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Rail 1st Call Proposals - an update

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Work Content Call 1B

- Integrated Projects
 - Enhancing the capacity of European railway infrastructure, safely (RTD)
 - Enhanced vehicle - infrastructure interaction
 - Innovative vehicle concepts
- Network of Excellence
 - Virtual centre for technology and knowledge management
- Traditional Instruments





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Enhancing the capacity of European railway infrastructure, safely (1B)

Background:

- doubling and tripling passenger and freight traffic by 2020

Expected outcome:

- technologies and strategies to attain maximum infrastructure availability without comprising safety





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Current Status- Infrastructure capacity

- UIC developing a proposal which also embraces DG TREN management and operational issues (Performinfra)
 - Dr I Korpanec UIC
korpanec@uic.asso.fr
- UK led consortium
 - Dr A Hassami Atkins Rail
Ali.Hessami@atkinglobal.com





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Enhanced vehicle - infrastructure interaction **(1B)**

Background:

- increasing rail capacity requires holistic approach to innovation and rolling stock

Expected outcome:

- new products and design allowing optimum operational capacity





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Current status- Vehicle - infrastructure IP

- Project proposal being facilitated by UIC
 - Dr I Korpanec UIC
korpanec@uic.asso.fr





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Innovative vehicle concepts (1B)

Background:

- different technical and operational conditions of the national rail systems

Expected outcome:

- inter-operable rolling stock based on modular approach(es) to train architecture, design, manufacturing





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Current Status - Innovative Vehicle

- Proposal being compiled through the facilitation of UNIFE (ModTrain)
 - L di Pietrantonio UNIFE
loris.di.pietrantonio@unife.org





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Virtual centre for technology and knowledge management **(1B)**

Background:

- maintain an integrated railway system of S & T knowledge in a fragmenting sector

Expected outcome:

- centre of knowledge facilitating engineering interfaces and qualification of new products and services





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Current Status - Virtual Centre

- Proposal being drafted by University/Institute organisations from France, Germany and the UK with inputs from industry, railway operators and research institutes
 - W Steinicke FAV
WSteinicke@fav.de





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Call 1B Specific Targeted Research

- Integration & validation of measurement technologies to ensure optimised environmental operation of both rolling stock and infrastructure
- strategies, systems for clean maintenance, dismantling and recycling
- design and manufacture of new construction concepts for rail infrastructure (low noise, low maintenance, safety)
- design and manufacturing technologies to improve vehicle-track interaction including inspection technologies
- driving assistance technologies
- man-machine interface





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Current Status - STREPs

- Rail-guided shuttles for freight and/or passengers
 - J Wallascheck jw@hni.uni-paderborn.de
 - H Bendien ITAPS itaps@t-online.de
- durable urban rail infrastructure
 - D2S international +32 16 238 910
- bridge technology
 - Lulea University lennart.elfgren@ce.luth.se
 - J Kobberstad inno AG jt.kobberstad@inno-group
- innovative transport for freight corridors
 - P Mortimer phil@trucktrain.demon.co.uk

