


## ANNEX 1: Call ranked list(s)

List	EU Rank	Final Score	Coordinator		Topic	Type of Action	Proposal				Financial Details			
			Organisation	Country			Number	Acronym	Title	Duration	Total Cost	Requested EU Contribution	Recommended EU Contribution	Cumulative Recommended EU Contribution
Main list	1	11.5	DEUTSCHE BAHN AG	DE	S2R-CFM-CCA-01-2018	Shift2Rail-RIA-LS	826151	PLASA-2	Smart Planning and Virtual Certification	24	823,643.75 €	823,643.75 €	823,643.75 €	823,643.75 €
Main list	1	11.5	ALSTOM TRANSPORT SA	FR	S2R-CFM-IP1-01-2018	Shift2Rail-RIA-LS	826054	PINTA2	IP1 Traction TD1 and Brakes TD5 – Phase 2	27	12,680,591.25 €	12,680,591.25 €	12,680,591.25 €	12,680,591.25 €
Main list	1	12.5	Construcciones y Auxiliar de Ferrocarriles, S.A.	ES	S2R-CFM-IP1-02-2018	Shift2Rail-RIA-LS	826098	CONNECTA-2	CONtributing to Shift2Rail's NExt generation of high Capable and safe TCMS. PhAse 2.	30	4,699,925.00 €	4,699,925.00 €	4,699,925.00 €	4,699,925.00 €
Main list	1	12	THALES DEUTSCHLAND GMBH	DE	S2R-CFM-IP2-01-2018	Shift2Rail-IA-LS	826141	X2Rail-3	Advanced Signalling, Automation and Communication System (IP2 and IP5) – Prototyping the future by means of capacity increase, autonomy and flexible communication.	36	23,431,376.00 €	17,281,436.44 €	17,281,436.44 €	17,281,436.44 €
Main list	1	10	NETWORK RAIL INFRASTRUCTURE LIMITED	UK	S2R-CFM-IP3-01-2018	Shift2Rail-IA-LS	826255	IN2TRACK2	Research into enhanced track and switch and crossing system 2	30	14,458,786.00 €	13,409,656.14 €	13,409,656.14 €	13,409,656.14 €
Main list	1	11.5	NETWORK RAIL INFRASTRUCTURE LIMITED	UK	S2R-CFM-IP4-01-2018	Shift2Rail-IA-LS	826385	MaaSive	Enabling Maas in the IP4 Ecosystem	28	7,341,330.00 €	5,196,029.80 €	5,196,029.80 €	5,196,029.80 €
Main list	1	10.5	BOMBARDIER TRANSPORTATION GMBH	DE	S2R-CFM-IP5-01-2018	Shift2Rail-IA-LS	826206	FR8RAIL II	Digitalization and Automation of Freight Rail	36	7,021,059.25 €	5,499,695.38 €	5,499,695.38 €	5,499,695.38 €
Main list	1	15	IKERLAN S COOP	ES	S2R-OC-IP1-01-2018	Shift2Rail-RIA	826073	Safe4RAIL-2	Safe architecture for Robust distributed Application Integration in rolling stock 2	30	3,991,632.50 €	3,991,632.50 €	3,991,632.50 €	3,991,632.50 €
Reserve list	2	13.5	UNION DES INDUSTRIES FERROVIAIRES EUROPEENNES - UNIFE	BE	S2R-OC-IP1-01-2018	Shift2Rail-RIA	826181	Win4TCMS	Wireless innovation for TCMS	30	3,998,908.75 €	3,998,908.75 €	3,998,908.75 €	7,990,541.25 €
Main list	1	13.5	TECHNISCHE UNIVERSITEIT DELFT	NL	S2R-OC-IP2-01-2018	Shift2Rail-RIA	826347	MOVINGRAIL	MOVing block and Virtual coupling New Generations of RAIL signalling	24	1,299,135.00 €	1,298,135.00 €	1,298,135.00 €	1,298,135.00 €
Reserve list	2	12.5	UNION DES INDUSTRIES FERROVIAIRES EUROPEENNES - UNIFE	BE	S2R-OC-IP2-01-2018	Shift2Rail-RIA	826170	MOVERS	MOVing block and Virtual coupling Enhancement of RailwayS	24	1,299,948.75 €	1,299,948.75 €	1,299,948.75 €	2,598,083.75 €
Main list	1	14.5	CONSORZIO UNIVERSITA INDUSTRIA - LABORATORI DI RADIOCOMUNICAZIONI	IT	S2R-OC-IP2-02-2018	Shift2Rail-RIA	826324	GATE4RAIL	GNSS Automated Virtualized Test Environment for RAIL	24	1,019,993.75 €	1,019,993.75 €	1,019,993.75 €	1,019,993.75 €
Main list	1	14.5	INSTITUT FRANÇAIS DES SCIENCES ET TECHNOLOGIES DES TRANSPORTS, DE L'AMÉNAGEMENT ET DES RESEAUX	FR	S2R-OC-IP2-03-2018	Shift2Rail-RIA	826152	EMULRADIO4RAIL	EMULATION OF RADIO ACCESS TECHNOLOGIES FOR RAILWAY COMMUNICATIONS	18	748,097.50 €	748,097.50 €	748,097.50 €	748,097.50 €
Reserve list	2	13	THE UNIVERSITY OF BIRMINGHAM	UK	S2R-OC-IP2-03-2018	Shift2Rail-RIA	826240	CRANE	Comprehensive Radio Access Network Emulator	18	749,692.50 €	749,692.50 €	749,692.50 €	1,497,790.00 €
Reserve list	3	11.5	SCUOLA SUPERIORE DI STUDI UNIVERSITARI E DI PERFEZIONAMENTO SANT'ANNA	IT	S2R-OC-IP2-03-2018	Shift2Rail-RIA	826101	TREAT-EM	Communication Environment Assessment vAlidation Emulator	15	749,880.00 €	749,880.00 €	749,880.00 €	2,247,670.00 €
Main list	1	13.5	FUNDACIO EURECAT	ES	S2R-OC-IP3-01-2018	Shift2Rail-IA	826250	Assets4Rail	Measuring, monitoring and data handling for railway assets; bridges, tunnels, tracks and safety systems	30	5,506,631.25 €	4,710,167.25 €	4,710,167.25 €	4,710,167.25 €
Reserve list	2	12	UNION DES INDUSTRIES FERROVIAIRES EUROPEENNES - UNIFE	BE	S2R-OC-IP3-01-2018	Shift2Rail-IA	826171	InMODE4Rail	Innovative Monitoring DEvices for Railway Assets	30	5,625,030.00 €	4,747,251.38 €	4,747,251.38 €	9,457,418.63 €
Reserve list	3	11.5	UNIVERSITAET BREMEN	DE	S2R-OC-IP3-01-2018	Shift2Rail-IA	826201	VIS4RAIL	Vision Based Measurements and Monitoring for Railways	24	2,128,312.50 €	1,849,818.75 €	1,849,818.75 €	11,307,237.38 €
Main list	1	11	UNION DES INDUSTRIES FERROVIAIRES EUROPEENNES - UNIFE	BE	S2R-OC-IP4-01-2018	Shift2Rail-RIA	826172	SPRINT	Semantics for Performant and scalable Interoperability of multimodal Transport – SPRINT	24	1,999,500.00 €	1,999,500.00 €	1,999,500.00 €	1,999,500.00 €
Main list	1	13	UNION INTERNATIONALE DES TRANSPORTS PUBLICS	BE	S2R-OC-IP4-02-2018	Shift2Rail-RIA	826252	Shift2MaaS	Shift2Rail IP4 enabling Mobility as a Service and seamless passenger experience	24	1,499,968.75 €	1,499,968.75 €	1,499,968.75 €	1,499,968.75 €
Main list	1	12	UNIVERSITA DEGLI STUDI DI ROMA TORVERGATA	IT	S2R-OC-IP5-01-2018	Shift2Rail-RIA	826087	M2O	MAke RAIL The HOpe for protecting Nature 2 future OPERATION	24	599,955.00 €	599,955.00 €	599,955.00 €	599,955.00 €
Main list	1	12.5	INSTITUT FÜR INNOVATIONEN UND TRENDFORSCHUNG KURZ IITF	AT	S2R-OC-IPX-01-2018	Shift2Rail-RIA	826189	FLEX-RAIL	Paradigm shifts for railway – Technology uptake strategies for a lean, integrated and flexible railway system	30	1,099,230.00 €	1,099,230.00 €	1,099,230.00 €	1,099,230.00 €
Reserve list	2	12	THE UNIVERSITY OF BIRMINGHAM	UK	S2R-OC-IPX-01-2018	Shift2Rail-RIA	826199	FIRST	Future Innovative Railway Systems and Technologies	36	1,099,772.50 €	1,099,672.50 €	1,099,672.50 €	2,198,902.50 €
Reserve list	3	11	VDI/VDE INNOVATION + TECHNIK GMBH	DE	S2R-OC-IPX-01-2018	Shift2Rail-RIA	826256	MIRIAM	Mapping disruptive Innovation for Rail towards Advanced Mobility	24	1,075,871.25 €	1,075,871.25 €	1,075,871.25 €	3,274,773.75 €
Reserve list	4	10	FIT CONSULTING SRL	IT	S2R-OC-IPX-01-2018	Shift2Rail-RIA	826317	SHARP	Shifting to Advanced Railway Paradigms	24	1,132,187.50 €	1,132,187.50 €	1,132,187.50 €	4,406,961.25 €
Main list	1	12	EURNEX e. V.	DE	S2R-OC-IPX-02-2018	Shift2Rail-CSA	826055	TER4RAIL	Transversal Exploratory Research Activities for Railway	24	499,992.50 €	499,992.50 €	499,992.50 €	499,992.50 €
Main list	1	12.5	THE UNIVERSITY OF BIRMINGHAM	UK	S2R-OC-IPX-03-2018	Shift2Rail-CSA	826238	MVDC-ERS	Flexible medium voltage DC electric railway systems	36	125,000.00 €	125,000.00 €	125,000.00 €	125,000.00 €
Main list	2	12.5	THE UNIVERSITY OF BIRMINGHAM	UK	S2R-OC-IPX-03-2018	Shift2Rail-CSA	826156	B4CM	Blockchain as a Distributed Ledger for Attribution of RCM Data in Rail	36	124,951.25 €	124,951.25 €	124,951.25 €	249,951.25 €


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