conditions a, b and c above are all met in case of a Project beneficiary
- the conditions b and c above are all met in case of a S2R Member

The Project Coordinator or the concerned S2R Member will need to promptly inform the S2R Programme Manager assigned to the Project or the S2R Head of R&I should such cases arise.

*List of official S2R positions available in Annex G



Thank you for your attention





FOUNDING MEMBERS



Ansaldo STS A Hitachi Group Company

BOMBARDIER





SIEMENS

THALES



ASSOCIATED MEMBERS

























Virtual Vehicle Austria consortium+ (VVAC+)



Swi'Tracken consortium

Smart DeMain (SDM) consortium













米





acciona



getzner)

















TATA STEEL





Fraunhofer



KIRCHDORFER



2M





PKP

POLSKIE KOLEJE PAŃSTWOWE Spółka Akcylna





Slovenske železnice



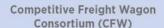






voestalpine









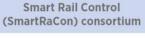
















CRAILENIUM







AERnnova

tecnalia) inspiring









