

Economic Cooperation

2008/SMEWG/SYM/022 Agenda Item: PD

# Proposal of the Project "A Collaboration Network"

Purpose: Information Submitted by: Vietnam



APEC Symposium on Improving Market Access for ICT Outsource SMEs Hanoi, Vietnam 27–29 October 2008

## Proposal for ICT SMEs Collaborative Network Pannel Session

APEC ICT-SME's 08 Symposium Organising Committee

APEC Symposium on "improving market access for ICT outsource SMEs"

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# **Objectives**

- To help the APEC-region's ICT SMEs to access the ICT outsourcing markets by providing a necessary links and information of the markets and business opportunities
- To provide a forum for experience exchange and to give recommendation/instructions for the efficient cooperation among ICT SMEs
- To provide information as to guide ICT SMEs on how to improve the competitive capacity of ICT SMEs

## **Motivations**

- SMEs in both developed countries and developing countries have some difficulties in finding partners for outsourced projects because of the lack of information and contacts
- Not clear understanding about outsourced projects, not only outsourced software, but also a software components (incomplete software)
- High QoS is always a difficult requirement from outsourced project, outsourcing high quality software is more difficult to build since it is done remotely with the lack of understanding the customer requirements and needs
- Language Barrie for non-English speaking countries in outsourcing

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# **Contents for Collaboration**

- Information sharing: The member SMEs can share
  - Information of the markets, business opportunities
  - Necessary information about the potential partners for ICT outsourced projects
  - Experiences on business development
- Shared channels to communicate with government agencies and seek for supports from the APEC secretariat
- Technical supports for improving the competitive capacity of ICT-SMEs (standardization, information on new technologies and tools, QoS improvement)

# **Form of Collaboration**

As usual, the physical collaborative network consists of a set of nodes connected via communication channels.

- Nodes: Network members, any ICT SMEs and Government agencies, training service providers, ICT product traders
- Edges: supported by the Internets and other communication media
- Information centers: special nodes, distributed over the network for the comfort of maintenance

Initial Services provided: portals, ICT SME forum, Collaborative Network website, databases, repository of useful information, links, and contacts.

# **Network Administration**

- A technical support and administration team from each economy
- Virtual Office
- Cost for installing and maintaining covered by the local government and APEC Secretariat
- Information sharing policies have to be developed

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# **Discussion Issues**

- Is such a collaborative network really needed by SMEs in APEC economies?
- Enhancement of the network operation, how to keep it alive, how to make it satisfied by SMEs, how to make it more than a repository of useful information, links, and contacts
- What are the administration and technical supports for the network
- The role of local governments in maintaining and controlling

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## Presentation of Kansai Economic Federation on Embedded Software Industry

Purpose: Information Submitted by: Japan



APEC Symposium on Improving Market Access for ICT Outsource SMEs Hanoi, Vietnam 27–29 October 2008

#### Embedded Software: A Driving Force for Industrial Competitiveness

### Initiatives for Kansai's Industrial Revitalization

Promotion of the Embedded Software Industry by Industry–Government–Academia Collaboration

October 29, 2008

Yoshiyuki MIYABE, Leader, Working Group III, The Committee for the Promotion of Embedded Software Industry

### Efforts for Industrial Revitalization in Kansai

- O Information appliances and cellular phones have contributed largely to Japan's recent economic growth. The functionality and performance of such products depend on the quality and performance of the programs embedded in them (embedded software) and the need for better embedded software is expected to grow in the future.
- O In Kansai, there are many prestigious universities and leading manufacturers and medium and small companies engaged in the information industry. Also since Kansai has deep cultural and industrial relations with Asian countries, it has an advantage in terms of software development.
- O Taking full advantage of these strong points, Kansai should accumulate embedded software development resources in addition to its efforts to promote the robotics, biotechnology and information appliance industries. This will enhance Kansai's industrial competitiveness and Japan's



## Establishment of the Committee for the Promotion of the Embedded Software Industry (CPESI)

Under Kankeiren's leadership, the industry, government and academia jointly established the Committee for the Promotion of the Embedded Software Industry on August 6, 2007.



### Issues for the Embedded Software Industry in Kansai

#### Human resource development is an urgent issue.



#### [Manufacturers]

- Employment of excellent students
- Intensified efforts for human resource development
- Product competitiveness
- enhancement
- Increased productivity in software development
- · Cooperation with offshore developers

[Software Developers]

#### [Universities]

- Human resource development to meet industrial needs
- Improvement in educational curricula and materials
- Progress in software engineering

Adequate staffing
Employee education
Contracts/subcontracts
Competition with rivals

[Others] • Multifaceted support system

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#### Human Resource Development by Industry-Academia-Government Collaboration in Kansai



Nurturing system architects with empirical knowledge and skills as leaders in embedded software development.



>Industry-Academia-Government Collaboration System

BAAAAA BRARA BAAAAA BRARA BAAAAAA BRARAA BRINNEN MORDO-

http://www.kansai-kumikomi.net/

### Organization of the CPESI

Five working groups started efforts to address various issues for the promotion of the embedded software industry including human resource development, development efficiency improvement, business incubation and *mieruka* (visualization) of technologies.



#### Working Group III for Asian Development

Resources

The group works for a mechanism which enables Asian students as bridge human resources to take leadership in software development in Japan.

Overseas Field Research

 $\cdot \ensuremath{\,\text{Planning}}$  and implementation of fields studies in China and Vietnam

• Surveys of the situation of embedded software companies and apanese language education in Asia

Cooperation with Ritsumeikan University

•Workshops and internships in cooperation with Ritsumeikan University which promotes the Project of the Development of Highly Specialized Foreign Students under the sponsorship of METI's Asia Human Resource Fund

• Plan to establish a follow-up system after the end of the project

Surveys for Asian Human Resource Development

- Surveys of websites in Asian countries
- Surveys of the Asian human resource development methods

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# Promotion of Offshore Software Development by Fostering Bridge Human Resources



# Relations between the CPESI and Stakeholders



### Future Prospects

![](_page_6_Figure_5.jpeg)

## Panasonic (Matsushita) Group's Development Bases and Human Resources Development

PSDCD Established in 2 (Panasonic Software Developm DALIAN	2004 ent Genter, Dail Sava	roblems] he software training environment in stitutions is inadequate. olution: Provision of resources f asses at local universities heck of experienced engineers as to olution: Support from Japan durin tecourage self-reliant operation revention of brain drain of engine olution: Adequate evaluation and tractive development themes	in local educational for software development eachers g the initial period to eers remuneration systems,
PRDCV Established in 2007		PSDCD	PRDCV
PSL Established in 1990 (Panasonio Singapore Laboratories)		Dalian	Vietnam
	Established	2004	2007
	Language	Japanese	English
	Aid	Japan (now self-reliant)	Singapore
	Before Employment	Panasonic Sponsored Class Provision of resources to hold embedded software development classes at local universities	
		Dalian University of Technology etc.	Hanoi University of Technology
	After Employment	<ul> <li>OJT at PSDCD (0JT in Japan in the initial period)</li> </ul>	OJT at PSL (2 months)
	For Promotion to Managers	In-house MOT classes etc.	