



Circolare AIIT - Piemonte e Valle d'Aosta - n. 34/giugno 2015

Notizie selezionate e riferimenti ad alcuni documenti pubblicati di recente sui temi del settore dell'ingegneria del traffico e dei trasporti.

1. Conto Nazionale delle Infrastrutture e dei Trasporti - Anni 2013-2014
 - <http://www.mit.gov.it/mit/site.php?p=cm&o=vd&id=3969>
2. Safety technologies in new vehicles
 - The safety-related technologies that manufacturers are increasingly equipping their new vehicles with are making those vehicles more appealing to their owners, according to the J.D. Power 2015 U.S. Automotive Performance, Execution and Layout (APEAL) Study. The study finds that 36 per cent of owners have blind-spot monitoring and warning systems in their vehicle (up seven percentage points from 2014); 21 per cent have lane-departure warning systems (up five percentage points); 46 per cent have park assist/backup warning (up four percentage points); and 25 per cent have collision avoidance/alert systems (up four percentage points).
 - <http://www.itsinternational.com/categories/location-based-systems/news/growing-use-of-safety-technologies-in-new-vehicles-appeals-to-drivers/>
3. Benefits of autonomous emergency braking
 - Autonomous emergency braking (AEB) systems on current model passenger cars reduce rear-end collisions by 38 percent according to new research based on real-world data. Autonomous Emergency Braking is becoming increasingly common on modern passenger cars. The low speed option normally consists of an automatic brake function that operates for speeds up to 30km/h or 50km/h. Previous studies have predicted significant expected benefits of AEB technology in low speed rear-end crashes but this study combined real-world data from five European countries and Australia to examine the effect of the system on actual crashes.
 - <http://etsc.eu/new-study-confirms-real-world-safety-benefits-of-autonomous-emergency-braking/>
4. Test centre for connected and driverless vehicles
 - The University of Michigan has opened Mcity, the world's first controlled environment specifically designed to test the potential of connected and automated vehicle technologies that will lead the way to mass-market driverless cars. Mcity was designed and developed by U-M's interdisciplinary MTC, in partnership with the Michigan Department of Transportation (MDOT). The 32-acre simulated urban and suburban environment includes a network of roads with intersections, traffic signs and signals, streetlights, building facades, sidewalks and construction obstacles. It is designed to support rigorous, repeatable testing of new technologies before they are tried out on public streets and highways.
 - <http://www.itsinternational.com/categories/location-based-systems/news/mcity-test-centre-for-connected-and-driverless-vehicles-now-open/>
5. Automated EV parking and charging concept
 - Six international partners are jointly developing new automated parking technologies, as part of an European Union (EU) research program. The V-Charge (Valet Charge) project is focused on automating the search for a parking space and on the charging of electric vehicles. The system being developed involves a vehicle that not only automatically looks for an empty parking spot, but if it finds a vacant space with charging infrastructure, it will inductively charge its battery. Once the charging process is finished, it automatically frees up the charging bay for another electric vehicle (EV) and looks for a conventional parking space.
 - <http://www.traffictechnologytoday.com/news.php?NewsID=71089>

6. Smart motorways across England

- Highways England has appointed six joint-venture companies to design and build ten smart motorways across England as part of a US\$2.3 billion investment. Three of these projects will start in autumn this year. The smart motorway schemes is delivering between now and 2021, will see 292 extra lane miles added to motorways. The hard shoulder will be converted to a traffic lane and signing and technology will tell drivers what speed to drive at, if lanes are blocked or closed and about incidents up ahead.
- <http://www.itsinternational.com/categories/utc/news/over-us23-billion-of-investment-awarded-to-upgrade-motorways-in-england/>

7. EU project offers funding for cities interested in developing

- An EU mobility project is offering European cities and transport providers funding and expertise to help them apply sustainable mobility measures related to electrified transport. The project is calling on interested cities to apply for a 'twinning' fund which will enable cities to make use of the electromobility expertise of ELIPTIC's partner cities and take part in workshops and study tours. The application deadline for cities interested in becoming an ELIPTIC twin city is 31 August 2015 .
- <http://www.eltis.org/discover/news/eu-project-offers-funding-cities-interested-developing-electromobilty>

8. Scottish electric roads project

- A radical and innovative project, based in Scotland, that aims to develop an electrically powered road, has appointed a senior consultant to drive the program forward. The TEV (Tracked Electrical Vehicle) plan consists of an electrically powered lane, where electric and hybrid cars can travel indefinitely without the need for charging and without using their batteries. Electric cars and fleet vehicles will drive on a pre-fabricated, dedicated lane under full automatic control, allowing passengers to travel safely at high speeds and enabling much greater passenger carrying capacities when compared with traditional motorways.
- <http://www.traffictechnologytoday.com/news.php?NewsID=71079>

9. Mobile Electric Vehicle charging

- Current EV-charging options usually require high infrastructure investment costs, plus the delay and problems of planning. Using Mobi Charger, businesses would be able to rapidly scale-up to meet demand for charging availability, while gaining a flexible, distributed-energy asset they can use to efficiently manage energy usage and costs. The system is an integrated system cost-efficiently powered by second-life EV batteries, and intelligently interconnected to the internet and electricity grid.
- <http://www.traffictechnologytoday.com/news.php?NewsID=71209>

10. Electrification of bus fleet in London

- London is continuing the electrification of its bus network with the announcement that two new routes will go emissions-free next year. The 507 and 521 will operate entirely with electric buses from autumn next year, lowering carbon emissions and helping to improve the city's air quality. The five-year contract to operate the routes has been awarded to Go Ahead following a competitive tender process, and will mean that 51 electric buses will operate across the two routes that will become the second and third pure electric bus routes in the capital.
- <http://www.traffictechnologytoday.com/news.php?NewsID=71197>

11. Combine public transport, carpooling and social media

- A new concept to advance public transport in European cities has launched by 'SocialCar', a three-year research and innovation project that seeks to assimilate carpooling into existing mobility systems by means of powerful route planning algorithms and the integration of 'big data' from public transport, carpooling and crowd sourcing. The partnership will also design the architectural and logical framework of the service by using open source software under the GNU General Public License, tested in 10 European cities.
- <http://www.traffictechnologytoday.com/news.php?NewsID=70747>