

Main action area (5): Cross-modal/ cross-border transport and Integration of Novel Mobility Services in Public Transport

Roadmap on cross-modal/ cross-border transport and Integration of Novel Mobility Services in Public Transport

Topic (5): Cross-modal/ cross-border transport and Integration of Novel Mobility Services in Public Transport				
Action Field (1) Technical and Operational Layers of Mobility	Action Items			Responsible Stakeholders
	Short term (2020)	Mid-term (2025)	Long term (2030)	
1,a) Vehicles	Support new mobility services for public transport by <ul style="list-style-type: none"> • the development of flexible and modular public transport vehicles of different sizes that can easily be adapted and combined depending on demand. • equipping public and private vehicles with on-board units which provide necessary information and billing possibilities. 			<ul style="list-style-type: none"> • Industry • R&D community • Operators
		Promote the development of train sharing concepts by supporting R&D on autonomous rail vehicles for individual group routes.		
1,b) Infrastructure	Support innovation and upgrading of transport and cross-border/cross-modal transport infrastructure in Europe by <ul style="list-style-type: none"> • renewing the Connecting Europe Facility (CEF) for Transport or setting up a new funding instrument • promoting the creation of a holistic European concept for long distance public 	Support the implementation of the European long-distance public transport infrastructure concept by subsidies and enforcement. Enable harmonized cross-border transport also to neighboring countries such as Russia, Turkey by defining the same infrastructure requirements for smart and sustainable corridors within the		<ul style="list-style-type: none"> • Policy makers • Operators • Industry

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	transport infrastructure, including e.g. tunnels, standards for railways.	EU and coordinated with neighboring countries, in order to avoid different technologies or systems within the Eurasian Region.		
	Enable a full-capacity use of existing transport infrastructure and vehicles by <ul style="list-style-type: none"> exploring concepts to combining transport of passengers and freight developing a concept and management system to use existing (public) transport infrastructure by different operators and mobility providers to cover demand. Further explore sharing concepts for infrastructure and fleets from different operators across borders in the EU. Focus should be on rail transport. 	Further support full capacity use by <ul style="list-style-type: none"> implement promising use cases of combining transport of passengers and freight incentivize the usage of infrastructure and fleets by different operators. exploit the benefits of deploying autonomous vehicles in seamless journeys 		<ul style="list-style-type: none"> Policy Operators Freight service operators

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1,c) Transport offers	Promote the establishment of Mobility as a service (MaaS) for the integration of cross-modal user-centric transport offers in European transport systems by <ul style="list-style-type: none"> • supporting dialogue between relevant stakeholders for integration of MaaS in public transport • establishing a forum for communication, cooperation, understanding and agreeing on the roles of public and private stakeholders in providing MaaS services, ensuring service levels and managing subsidies at all levels • creating a common agenda and vision for MaaS among the stakeholders on European, national and local levels • creating a data analytics and exchange framework enabling Mobility as a Service 	Promote a user-friendly, effective and efficient transport system in Europe with integrated mobility services by <ul style="list-style-type: none"> • providing open application programming interfaces (API) available throughout all modes of transport providing open interfaces into user data and statistics for all mobility service providers and hence, enabling demand-oriented cross-modal transport offers • supporting working groups and meetups on the use of open data/interfaces in public transport to communicate their results to governments (e.g. Open Transport initiatives³) • monitoring efficiency of different transport solutions with respect to time, costs, carbon footprint, and other aspects, with a focus on multimodal transport solutions or MaaS offers 	Investigate the possibilities of an EU-wide MaaS standard/service.	<ul style="list-style-type: none"> • Policy makers • Industry • Operators
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	Improve matching of user-centric transport supply and demand by providing a concept for an integrated data platform to aggregate demand and supply data for mobility services. This includes e.g. contents and parameters as well as legislative means to regulate access to user data through e.g. National Access Points.	Develop and deploy that integrated platform enabling new user-friendly services in passenger and freight as e.g. flexible timetables. Demonstrate platform in a suitable pilot scenario.	Support the Pan-European roll-out of this integrated data platform in public transport.	<ul style="list-style-type: none"> • Policy Makers • European Transport and Mobility Forum • Operators • Freight service operators • R&D community • User representatives

³ Existing Open Transport initiatives: <https://opentransport.com/> , <https://transport.okfn.org/> , <http://opendatahandbook.org/solutions/en/Public-Transport-Data/>

Topic (5): Cross-modal/ cross-border transport and Integration of Novel Mobility Services in Public Transport				
Action Field (2) Societal Aspects of Mobility	Action Items			Responsible Stakeholders
	Short term (2020)	Mid-term (2025)	Long term (2030)	
2,a) Policy and regulatory framework	Promote the reduction of the number of vehicles by providing a forum to discuss possible regulatory changes and incentives for a shift to public transport, including integrated sharing services and active mobility options.	Promote the implementation of the incentives discussed in the forum by addressing member states and organizations supporting cities.		<ul style="list-style-type: none"> • Policy makers (European commission, national central governments, municipalities) • R&D community • European Transport and Mobility Forum • Operators • Mobility providers
	Make the transport system more transparent for all stakeholders and users by promoting the regulation of sensitive fields such as liability (for products, data processing, etc.), applicable law at EU or other level, or competition. Support policy makers in this regard.	Develop a uniform compendium of liabilities and responsibilities of each transport mode in order to establish the basis for the success of the European transport system.		<ul style="list-style-type: none"> • Policy makers (European Commission, National central governments) • Operators • European Transport and Mobility Forum
2,b) User perspective	Promote user-centric sustainable transport by <ul style="list-style-type: none"> • ensuring equity through e.g. more frequent/ more affordable public transport offers or integrated mobility services. • Raising public acceptance of the concept of not-owning 	Promote multi-modal seamless transport and increase the ease of use by <ul style="list-style-type: none"> • harmonizing terms of service of transport solutions across EU • implementing trade-off solutions, considering the different stakeholders' needs 		<ul style="list-style-type: none"> • Policy makers • R&D community • Operators

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	but using a vehicle.	<ul style="list-style-type: none"> introducing single ticketing together with collective liability of operators in case of delays, missing of rides, etc. facilitating common payment methods and integrated prices for using services and different modes in hubs enabling users to take informed decisions through real-time journey planners and a real-time rerouting system enable real time information for different cities from same source including and prioritizing active modes in travel information systems 		

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Action Field (3) Multi-Stakeholder Interaction and Processes	Action items			Responsible Stakeholders
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3,a) Collaboration of Stakeholders	Increase collaboration of stakeholders and foster seamless transport by developing a common approach to interoperability in a cross-modal task force of stakeholders. The common approach helps to increase the acceptance of trade-off solutions and shared risks and responsibilities.		Sustain and incentivize operators to shift towards shared business models to reduce the economic risk. Enable and optimize activities of freight integrators.	<ul style="list-style-type: none"> • Industry • Operators
3,b) Standardization	Improve usability of transport infrastructure for different modes and operators by ensuring technological fit and sufficient interoperability of individual systems, data and interfaces through standardization and/or common specifications.	Promote the wide use of open data and develop standards.		<ul style="list-style-type: none"> • Industry • R&D community • Operators • Freight service operators • Standardization bodies