

Collaboration Inquiries

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Nagoya University Green Mobility Collaborative Research Center



You can follow technology seeds in this URL.

<http://www.gvm.nagoya-u.ac.jp/>



The change of car CAN change the life

Surpass the PRESENT,
Foresee the FUTURE

What is Our Ideal Automobile ?

Dream • Amenity

Desire

Safety

Life •
Comfort

Environment

Earth • City •
Natural Resource

Assemble of Nagoya University's Wisdom



Director of Green Mobility
Collaborative Research Center
ONOGI KATSUAKI

The Green Mobility Collaborative Research Center was established in Nagoya University, Japan in July 2011, as a joint-use facility for green innovation in the safe and secure transport means and systems (hereinafter 'GREMO'). Our mission is to realize a harmonic society between technology, humans and the environment. The birth of GREMO has not only brought together different existing expertise in automotive research, but also an intimate global collaboration between industry, academic and government. Our research focuses on the latest scientific results and technologies as well as thorough studies on the fundamental knowledge in various automobile territories, and furthermore, looking beyond the current technology, we are devoted to foresee and overcome the obstacles in the future. In addition, GREMO also provides educational opportunities for future scientists and researchers to nurture human resources capable of leading in the field of transportation manufacturing. In the future, GREMO vigorously push forward to achieve a close partnership between human and green mobility through academic research. Your understanding and support of our activity will be greatly appreciated.

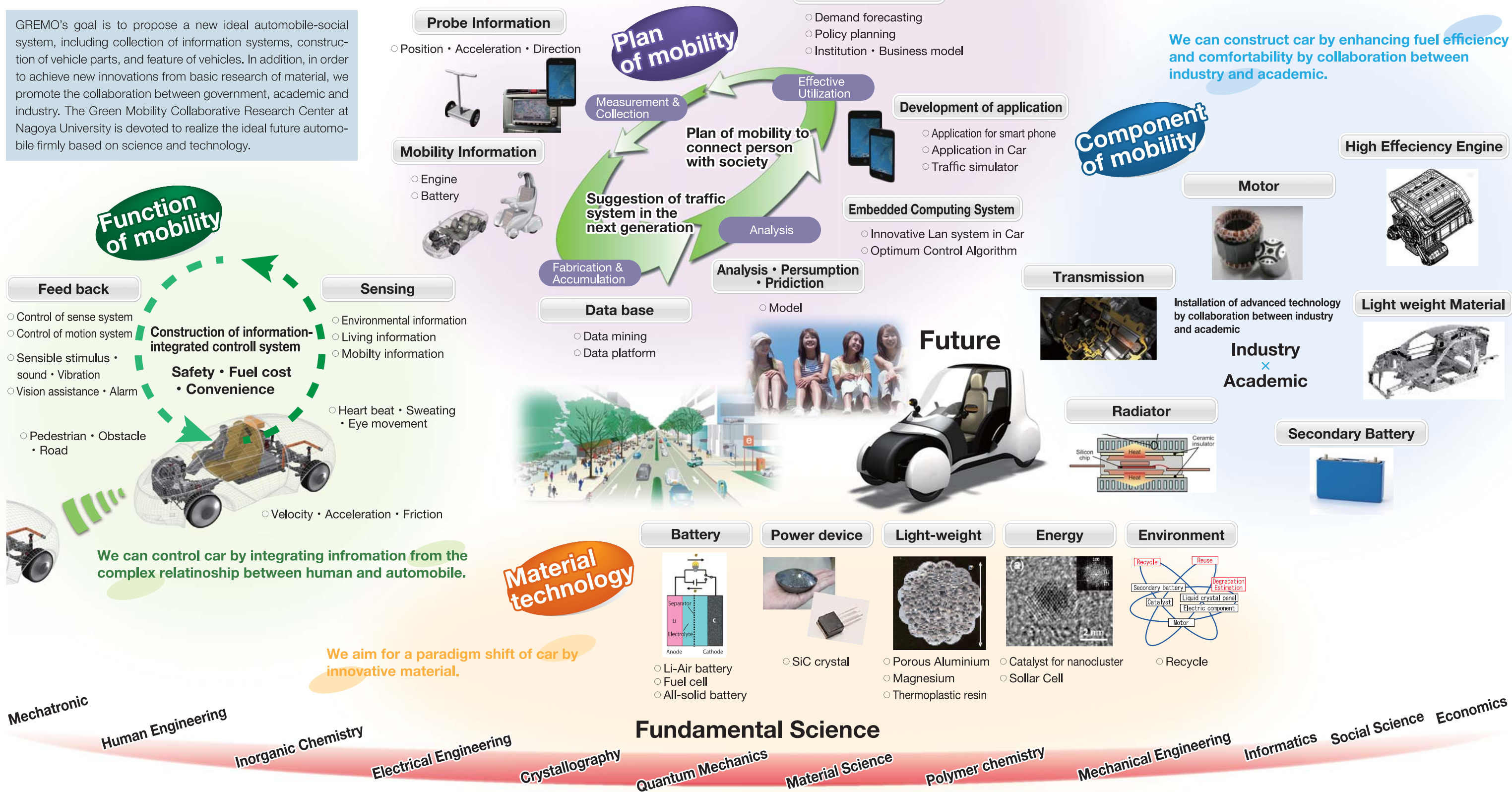


Realization of the Ideal Automobile

GREMO's goal is to propose a new ideal automobile-social system, including collection of information systems, construction of vehicle parts, and feature of vehicles. In addition, in order to achieve new innovations from basic research of material, we promote the collaboration between government, academic and industry. The Green Mobility Collaborative Research Center at Nagoya University is devoted to realize the ideal future automobile firmly based on science and technology.

We are searching about the novel relationships between human and car generated by society and information system.

We can construct car by enhancing fuel efficiency and comfortability by collaboration between industry and academic.



We can control car by integrating information from the complex relationship between human and automobile.

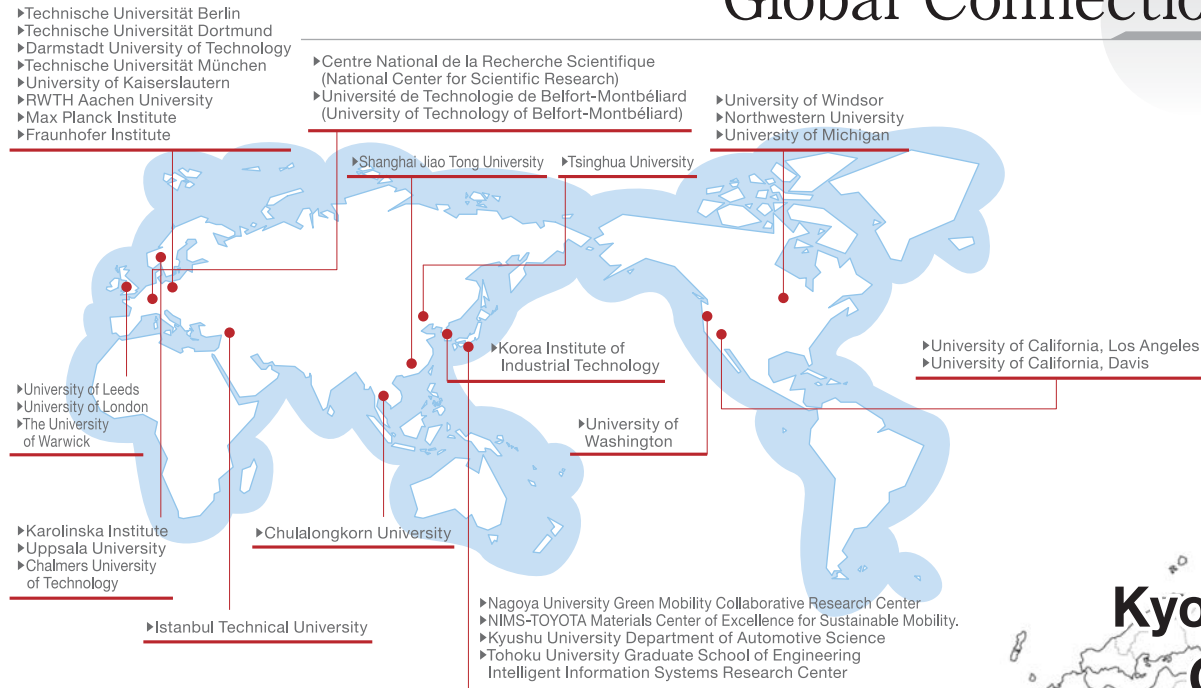
We aim for a paradigm shift of car by innovative material.

Mechatronic
 Human Engineering
 Inorganic Chemistry
 Electrical Engineering
 Crystallography
Fundamental Science
 Quantum Mechanics
 Material Science
 Polymer chemistry
 Mechanical Engineering
 Informatics
 Social Science
 Economics



The industrial Core of automobile-Nagoya

Global Connection



Nagoya University



Green Mobility Research Center

Local Connection

- Nagoya Institute of Technology
- Toyohashi University of Technology
- Meijo University
- Mie University
- Toyota Technological Institute
- Gifu University
- Chubu University
- National Institute of Advanced Industrial Science and Technology (AIST)
- Knowledge Hub



Nagoya University



Collaborative Company



Instruments:
700 million yen

Battery synthesis system



Field Emission - Scanning Auger Electron Microscope



Driving simulator



Budget • Project

Research Budget

- Automobile, Mechatronics : 200million yen
- Material Technology : 500million yen
 - Light weight material
 - Battery
 - Microelectronics
 - Energy, Recycle
- ITS • Social System : 300million yen

Approximately 1 billion yen /year

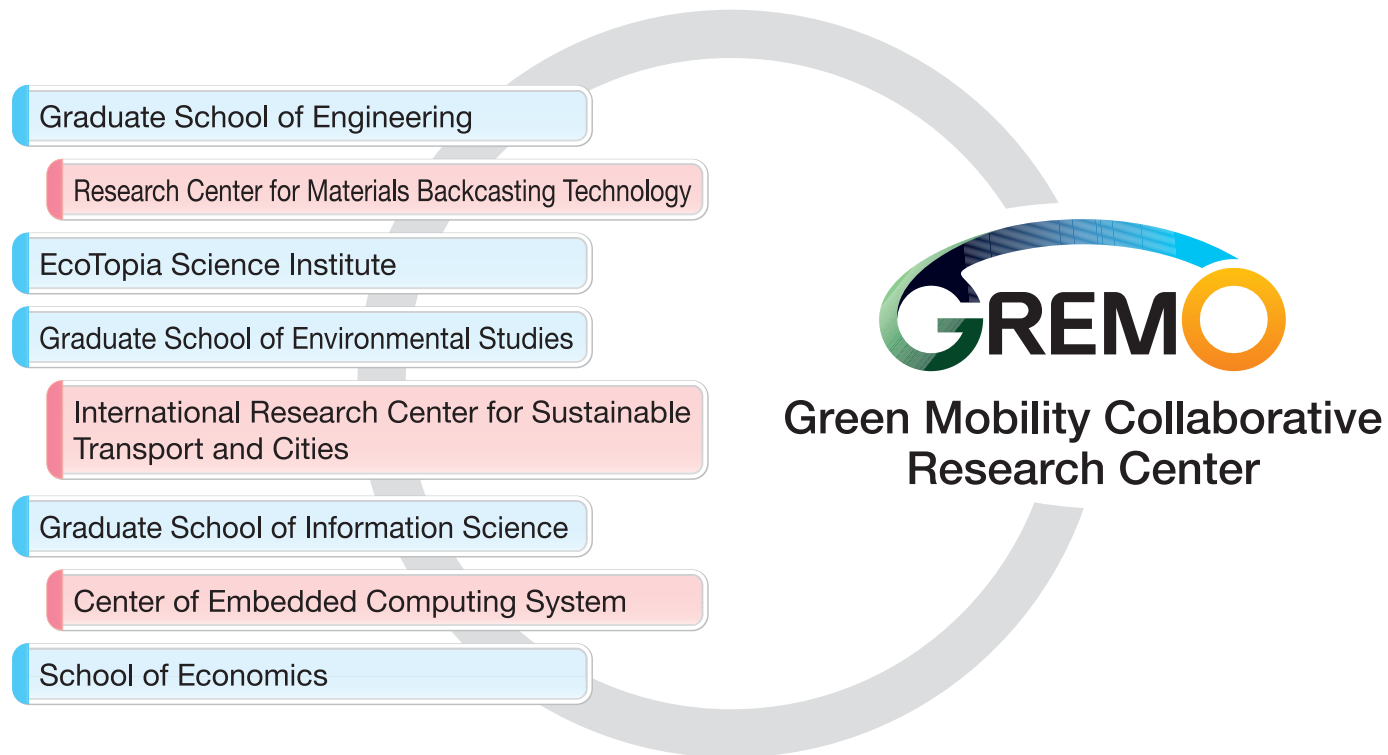
Project participated

- Ministry of Economic, Trade and Industry
- New Energy and Industrial Technology Development (NEDO)
- JST-CREST

Common Research Equipment

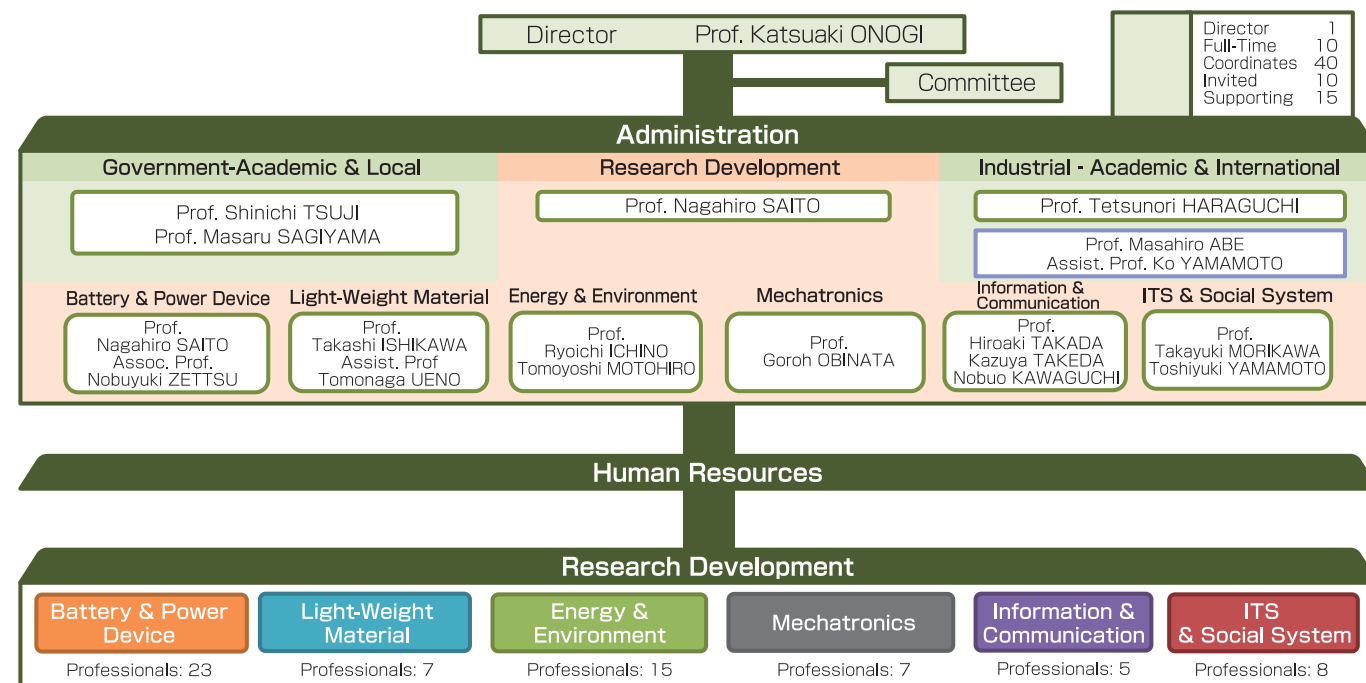
* The facilities are opened to public

■ The Organizational of Nagoya University ■



■ Vision and Mission ■

- 1) Research on the Fundamental Knowledge
- 2) Strengthening of the Industry-Academic Collaboration
- 3) Integrated Research in Various Areas in Automobile
- 4) Globalization of the Distinctive Features in Local Automobile
- 5) Promotion of the Local Automobile to International
- 6) Nurture of Scientists and Engineers



Green Mobility Collaborative Research Center -- Chronology

● July, 2011

- The Establishment of Green Mobility Collaborative Research Center
Full-time Professors : 5 , Coordinate Professors : 38

● January, 2012

- The first symposium of new generation of vehicles.
 - The development of the next-generation battery technology —
The fifth symposium was held in 2012

● July, 2012

- Construct of MOU with oversea university.
 - University of Warwick, United Kingdom
 - Université de technologie de Belfort-Montbéliard, France
 - SAFER Research Center of Chalmers University of Technology, Sweden

November, 2012 (Up to date)
Full time Professor : 11, Coordinate Professors : 45, Invited Professors : 14

