

Status of CAERI's Development of Standards for SEVIA

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August 23th



■ 2012.4-Present

- Chief Engineer of China Automobile Engineering Research Institute (CAERI)
- Responsible for electric vehicle standard research and setting .

■ 2010.2-2012.3

- Society of Automotive Engineers of China
- I am the editor of <Automotive engineering>

■ 1998.7-2010.2

- chief secretary of EV Standardization committee, chief engineer of Auto Standardization Research Department in China Automotive Technology & Research Center (CATARC)





I. Profile of SEVIA

II. Standard frame of SEVIA

III. International collaboration of SEVIA

History of SEVIA

■ Stated-owned Enterprise Electric Vehicle Industry Alliance

- Established in 2010, by SASACC
- 20 Members of SEVIA as followed

Vehicle and e-drive
Professional Committee

Battery Professional
Committee

Charge and service
Professional Committee



中国石化天然气集团公司
SINOPEC NATURAL GAS GROUP CORPORATION



2012FY Goal of SEVIA

Eight Interim BEV

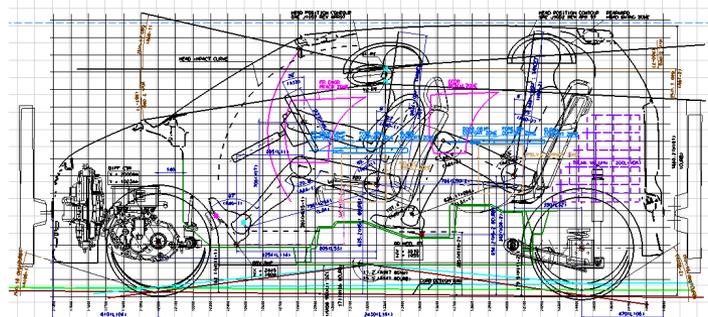
- Aimed at the city commuting small BEV
 - Power equal to 1.3L ICE car
 - V_{max} 100km/h , ranger 120km,
 - prices 100,000 RMB
- To the end of 2012, SEVIA provide 50% of this kind of EV in Chinese market (produced in China)



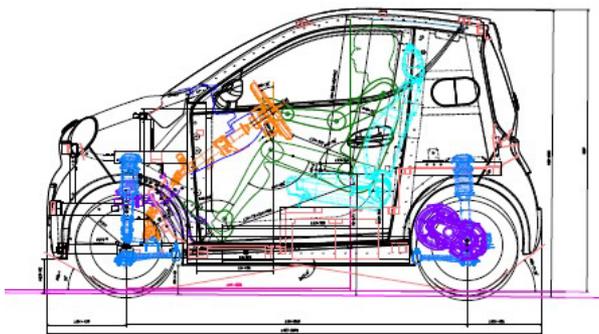


2015FY Goal of SEVIA

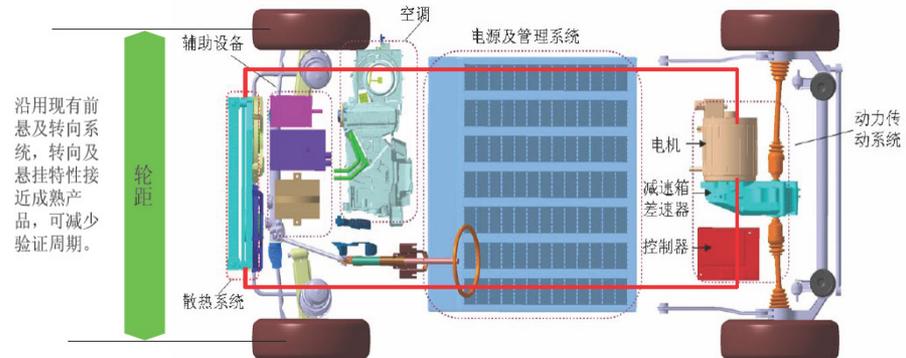
- Three BEV New Platform
- Power equal to less 1L to 1.8L ICE



FAW Platform



DFW Platform



CHANAN Platform



Profile of SEVIA

■Task:

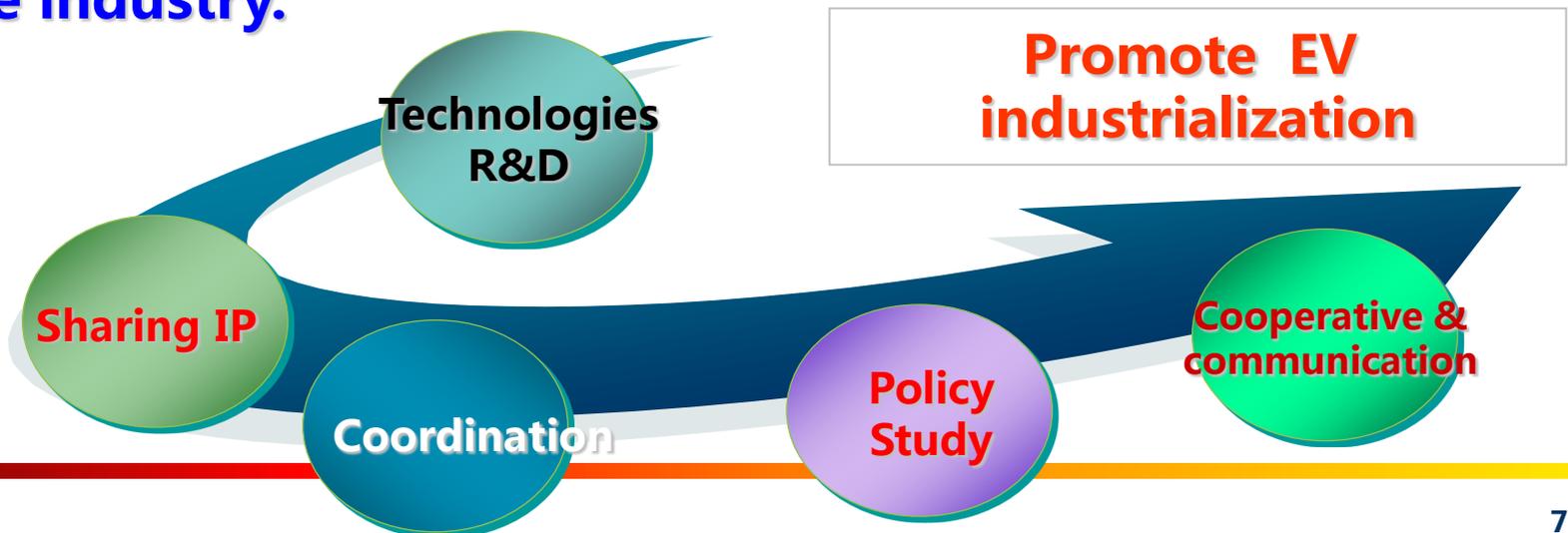
◆Innovation to promote the development of electric vehicle industry

■Objective:

◆Collaboration、Self-discipline、Win-win、Innovation、Development、Service

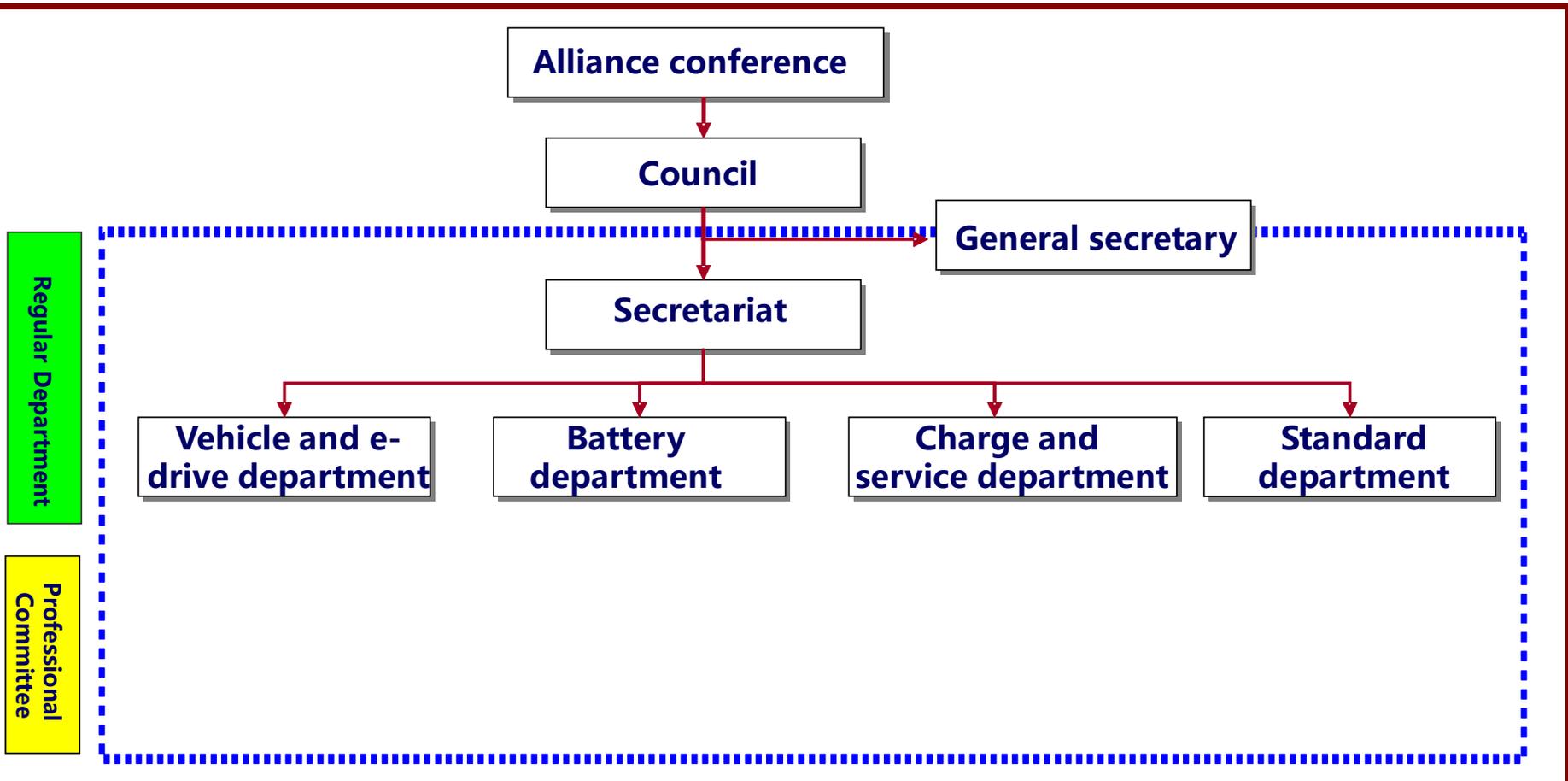
■Goal of the organization

◆Enhance the core competition capability of Chinese electric vehicle industry.





Structure of SEVIA





Profile of SEVIA

Three years development planning of the state-owned enterprise electric vehicle

Product R&D -
Industrialization

Generic
technology
research

Test evaluation
ability
construction

Standardization



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III. International collaboration of SEVIA



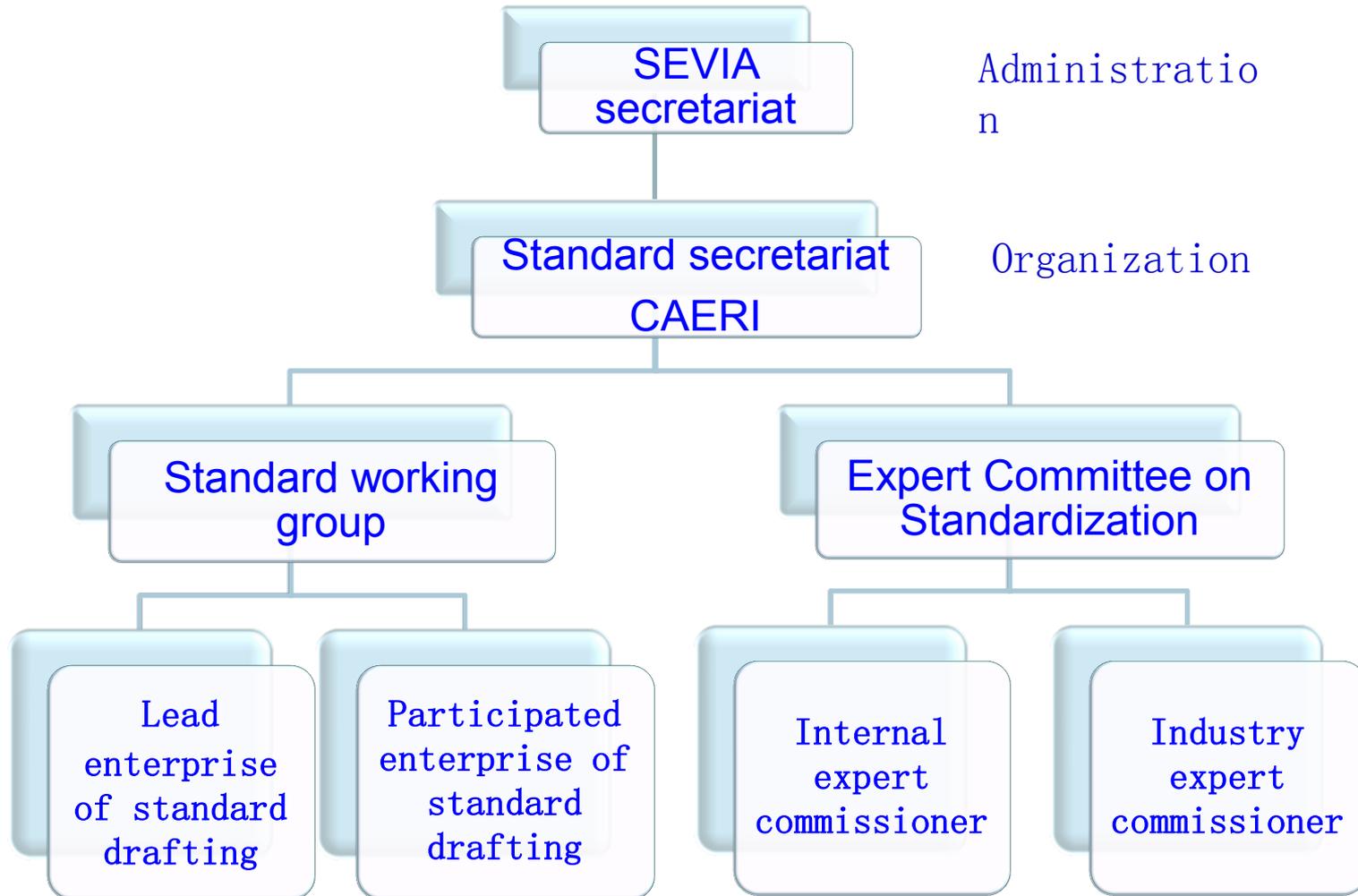
Purposes of SEVIA

Standard organization

- **Develop standards higher than Chinese national and industry standards**
- **Organize SEVIA members to develop national, international EV standards and regulations**
- **Standards dedicate to small passenger EV technical requirement, especially new technologies, safety, economy, etc.**

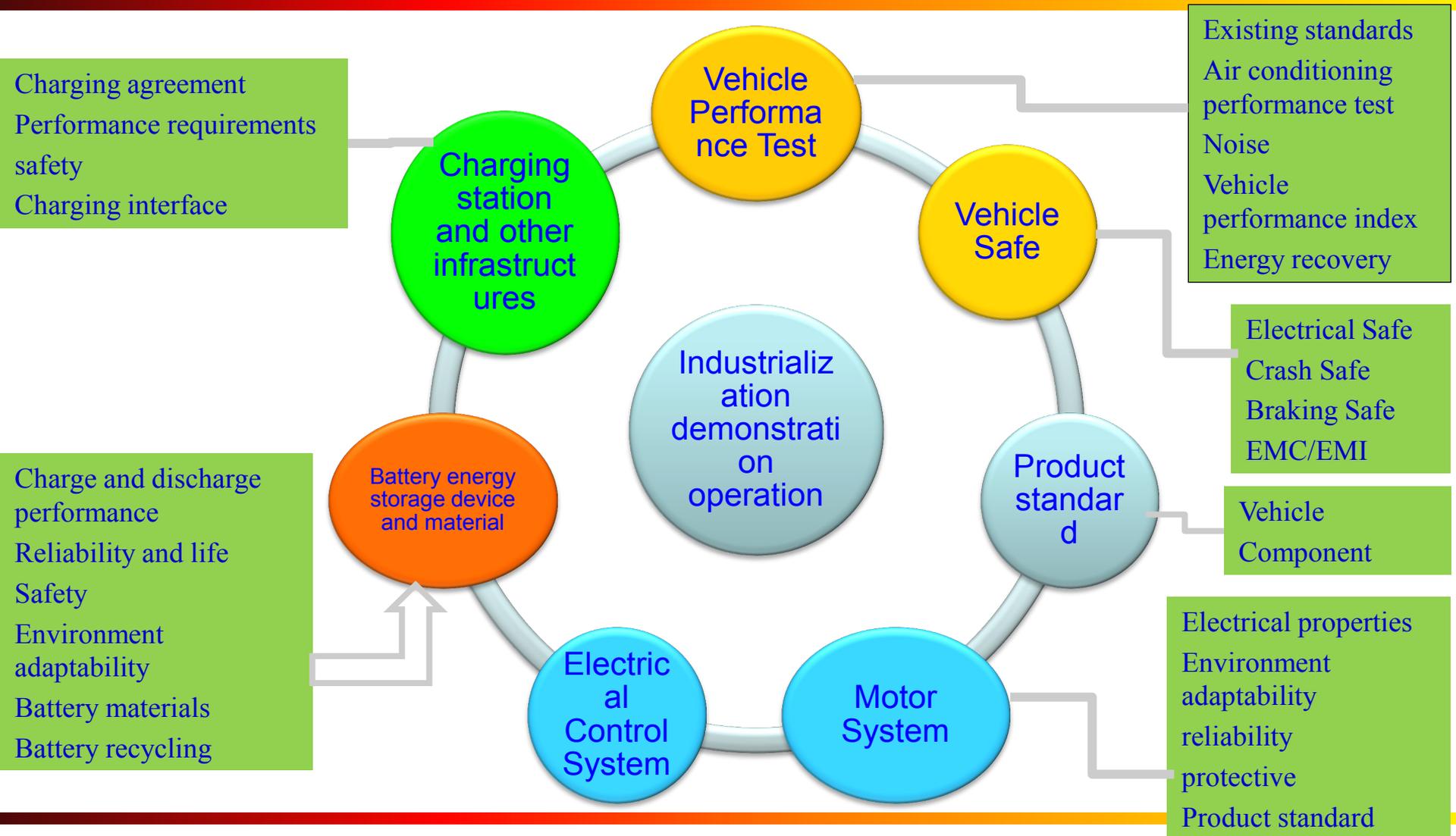


Structure of SEVIA Standard organization





Standard system





Standard goal

System applicable scope: pure electric passenger cars, including increasing extended-range and plug-in

(the 12th five years planning)

Standard system
50 items

- Identical to the national standard
- Modify the national standard, improve the requirements
- By using for reference the international advanced standard
- Alliance demand standard
- Innovation standard

Including: safety standards, testing performance standards, basic standards, product standards and infrastructure standards, etc



Achievements

- Organize and guide enterprises of SEVIA, participate in establishment of national and industry electrical vehicle standards
 - 14 items of the made and implemented national standards, 6 items of the auto industry standard
 - 4 items of the completed draft standards for approval
 - 10 items of participating in standards
 - 7 items of SEVIA standards





I. Profile

II. Standard frame

III. International collaboration



International collaboration

- CAERI wishes to develop the SEVIA standards, collaborate with U.S. partners
- CAERI is also the representative of China to attend the informal group on EVS under WP29, with the partners in SEVIA



International collaboration

- Scope and Purpose of WP29 Informal group
 - Developing regulation specifies safety-related performance of electrically propelled road vehicles and their rechargeable energy storage systems
 - The purpose of this regulation is to minimize human harm that may occur from the vehicle' s high voltage system and/or as a result of fire or explosion related to the vehicle' s rechargeable energy storage system.



International collaboration

■ WP 29 Informal group work Planning

- Mar 13-16, 2012: the 156th meeting of WP29- adopt and start the resolution of two electrical vehicle informal groups, determine chairman, vice-chairman and secretariat of the working groups.
- Apr 23-25, 2012: the first meeting of EVS working group in U.S.A.
- May, 2012: approve the scope of duties and powers of EVS working group at the 51st meeting of GRSP
- 2012-2014: EVS working group meeting (October 2012, the second working group meeting in Germany), regularly report work progress to GRSG, GRSP and AC. 3, make electric vehicle safety global technology draft regulation.
- the end of 2014: complete electric vehicle safety global technology regulation (EVS GTR) on schedule



CAERI

Thanks for your time!

