# Wrap-up 3<sup>rd</sup> AAI Summit EV Technical session

4<sup>th</sup> December 2014 Bangkok, Thailand



3 rd AAI Summit, 2-4 Dec 2014, Bankok

1. Topics to be discussed in 3<sup>rd</sup> AAI Summit (EV

technical session)

- 2. Summary of presentations
- 3. Consensus: Topics for 4<sup>th</sup> AAI Summit



1. Topics for 3<sup>rd</sup> AAI Summit (EV technical session)

- Standardization of charging safety
- Interoperability
- Current issues and countermeasures
  - ✓ Drivers and challenges
- Current projects (research and demonstration)



- 2. Summary of presentations
  - JARI, Japan
    - ✓ Compatibility between EV and AC chargers
    - ✓ Introduce JARI's homologation scheme for AC chargers



2. Summary of presentations

## CAERI, China

- ✓ Three types of charging stations
  - 1. Integrated Battery Swapping
  - 2. Master-servant Battery Swapping
  - 3. Parking Vehicle Charging Station
- Introduce charging and running monitoring technology (for AC chargers)
- ✓ Hazard of high current charging to battery
- ✓ Published 19 related standards



- 2. Summary of presentations
  - ARAI, India
    - Major concern: How to cut down oil consumption?
    - National Electric Mobility Mission Plan (NEMMP) 2020 – expect total sales of 6-7 million xEV by 2020
    - Setting up CoEs, Demo city and Incentive policies
    - ✓ Standard for retro-fitment



- 2. Summary of presentations
  - MOLINA, Indonesia
    - ✓ Introduce Presidential Directive
    - Research roadmap of Molina Prototypes focus on passenger cars and expect to produce 10,000 units/year at the end of 2018 (for governmental use)
    - ✓ Establishment of National R&D Center for EV (CDTI-A) is very important



- 2. Summary of presentations
  - KATRI, Korea
    - ✓ Research on the development of safety
      - Assessment procedures for HEV
      - Assessment procedures for HFCV
    - ✓ Monitoring program of EV
    - ✓ Revision of Korean EVS regulations
    - Recent Korean Activities in UN/ECE/WP.29
      2<sup>nd</sup> EVS Informal Working Group



- 2. Summary of presentations
  - MAI, Malaysia
    - ✓ Green automotive lifecycle 3Rs, MFG, Life span, ELV
    - ✓ Challenges of EV
    - Different requirements, different technology; hence, different policies
    - ✓ EV penetration plan
    - Innovative collaboration is important Public agenda, Green agenda, National automotive policy agenda



- 2. Summary of presentations
  - TAI, Thailand
    - Stakeholders Car manufacturers, Energy/ Electricity Supplier, Government Agencies/ Academic Institutions
    - ✓ New excise tax structure based on CO<sub>2</sub> emissions
    - ✓ Demonstration projects
    - ✓ Current issues Role of EV, Strategic locations of charging stations



## 3. Consensus – Topics for 4<sup>th</sup> AAI Summit

- Issues encountered in each country (e.g. interoperability of AC chargers in Japan)
- Most appropriate technology for each country
- Efforts to transform commercial vehicles into EV
- Battery technology

