Position Paper for Web and Automotive

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- Cars will be finally connected to wireless network and become a Cloud Computing Client
- HTML5 will be "glue" which connects cars with Cloud-based services via Smartphone and pave the way for new service and business
- Automotive Vendors seek collaboration with ICT (Information and Communication Technology) companies in this area and understand the of standardization of APIs between Web and Automotive
- I have implemented many solutions of these kinds (examples are attached) not only for internal combustion engine vehicles but also for EV at NISSAN Motor Co. and launched in Japan, US, Europe and China. Based on the past experiences, with an addition of new technologies such as HTML5 and collaborations with other Japanese OEMs, I would like to propose a direction for the standardization.



Example of Big Data Applications (already implemented in Japan)

Crowd Sourced MAP







Possibilities to apply Big Data Analysis Probe data example Statistical processing Effective use of information Data collection Information delivery Social Network _ocation-Based Location GPS **Services** Services Wiper Rain Weather Info. \bigcirc Velocity change Traffic info. Velocity Information offering to **Prevent Danger** ABS Discovery of each NAVI potential danger Steering wheel Safety driving info. Acceleration and Brake **Drivers and Social** Environment info. deceleration **Benefits** and Traffic jam tail Accelerator Early detection **Possible Collision** of accident Air bag Emergency call to police/fire station or caution to Vehicle Condition surrounding vehicles **ECU RPM** Early detection or prevention of breakdown Fuel, State of Charge Contact to maintenance/security companies or 0---0nearest facilities temperature Gas & Charging Spot info. SOC

Processing Center

Providing attractive service first is key for acquiring critical mass and large probe data.

Source: National Museum of Emerging Science and Innovation

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Probe car



New Mobile Service Opportunities w/Big Data



Probe provides a unique advantage for Automotive Companies by providing probeoriginated new service opportunities. But.. data from large customer base is necessary.



Role of HTML5 for IVI Client

HTML5



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