

Researchers Exchange, Minute of Meeting
Management Session
25. November 2013, 14.00 - 15.00
Chairperson: Eka Firmansyah & Mitsuo Yonezawa

1. JARI's presentation
 - a. Refreshing the conclusion of The First AAI Summit about,
 - b. JARI progress about Researchers Exchange Program after the first Meeting.
 - c. JARI inform about possible program plan and the cost imposed.

2. INARD's presentation
 - a. Why Researcher exchange program is important,
 - b. Area need to be joined to the researcher exchange program,
 - ✓ Battery standardization
 - ✓ Battery and charging infrastructure standardization
 - ✓ Electric cars safety
 - ✓ Green and clean manufacturing
 - ✓ ISO 26262 Road vehicles -- Functional safety
 - ✓ Compressed gas conversion program
 - c. Problems
 - ✓ Impact of the program to the EV program
 - ✓ Person in charge selection
 - ✓ Time and period of the program
 - ✓ Program Funding

3. TAI's presentation
 - a. Area need to be discussed
 - ✓ Fuel Efficiency,
 - ✓ Manufacturing Process Improvement (Robotics)
 - ✓ Electric Vehicle
 - ✓ Standard Development on Motor Vehicle Type approval in cooperation with Thai road safety board.
 - b. Action proposal
 - ✓ Request JARI expert to train and advice TAI staff,
 - ✓ Send Researchers to JARI
 - ✓ Funding Problem

4. Discussion
 - a. Common area for Part Thailand and Indonesia is in Electric Vehicle.
 - b. Common problem from Thailand and Indonesia is funding

 - c. Possible action for Indonesia.
 - ✓ Indonesia and Japan have G-G cooperation that may be used as the source of funding. (Agus Purwadi)

- ✓ Indonesia Ministry of Education also has Researchers Exchange Program but to be eligible for that program, the exchange period should be at least 3 months and the researcher qualification should be Ph.D. (Agus Purwadi)
- d. Thailand requirement is not similar to Indonesia requirement.
 - ✓ Thailand need JARI researcher to be dispatched to Thailand first. Later, Thailand researcher could be trained at JARI facility. (JARI do not have researcher dispatch program, and is going to study it.)
- e. EV related program
 - ✓ Indonesia and Thailand interested in the program but different schemes are applied.
 - ✓ Fuel cell battery is not yet needed right now for Thailand.
- f. ISO26262
 - ✓ CAERI like to have further discussion in ISO26262, and the program starting time is to be studied. CAERI will send about 1 or 2.
 - ✓ For Indonesia side, it will be done if the fund is available.
 - ✓ Thailand has not yet needed the ISO26262.
- g. CNG Conversion Program
 - ✓ Only Indonesia interested in the program.
 - ✓ CAERI also produced CNG conversion product, therefore does not interested in the program.

5. Important Notes

- a. ARAI ready for **giving** training
 - ✓ Fuel efficiency
 - ✓ CNG conversion consultancy for the system, and safety code.
 - ✓ Noise and vibration audit for a vehicle
 - ✓ Duty Cycle
 - ✓ And other training related to conventional engine
- b. Remarks from Mr. Shigeru Handa:
 - ✓ Researchers Exchange means exchange among institution. Not JARI centralized. Flexible researcher exchange is possible. It needs information exchange among institution to inform where is strength points of one institution and where is its weak point.
 - ✓ Possible funding source is from international financial organization, **in addition of** G-G financial assistance.

End of Report