IEC TC 100
AGS Meeting

Study Session 5
5 June 2013, London

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General Trends E-Mobility

- The E-mobility Index by Roland Berger Strategy Consultants for Q1 2013 reveals that the key manufacturing sites for electric cars in the medium term will be Japan, US and Germany
- Government subsidies for e-mobility are falling in all countries analyzed – except China
- Battery safety and better infrastructure for e-mobility are still key challenges
- Technology: Japan and South Korea have the most sophisticated technology
- Industry: Japan is still the leader in making electric vehicles and battery cells, but South Korea is catching up fast
- Market: Global share of electric cars among new car sales is rising slightly, but still tiny

Report Fully Networked Car Worshop 6 March 2013, Geneva

- Organized jointly by ITU, ISO, IEC
- Intersection of automotive and IT spaces
- Reconciliation of life cycle of a car vs mobile device
- Priorities for standardisation
  - Safety
    - Active Safety – accident avoidance through enhanced risk warning, driver support and intervention
    - Vehicle-to-vehicle remote commication and hazard notification
  - Congestion solutions
    - Moving away from dependence on remote information infrastructure
    - Peer-to-peer vehicle communication
  - Electrification solutions
    - Charging Infrastructure
    - Wireless charging systems
    - Provider-to-vehicle communication
    - Additional data services during recharging
  - Managing nomadic devices

Workshop Conclusions

- Consumers and drivers expect the same connected experience in the car and outside the car
- Upgradeability is key to bridging the gap between the auto product, CE and software lifecycles
- Harmonization of broadcasting and internet protocols active consideration for the future of the networked car
- Bandwidth for the car to increase to accommodate maps, infotainment, etc. and will require a lot of processing power
- Cloud computing to come more and more into the automotive sector, so that the driver and navigation experience can carry over on different devices
- Driver distraction may be an increased threat to road safety; CE functionalities need to be enhanced, e.g. need for voice recognition and no small touchscreens
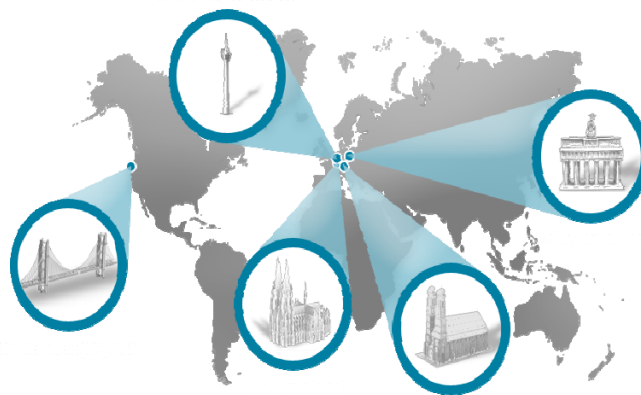
BMWi electric

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Recommendation to AGS

- Build liaisons
  - ISO/TC 22 Road vehicles
  - ISO/TC 204 Intelligent Transport Systems

Upcoming Event

- **HOW** can we deliver a Seamless Connected UX for any Smartphone attached to any Car?
- **HOW** will LTE and the Cloud enable the delivery of Innovative in-Car Services?
- **WHAT** Compelling Infotainment will Users Pay For?
- **WHICH** Apps will Define Consumer Control of the Car?
- **HOW** can we Ensure Increased Connectivity Equals Decreased Road Accidents?
- http://connectedcarsworld.com/ Connected Cars Conference 25-26 June 2013 in Amsterdam
- IAA 12-22 Sept. 2013 in Frankfurt

Links

- http://www.rolandberger.de/media/pdf/Roland_Berger_E-Mobility_Index_final_D_20130521.pdf
- http://www.worldstandardscooperation.org/assets/pdf/RPJ%20Presentation%202012-06-27.pdf
- http://www.worldstandardscooperation.org/assets/pdf/2013_FINAL_FNC_Report_2013-03.pdf?refid=Ref1716
- http://www.cencenelec.eu/standards/HotTopics/ElectricVehicles/Pages/default.aspx (includes a list of standards for charging of eVs)
- ftp://ftp.cen.eu/CEN/Sectors/List/Transport/Automobile/EV_Report_incl_annexes.pdf
- http://europa.eu/rapid/press-release_IP-13-40_en.htm („Type 2" plug as the common standard for Europe)