

# Topics for railway projects 2018-2020

## DRAFT PROPOSALS FOR 2018-2020

Environmentally sustainable & intergrated approach disposal of railway life garbage in Asia Pacific	APRA	<b>CARS</b>	70	70	60	200
Track economical maintenance decision based on life cycle cost	APRA	<b>CARS</b>	70	70	60	200
Comparative Study of HSR Talents Cultivation Modes Based on HSR Operation	APRA	<b>CARS</b>	100	50	50	200
Research on key technology of braking system intelligent control for EMU	APRA	<b>CARS</b>	50	50	50	150
Research on Application of Big Data Technology in Wheel Rail Force Identification	APRA	<b>CARS</b>	70	70	60	200
Railway near miss events analysis and management research	APRA	<b>CARS</b>	70	70	60	200

# DRAFT PROPOSALS FOR 2018-2020

INTERES	Integration of reservation systems	APRA	<b>FPC</b>	PASS	60			60
ENTE	Evaluation of night trains efficiency	APRA	<b>FPC</b>	PASS	100			100



## DRAFT PROPOSALS FOR 2018-2020

BRADEL	Broken rails detection and localisation within 1520 system	APRA	<b>KTZ</b>	RSD	100	100		200
DSRIBL	Diagnostic system for the railway infrastructure installed on locomotive	APRA	<b>KTZ</b>	RSD	100	100		200
DOWPRS	Development of optimal wheel profile for 1435/1520 rolling stock	APRA	<b>KTZ</b>	RSD	30	50	40	120
DUCS	Development of 1435/1520 universal coupling system for rolling stock	APRA	<b>KTZ</b>	RSD	20	70	40	130
DD	Documentation development for 1435 mm gauge to be used on 1520 mm system side	APRA	<b>KTZ</b>	RSD	50			50
LCPGD	Logistic conception for perishable goods delivery	APRA	<b>KTZ</b>	FREIG HT				0
PROTRAS	Personnel training on the base of KTZ training centre	APRA	<b>KTZ</b>	F-VAL	50			50

## DRAFT PROPOSALS FOR 2018-2020

HRHE	Handbook for Rail Higher Education (TALLENTS)	APRA	MIIT	F-VAL	60	60	60	180
WLC	Wheel life cycle	APRA	MIIT	RSD	50	50		100
MULTIRAIL	Promotion of rail component in multimodal transit	APRA	MIIT	F-VAL	40	60		100
RSE	Extension of service life of rolling stock by improving its mechanical features	APRA	MIIT	RSD	30			30
PROTALENT	Promoting rail talents to implement AP vision 2050	APRA	MIIT	F-VAL	30	50	60	140
RAILWHEEL	Wrought wheel performance improvement on the basis of comprehensive monitoring of operating conditions	APRA	MIIT	RSD	30	40		70

## DRAFT PROPOSALS FOR 2018-2020

BDTM	Big Data based Timetable Management	APRA	<b>NIIAS</b>	RSD	40	80	120
MASS-CS	Methods of Assessment of Signaling Systems for Cybersecurity	APRA	<b>NIIAS</b>	RSD	30	60	90
TERM	Train Electronic Route Map	APRA	<b>NIIAS</b>	RSD	60	60	120

## DRAFT PROPOSALS FOR 2018-2020

MMS	Multiplicative model for effects from station construction / refurbishment	APRA		<b>RZD</b>	PASS	45	90		135
SMEC	Standard checklist for station preparation for mass events	APRA		<b>RZD</b>	PASS	30			30
STATIC	Station connections to urban environment: evaluation of “station – city” balance	APRA		<b>RZD</b>	PASS	30	20		50

## DRAFT PROPOSALS FOR 2018-2020

PORS	Physics of railway systems	APRA		<b>UIC</b>	RSD	60	60		120
MEC	Maintenance in Extreme conditions	APRA		<b>UIC</b>	RSD	60	60		120
DII	Drones for infrastructure inspections	APRA		<b>UIC</b>	RSD	50			50
CCRI	Certification Center for Railway Infrastructure	APRA		<b>UIC</b>	RSD	50	50		100
DBTR	Data Base of Technical Requirements for APRA interoperability	APRA		<b>UIC</b>	RSD	50			50
AGCS-APRA	Technical interoperability for gauge changing (AGCS application in APRA)	APRA		<b>UIC</b>	RSD	60	60		120
EEBPW	Energy Efficiency Best Practice Workshops	APRA		<b>UIC</b>	F-VAL	54	54	54	162
ECOPAS	Improvement of outputs and service extension of Ecopassenger APRA	APRA		<b>UIC</b>	F-VAL				0



## DRAFT PROPOSALS FOR 2018-2020

MRTM	Modern technical rail maintenance	APRA		<b>VNIIZhT</b>	RSD	60	30		90
SPCCH	Selection process of catenary and current collection System for HSL	APRA		<b>VNIIZhT</b>	RSD	100	100		200
OMPE	Organization of maintenance of procured equipment	APRA		<b>VNIIZhT</b>	RSD	50			50
ECOMC	Methodology of railway ecosystem observation and control	APRA		<b>VNIIZhT</b>	F- VAL	70	70		140

## DRAFT PROPOSALS FOR 2018-2020

PASSAGE	Workshop on accessibility	MULTI		<b>UIC</b>	PASS	30			30
TOPRAIL	Railway tourism - study on clients' needs	MULTI		<b>UIC</b>	PASS	80			80
SMGG	Station Managers Global Group	MULTI		<b>UIC</b>	PASS	23	23	23	69
TODS	Transit-oriented development from stations	MULTI		<b>UIC</b>	PASS	29	29	29	87
TBA	The railway station of the future	MULTI		<b>UIC</b>	PASS	27	27	27	81
BPSS	Best practices for Smart Solutions	MULTI		<b>UIC</b>	PASS	27	16	16	59
QStation	Benchmark on quality assessment of stations	MULTI		<b>UIC</b>	PASS	23	23	23	69

# DRAFT PROPOSALS FOR 2018-2020



Priority	Votes	No / Acronym	Project title	Region	Opt-in	Leader	UIC support	2018 _€	2019 _€	2020 _€	Total _€	Note / Comment	Action Areas1	Action Areas2	Action Areas3	Framework Matrix 1	Framework Matrix 2	Framework Matrix 3	
<b>Total</b>								<b>2248</b>	<b>1802</b>	<b>712</b>	<b>4762</b>		<b>9</b>						

Your vote to be confirmed by e-mail [kinderis@uic.org](mailto:kinderis@uic.org)

to be filled in

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- Strategic action areas**
- C&P; Cooperation and partnerships
  - DM; Data management
  - SI; Skills Improvement
  - II; Investments incubator
  - TA; Technical Advice
  - BPS; Best-practice sharing
- Framework Matrix for future UIC Asia-Pacific projects**
- CR/EI; Cost reduction/ Efficiency improvement
  - H/S; Harmonization/ Standardization
  - RI; Regional Integration
  - R&I; Research and Innovation
  - Q&C; Quality and Customers
  - ES; Environmental Sustainability
  - UD; Urban Development
  - Sa; Safety
  - Se; Security
  - EDT; Expertise development and training

## How the projects are developed and approved

