Stakeholders information day

17th March 2016

5G verticals and services visions, constituency building, results and requirements in key domains, societal impacts

Strategic requirements for 5G in Europe: A social and economic perspective SMART 2014/0008

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DG CONNECT 5G socio-economic study

Automotive Healthcare

Transport

Utilities

Smart Cities

Non-urban areas

Smart Homes

Smart Workplaces







Automotive



Constituency building

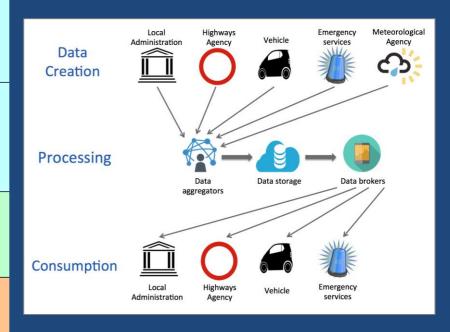
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Vision and vertical headlines

Verticals Benefits	Automotive (€ mn)	Healthcare (€ mn)	Transport (€ mn)	Utilities (€ mn)	Total (€ mn)
Strategic	Real-time Telematics data	Preventative care	Real-time Telematics data	Peak demand smoothing via smart meters	32,770
Operational	Supply chain integration and economies of scale and scope	Wearables and increased operational efficiency	Increased loads and operational efficiency	Operational efficiency from smart meters	11,850
Consumer	Infotainment	Reduced health care insurance	Delivery tracking information	Decrease in energy consumption	24,110
Third Party	Telematics data	Health data and reduced drug testing costs	Telematics data	Data sharing for Energy as a service	27,170
Total	75,600	5,530	8,300	6,470	95,900



New business models - Pay how you drive, pay where you drive, control groups in medical trials, pay when you drive, energy as a service.

Barriers - Development of key 5G capabilities, spectrum sharing, establishment of standards.





Vision and environment headlines

Environment Benefits	Smart City (€ mn)	Non-urban (€ mn)	Smart Home (€ mn)	Workplace (€ mn)	Total (€ mn)
Economic	Reduced traffic congestion	Enhanced access to broadband	Reduced cost of domestic burglary	Supply chain integration and economies of scale and scope	21,420
Social	Reduced road accidents	Online purchase savings	Reduced healthcare costs	Accident reduction	12,400
Environmental	Reduced congestion emissions	Reduced congestion emissions	Decrease in energy consumption	Reduced waste production	16,770
Total	8,122	10,540	1,329	30,600	50,590

New business models - Pay when and where you drive, home working, independent living, home systems integration, supply chain integration.

Benefits realisation requires - effective government frameworks and (capability and technical) standards, with strong and clear regulations particularly in relation to data exchange and data privacy.



