

Funding, Programming, & Governance issues in International transport cooperative research

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AB Volvo

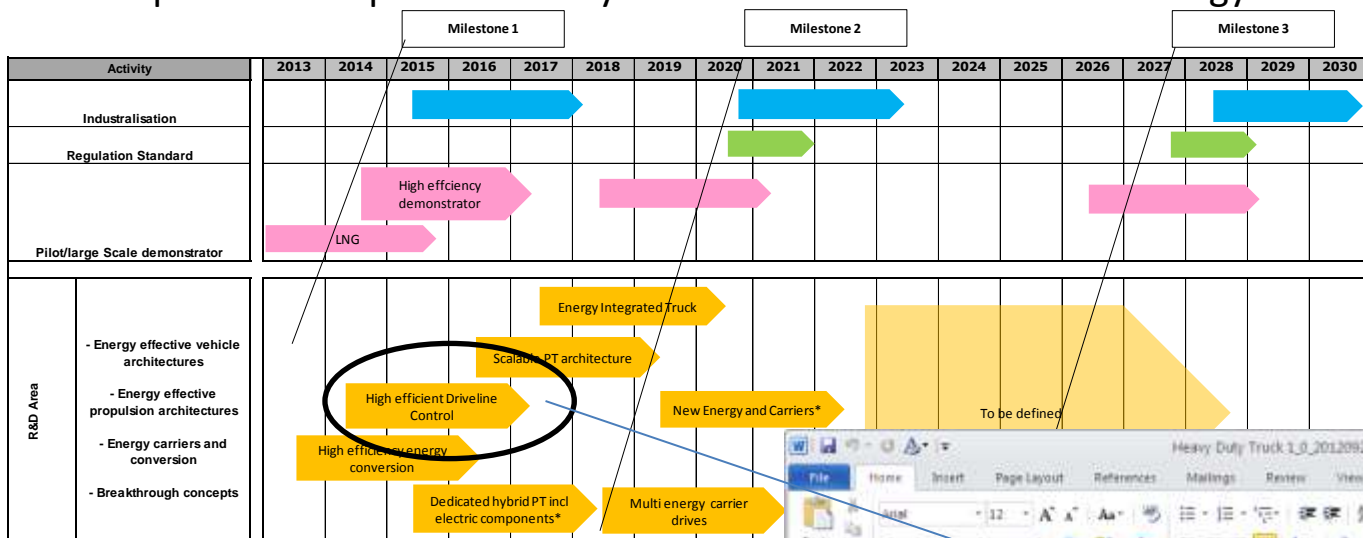
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European R&I governance need to be strengthened to be a good base for international collaboration

- Learnings from a joint US DoE – Sweden/EU project. US set up
 - Clear quantitatively specified goals & milestones
 - Parallell competing projects toward same goals
 - Large efforts
 - Multi year projects, but yearly
 - review of results accomplished
 - decision on resource allocation for following year
 - adaptation of project plan
- In Sweden we now push mechanisms like these
- We need to modify H2020 mechanisms
 - Flexibility needed, today project definitions are “written in stone”
 - Etc

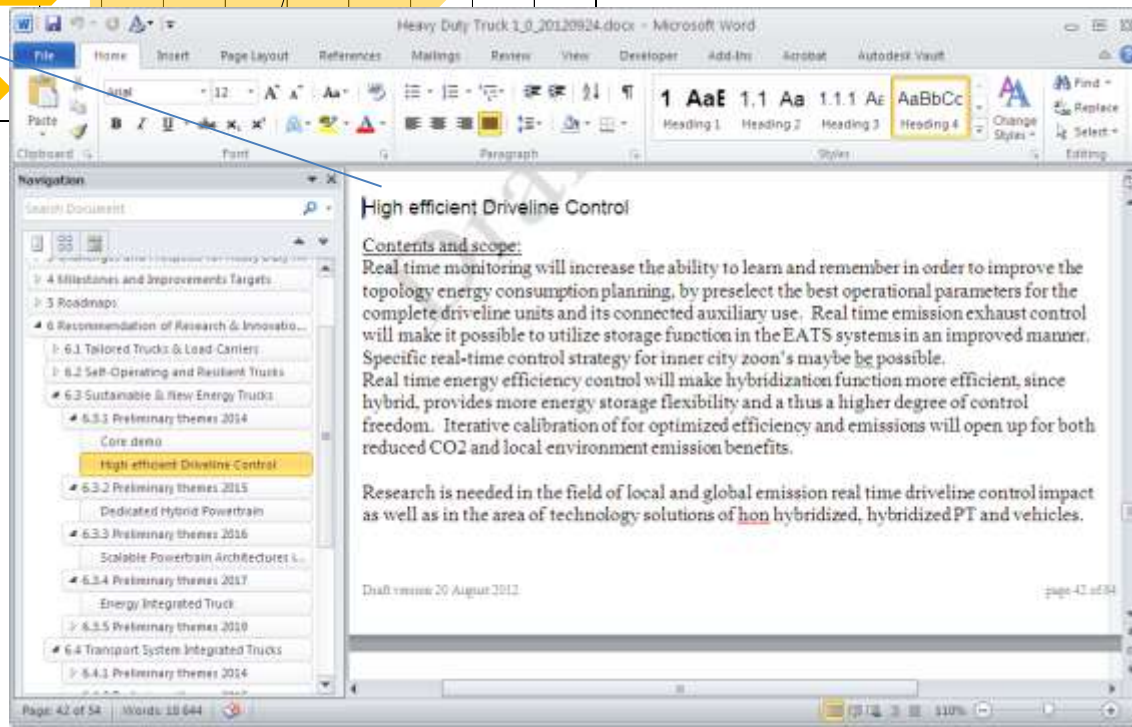
Whole R&I "chain" must be addressed & monitored in EU/International collaboration – Use Road Maps

Example: Roadmap with Activity Themes - Sustainable & New Energy Trucks



Select useful Research & Innovation Activities

Follow up and adjust



Learnings from joint EU – China Viajeo project

Objectives for the project, which deals with green urban mobility and transport

- Joint standards for energy storage, recharging infrastructure, multimodal journey planning, ticketing across country borders, etc
- Overcome barriers in the rules of participation in publically funded programs

Results so far

- Recommendations on matching programs (money, source and instrument) and conditions for cooperation & participation (equal partnership and mutual benefit)
- http://eeas.europa.eu/delegations/china/press_corner/all_news/news/2013/20130708_en.htm

Plans

- Explore opportunities for effective and efficient cooperation in relation to Horizon 2020, national programs (EU-side), and programs such as 863,973 and other relevant programs (China-side). Horizon 2020 is open to Chinese participation, which is not (yet) matched by a Chinese program.
- Opportunities for interrelating running demonstrations in EU and China will be explored, depending upon the willingness of the partners of the demonstration projects involved. The aim is to work on transferability of innovative solutions based on equal partnership and mutual benefit. It is recommended to use the methodologies developed for selecting 100 smart cities in China, and for mutual learning and cooperation practiced in e.g. the CIVITAS framework in Europe.

EU-China workshop "Towards Innovative Joint Solutions for Common Urbanisation Challenges": EU-CHINA JOINT RECOMMENDATIONS

	Topics	Mechanism	Actors EU/CN	Specific framework conditions to improve
<p>Sustainable development and urban planning</p>	<ul style="list-style-type: none"> Urban governance and institutional innovation including the issues of land use, public services and infrastructures, in particular: Better understanding of urbanisation-related laws and issues (relations between different levels of administration) Research on urban community planning Innovative development strategies for urbanisation Sustainable coordinated development of urban and rural areas Research on planning for low-efficiency and idle land for sustainable urban development Financing city development, public services and innovation, including platforms for infrastructures/investment; in particular the innovative research on urban financing modalities based upon the needs of new urbanisation development Placing people at the centre of urban development: human-centred planning, in particular: NGOs, mechanisms for public participation and social engagement Ⓣ Ρεσεαρχη ον συσταιναβλε υρβανισατιον επαλυατιον ινδιχατοροσ σψατεμ The environmental dimension of sustainability, in particular: New evaluation systems guiding development towards sustainable urbanisation (indicators, tools) Comparison study with an innovative perspective (current problems, global challenges) Ⓣ Ρελεσπαντ στυδιεσ ον ιντεγρατιον οφ αριχυλτυραλ μιγραντ ποπυλατιον ιντο χιτιεσ Research on the Hukou residence registration system reform that promotes integration of agricultural population into cities Research on the land system reform that promotes integration of agricultural population into cities Research on planning that promotes integration of agricultural population into cities Research on public participation that promotes integration of agricultural population into cities Research on the adaptability of agricultural population's integration into cities 	<ul style="list-style-type: none"> Twinning, networking, exchange of experiences Joint research and innovation projects Establishment of living labs Exchange of staff at local level Establishing EU-China Joint Research Institute 	<ul style="list-style-type: none"> COM. DG RTD JPI Urban Europe NDRC Ministry of Housing, Urban and rural development Ministry of Agriculture MOST Cities and regions One or two universities on each side of EU and China 	<ul style="list-style-type: none"> Definition of concepts Improved reciprocal knowledge on urbanisation processes
<p>Green urban mobility and transport</p>	<ul style="list-style-type: none"> Vehicles (zero emission vehicle, eg. buses taxis, city delivery vehicles) Network management (multimodal modelling, monitoring and decision support; eco-driving) Sustainable urban mobility plans Green mobility planning research on the basis of urban function analysis Studies on the experiences of the green urban mobility pilots 	<ul style="list-style-type: none"> Matching programmes, Demonstration projects Extension of on-going projects Establishing EU-China Joint Research Institute 	<ul style="list-style-type: none"> COM. DG RTD / DG MOVE, NDRC Ministry of Science and Technology Ministry of Transport Viajeo , Solutions projects Regions and cities One or two universities on each side of EU and China 	<ul style="list-style-type: none"> Joint standards for energy storage, recharging infrastructure multimodal journey planning, ticketing across country borders... Overcome specific barriers in the rules of participation in funding programmes
<p>Sustainable energy Solutions for Cities</p>	<ul style="list-style-type: none"> exchange of urbanisation related data; developing common indicator systems; exchanging experiences concerning existing smart (or eco-) city demonstration projects; exploring cooperation opportunities with China on the basis of the research agendas of RHC and the E2BA; elaborating models for comparing different EE investment alternatives; designing cost-effective retro-fitting strategies; contribution to Chinese demonstration projects. Research on smart energy for cities 	<ul style="list-style-type: none"> Twinning, networking, exchange of experiences between existing projects / demos Establishing EU-China Joint Research Institute 	<ul style="list-style-type: none"> COM. DG RTD / DG ENER EERA Smart Cities JP EERA Smart Grid JP Renewable Heating and Cooling Platform (RHC) Energy Efficient Buildings Association (E2BA) NDRC MOST Selected Chinese cities Urban Planning and Design Institute of Nanjing University (Beijing) One or two universities on each side of EU and China 	<ul style="list-style-type: none"> Different standards, indicators Difficulty for European companies to access Chinese public procurement procedures Many Chinese authorities in charge of decision-making