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Theme 3:

ALPS "safety and security" theme title: **BCP**(Business Continuity Plan) for a Port after Earthquake Disaster

Proposer Organization's Name: JFE Engineering Corporation Supporter Name and contact info: Kenichi MURANO, murano-kenichi@jfe-eng.co.jp

Abstract of your project theme :

• How to improve port infrastructure after earthquake disaster in order to maintain lifeline

• From standpoint of total safety of a **Port SYSTEM**, consider the method of improvement of optimized **specifications** for each infrastructure to provide for earthquake.

•Business Continuity Plan: To keep port functions after disaster under short resources: such as human, electric power source, etc.

Example:http://www.skr.mlit.go.jp/pres/h21backnum/k ouwan/100128/bcp.pdf



Fig. 1:Port Damage in Kobe 1995



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Theme 5:

Theme title : **Mobility Interactive System Design & Management** Proposer Organization's Name : **SUZUKI** Motor Corporation

Supporter Name and contact info : Takashi Hayashida (<u>the0116@a8.keio.jp</u>)

Abstract of your project theme :

Safety & Security is one of the biggest theme for mobility all the time. For example, Air-bag, Anti-lock brake system, Vehicle Stability control...etc. In the near future, the more important thing is software. For example, Navigation, Road services, and Interactive-communication (- Blinking the hazard lamp of the traffic jam to the rear driver) But there is not unified inter-communication system in the transportation field.

Benchmark image

• iPod & iTune system for the music business • iPad & iBook system for the publishing business Just image example

About 5 years later, at India, German, Japan...worldwide, with Navi, Cell-phone, iPad...any-device, it's application (like Car-twitter include HMI & Business model) for interactive communication of short mobility. [not limited]

For driving future with safety & security, we expect big solution for all customers on the road. We hope many Sky-high ideas & Enjoy ALPS!





Theme 6:

ALPS "safety and security" theme title: Concentrated Solar Power

Proposer Organization's Name: Delft University of Technology, the Netherlands. Supporter Name and contact info: dr.ir. Gerard P.J. Dijkema

Theme Abstract:

Who – Japan at large What – secure, safe sustainable electricity supply Where – part of the assignment When – part of the assignment Why – ensure long-term security and sustainability of electricity supply in Japan by reducing dependency on foreign fossil resources; reduce Japan's CO₂ footprint The CSP assignment involves design and development of large-scale energy infrastructure, and is strongly related to local geography, water management;

It requires large-scale system design, suitable governance, selection of site(s), embedding in Japanese institutions and advanced program and project organization.



Fig. 1: PV with Fresnel concentrators



Fig. 2: Solar Two, Mojave Desert, US

UDelft

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Evaluate the property of crack





System design for dissemination of "Careful driving training for senior drivers "

Proposer Organization's Name: Tokio Marine & Nichido Risk Consulting Co. Ltd.(TRC)

Supporter Name and contact info: Noriyasu Kitamura <n.kitamura@tokiorisk.co.jp>

[The contents of the theme]

On the basis of fundamental researches of "careful driving training for senior drivers", We perform the systems design that how work the results of research into social infrastructure such as car insurance products, a driver's license system, the self-culture for senior citizens.

[Fundamental researches]



Theme 10:

I investigate a weak point in the careful driving of the senior driver by TRC and make a training hypothesis.

 I join a Nishimura laboratory "driving simulator" to Ogi laboratory "devotion type three dimensions projector system" and demonstrate them in real driving environment and develop appropriate training software.

[A point to study in ALPS]

The study is based on marketing researches and performs the systems design that I continue careful driving training routinely and can perform although an senior driver is a pleasure.

- The training which an senior driver is easy to receive most
 A device of the training that an senior driver can enjoy and consideration of effective incentive

(3) It is devised the training system to be able to incorporate it in life without an senior driver getting tired (4) We consider how I perform the fusion with the social infrastructure such as automobile insurance, the driver's license

system

(5)We will think how is the self-culture which a senior citizen likes in future. And We I consider how We perform fusion with the careful driving training

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Theme 15:

ALPS "safety and security" theme title:

Cost-effectiveness Approach for Risk Management and Business Continuity Management

Proposer Organization's Name : <u>JGC Corporation (Nikki)</u> Supporter Name and contact info : <u>Akira Wada, Ken Kobayashi</u>

Although assessment methods for evaluation of risks related to natural disaster, fire and explosion, etc. have been well developed in the Oil & Gas industry, countermeasures recommended in the assessments are not implemented straightforward, because it is difficult to know cost-effectiveness of the countermeasures.

For a company, who plans to introduce Business Continuity Management, it is also crucial to know cost-effectiveness of the countermeasures.

This project aims, for example, to develop a system which can easily quantify costeffectiveness for preparation of Business Continuity Plan for a "Company".

