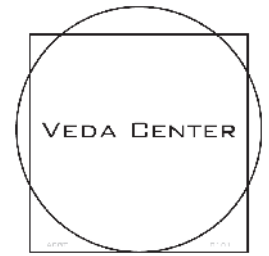


# News Release



August 26, 2009

VEDA INTERNATIONAL ROBOT R&D CENTER

**More freely, anywhere you want to go.**  
**RODEM**, universal vehicle developed by Veda Center.  
Announcement of the first prototype.

VEDA INTERNATIONAL ROBOT R&D CENTER INCORPORATED ASSOCIATION (Chairman is Prof. Makoto Hashizume, Professor & Chairman, Department of Advanced Medical Initiatives, Faculty of Medical Sciences and Director, Emergency & Critical Care Center of Kyushu University) has developed a universal vehicle named “RODEM”.

“RODEM” has been developed for the society of aging and declining of number of children in 21 century and it is the quite new product breaking preconceived idea for every one to live in better conditions. “More freely, anywhere you want to go” is the basic concept and “RODEM” allows users to move widely in daily life and to achieve higher level of life.

“RODEM” is the new category vehicle of all people to free barrier for aged and disabled people even though it seems a robot or a vehicle or a wheelchair on users’ situation.

Veda Center announces that a new category of Universal Vehicle will be accepted in Japan and in the world quite soon.



Meaning of “RODEM”

## Universal Vehicle **RODEM**

It comes from

Robot de Enjoy Mobility

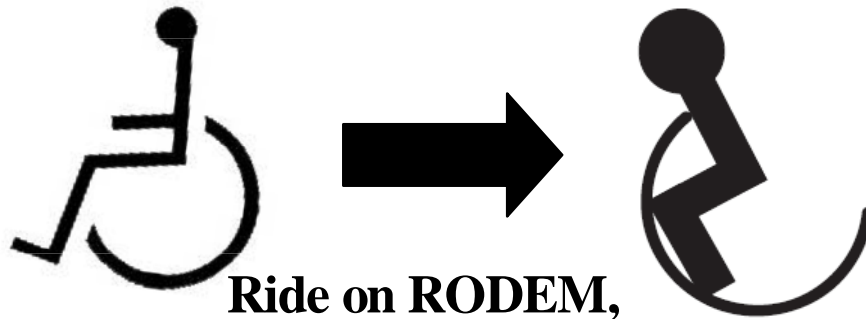




**Using situation (Substitute of wheelchair and of vehicle for senior)**



- No need to shift the direction of body for transfer from/to bed or toilet to/from RODEM
- No need the support of care giver for transfer from/to bed or toilet to/from RODEM
- Possible to adjust both standing and sitting position
- Weight balances are dispersed to breast, knees and hips comparing with wheelchair which concentrates pains to backs and hips
- Users feel not only physical free in daily life but also mental free of independence
- Users can watch from same position of non-disabled people



**Ride on RODEM,**

**neither sit on wheelchair nor senior vehicle.  
From being hold passively  
To being carried on back actively.**

**Situation 2 (Vehicle for non disabled people)**



- Easy drive for anyone
- Convenient mobile vehicle for one person in town
- Advanced and fashionable product breaking the preconceived idea



### Specs

<b>Name</b>	<b>Universal Vehicle RODEM</b>
<b>Serial number</b>	<b>M1-1</b>
<b>Size (total length × width × total height)</b>	<b>1220×690×1170mm</b>
<b>Height of bearing surface</b>	<b>380-700mm</b>
<b>Bearing surface posture angle</b>	<b>±15°</b>
<b>Weight</b>	<b>About 100mm</b>
<b>Battery</b>	<b>Sealed lead acid battery</b>
<b>Charge mode</b>	<b>Plug-in system</b>
<b>Drive system</b>	<b>Independence two wheel drive</b>
<b>Speed (Advance)</b>	<b>High speed 6km/h Middle speed 3.5km/h Low speed 1.0km/h</b>
<b>Minimum outside turning radius</b>	<b>850mm</b>
<b>Operation time</b>	<b>For about four hours</b>
<b>Controller</b>	<b>All azimuth no stage controlling by joystick method</b>
<b>Fixture</b>	<b>Bike lamp</b>
	<b>Winkers</b>
	<b>Rear reflector</b>
<b>Option(additional function)</b>	<b>Slope automatic control</b>
	<b>Obstacle automatic operation evasion control</b>
	<b>Self-awareness of position that exists equipped with GPS</b>
	<b>Destination autonomous navigation function</b>
	<b>Vital data detection when boarding it and central transmission</b>
	<b>Voice recognition controller</b>
	<b>Remote control systems</b>

### What is Veda Center?

“VEDA INTERNATIONAL ROBOT R&D CENTER” has been established to promote developing advanced robot for medical, nursing and life support on May 25, 2009 at Munakata-city, Fukuoka Prefecture.

It consists of major robotics and medical researchers from Kyushu University, Waseda University, The Systems Biology Institute, Kanazawa Institute of Technology, Kyoto University, Kyushu Institute of Technology, Frounhofer IAIS, Germany, Scuola Superiore San't Anna, Italy and Tmsuk Co.,Ltd.

Missions of Veda Center are both R&D of the advanced robotics technology and realizing profitable business/industry by its integrated robotics technology.

### Activities of Veda Center

- Robot development trusted by company and government (Domestic and Overseas)
- Originating and promoting of R&D project
- Practical examination in the large space
- Marketing with members' network
- General education and public relation
- Society relationship and contribution to the local



### Project members

(Members of Veda Center)

Prof. Makoto Hashizume, Kyushu University

Prof. Atsuo Takanishi, Waseda University

Mr. Hiroaki Kitan, Director of The Systems Biology Institute

Mr. Yoichi Takamoto, CEO of Tmsuk Co.,Ltd.

Prof. Thomas Christaller, Frounhofer IAIS, Germany

Prof. Paolo Dario , Scuola Superiore San't Anna, Italy

Prof. Hidehito Nanto, Kanazawa Institute of Technology

Prof. Yasuyoshi Yokokoji, Kyoto University

Ass-Prof. Shinichi Sagara, Kyushu institute of technology

Ass-Prof, Kazuo Ishii, Kyushu Institute of Technology

Ass-Prof. Hiroyuki Miyamoto, Kyushu Institute of Technology

### Designer of RODEM

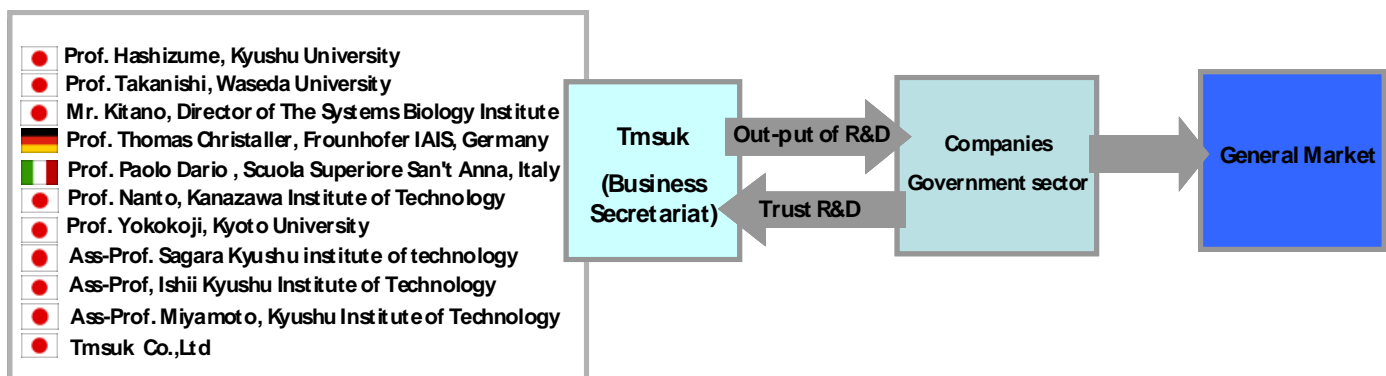
Prof. Koji Kimura, Design department of Nishinohon Institute of Technology

### Test and evaluation on RODEM

Prof. Dr. Shinichiro Takasugi, Rehabilitation department of Kyushu University hospital

## Partner of Veda Center wanted!

VEDA INTERNATIONAL ROBOT R&D CENTER = Brightest brains in the world



- Prof. Hashizume, Kyushu University
- Prof. Takanishi, Waseda University
- Mr. Kitano, Director of The Systems Biology Institute
- Prof. Thomas Christaller, Frounhofer IAIS, Germany
- Prof. Paolo Dario , Scuola Superiore San't Anna, Italy
- Prof. Nanto, Kanazawa Institute of Technology
- Prof. Yokokoji, Kyoto University
- Ass-Prof. Sagara Kyushu institute of technology
- Ass-Prof, Ishii Kyushu Institute of Technology
- Ass-Prof. Miyamoto, Kyushu Institute of Technology
- Tmsuk Co.,Ltd

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