



SEALING

FP7-ICT-247648 PROJECT

*Support to policy dialogues and strengthening of cooperation
with Southeast Asia*



Deliverable D1.3 Cooperation Events Progress Report n°3

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INTRODUCTION

The present document is a deliverable of the SEACoop initiative, supported (through the funding of the SEALING project) by the Directorate General Information Society and Media of the European Commission under the “7th EU Framework Programme for Research and Technological Development”, or FP7 (see <http://cordis.europa.eu/fp7> for full details).

The SEALING project work plan is divided into work packages (WP), each of them being subdivided into tasks.

One of the work packages – WP1: Cooperation events – aims at precisely planning cooperation events, practically organising each of them, preparing event reports and carefully exploiting their outputs.

WP1 is structured into 2 tasks:

- Task 1.1: Planning and follow-up
- Task 1.2: Organisation

The present document is a deliverable related to this WP and reporting on the activities developed during the third 6 month-period of the project (from January 1, 2011 to June 30, 2011).

SEALING IN A NUTSHELL

SEALING is an initiative aiming at strengthening cooperation on ICT research between Europe and the countries that are members of the Association of Southeast Asian Nations ([ASEAN](#)): Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, the Philippines, Singapore, Thailand, and Vietnam. This initiative is supported since 2004 by the European Commission ([Directorate General Information Society and Media](#)) through its Framework Programme for Research and Technological Development (FP6 and [FP7](#)), and by the ASEAN Secretariat since 2008.



Among planned SEALING activities over the period 2010-2011:

- Identification and analysis of ICT policy and research priorities, at bilateral and regional levels, and provision of recommendations for future cooperation initiatives,
- Organization of cooperation events in Europe and in Southeast Asia synchronised whenever possible with policy dialogue meetings,
- Development of synergies with dialogues and activities launched under EU-funded programmes, at the initiative of EU Member States and Associated States, and at the ASEAN level,
- Development of promotion, dissemination and awareness-raising activities.

One of the main expected outputs of SEALING activities is logically a strengthened development of concrete cooperation projects in ICT research, namely under FP7. SEALING is coordinated by [Sigma Orionis](#), a company based in France and devoted to supporting cooperative research in ICT and global ICT developments, and includes, on the Southeast Asian side, the organisations playing a key role in ICT policy and research in each of the ten ASEAN countries:

- Advanced Science and Technology Institute ([ASTI](#)), Philippines
- Agency for the Assessment and Application of Technology ([BPPT](#)), Indonesia
- Institute for Infocomm Research ([I²R](#)), Singapore
- Multimedia Development Corporation ([MDEC](#)), Malaysia
- National Authority for Science and Technology ([NAST](#)), Laos
- National Council for S&T Policy ([NCSTP](#)), Vietnam
- National Science and Technology Development Agency ([NECTEC](#)), Thailand
- National ICT Development Authority ([NiDA](#)), Cambodia
- University of Brunei Darussalam ([UBD](#)), Brunei Darussalam
- University of Computer Studies, Yangon ([UCSY](#)), Myanmar

For further information, please visit the [SEACOOP web site](#) or [contact us](#).

LIST OF EVENTS

In order to support its overall objective – strengthening cooperation in ICT research between Europe and Southeast Asia – the SEACOOOP partnership has planned to organise a total of at least 6 cooperation events in both regions, over the 2010-2011 period, these events being synchronised, whenever possible, with policy dialogue meetings, in order to support them and have the possibility to involve high-level officials in the events.

They all are of a thematic nature, focusing on research themes or topics identified as having a great potential for cooperation between Europe and Southeast Asia. Since the cooperation events are a valuable opportunity for all participants to meet, network, and openly discuss cooperation opportunities between the two regions, these events play indeed a key role for the SEACOOOP mapping exercise.

EVENTS ORGANISED DURING THE PERIOD

During the reported project period, the 4th and 5th SEACOOOP Cooperation Forums have been successfully organised.

4TH SEACOOOP COOPERATION FORUM ON “INTERNET OF THINGS” - APRIL 5, 2011 - HO CHI MINH CITY (VIETNAM)

This event has been organised by the SEACOOOP partnership under the aegis of the European Commission and of the ASEAN Secretariat and held in the Legend Hotel Saigon, in Ho Chi Minh City, Vietnam.

This Cooperation Forum was strongly supported by the CASAGRAS2 project, a FP7 project looking at global standards, regulation and other issues concerning RFID and its role in realising an Internet of Things (IoT).

The Internet of Things theme has been chosen on the following basis:

- IoT had been identified as particularly promising in the current SEACOOOP exercise aiming at mapping priorities of cooperation in ICT research between Europe and Southeast Asia,
- The meeting of the SEACOOOP partnership with the European Commission’s Unit in charge of IoT at DG Information Society and Media, held in September 2010 in Brussels on the occasion of the ICT 2010 event, revealed that this Unit was supporting the perspective of a SEACOOOP Cooperation Forum on IoT.

The overall objective of this research forum was to more precisely evaluate the research topics which could usefully be explored through joint projects on this theme, namely in the framework of the European Commission’s FP7 research funding programme.

The event, attended by over 80 participants, led to promising perspectives. The importance of IoT research in Southeast Asia and the determination of stakeholders from this region to strengthen cooperation links with Europe were confirmed. In the short term, Southeast Asian countries were invited to get involved as supporting partners in the CASAGRAS2 initiative. In the longer term, the possibility to identify ASEAN in future versions of the FP7/FP8 work programme as a specific region for strategic cooperation on IoT will be pushed by the SEACOOOP project (liaising with the Unit in charge of IoT at DG Info).



Interaction between participants on identified perspectives is also expected to evolve in the coming weeks and months under the support and guidance of the SEACOOP partnership.



SEACOOP 4th Cooperation Forum, April 5, 2011

5th SEACOOP COOPERATION FORUM ON "ICT FOR INCLUSION" - APRIL 7, 2011 - PHNOM PENH (CAMBODIA)

This event has been organised by the SEACOOP partnership under the aegis of the European Commission and of the ASEAN Secretariat and held in the Cambodiana Hotel, in Phnom Penh, Cambodia.

The ICT for Inclusion theme had been chosen on the following basis:

- ICT for Inclusion has been identified as particularly promising in the current SEACOOP exercise aiming at mapping priorities of cooperation in ICT research between Europe and Southeast Asia.
- The meeting of the SEACOOP partnership with the European Commission's Unit in charge of ICT for Inclusion at DG Information Society and Media, held in September 2010 in Brussels on the occasion of the ICT 2010 event, revealed that this Unit was supporting the perspective of a SEACOOP cooperation forum on this theme.

The event, attended by over 100 participants, gave promising outputs. In their concluding addresses, session moderators underlined that beyond the fact that their sessions had led to useful discussions and exchanges of viewpoints, they had also permitted to identify possible common ideas and projects, and to draft roadmaps from reached outputs to FP7 proposals.

The SEACOOP project is expected to provide all participants, in the coming months, with support and guidance to efficiently keep on exchanging and supporting the emergence of FP7 proposals while liaising with the Unit at DG Infso to identify concrete opportunities of cooperation with ASEAN.





SEACOOP 5th Cooperation Forum, April 7, 2011

FUTURE EVENTS

Two more events are planned to be held in the remaining period of the project.

6th SEACOOP COOPERATION FORUM “ICT RESEARCH AND ICT FOR DEVELOPMENT” – OCT. 25, 2011 - YANGON, MYANMAR

On the occasion of the 5th Consortium Meeting held on April 6, 2011 in Phnom Penh, the SEACOOP partnership has announced the dates and overall structures of the series of SEACOOP events to be held in October 2011 in Yangon, Myanmar, including a consortium meeting, an open cooperation event on the theme “ICT research and ICT for development”, and a visit of laboratories.

This Cooperation Forum will be the last one of a series of 6 organised over the period 2010-2011 by the SEACOOP consortium, in order to contribute to strengthening S&T cooperation in ICT between Europe and the ASEAN region, and to support policy dialogues between the European Commission and the ASEAN Secretariat.

The event focus addresses an issue often faced when tackling the development of S&T cooperation in ICT between Europe and the ASEAN region (or other countries and regions of the world such as India, China, Africa or Latin America). The region is quite diverse in terms of countries development level and benefits from a quick economic development. Therefore, envisioning research cooperation under FP7 may appear as inappropriate or premature in some cases, while other European funding mechanisms (particularly those focusing on ICT for development) may be suited, and may even support a transition period towards cooperation on advanced research.

It is therefore necessary to “bridge the gap between ICT research and ICT for development”, and be able, when addressing S&T cooperation in ICT between the two regions, to introduce to ASEAN stakeholders the

wide spectrum of policies, programmes, and mechanisms the European Commission can offer to ASEAN stakeholders, in liaison with the ASEAN Secretariat and other institutions, in order to establish and smoothly develop the greatest number of links.

The main objective of the forum will be to allow a broad exchange of information and experience between stakeholders from Europe and from the ASEAN region, involved in activities aiming at strengthening S&T cooperation in ICT, or cooperation in ICT more generally, between the two regions. International organisations will logically be invited to participate in this event.

One of the expected outputs would be the release, after the event, of a public document detailing the policies, programmes, and mechanisms that the European Commission, the ASEAN Secretariat and other international organisations offer to support the strengthening of cooperation in ICT between Europe and Southeast Asia.

FINAL SEACOOP MEETING - 1Q 2012 - BRUSSELS

An additional final meeting will be organised by the SEACOOP partnership in the first quarter of 2012, in Brussels. The objective of this event is to widely promote the potential of EU-SEA cooperation in ICT research and the project findings particularly regarding the mapping of cooperation priorities between the two regions.

The event will mainly target key European stakeholders (able to truly support a quick development of EU-SEA cooperation), among them the thematic Units of DG Infso (who can influence the content of the last FP7 Call and of FP8).

On this occasion, the final project review meeting will be held.



SEACOOP 4TH COOPERATION FORUM - EVENT REPORT

EVENT OUTPUTS

The 4th Cooperation Forum focusing on “Internet of Things” was successfully organised on April 5, 2011 at the Saigon Hotel in Ho Chi Minh City (Vietnam) by the SEACOOP partnership, with the support of the CASAGRAS2 project, and under the aegis of the European Commission and of the ASEAN Secretariat.

This Forum revealed to be successful, not only because the attendance level was quite high (over 80 participants - see event attendee list in Annex 2), but also thanks to the participation of the following officials from both regions and the quality of high level speakers presentations:

- 2 delegates from the ASEAN Secretariat
- 2 representatives of the EC
- 1 representative of Eurocham in Vietnam
- 4 SEACOOP Advisory Committee members
- 3 EU experts on IoT
- 8 SEA experts in IoT (identified at partners' level)

Three working groups moderated by European experts in this area allowed to discuss sub-themes (of IoT), of particular mutual interest (identified as such through a pre-event survey handled by the SEACOOP Southeast Asian partners; see D.2.3) and strived to identify short term cooperation projects, which could be presented to upcoming FP7 Calls.

Finally, outputs of the parallel sessions presented in a wrap-up session gave the opportunity to discuss and agree on the next steps to be supported by the SEACOOP project.

EVENT STRUCTURE

The event started by the opening session chaired by **Roger Torrenti** (CEO Sigma Orionis, SEACOOP project coordinator), and included welcome and opening addresses by officials from Vietnam, the European Commission and the ASEAN Secretariat:

- **Prof. Do Trung Ta**, Chairman of NCSTP, Vietnam
- **Dr. Matthias Duehn**, Executive Director, Eurocham, Vietnam
- **Christophe Forax**, ICT Counsellor for ASEAN, European Commission
- **Dr. Alexander Lim**, Head of Science and Technology division, ASEAN Secretariat
- **Roger Torrenti**, CEO, Sigma Orionis, SEACOOP project coordinator

Then two plenary sessions were proposed to attendees:

- The first session on the theme “European Developments in the area of Internet of Things”, chaired by **Christophe Forax** (ICT Counsellor for ASEAN, European Commission) and involving the following speakers:
 - **Alvis Ancans**, Policy officer, International relations Unit, DG Information Society and Media,



- European Commission,
 - **Patrick Guillemin**, IERC (IoT European Research Cluster) Standardisation Coordinator, ETSI, France,
 - **Trevor Peirce**, Supply Chain Technology Consultant, AVANTA Global, United Kingdom
 - **Amiruddin Jaafar Sidek**, COO of CMSB, Malaysia

- The second session on the theme “Southeast Asian Developments in the area of Internet of Things” moderated by **Alexander Lim**, Head of Science and Technology division, ASEAN Secretariat, involved 8 Southeast Asian Experts in the area:
 - **Dr. Jimmy Lim**, Dean Faculty of Sciences, University of Computer Studies, Brunei Darussalam
 - **Neang Mao**, Official, NiDA, Cambodia
 - **Dr. Rudi Lumanto**, Special Assistant of Minister of Communication and Information, Indonesia
 - **Opaseuth Siharath**, Deputy Director of Telephone and Internet Department, Lao Telecom, Lao PDR
 - **Dr. Joel Joseph S. Marciano**, Director, Electrical and Electronics Engineering Institute, University of the Philippines, The Philippines
 - **Dr. Hoang Anh Tuan**, Senior Research Fellow - Networking Protocols, Institute for Infocomm Research, Singapore
 - **Dr. Passakon Prathombutr**, Research Unit Director, NECTEC, Thailand
 - **Dr. Hoàng Lê Minh**, Director, NISCI, Vietnam

During these two sessions, experts from both regions shared their expertise and experience in the IoT theme, their vision of the research perspectives in their regions and their suggestions relating to cooperation between Europe and Southeast Asia.

Then, three parallel sessions took place, each of them moderated by a representative of the CASAGRAS2 initiative. These working groups were focused on specific IoT issues identified as particularly promising on the basis of a survey sent, some weeks prior to the event, to SEACOOP representatives in each ASEAN country (see survey results in D. 2.3):

- Security and Privacy Technologies & Governance
- Standardisation
- Other topics

Following the discussions developed in each group, the moderators presented their conclusions in a wrap-up session (see Annex 8). The importance of IoT research in Southeast Asia and the determination of stakeholders from this region to strengthen cooperation links with Europe were confirmed in each group.

Therefore:

- in the short term, Southeast Asian countries were invited to get involved as supporting partners in



- the CASAGRAS2 initiative, several of them confirming their willingness to do so during the meeting,
- in the longer term, the possibility to identify ASEAN, in future versions of the FP7/FP8 ICT work programme, as a specific region for strategic cooperation on IoT, will be promoted by the SEACOOOP project in liaison with CASAGRAS2.

In their concluding addresses, Alvis Ancans, Project Officer at the European Commission and Emir Rio Krishna, S&T Division of the ASEAN Secretariat, expressed their satisfaction regarding these promising outputs and urged each participant to make efforts in the next weeks and months to transform perspectives into concrete cooperation projects.

The event proceedings have been uploaded on the SEACOOOP web site.

EVENT PROMOTION

Important efforts have been made at European and ASEAN levels to ensure the highest impact and attract significant and talented participants.

Since the event was held in Vietnam, Southeast Asian stakeholders interested in ICT research cooperation with Europe (researchers, private companies, institutions) with a focus on IoT, represented the main part of the attendance.

The most important part of event promotion was ensured by the local project partner NCSTP and consisted in publishing announcements promoting the forum on the organisation's websites, sending email blasts to the local ICT research communities while targeting potential attendees through personal contacts.

At the European side, the event promotion was ensured mainly through the project website, where the following information was made available:

- Event agenda
- Event registration link
- Event concept & objectives
- Speakers' bios

Information introducing the cooperation forum was also posted at the level of the EU-SEA LinkedIn Community and through the SEACOOOP Twitter account. Moreover, a newsletter promoting the event was sent to the SEACOOOP project database containing over 2500 European and Southeast Asian contacts.





LinkedIn Account Type: Basic

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Euro-Southeast Asia cooperation on ICT research

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NEW Restart your old discussions with one click. Browse your archived discussions »

Next series of SEACOOOP meetings – Vietnam & Cambodia, April 2011
The SEACOOOP partnership is pleased to invite you for the next series of events planned for April 2011 in Vietnam & Cambodia:

- 4th Cooperation Forum on "Internet of Things" - April 5, 2011 in Ho Chi Minh City, Vietnam
- 5th Cooperation Forum on "ICT for Inclusion" - April 7, 2011 in Phnom Penh, Cambodia

Organised by the SEACOOOP project under the aegis of the European Commission and of the ASEAN Secretariat, the objective of these research forums is to more precisely evaluate the research topics which could usefully be explored through joint projects on these themes, namely in the framework of the European Commission's FP7 research funding programme.

For further information (Agenda & Registration), please visit the project website:
<http://eurosoutheastasia-ict.org/>.

SEACOOOP project website | EU-ASEAN Cooperation on ICT research
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EU-ASEAN Cooperation on ICT research

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Euro Southeast Asia LinkedIn community - SEACOOOP 4th Cooperation forum news



SEACOOOP
Strengthening Cooperation on ICT research between Europe and Southeast Asia
Newsletter 4 – January 2011

Dear all,

The SEACOOOP Partnership is very pleased to bring to your attention a number of recent developments in the field of Euro-Southeast Asia Cooperation on ICT research.

Next series of SEACOOOP meetings in Vietnam and Cambodia - April 2011

4th SEACOOOP Cooperation Forum on "Internet of Things"
:: Date: April 5, 2011
:: Place: Ho Chi Minh City, Vietnam
:: Agenda & registration: <http://eurosoutheastasia-ict.org/2011/01/24/agenda-4th-seacoop-cooperation-forum-on-internet-of-things/>

5th SEACOOOP Cooperation Forum on "ICT for Inclusion"
:: Date: April 7, 2011
:: Place: Phnom Penh, Cambodia
:: Agenda & registration: <http://eurosoutheastasia-ict.org/2011/01/24/agenda-seacoop-cooperation-forum-on-ict-for-inclusion/>

Organised by the SEACOOOP project under the aegis of the European Commission and of the ASEAN Secretariat, the objective of these research forums is to more precisely evaluate the research topics which could usefully be explored through joint projects on such themes, namely in the framework of the European Commission's FP7 research funding programme.

SEACOOOP Newsletter, January 2011 - SEACOOOP 4th Cooperation forum news



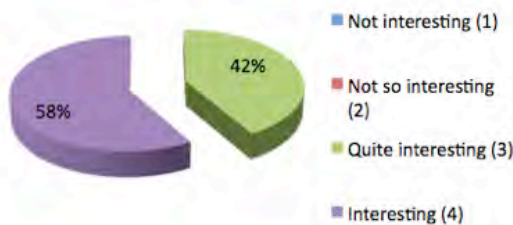
EVENT SURVEY

Following the event, a satisfaction survey was conducted among the forum participants. A response rate of 15-20% was reached, which can be considered as quite satisfactory for this type of event. Three straightforward questions were asked:

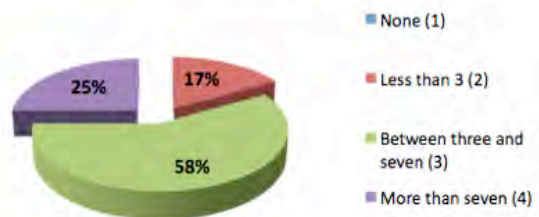
- Question 1: How would you **globally assess the interest you have found** participating in the event?
 (1: not interesting – 2: not so interesting – 3: quite interesting – 4: interesting)
- Question 2: Do you feel after the event that **cooperation between Europe and Southeast Asia related to the topic of Internet of Things is** (1: not promising – 2: not so promising – 3: quite promising – 4: promising)
- Question 3: How many **useful contacts** have you established or strengthened during the event?
 (1: none – 2: less than three – 3: between three and seven – 4: more than seven)

According to the survey (see illustration below), all participants considered that the Forum was quite interesting or interesting (58 %), and that cooperation between Europe and Southeast Asia in the IoT domain was quite promising or promising (50%). Over 80 % of attendees made more than 3 useful contacts during the event.

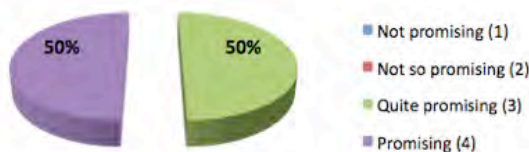
How would you globally assess the interest you have found participating in this event?



How many useful contacts have you established or strengthened during the event?



Do you feel after the event that cooperation between Europe and Southeast in the field of "Internet of Things" is



EVENT FOLLOW-UP

- With the objective of ensuring the highest impact of the forum and further developing identified priorities in IoT, the following actions have been undertaken:
- Reports on the 3 parallel sessions have been prepared and circulated by moderators (see Annex 8).
- Event proceedings including forum outputs were sent to the CASAGRAS2 initiative and to IoT experts who participated in the event .
- Synergies with CASAGRAS2 project were further developed:
 - All project partners subscribed to the IoT Essential e-magazine (CASAGRAS2 Newsletter) and a news promoting this initiative was posted on the SEACOOP website.
 - An official invitation to become CASAGRAS2 supporting partners was also sent by the CASAGRAS2 project to the SEACOOP Consortium.
- Liaison with DG Info Unit D4 “Networked Enterprise & Radio Frequency Identification” was further developed.
- Patrick Guillemin (IoT expert, speaker and working group moderator) accepted to join the pool of speakers in the 18th Infocomm & Media Horizons event on the theme “Things Communicating in the Future Internet”, to be held in Singapore in August 24, 2011, where he will report on the event outputs.
- An event satisfaction survey was sent to all attendees and the results were published on the project website.

SEACOOP 5TH COOPERATION FORUM - EVENT REPORT

EVENT OUTPUTS

A cooperation forum focusing on the theme “ICT for Inclusion” was organised on April 7, 2011 in Phnom Penh, Cambodia by the SEACOOP partnership. Over 100 participants contributed to this event (see attendee list in Annex 10) and quite a dense agenda was set up (see Annex 9).

The event was officially organized under the aegis of the European Commission and of the ASEAN Secretariat and involved high-level speakers from both regions:

- 1 representative from the Delegation of the European Union to Cambodia
- 2 delegates from the ASEAN Secretariat
- 1 representative from the European Commission
- 4 European experts on ICT for Inclusion
- 4 SEACOOP Advisory Committee members
- 7 Southeast Asian experts from ASEAN on ICT for Inclusion



Four Parallel sessions were organised, during which working groups moderated by the European experts strived to thoroughly discuss sub-themes of particular mutual interest (identified as such through a pre-event survey handled by the SEACOOP Southeast Asian partners – see D.2.3), and to identify short-term cooperation projects which could be presented to upcoming FP7 Calls.

Outputs of the parallel sessions were presented in a wrap-up session during which partners agreed on next steps to be supported by SEACOOP.

EVENT STRUCTURE

The event started with welcome and opening addresses by:

- **H.E. CHEA Seang Hong**, Secretary of State, and Chairman of National Committee of Science and Technology in Cambodia (NCOST), Ministry of Industry, Mines and Energy, Cambodia
- **Koen Everaert**, Attaché, Delegation of the European Union to Cambodia
- **H.E. Dr. NHEK Korsol Vythya**, Member of NiDA's Board of Directors, Member of Economic Social and Cultural Council (ECO-SOCC), Office of the Council of Ministers, Cambodia
- **Alvis Ancans**, Policy officer, International relations Unit, DG Information Society and Media, European Commission
- **Dr. Alexander Lim**, Head of Science and Technology division, ASEAN Secretariat
- **Roger Torrenti**, CEO, Sigma Orionis, SEACOOP project coordinator

The official opening of the Forum was followed by two plenary sessions, during which experts from both regions shared their expertise and experience in this theme, their vision of the research perspectives in their regions and their suggestions regarding cooperation between Europe and Southeast Asia.

The first plenary session, moderated by Roger Torrenti, focused on European developments in the area of ICT for Inclusion and involved the following European speakers:

- **Alvis Ancans**, Policy officer, International relations Unit, DG Information Society and Media, European Commission
- **Dr. John Gill**, Independant Consultant, United Kingdom
- **Bridgette Wessels**, Sociological Studies, University of Sheffield, United Kingdom
- **Pierre-Yves Danet**, Research lab CTO, Orange Labs, France
- **Dr. Channa Gunawardena**, Director Business Development, Megaskills Research, United Kingdom

The lunch was followed by the second plenary session moderated by Alexander Lim, Head of Science and Technology division, ASEAN Secretariat and focused on Southeast Asian Developments in the area of ICT for Inclusion. Within the framework of this session 7 ASEAN experts shared their experience in the field:

- **Dr. Seyed Mohamed Buhari**, Senior Lecturer from Faculty of Science, UBD, Brunei Darussalam
- **Dr. Sackona Phoeurng**, Secretary of State for Education, Youth and Sport, Administration Board of ITC, Cambodia



- **Prof. Phal Des**, Director of IT Centre, Royal University of Phnom Penh, Cambodia
- **Dr. Anto Satrio Nugroho**, Researcher in Speech Processing and Pattern Recognition, BPPT, Indonesia
- **Opaseuth Siharath**, Deputy Director of Telephone and Internet Department, Lao Telecom, Lao PDR
- **Dr. Mark David Rice**, Senior Research Fellow - Computer Graphics & Interface, Institute for Infocomm Research, Singapore
- **Dr. Piyawut Srichaikul**, Research Unit Director, NECTEC, Thailand

Then, four parallel sessions took place, each of them moderated by one European expert. These working groups focused on specific “ICT for Inclusion” issues identified as particularly promising thanks to a survey (see D.2.3, Annex) sent, some weeks prior to the event, to SEACOOP representatives in each ASEAN country:

- ICT for elderly and disabled,
- Inclusive eGovernment,
- Geographical inclusion,
- eCompetence & Socio-cultural inclusion.

Following the discussions developed in each group, the moderators presented their conclusions in a wrap-up session (see Annex 15). They underlined that beyond the fact that these sessions had led to useful discussions and exchanges of viewpoints, they had also permitted to identify possible common project ideas and to agree on draft roadmaps to go from reached status to FP7 proposals.

In their concluding addresses, Alvis Ancans, Project Officer at the European Commission and Emir Rio Krishna, S&T Division of the ASEAN Secretariat, expressed their satisfaction regarding these promising outputs and urged each participant to make efforts in the next weeks and months to transform perspectives into concrete cooperation projects.

EVENT PROMOTION

Since the event took place in Cambodia, Southeast Asian ICT researchers and private stakeholders, specialized on ICT for Inclusion, represented the main part of the attendance. In order to attract this audience, the SEACOOP local partner, NiDA has ensured the following promotional actions:

- News promoting the forum were posted on NiDA’s website and an online registration form was created
- Thanks to personal contacts, an invitation through the event agenda circulated to target attendees
- An email blast had been sent to the local ICT research community, using NiDA’s database.

On the European side, the event promotion was mainly ensured through the project website, where the following information was made available:

- Event agenda
- Event venue



- Event concept & objectives
- Speakers' bios

Also, the information on the forum has been spread through social networks such as the SEACOOP LinkedIn Group and Twitter. In order to find potential speakers on ICT for Inclusion, an announcement was posted on the "ICT for Inclusion" LinkedIn Group, which proved to be the effective way to get interesting contacts in the area.



Announcement targeting EU experts in ICT for inclusion on the SEACOOP LinkedIn

Finally the event was promoted in the two releases of the SEACOOP Newsletter promoting the event has been sent during the reported period 2500 to European and Southeast Asian contacts.

EVENT SURVEY

An event survey aimed at evaluating the degree of attendees' satisfaction was conducted following the 5th Cooperation Forum. So as in the case of the 4th Cooperation Forum, the participants were invited to respond to 3 questions:

- Question 1: How would you **globally assess the interest you have found** participating in the event?
(1: not interesting – 2: not so interesting – 3: quite interesting – 4: interesting)
- Question 2: Do you feel, after the event, that **cooperation between Europe and Southeast Asia**

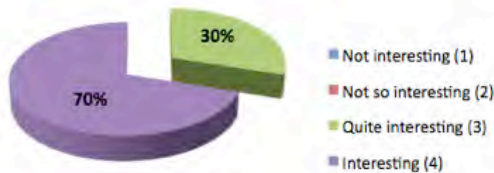


related to the topic ICT for Inclusion is (1: not promising – 2: not so promising – 3: quite promising – 4: promising)?

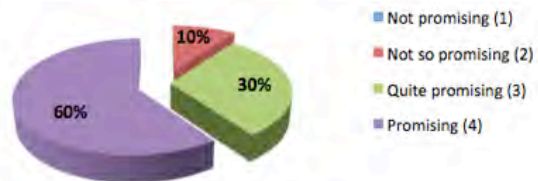
- Question 3: How many **useful contacts** have you established or strengthened during the event? (1: none – 2: less than three – 3: between three and seven – 4: more than seven)

The response rate was quite satisfactory, as over 15 % of attendees participated in the survey. The large majority of attendees (see illustration below) considering that the event was interesting, that many useful contacts were made, and that EU-SEA cooperation on “ICT for inclusion” was promising.

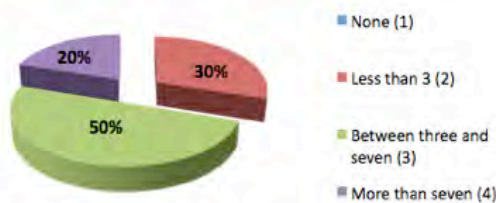
How would you globally assess the interest you have found participating in this event?



Do you feel after the event that cooperation between Europe and Southeast in the field of “ICT for Inclusion” is



How many useful contacts have you established or strengthened during the event?



EVENT FOLLOW-UP

In order to support the implementation of what had been discussed and agreed on during this event all reports prepared by session moderators have been made available on the project website. Forum proceedings and outputs were also sent to the Unit in charge of ICT for Inclusion at DG Info and to all attendees. Then, the event satisfaction survey was sent to all participants and the results were published on the project website.

As a direct consequence of the 5th SEACOOOP Cooperation forum, SEACOOOP partners were asked to bring their contribution for a roadmap exercise on user interfaces. John Gill, Independent Consultant from the United Kingdom (speaker in this forum), invited SEACOOOP partners to participate to a roadmap as part of



the CARDIAC project. This roadmap is being developed for research on accessible user interfaces in the field of inclusive Human Computer Interaction (HCI). A document will be drawn up to outline essential areas and types of research missing that could facilitate the development of these technologies. In order to collect input, a Wikispace has been set up and a workshop is scheduled for the 28th-29th of June in San Sebastian in Spain.

ANNEXES RELATED TO THE 4TH SEACOOP COOPERATION FORUM

ANNEX 1: AGENDA

SEACOOP 4th Cooperation Forum Internet of Things

Tuesday, April 5, 2011
Ho Chi Minh City, Vietnam

Venue: Legend Hotel Saigon

Organized by the SEACOOP partnership
under the aegis of the European Commission and of the ASEAN Secretariat

Agenda

8:00 *Welcome of Participants*

9:00 Opening Session

Chaired by Roger Torrenti, CEO Sigma Orionis, SEACOOP project coordinator

Prof. Do Trung Ta, Chairman of NCSTP, Vietnam

Dr. Matthias Duehn, Executive Director, Eurocham, Vietnam

9:30 Welcome Addresses

Chaired by Dr. Tran Ngoc Ca, Director of Secretariat, NCSTP, Vietnam

Christoph Forax, ICT Counsellor for ASEAN, European Commission

Dr. Alexander Lim, Head of Science and Technology division, ASEAN Secretariat

Roger Torrenti, CEO, Sigma Orionis, SEACOOP project coordinator

10:00 *Tea-coffee break*

10:30 European Developments in the area of Internet of Things

Chaired by Christoph Forax, ICT Counsellor for ASEAN, European Commission

Alvis Ancans, Policy officer, International relations Unit, DG Information Society and Media, European Commission

Patrick Guillemin, IERC (IoT European Research Cluster) Standardisation Coordinator, ETSI, France

Trevor Peirce, Supply Chain Technology Consultant, AVANTA Global, United Kingdom

Amiruddin Jaafar Sidek, COO of CMSB, Malaysia

12:00 *Lunch*



13:30 Southeast Asian Developments in the area of Internet of Things

Chaired by Alexander Lim, Head of Science and Technology division, ASEAN Secretariat

Dr. Jimmy Lim, Dean Faculty of Sciences, University of Computer Studies, Brunei Darussalam

Neang Mao, Official, NiDA, Cambodia

Dr. Rudi Lumanto, Special Assistant of Minister of Communication and Information, Indonesia

Opaseuth Siharath, Deputy Director of Telephone and Internet Department, Lao Telecom, Lao PDR

Dr. Joel Joseph S. Marciano, Director, Electrical and Electronics Engineering Institute, University of the Philippines, The Philippines

Dr. Hoang Anh Tuan, Senior Research Fellow - Networking Protocols, Institute for Infocomm Research, Singapore

Dr. Passakon Prathombutr, Research Unit Director, NECTEC, Thailand

Dr. Hoang Le Minh, Director, NISCI, Vietnam

15:00 *Tea-coffee break*

15:30 Parallel working groups on sub-topics

Chaired by Trevor Peirce, Patrick Guillemin, Amiruddin Jaafar Sidek

Group 1: Security and Privacy Technologies & Governance

Trevor Peirce, Supply Chain Technology Consultant, AVANTA Global, United Kingdom

Group 2: Standardisation

Patrick Guillemin, IERC (IoT European Research Cluster) Standardisation Coordinator, ETSI, France

Group 3: Other topics

Amiruddin Jaafar Sidek, COO of CMSB, Malaysia

17:00 Wrap-up and Roadmap. Which concrete cooperation could be developed in the short to medium term?

Chaired by Roger Torrenti, CEO, Sigma Orionis, SEACOOP project coordinator

Working groups conclusions

Patrick Guillemin, IERC (IoT European Research Cluster) Standardisation Coordinator, ETSI, France

Trevor Peirce, Supply Chain Technology Consultant, AVANTA Global, United Kingdom

Amiruddin Jaafar Sidek, COO of CMSB, Malaysia

Concluding addresses

Christoph Forax, ICT Counsellor for ASEAN, European Commission

Dr. Alexander Lim, Head of Science and Technology division, ASEAN Secretariat

17:30 *Networking cocktail*

ANNEX 2: ATTENDEE LIST

TT	NAMES	ORGANIZATIONS	COUNTRIES
1	Mr. Thoai Nam	Dean of ICT Faculty- University of Technology, HCMC	Việt Nam
2	Mr. Le Van Trung	IT park- VNU HCM	Việt Nam
3	Mr. Võ Thieu Hưng	IT park- VNU HCM	Việt Nam
4	Mr. Nguyen Thanh Nam	Department of S&T- VNU HCM	Việt Nam
5	Mr. Hoang Le Minh	NISCI	Việt Nam
6	Mr. Tran Van Lang	IOIT- TPHCM	Việt Nam
7	Mr. Mai Anh	Hanoi ICT association	Việt Nam
8	Mr. Phan Minh Tan	Department of S&T, HCMC	Việt Nam
9	Mr. Le Manh Ha	Department of ICT, HCMC	Việt Nam
10	Ms. Pham Thi Thuy Ngoc	Department of Foreign relations- HCMC	Việt Nam
11	Mr. Lê Thai Hy	Hightech Park, HCMC	Việt Nam
12	Mr. Tran Luong Son	Vietsoftware	Việt Nam
13	Mr. Chu Tien Dung	Quang Trung software park	Việt Nam
14	Mr. Thieu Phuong Nam	IBM	Việt Nam
15	Mr. Pham Do Tuan	Intel	Việt Nam
16	Mr. Pham Kim Long	FPT HCMC	Việt Nam
17	Mr. Nguyen Huu Le	TMA- TPHCM	Việt Nam
18	Mr. Nguyen Minh Hong	ICT Vice Minister, NCSTP	Việt Nam
19	Mr. Phan Thanh Binh	NCSTP	Việt Nam
20	Mr. Đàng Mau Chien	NCSTP	Việt Nam
21	Bà Duong T. Binh Minh	NCSTP	Việt Nam
22	Mr. Nguyen Ngoc Tran	NCSTP	Việt Nam
23	Mr. Ho Si Thoang	NCSTP	Việt Nam
24	Mr. Tran Ngoc Ca	NCSTP	Việt Nam
25	Ms. Mai Bich Ngoc	NCSTP	Việt Nam
26	Ms. Pham Thi Ha	NCSTP	Việt Nam
27	Ms. Zalina Abdul Halim	MDEC	Malaysia
28	Mr. Alvis Ancans	European Commission	Belgium
29	Mr. Gavin Ang	I2R	Singapore
30	Mr. Saiful Azmi Haji Husain	Brunei Darussalam University	Brunei Darussalam

31	Mr. Valaxay Dalaloy	NAST	Laos
32	Mr. Pierre Yves Danet	CTO Lab	France
33	Mr. Christophe Forax	European Commission	Singapore
34	Mr. Patrick Guillemin	ETSI	France
35	Mr. Pensri Guntasopatr	NSTDA/NECTEC	Thailand
36	Mr. Sokun Heng	NiDA	Cambodia
37	Mr. Irwan Rawal Husdi	BPPT	Indonesia
38	Mr. Hoang Anh Tuan	Institute of Infocomm Research	Singapore
39	Mr. Dwi Handoko	BPPT	Indonesia
40	Mr. Stanislaw Jarzabek	National Un. Of Singapore	Singapore
41	Ing Ekendra Lamsal	AIT	Thailand
42	Mr. Wilson Lau	I2R	Singapore
43	Mr. Le Duc Bao	Anttek	Việt Nam
44	Mr. Mervyn Levin	Leverling Ltd	Thailand
45	Mr. Alexander Lim	Asean Secretariat	Indonesia
46	Mr. Jimmy Lim	UBD	Brunei
47	Mr. Rudi Lumanto	Ministry of C&I	Indonesia
48	Mr. Joric Maglanque	ASTI	Philippines
49	Mr. Joel Joseph Jr Marciano	University of Philipines	Philippines
50	Mr. Mao Neang	NiDA	Cambodia
51	Mr. Nguyen Sơn	IOIT	Vietnam
52	Mr. Trevor Peirce	Avanta Global SPRL	Belgium
53	Mr. Pham Tran Vu	Technology University HCMC	Vietnam
54	Mr. Phonpasit Phissamay	NAST	Laos
55	Mr. Passakon Prathombutr	NECTEC	Thailand
56	Mr. Opaseuth Siharath	Laos Telecom	Laos
57	Mr. Pansak Siriruchatapong	NECTEC	Thailand
58	Kamal Hisham Bin Kamaruddin	MDEC	Malaysia
59	Ms. Khin Mar SOE	UCSY	Myanmar
60	Mr. Eng Sothy	NIDA	Cambodia
61	Mr. Piyawut Srichaikul	NECTEC/NSTDA	Thailand
62	Ms. Ni Lar Thein	UCSY	Myanmar
63	Mr. Roger Torrenti	Sigma Orionis	France
64	Mr. Camille Torrenti	Sigma Orionis	France
65	Ms. Chutchana Vesayaporn	NECTEC	Thailand
66	Ms. Nathalie Van De Wiele	ePrep	France
67	Mr. Denis Villorrente	ASTI	Philippines
68	Mr. Frederic Viniacourt	EADS	Singapore
69	Mr. Khemera Mok	SETEC	Cambodia
70	Mr. Emir Rio Krishna	Technical Officer of S&T Division ASEAN Secretariat	Indonesia
71	Mr. Nguyen Anh Thi	Department of S&T- VNU HCM	Việt Nam
72	Dr. Matthias Duehn	Executive Director, EUROCHAM	Việt Nam
73	Mr. Amiruddin Jaafar Sidek	CMSB	Malaysia
74	Mr. Le Thai Hy	High-tech Park, HCMC	Việt Nam

ANNEX 3: SPEAKERS' BIOS

Welcome Addresses



Christophe Forax was appointed as the European Union's Counsellor for ICT and Audiovisual for ASEAN, Taiwan, Hong Kong and Korea in September 2009. He has been working for the European Union for 15 years, notably as the Spokesman for Media and Education, and as Member of the Private Office of the Telecom and Media Commissioner. Christophe is currently based at the Delegation of the European Union to Singapore and his portfolio includes regulatory dialogues, R&D cooperation and representation of the European Commission on ICT and audiovisual policies with ASEAN and ASEAN's member countries, Hong-Kong, Taiwan and Korea. He is regularly invited to present the EU approach to issues such as convergence, next-generation broadband, spectrum management and ICT research.



Dr. Alexander Alamil Lim graduated with a PhD. degree in Solar Energy/PV Systems at Murdoch University in Western Australia. He has over 20 years experience as Instructor, Assistant professor and Associate professor at University of Philippines Los Banos. From 1996 to 1999 he worked as Programme Coordinator and obtained the diploma in Science Teaching from the UP Open University. During the years 1999 - 2004, Alexander Lim occupied the position of Deputy Executive Director in Philippine Council for Advanced Science and Technology Research and Development. Then, in 2004 he joined the ASEAN Secretariat in Jakarta as Senior Officer at Science and Technology Division and was appointed in 2007 Head of Coordination Unit at the Bureau for External Relations and Coordination (ASEAN Secretariat). Since 2009 Alexander Lim has occupied the position of Assistant Director and Head of Science and Technology Division in ASEAN Secretariat.



Roger Torrenti graduated in 1976 from Ecole Centrale de Paris, one of the French "engineers high schools". He began his career as a research engineer at the French Atomic Energy Commission (CEA), where he developed a specialized knowledge in energy technologies. Two of his research results were patented in 1977 and 1978. He also had the opportunity to be involved in international working groups, from 1979 onwards, within the IEA (International Energy Agency) and EC projects. In 1979, he was given the management of an applied research institution linked to Ecole Nationale des Mines de Paris and the French Ministry for Industry. Its core activities concerned the use of information technologies in energy systems. There, Roger developed his specialized knowledge of the energy and IT fields (one of his research results was patented in 1981) and his international experience (he was involved in international research projects and the organization of international conferences). In 1984, Roger Torrenti founded Sigma Orionis (formerly Sigma Consultants), and he is still its CEO and main shareholder. He is often invited by national or international institutions to act as an expert in his specialized fields of technological knowledge. He has, for example, been acting (since 1990) as an evaluator or reviewer in many European Commission Programs. His passions include mountain climbing, philosophy, photography, modern art, and basketball.

European Developments in the area of Internet of Things



Alvis Ancans joined the international relations unit of the European Commission's Information Society and Media Directorate General in march 2007. His main duties include fostering ICT research cooperation between the EU and Asian countries, notably, India, Japan, Korea and ASEAN. Before joining the commission, Alvis worked as the political specialist at the U.S. Embassy in Riga, Latvia. He holds a master's degree in international relations from the fletcher school of law and diplomacy, Tufts University.



Patrick Guillemin is responsible within the ETSI Secretariat for development, co-ordination and management of new standardization initiatives including the Internet of Things, RFID and related fields. Patrick has 22 years of experience in IT and Telecommunications Project Management and 16 years in Standardization. Patrick was Coordinator of the EU CERP-IoT Cluster of research projects on RFID and IoT and participates directly in 3 EU Projects related to RFID and the Internet Of Things: CASAGRAS, GRIFS and RACE networkRFID. He was previously ETSI Technical Officer in charge of ETSI's RFID standardization committees, worked previously for 2 years as ETSI Plugtests Technical Manager (25 Plugtests events managed in 2 years) and was ETSI IT System Group Manager & Security Technical Manager. He organized the first ETSI RFID Plugtests in March 2005. Patrick supported the creation of ETSI TC GRID. In parallel, he was Software Engineering Teacher at Nice University (France) for 14 years. Between 1985 and 1993, he worked as CIO for the French Stock Exchange in Paris and for Digital Equipment Corporation in Sophia Antipolis as Project Manager and consultant. Patrick has an Engineer Dipl. from the French University ENSAM (Ecole Nationale des Arts et Métiers) and a Master Degree in Software Engineering.



Trevor Peirce has been involved in GRIFS, CASAGRAS, RACE networkRFID, RFID Mandate M/436, RFID Plugtests, International Cooperation with China (CESI) and is rapporteur of a ETSI TC TISPAN WG7 European Norm related to RFID Security and Privacy. Trevor Peirce has been at the very centre of RFID standards in his role as Standards Director of EPCglobal and has broad experience of RFID from airline baggage tracking, transport, supply chains (former member of METRO's Innovation Team expert group), library systems, etc.



Amiruddin Jaafar Sidek is the COO of CMSB. Besides leading the business and operational initiatives, he is one of the champions and implementers of the company's processes in ensuring its compliance to the ISO9001 accreditation, as well as towards its attainment of the CMM-I certification. As a technology strategist, he also drives the company's technology projects as well as the Research and Development initiatives in new and innovative applications and products.

Southeast Asian Developments in the area of Internet of Things



Dr. Lim Chee Ming is the head of energy research group in Universiti Brunei Darussalam (UBD). He previously held position as dean of science. His role as head of energy research is to coordinate and manage the energy research activities in UBD. Dr. Lim also contributes to national energy efficiency and conservation work. Dr. Lim's interest in information technology are focus on: closing of digital divide, IT for sustainable growth and techno-economics modelling of energy systems.



Neang Mao obtained a Master of Science degree in Computer Science at Ateneo de Manila University, Philippines. During 1999-2005 he worked as Lecturer of Computer Science at Royal University of Phnom Penh in Cambodia. From 2005 to 2010 Neang Mao occupied the position of Police Official in Department of International Police in Phnom Penh. In 2010 he was appointed Present Official in National Information Communications Technology Development Authority (NiDA) in Cambodia.



Opaseuth Siharath obtained the Bachelor from Thailand in the field of electricity and master degree in Information Technology (IT) field. Since 1996 he has been working at Lao Telecom in telephone and Internet department and he has specialised in network field. He is in charge of controlling and monitoring the Internet network and services such as ADSL service, 3G service, lease line service. He is also much involved in the core network of Internet project developed by Lao Telecom. Before having joined the Lao Telecom he has been a lecturer at National University of Laos for 3 years and an advisor of a group of students.



Dr. Joel Joseph S. Marciano earned his PhD Degree in Electrical Engineering from the University of New South Wales, Sydney Australia. He is currently an associate professor and the Director of the Electrical and Electronics Engineering Institute, College of Engineering, University of the Philippines. His areas of research interest are Wireless Communication, Smart antennas, beamforming, interference cancellation, diversity and MIMO RF/Microwave/Millimeter Wave Circuits, and Radio Frequency Identification (RFID). His current publications in year 2010 include Enhancing the Accuracy of DoA Estimates of Passive UHF RFID Tag Signals Using Adaptive Filtering, which was presented in the Proceedings of the 2010 International Symposium on Signal Processing and its Applications (ISSPA) in, Kuala Lumpur, Malaysia and the "Carrier Suppression Locked Loop Mechanism for UHF RFID Readers, which was presented during the in Proceedings of the IEEE RFID Conference from April 12-15, 2010 at Orlando, Florida, USA. He is also listed as a member in the ASEAN engineers registry.



Dr. Anh Tuan is a Senior Research Fellow and Project Manager at the Department of Networking Protocols, Institute for Infocomm Research (I2R), Singapore. He obtained his PhD degree in Electrical Engineering from National University of Singapore in 2005. Anh Tuan's research interests cover Wireless Sensor Networks, Cognitive Radio Networks, Home Networking, Smart Grid, and Vehicular-to-Vehicular Communications. Apart from carrying out fundamental research in these fields, he is also working closely with industry partners to develop and deploy practical networking systems. He has also been actively contributing to IEEE 802.22 Working Group that specifies standard for cognitive radio networks over the TV White Space and to IEEE 802.16n & p Task Groups that specify standards for smart grid and machine-to-machine communications. Before joining I2R, Anh Tuan worked as a Network Engineer in Ericsson Vietnam and as Head of Legal and Technology Transfer at the R&D Center of Viettel Group.

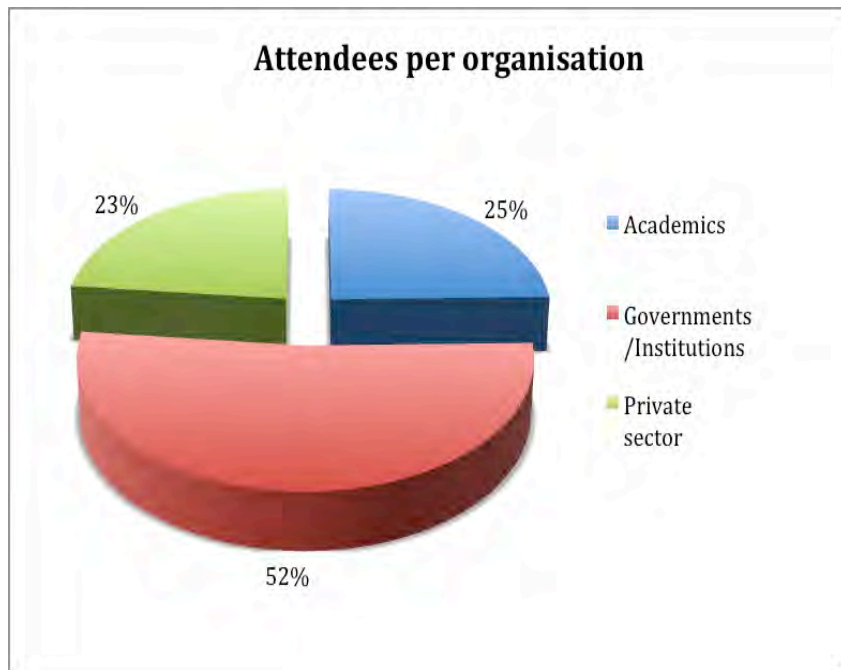
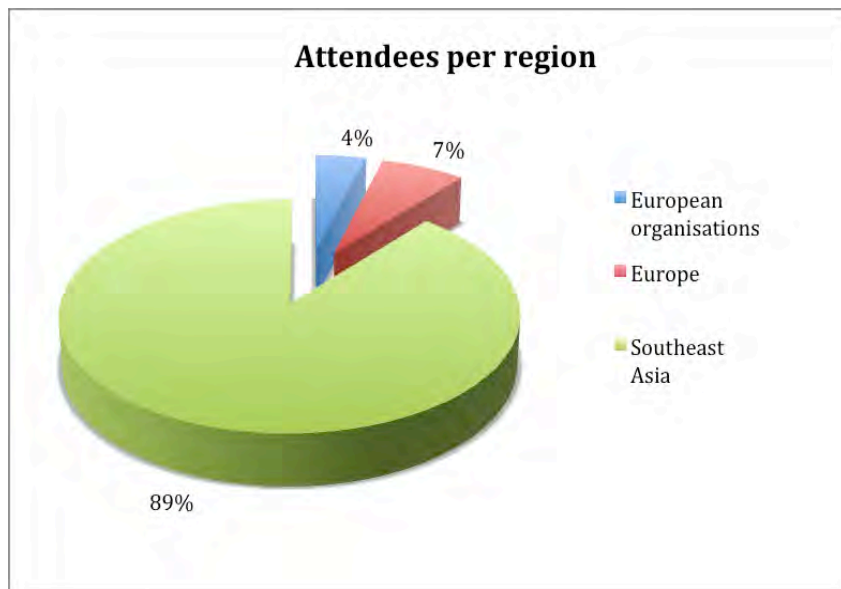


Dr. Passakon Prathombutr graduated the interdisciplinary Ph.D. program in Software architecture and Computer networking from the University of Missouri, Kansas City. He has been working as a researcher at National Electronics and Computer Technology Center (NECTEC), Ministry of Science and Technology, Thailand since 1993. In NECTEC he was the director of Next Generation Internet Laboratory and the director of Intelligent Transport System program. Today, he serves as the director of SRI (Service Research & Innovation program) and the director of ICCRU (Information Communications and Computing Research Unit.) He is also the vice president of Intelligent Transport System Thailand and a co-founder of Thailand IPv6 association and a co-founder of Thai Intelligent Traffic Information Center Foundation.



Dr. Hoang Le Minh graduated from the Moscow State University in Mathematics in 1980, Ph.D and was invited to work during 1985-1991 years for various research institutes and universities in Russia, Poland, Italy, France and Japan. In 1991 Dr. Hoàng Lê Minh started teaching job at Department of Mathematics and Informatics at Hochiminh City University. In 1995 became the Chair of Computing Applications Division and in 2001, accepted the position of Director of Software Technology Center of Vietnam National University. In 2003, Dr. Hoàng Lê Minh began state management duties as Deputy Director of Department of Science and Technology, Head of IT Project Management Office, Deputy Director of Department of Posts and Telematics (now the Department of Information and Communications) in Hochiminh City. In April 2008, Dr. Hoàng Lê Minh has been appointed by the Minister of Information and Communications as the Director of Vietnam National Institute of Software and Digital Content Industry (NISCI), a public science and technology institute belonging to the Ministry of Information and Communications, with missions to assist the Ministry in Technology Policy for building and developing Software and Digital Content Industry in Vietnam.

ANNEX 4: EVENT STATISTICS



ANNEX 5: PHOTO GALLERY



ANNEX 6: VIDEO GALLERY

4th Cooperation Forum On Internet of Things, April 5, 2011 - Roger Torrenti



4th Cooperation Forum On Internet of Things, April 5, 2011 - Matthias Duehn



4th Cooperation Forum On Internet of Things, April 5, 2011 - Matthias Duehn



4th Cooperation Forum On Internet of Things, April 5, 2011 - Christophe Forax



ANNEX 7: EVENT PROMOTION



SEACOO 4th Cooperation Forum on Internet of Things

**Legend Hotel Saigon, Ho Chi Minh City
Vietnam - April 5, 2011**

Organized by the SEACOO partnership and hosted by NCSTP



A research forum organised under the aegis of the European Commission
and of the ASEAN Secretariat

EVENT EXPECTED OUTPUTS



■ Bring together policy and research stakeholders from Europe and Southeast Asia



■ Exchange of information on the status and perspectives of the cooperation

■ Identify potential cooperation projects to be launched under FP7

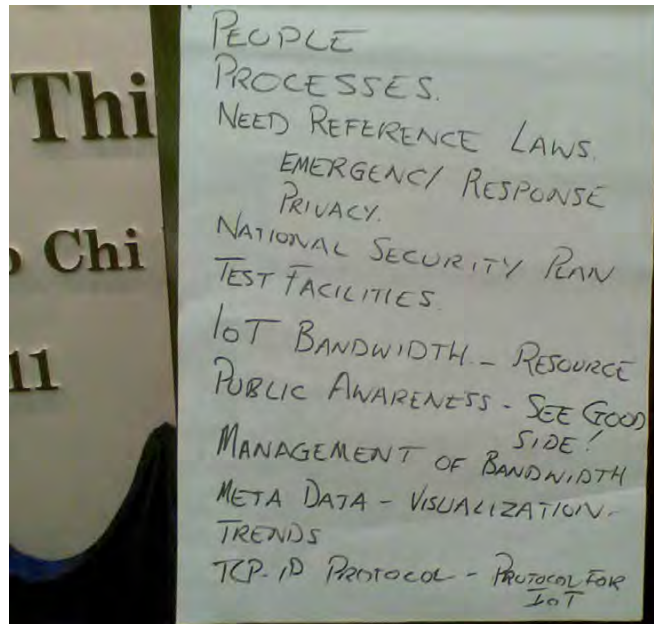
For further information
www.seacoop.eu or info@seacoop.eu



ANNEX 8: WORKING GROUPS CONCLUSIONS



Group 1: Security and Privacy Technologies & Governance



People – making IoT suitable for individuals

Processes – IoT adapted to fulfilling or augmenting existing and/or new applications

Need for reference laws, particularly with respect to:

- Emergency Response – ways to ensure protection of essential/priority IoT applications
- Privacy

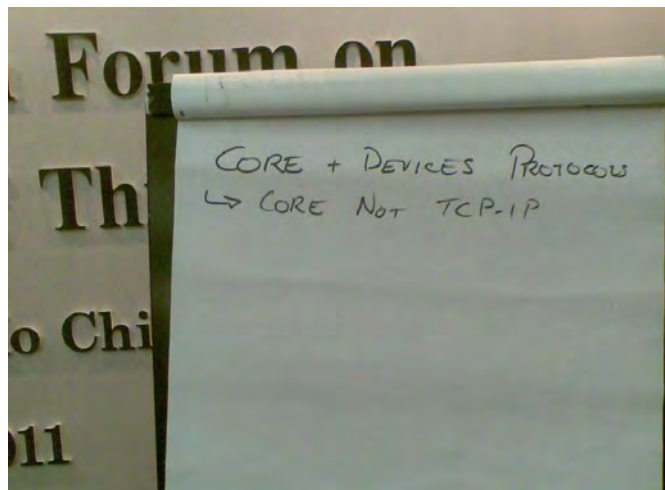
National Security Plan – working toward alignment of IoT with national security requirements

IoT test facilities required (including for privacy and security)

- Conformance
- Interoperability
- Performance



- IoT Bandwidth – IoT Resource constraints
- Public awareness – ways to establish trust and encourage the public in the use of IoT
- Management of bandwidth – tackling all forms of IoT adoption potential resource restrictions
- Metadata, visualization and ways to process IoT data and establish trends, etc..
- IoT protocols, both core and devices. Core protocols should not exploit TCP-IP.



Trevor Peirce
AVANTA
Global SPRL

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4th SEACOOOP Cooperation Forum on Internet of Things (IoT)
WORKING GROUP SESSION
Patrick GUILLEMIN - ETSI
Ho Chi Minh, Vietnam on April 5, 2011
Standardisation



Already seen



From previous presentation:

- European Standard Organisations
- CASAGRAS2 European Projects scope related to standardisation
- Links between Research, Regulation and Standardisation
- ETSI Technical Committees related to IoT





European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung



International
Organization for
Standardization









International
Telecommunication
Union

CEN European Committee for Standardisation, <http://www.cen.eu>
CENELEC European Committee for Electrotechnical Standardization, <http://www.cenelec.eu>
ETSI European Telecommunications Standards Institute, <http://www.etsi.org>
ISO International Organization for Standardization, <http://www.iso.org>
IEC International Electrotechnical Commission, <http://www.iec.ch>
ITU International Telecommunication Union <http://www.itu.int/ITU-T>

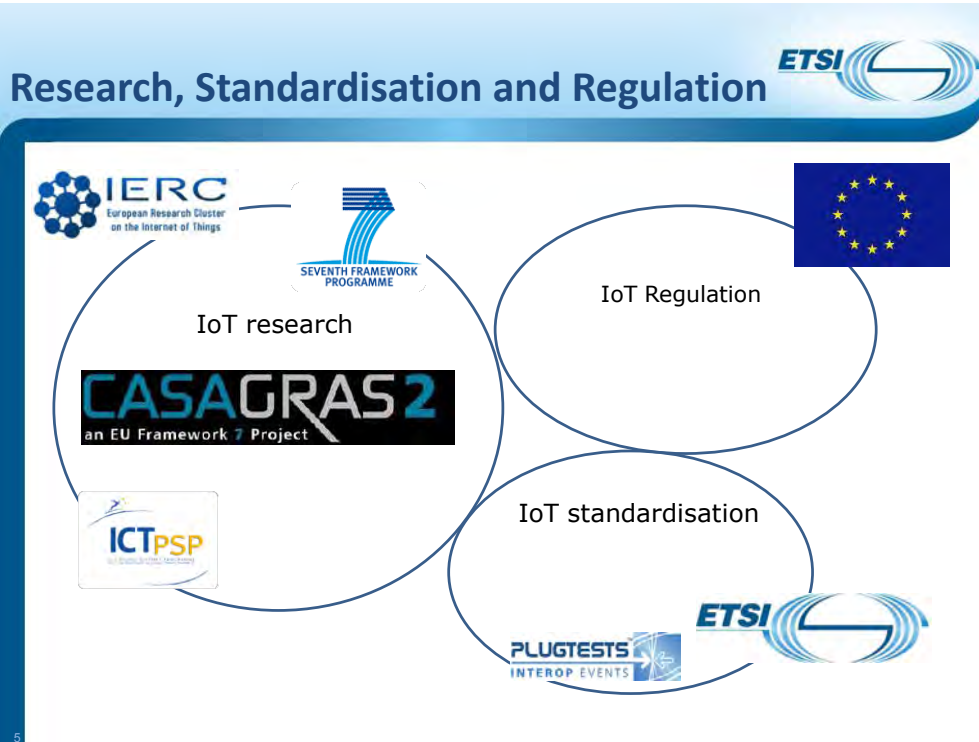


CASAGRAS2 is a EU FP7 Call5 supporting action on IoT standardisation collaboration (June 2010 to June 2012 with 925 000 Euros) and 16 Partners from: USA, Europe, China, Korea, Japan, India, Russia, Brazil (LA) and Malaysia...

The aim is to address the key international issues that are important in providing the foundations and co-operation necessary for realising the Internet of Things as a global initiative.

These issues include:

- IoT GOVERNANCE
- IoT IDENTIFICATION CODING
- STANDARDS AND REGULATIONS
- POLICY & INTELLECTUAL PROPERTY
- IoT ARCHITECTURE
- SERVICES & APPLICATIONS
- AWARENESS/EDUCATION/TRAINING



Where can find IoT standards ?

TC M2M, ETSI Technical Committee Machine-to-Machine communications, <http://portal.etsi.org/tispan/M2M>

TC TISPAN, ETSI Technical Committee Telecoms & Internet converged Services & Protocols for Advanced Network, <http://portal.etsi.org/tispan/TISPAN> (RFID Security WG7)

TC ERM, ETSI Technical Committee Electromagnetic Compatibility (EMC) and Radio Spectrum Matters, <http://portal.etsi.org/tispan/ERM> (RFID : TG34)

ISG AFI, ETSI Industry Specification Group on Autonomic network engineering for the self-managing Future Internet, <http://portal.etsi.org/AFI>

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STANDARDISATION WORKING GROUP

IoT Standardisation Discussion

- Objective: Roadmap with concrete cooperation that could be developed in the short to medium term.
- Suggestions: CASAGRAS2 extended group of IoT stakeholders, IERC access via CASAGRAS2, Interoperability testing, IoT Survey...
- Work: look at IoT standards in TC M2M, <http://portal.etsi.org/m2m>

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IoT standards in TC M2M

- some ETSI TC M2M IoT work items
 - M2M service requirements - maintenance for Release 1
 - Machine-to-Machine communications (M2M); M2M functional architecture
 - M2M definitions
 - M2M Use Case - eHealth
 - M2M Use Case - Connected Consumer
 - M2M Use Case - City Automation
 - M2M Use Case - Automotive Applications
 - Impact of Smart Grids on M2M platform
 - Threat analysis and counter measures to M2M service layer
 - Reuse of Core Network Functionality by M2M Service Capabilities

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Prepared by : Amir Jaafar Sidek (07-April-2011)
CASAGRAS2 International Partner – Custommedia Sdn Bhd

Amir's Notes

(The CASAGRAS2 representatives were Patrick Guillemain, Trevor Peirce, and Amir Jaafar Sidek):

SEACOOP

4th Cooperation Forum on IoT
Legend Hotel Saigon,
Ho Chi Minh City, Vietnam
Tuesday, 5th April 2011.

www.eurosoutheastasia-ict.org

**Afternoon:
Breakout Session**

There were 3 breakouts. Group #3 was facilitated by Amir (Custommedia Sdn Bhd - CMSB)
– Attended by approximately 10 participants ranging from non-technical to researchers.

Topic set for group #3 = “Other Topics”
(other than “Security & Privacy” or “Standardization”)

The group discussed on the topic of interest and decided to focus on the “bigger picture” and not so much on technology surrounding IoT.

The group decided on the following topics:

- a) The goal of IoT in ASEAN
- b) How can ASEAN exploit IoT for societal & economic benefits

(a) The group came to consensus that the goal of IoT in ASEAN to be:

“IoT to stimulate new value-chains to achieve societal and economical benefits in the ASEAN region”

Notes:

- This goal should address all stake holders i.e. businesses, citizens & government for sustainable growth
- In deriving the above goal, the following “key-words” were mentioned as areas of focus or interest:
 - ✓ Economic & societal benefits
 - ✓ Connectivity
 - ✓ Improved Efficiency
 - ✓ Informed decision making or informed choice selection by stakeholders
 - ✓ Business model

Prepared by : Amir Jaafar Sidek (07-April-2011)
CASAGRAS2 International Partner – Custommedia Sdn Bhd

- As for the **value-chain**, the following were mentioned:
 - ✓ All stake-holders is able to make informed decision/choice
 - ✓ All stakeholders can be better connected
 - ✓ Opportunity to create new partnerships across all sectors/disciplines to achieve technical and business models model innovations

(b) In terms of **exploitation of IoT in ASEAN**, the following **use cases** were identified and to be noted by the EU counterpart:

- **Improving Healthcare Services**
(e.g. patient pathway in Malaysia, IP-based medical devices in Thailand, smart workplace in Singapore, etc)
- **Disaster Early Warning & Management**
(e.g. Tsunami warning, flood warning (Dam Monitoring) in Thailand, landslide warning (or slope management) in Philippines & Malaysia, etc)
- **Environmental Control**
(e.g. CO₂ emission, pollution control in schools, pollution control during deforestation season, etc)
- **Smart (or Advanced) Agriculture**
(e.g. Precision Agriculture in Malaysia, Green House monitoring in Thailand, Environmental Monitoring in Brunei, etc)
- **Capacity Building due to IoT**
(ASEAN as a region for outsourcing from EU (or the rest of the world) as IoT evolves and ready for commercialization – ASEAN as an outsourcing partner in BPO & ITO thus creating a new source of economic growth in the ASEAN region)
- **ASEAN as a R&D Partner**
(e.g. ASEAN offering itself as a test bed for EU)

At the conclusion of that breakout session, group #3's participants acknowledged that ASEAN should not miss out on the opportunity to leverage (from EU) the following:

- Sharing of new “IoT knowledge” by EU through:
 - ✓ Increased frequency of EU expert group visit to ASEAN
 - ✓ Improved e-communication on IoT from EU
(e.g. as CASAGRAS2 extended partners)
- Accessibility to IERC
- Harmonization of policies, governance, etc in the global IoT domain

End of Afternoon : Breakout Session

----- End of Notes -----

ANNEXES RELATED TO THE 5TH SEACOOP COOPERATION FORUM

ANNEX 9: AGENDA

SEACOOP 5th Cooperation Forum ICT for Inclusion

Thursday, April 7, 2011
Phnom Penh, Cambodia

Venue: Cambodiana Hotel

Organized by the SEACOOP partnership
under the aegis of the European Commission and of the ASEAN Secretariat

Agenda

8:00 Welcome of Participants

9:00 Opening Session

Chaired by Roger Torrenti, CEO, Sigma Orionis, SEACOOP project coordinator

H.E. CHEA Seang Hong, Secretary of State, and Chairman of National Committee of Science and Technology in Cambodia (NCOST), Ministry of Industry, Mines and Energy, Cambodia

Koen Everaert, Attaché, Delegation of the European Union to Cambodia

H.E. Dr. NHEK Korsol Vythya, Member of NiDA's Board of Directors, Member of Economic Social and Cultural Council (ECO-SOCC), Cambodia

9:30 Welcome Addresses

Chaired by Chun Vat, Secretary General, NiDA, Cambodia

Alvis Ancans, Policy officer, International relations Unit, DG Information Society and Media, European Commission

Dr. Alexander Lim, Head of Science and Technology division, ASEAN Secretariat

Roger Torrenti, CEO, Sigma Orionis, SEACOOP project coordinator

10:00 Tea-coffee break

10:30 European Developments in the area of ICT for Inclusion

Chaired by Roger Torrenti, CEO, Sigma Orionis, SEACOOP project Coordinator

Alvis Ancans, Policy officer, International relations Unit, DG Information Society and Media, European Commission

Dr. John Gill, Independant Consultant, United Kingdom

Bridgette Wessels, Sociological Studies, University of Sheffield, United Kingdom

Pierre-Yves Danet, Research lab CTO, Orange Labs, France

Dr. Channa Gunawardena, Director Business Development, Megaskills Research, United Kingdom



13:30 Southeast Asian Developments in the area of ICT for Inclusion

Chaired by Alexander Lim, Head of Science and Technology division, ASEAN Secretariat

Dr. Seyed Mohamed Buhari, Senior Lecturer from Faculty of Science, UBD, Brunei Darussalam

Dr. Sackona Phoeurng, Secretary of State for Education, Youth and Sport, Administration Board of ITC, Cambodia

Prof. Phal Des, Director of IT Centre, Royal University of Phnom Penh, Cambodia

Dr. Anto Satrio Nugroho, Researcher in Speech Processing and Pattern Recognition, BPPT, Indonesia

Opaseuth Siharath, Deputy Director of Telephone and Internet Department, Lao Telecom, Lao PDR

Dr. Mark David Rice, Senior Research Fellow - Computer Graphics & Interface, Institute for Infocomm Research, Singapore

Dr. Piyawut Srichaikul, Research Unit Director, NECTEC, Thailand

15:00 Tea-coffee break

15:30 Parallel working groups on sub-topics

Chaired by EU Experts

Group 1: ICT for elderly and disabled (eAccessibility, Ageing, Ambient Assisted Living)

Dr. John Gill, Independent Consultant, United Kingdom

Group 2: Inclusive eGovernment

Dr. Channa Gunawardena, Director Business Development, Megaskills Research, United Kingdom

Group 3: Geographical inclusion

Pierre-Yves Danet, Research lab CTO, Orange Labs, France

Group 4: eCompetence and Socio-cultural inclusion

Bridgette Wessels, Sociological Studies, University of Sheffield, United Kingdom

17:00 Wrap-up and Roadmap. Which concrete cooperation could be developed in the short to medium term?

Chaired by Roger Torrenti, CEO, Sigma Orionis, SEACOOOP project coordinator

Working groups conclusions

Dr. John Gill, Independent Consultant, United Kingdom

Bridgette Wessels, Sociological Studies, University of Sheffield, United Kingdom

Pierre-Yves Danet, Research lab CTO, Orange Labs, France

Dr. Channa Gunawardena, Director Business Development, Megaskills Research, United Kingdom

Concluding addresses

Alvis Ancans, Policy officer, International relations Unit, DG Information Society and Media, European Commission

Dr. Alexander Lim, Head of Science and Technology division, ASEAN Secretariat

17:30 Networking cocktail

ANNEX 10: ATTENDEE LIST

	Name	Organization	Position
1	H.E. Dr. NHEK Korsol Vythya	Board Member of NiDA and Board Member of Economic Social and Cultural Council (ECOSOCC), Office of the Council of Ministers	Secretary of State
2	H.E. CHEA Sieng Hong	Chairman of National Committee of Science and Technology in Cambodia (NCOST), Ministry of Industry, Mines, and Energy	Secretary of State
3	Rafael Dochao Moreno	Delegation of the European Union to Cambodia	Chargé d' Affaires
4	Roger Torrenti	Sigma Orionis	CEO & Coordinator
5	H.E CHUN Vat	National ICT Development Authority	Secretary-General of NiDA (Under Secretary of State)
6	Mr. Alvis Ancans	International relations Unit, DG Information Society and Media, European Commission	Policy officer
7	Mr. LIM Alexander	ASEAN Secretariat	Head of Science and Technology
8	Dr. John Gill	RNIB (Royal National Institute of Blind People)	Chief Scientist
9	Dr. Bridgette Wessels	University of Sheffield	Senior Lecturer
10	Mr. Pierre-Yves Danet	Orange Labs	Research lab CTO
11	Dr. Channa Gunawardena	Megaskills Research	Director Business Development
12	Dr. Seyed Mohamed Buhari	UBD	Senior Lecturer of Faculty of Science
13	H.E. Dr. Sackona Phoeurng	Ministry of Education, Youth and Sports	Secretary of State and Administration Board of ITC
14	Prof. ir. Phal DES	Royal University of Phnom Penh	Director of IT Centre
15	Dr. Anto Satrio Nugroho	BPPT	Researcher in Speech Processing

16	Mr. Opaseuth Siharath	Telephone and Internet Department, Lao Telecom	Deputy Director
17	Dr. Mark David Rice	I2R	Senior Research Fellow Computer Graphics & Interface
18	Dr. Piyawut Srichaikul	NECTEC and NSTDA	Research Unit Director
19	Dr. LIM Jimmy	UBD	Head of Energy Research Group
20	Dr. AZMI HAJI HUSAIN Saiful	UBD	Lecturer
21	Mr. HENG Sokun	NiDA	ICT NCP/Official
22	Mr. Eng Sothy	NiDA	Official
23	Ms. Meas Makara	NiDA	Official
24	ANG Gavin	I2R	Deputy Director, Industry Development
25	LAU Wilson	I2R	Senior Manager - Industry Development
26	Dr. GUNTASOPATR Pensri	NECTEC and NSTDA	Assistant Executive Director
28	Dr. VESAYANPORN Chutchana	NECTEC and NSTDA	International Relations officer
29	Dr. HANDOKO Dwi	BPPT	Head of Science and Technology Network Unit
30	Mr. HUSDI Irwan Rawal	BPPT	Head of Communication System Technology Division
31	PHISAMMAY Phonpasit	NAST	Director General
32	DALALOY Valaxay	NAST	Director

33	Dr. TRANG NGOC Ca	NCSTP	Director of Secretariat
34	MAGLANQUE Jose Eric	ASTI	Chief, Knowledge Management
35	Dr. THEIN Ni Lar	UCSY	Rector
36	Prof. SOE Khin Mar	UCSY	Associate Professor
37	ABDUL HALIM Zalina Abdul	MDeC	Manager
38	Kamal Hisham Bin Kamaruddin	MDeC	Network Operation Manager
39	Mr. Camille Torrenti	Sigma Orionis	Project Manager
40	Mr. Tep Chansakdavuth	SENATE	Deputy Director
41	Mr. Prak Dolin	SENATE	Chief IT Office
42	Som Naroth	SENATE	Chief of Bureau
43	Mr. Chea Sok Huor	Khmer Information Technology Development (KITD) / iREACH	Executive Director
44	Chin Daro	Telecom Cambodia	Director
45	Mr. Seng Hodiep	INTERFLEX	CEO
46	Piseth Chhourm	Microsoft, Cambodia	Technology Specialist
47	Mr. To Meng	ONLINE ISP	Network Engineering
48	Mr. Heum Sovath	ICT Cam, Cambodia	Secretary

49	Man Kimchhuon	City Hall, Cambodia	Official
50	Srun Sovila	Royal University of Phnom Penh	Lecturer
51	Ms. Seng Molika	Royal University of Phnom Penh	Assistant
52	Boromy Chanthang	Royal University of Phnom Penh	Assistant
53	Keo Bunnarith	SENATE	Vice-Chief IT Office
54	Pang youngthavy	CUP University	Deputy chief
55	Nhem Vichika	Royal School of Administration	IT Manager
56	Chhun Sophea	Institute of Technology of Cambodia	Lecturer
57	Kim Leang	National Institute of Education	IT Manager
58	Mr. Hak Ponnara	NCOST & Cooperation and ASEAN Affairs, Ministry of Industry, Mines, and Energy	NCOST Focal Point & Deputy Director
59	Mr. Khim Chamroeun	Royal University of Phnom Penh	Lecturer
60	Mr. Heng Por	Royal University of Phnom Penh	Lecturer
61	H.E. CHEA Manith	NiDA	Deputy Secretary General
62	Mr. SHOUNG Noy	NiDA	Deputy Secretary General
63	Rim Beanbonyka	Royal University of Phnom Penh	Lecturer
64	Mr. MEAS Kosal	NiDA	Team Leader

65	Mr. Ou Phannarith	NiDA	Team Leader
66	Mr. AN Ra	NiDA	Team Leader
67	Mr. SUY Vanna	NiDA	Team Leader
68	Ms. Chea Lina	NiDA	Official
69	Mr. THAN Socheat	NiDA	Team Leader
70	Ms. PIN Ravin	NiDA	Official
71	Mr. MEAS Sokchea	NiDA	Official
72	Mr. NEANG Mao	NiDA	ICT NCP/ Official
73	Ms. SENG Bory	NiDA	Official
74	Moul Sothea	SENATE	Chief of Bureau
75	Em Ruby	UC University of Cambodia	Assistant
76	Mr. Sok Tha	Ministry of Education, Youth, and Sports	Head of ICT Office
77	Phat Chhlor	Ministry of Information	Official
78		Ministry of Post and Telecommunication	
79	Mr. Iamsal Ekendra	AIT Asian Institute of Technology	Student
80	Mr. Houn Ratha	Cambodia Computer Society	Secretary

81	Pok Sey	P.P Press	
82	Ms. Sem Sela	Ministry of National Assembly Relations And Inspection	Official
83	Srey Chan	Minister of Social Affairs, Veterans and Youth Rehabilitation	IT Manager
84	Keo Vattana	Ministry of Women's and Veterans' Affair	Chief of Bureau
85	Prof. Balwant Mehta Male	Human Development Study Unit, Institute For Human Development	Assistant Professor
86	Mr. Vantha Kheng	ICT Dept Biz Solution	IT Manager
87	Mr. Janko Uros	European Commission	Expert
88	Mr. Seneviratne Aruna	European Commission	Expert
89	Mr. Venzky-Stalling Martin	European Commission	Expert
90	Mr. Emir Rio Krishna	Socio-Cultural Community (ASCC)ASEAN	Technical Officer of S&T Division
91	Mr. LENG Chanprathna	Young Entrepreneurs Association of Cambodia	Executive Vice President
92	Mr. Mervyn Levin	Levering Ltd	Founding Director
93	Ms. Nathalie Van de Wiele	ePrep	Director
94	Mr. Vanleap Kheng	House32 Web Design	Senior Web Developer
95	Neb Tola	Nokor Bachy News	Reporter
96	Chey Rayrem	BAYON TV	Reporter

97	Liv Bora	FM 96 MH2	Reporter
98	Tea Phaulyn	MONASRI	Chief of staff
99	Nhek Somreth	People News	
100	Chan Hengleap	Angkor Amatak	
101	Mr. Dy Rado	NiDA	Official
102	Mr. Toun Sovirak	NiDA	Official
103	Ms. Nuth Davy	NiDA	Official
104	Mr. Tum Yusos	NiDA	Official
105	Mr. Tan Sopheak	NiDA	Official
106	Mr. Long Han	NiDA	Official
107	Thy Vanna	Raksmey Phnom Penh Nawa	Official

ANNEX 11: SPEAKERS' BIOS

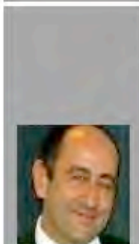
Welcome Addresses



Alvis Ancans joined the international relations unit of the European Commission's Information Society and Media Directorate General in march 2007. His main duties include fostering ICT research cooperation between the EU and Asian countries, notably, India, Japan, Korea and ASEAN. Before joining the Commission, Alvis worked as the political specialist at the U.S. Embassy in Riga, Latvia. He holds a master's degree in international relations from the fletcher school of law and diplomacy, Tufts University.



Dr. Alexander Alamil Lim graduated with a PhD. degree in Solar Energy/PV Systems at Murdoch University in Western Australia. He has over 20 years experience as Instructor, Assistant professor and Associate professor at University of Philippines Los Banos. From 1996 to 1999 he worked as Programme Coordinator and obtained the diploma in Science Teaching from the UP Open University. During the years 1999 – 2004, Alexander Lim occupied the position of Deputy Executive Director in Philippine Council for Advanced Science and Technology Research and Development. Then, in 2004 he joined the ASEAN Secretariat in Jakarta as Senior Officer at Science and Technology Division and was appointed in 2007 Head of Coordination Unit at the Bureau for External Relations and Coordination (ASEAN Secretariat). Since 2009 Alexander Lim has occupied the position of Assistant Director and Head of Science and Technology Division in ASEAN Secretariat.



Roger Torrenti graduated in 1976 from Ecole Centrale de Paris, one of the French "engineers high schools". He began his career as a research engineer at the French Atomic Energy Commission (CEA), where he developed a specialized knowledge in energy technologies. Two of his research results were patented in 1977 and 1978. He also had the opportunity to be involved in international working groups, from 1979 onwards, within the IEA (International Energy Agency) and EC projects. In 1979, he was given the management of an applied research institution linked to Ecole Nationale des Mines de Paris and the French Ministry for Industry. Its core activities concerned the use of information technologies in energy systems. There, Roger developed his specialized knowledge of the energy and IT fields (one of his research results was patented in 1981) and his international experience (he was involved in international research projects and the organization of international conferences). In 1984, Roger Torrenti founded Sigma Orionis (formerly Sigma Consultants), and he is still its CEO and main shareholder. He is often invited by national or international institutions to act as an expert in his specialized fields of technological knowledge. He has, for example, been acting (since 1990) as an evaluator or reviewer in many European Commission Programs. His passions include mountain climbing, philosophy, photography, modern art, and basketball.

European Developments in the area of ICT for Inclusion



Dr. John Gill OBE DSc FIET has worked for over 39 years in the area of scientific and technological research for people with disabilities. His research has included the design of fonts, public access terminals, tactile communication, orientation systems, automated production of braille and large print, and access to telecommunication systems and services. He has visited 40 countries and written over 250 publications.



Bridgette Wessels is Senior Lecturer in Sociology at the University of Sheffield and Director of the Centre for Interdisciplinary Research into Socio-Digital Worlds. Her research focuses on social innovations through the development and use of the Internet within Information Society contexts. She was expert on EU Fifth Framework IST programme, the UK Office of Science and Technology, Department of Trade and Industry as well as the Royal Society cybertrust programmes. She was expert on Web 2.0 at the EuroPCom conference on 'Communicating in Europe: Communicating on Europe' in October 2010. She is expert on Social Media for the MEP 2.0 workshops of the European Parliament.



Dr. Channa Gunawardena is a Management Systems and Project Management specialist, with over 14 years experience in International Development projects. He is currently Director of Megaskills Research, a UK based consultancy group which has implemented approx 350 sustainable development projects world-wide. He has a PhD in "Management and Evaluation of Donor Funded ICT Projects in Developing Asia" with the renowned Lancaster University Management School of UK which included an in-depth review of performance, management and evaluation issues in projects funded by the EU and ADB in the Asian region. He has been involved in over 30 major projects across approximately 20 countries in Europe, Asia and Africa as a project manager and expert. He has specific expertise in ICT for Development (ICT4D), Project Cycle Management, Monitoring & Evaluation (M&E) and Sustainability/replication measures. In the area of ICT4D he has worked on sectors including agriculture, rural development, livelihood, entrepreneurship, eGovernment, environment and tourism. Much of this work has focussed on making ICT more inclusive and accessible particularly by SMEs, poor rural populations and women.



Pierre-Yves Danet – Vice-Chair of the Network Electronic Media (NEM) European Technology Platform

Pierre-Yves Danet is a graduate of a High French engineer school and began his career with CAP GEMINI as a project leader of CTS projects (CTS4 and CTS5) and as a test and service expert in ISDN. He was involved in many ISDN standardisation activities before taking on the position as Coordination leader for the ISDN user/network interface within France Telecom in 1996. Since 2004, Danet has held the position of deputy of the laboratory in charge of Home Services development at France Telecom R&D – where he is also the Coordinator of the IST ePerSpace project. In 2005, Danet became the France Telecom representative in the NEM (Networked Electro Media) platform where he belongs to the steering and to the executive boards and he leads one working group in charge of Networked multimedia content delivery (NMCD). In 2007, he became the Vice Chairman of the NEM platform in charge of strategy. In 2008, Danet took the lead of the edition of the Future Internet Strategic Research Agenda shared by 5 ETP (NEM, eMobility, NESSi, ISI and EPOSS). In 2010, he organised and chaired the Future Internet Assembly Smart Energy session and was invited by the Commission to setup a Cross ETP group in order to study the impact of ICT on the Grand Societal Challenges.

Southeast Asian Developments in the area of ICT for Inclusion



Dr. Seyed Mohamed Buhari is currently working as a Senior Lecturer with the Department of Computer Science at University Brunei Darussalam, Brunei Darussalam. His areas of research interests are Network Performance and Analysis, Unicode Rendering and Grid Computing.

- | | |
|---|---|
|  | <p>Dr. Sackona Phoeurng was nominated by the Cambodian Government as a Secretary of State in charge of the External Relation and Research activities in the ministry of Education, Youth and Sports of Cambodia in 2008. She is also the President of Administration Board of the Institute of Technology of Cambodia (ITC). Prior to this position, Sackona worked closely with the different universities network (English and French Speaking Universities) in the South East Asia region and other countries. She is the member of Steering Committee of Asean Universities Network from 2001 and member of Associative Council of French Speaking Universities Agency from 2004. In December 2010, she was elected as the President of Conference Rectors of Asia-Pacific. Sackona began her career at the Standard Department of the Ministry of Industry from 1887 to 1991. In 1991, she moved to the Institute of Technology of Cambodia as a lecturer on Physical Chemistry and Food Conservation. In 1995 she became Head of the Department of Chemistry and Food Technology. Since 2003 until 2008, Sackona took over the responsibilities and the direction of ITC as the general manager. Even now, she is a Secretary of State; she still gives lectures and conducts research activities in Microbiology field inside ITC and Pasteur Institute in Cambodia especially in the topic of Bio-security. She holds a Doctor Degree from the Bourgogne University in France.</p> |
|  | <p>Prof. Phal Des is the Director of the IT Center of Royal University of Phnom Penh (RUPP). He spent over 3 years of research in Auto-Learning and Auto-Evaluation, the Univerité Libre de Bruxelles (ULB) in Belgium. DES also is the program coordinator of Master of Science in Information Technology Engineering (MITE) and he has access to a wide network of people and resources in the field of IT Engineering. His focus is on training students, faculty and staff at RUPP in a variety of modern ICTs and engaging RUPP in participating in regional and international research projects and activities. He is involved in a project looking into building and developing applications based on Mobile Computing and 3G Wireless Networks for health care, education and heritage. In 2007 he was awarded a Obuchi/UNESCO fellowship to work for a project called "System Support for Mobile and Distributed Multimedia Computing" at Institute for System Architecture, Department of Computer Science, University of Technology of Dresden, Germany. From 2005 to 2007 he worked on projects such as the Greater Mekong Sub-region Virtual University project and the "Open Source e-Learning" project of UNESCO Paris. During 2007-2008, he also worked on project e-health and e-education with WASEDA University and KDDI Japan, this project provided to people in rural area to communicate with doctors and teachers in Phnom Penh city. In 2009 he was awarded with the title of research fellow in e-media & Virtual Reality from Group T, National University College Leuven, Belgium. Now he is working on projects such as Mapping Healthcare Centres in Cambodia and Presumptive Diagnosis and Awareness for STDs via SMS for Young Cambodian in Rural Areas.</p> |
|  | <p>Dr. Anto Satriyo Nugroho is a researcher working for Agency for Assessment & Application of Technolog (BPPT), Indonesia. He received his B.Eng degree in 1995, M.Eng in 2000 and Dr.Eng degree in 2003, all in Electrical & Computer Engineering from Nagoya Institute of Technology, Japan. From 2003 to 2007, he is working for Chukyo University as visiting professor in School of Cognitive and Computer Science (2003-2004) and School of Life System Science & Technology (2004-2007).He has received first prize award of 99 Fog Forecasting Contest which was organized by Neurocomputing Technical Group of The Institute of Electronics, Information and Communication Engineers, Japan, and also received Best Paper Award in Konferensi Nasional Sistem & Informatika, 15 Nov.2 008, at Inna Sindhu Beach Hotel, Sanur Bali. He served as Guest Editor of Internetworking Indonesia Journal 's Special Issue on Data Mining. His research interest is in the field of pattern recognition, image processing, computer vision, and computational biology. From 2007 he serves as vice president of Indonesian Society for Softcomputing. Dr. Nugroho is a member of the Institute of Electrical & Electronics Engineers (IEEE).</p> |
|  | <p>Opaseuth Siharath obtained the Bachelor from Thailand in the field of electricity and master degree in Information Technology (IT) field. Since 1996 he has been working at Lao Telecom in telephone and Internet department and he has specialised in network field. He is in charge of controlling and monitoring the Internet network and services such as ADSL service, 3G service, lease line service. He is also much involved in the core network of Internet project developed by Lao Telecom. Before having joined the Lao Telecom he has been a lecturer at National University of Laos for 3 years and an advisor of a group of students.</p> |



Dr. Mark David Rice is a senior research fellow and a member of the Human Factors Engineering Programme at the Institute for Infocomm Research (I2R), Singapore. This programme covers research issues in robotics, healthcare, ageing, user interface design and ethnography, with aims to promote multidisciplinary research across local universities, hospitals, as well as industry partners. Previously, he was employed at the University of Dundee (UK) where he graduated with a Ph.D. in Computer Science. In 2002 he joined the Interactive Technologies Research Group at the University of Brighton (UK), and in 2005 completed a research placement at the Advanced Telecommunication Research Institute (Japan). During his research career, Mark has worked on funded projects by the Alzheimer’s Association (US) and Intel Corporation, and the European Commission (FP7). He has co-organized two international workshops on inclusive design at EuroITV 2008 and Interact 2009, and has been a board member of Scotland’s largest disability organization (Capability Scotland). Mark’s research interests span areas of human-computer interaction, gerontechnology, and accessible and assistive technology. This has included research on interactive systems for people with low vision, dementia, and more generally older people per se.

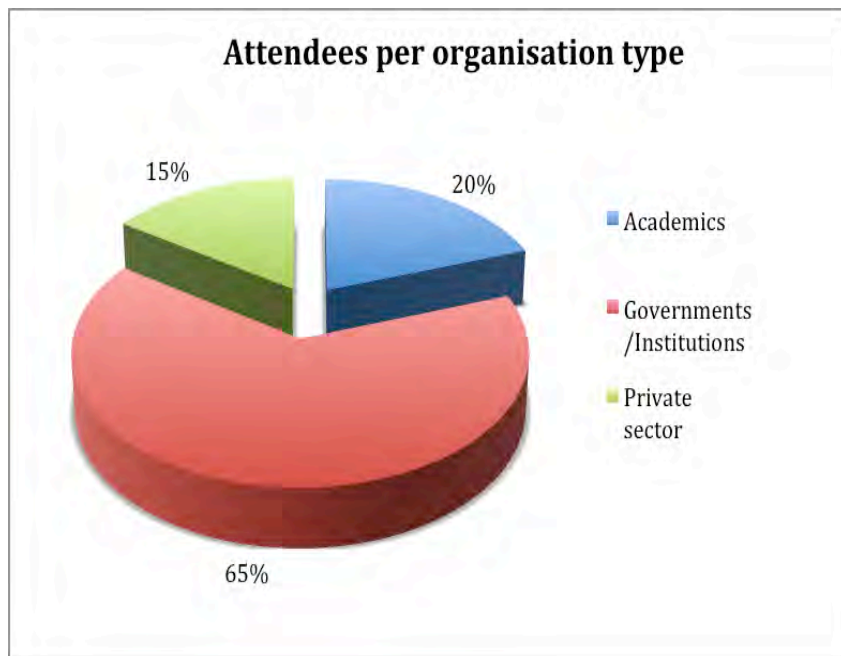


Dr. Piyawut Srichaikul graduated with a bachelor’s degree in Physics at Chulalongkorn University, Thailand. He then continued his studies with a master’s degree in Physics and a Ph.D. program in Solid State Physics at Auburn University, Alabama, USA. He started working with the National Electronics and Computer Technology Center (NECTEC), a statutory government organization under the National Science and Technology Development Agency (NSTDA), the Ministry of Science and Technology of Thailand since 1995 as a researcher and coordinator of the High Performance Computing Research and Development. Later he worked as the Division Director of NECTEC’s Computing Research and Development, Program Manager of NECTEC’s Knowledge Engineering Technology and Assistant Executive Director of NECTEC’s Platform Technology Program, respectively. He now holds the positions of Research Unit Director of NECTEC’s Rehabilitation Engineering and Assistive Technology, and Division Director of NECTEC’s Platform Technology Management.



Dr. Mai Anh currently holds Member of Parliament cum Director of IT center – Ministry of Sciences & Technology. He is one of the few Pioneers who has been working and operating on the IT area in Vietnam since 1969 which includes teaching and popularizing DOS in Vietnam. Prior to working at Ministry of Science & Technology, he used to be member of working group for automatic calculation of Civil Engineering problem (CAD); in 1979 he cooperated with Vietnamese IT community in French; installed successfully the first PASCAL Compiler in Vietnam. After that, he was chief of project to develop Database for BA Scientists in the whole country. Besides, he used to be member of draft board of the IT Strategy in Vietnam in the period 1996-2000; One of the founders of Vietnam Association of Information Processing (VAIP) in 1988; Founder of Hanoi ICT Association in 1999. He also proposed the committee of Science, Technology and Environment of National Assembly the Legal Initiative in order to pass by the E-transaction Law. Furthermore, he was Chief of Law Editing Group; member of the Advisory Board of ASIA-ITC Program of EU (2000-2005). He graduated in Hanoi and received Dr. Engineer Degree from the Academy of Science in German in 1978. After 38 consecutive years of working and operating in IT industry, he made a remarkable contribution to the development of Vietnam IT industry not only as an expert but also a policy maker.

ANNEX 12: EVENT STATISTICS



ANNEX 13: PHOTO GALLERY



ANNEX 14: EVENT PROMOTION



**SEACOO 5th Cooperation Forum
on ICT for Inclusion**

**Cambodiana Hotel, Phnom Penh
Cambodia - April 7, 2011**

Organized by the SEACOO partnership and hosted by NiDA



A research forum organised under the aegis of the European Commission
and of the ASEAN Secretariat

EVENT EXPECTED OUTPUTS



- Bring together policy and research stakeholders from Europe and Southeast Asia
- Exchange of information on the status and perspectives of the cooperation
- Identify potential cooperation projects to be launched under FP7

For further information
www.seacoop.eu or info@seacoop.eu

ANNEX 15: WORKING GROUPS CONCLUSIONS


Accessibility for Disabled and Elderly People

- Need an initial study of the user needs in various Asian countries – should take into account the available technical infrastructure
- Need analysis of the various business models for assistive technology in Asian countries
- Develop appropriate accessibility guidelines for the Asian environment
- Use knowledge management systems based on social networking for access to information about disability issues

Suggested Activities

- Initially concentrate on joining thematic actions and support activities
- Then progress to specific technological projects (STEPS and IPs)
- Prepare concise statements on what your organisation can offer to a project, and send to potential project proposers in the EU

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SEACOOOP 5th Forum eInclusion:

Group 2: Inclusive eGovernment

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Summary

1. eGovernment Services for Rural Communities
2. Interoperability of Government Services
3. Cross Border Identification
4. E-Environment Services

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1. eGovernment Services for Rural Communities

- Agriculture
- Telemedicine
- Health & sanitation
- Education

Issues:

- Sustainability models for local telecentres
- Bottom up Approach

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2. Inter-Operability of Government Services

- Social Benefits
- Health
- Fines
- Regional Tourism/clustering
- Standards



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3. Cross Border Identification

- Long term
- Inter country agreements
- Language

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4. e-Environment Services

- Natural Disasters
- Disease Outbreaks
- Energy Management
- Public Safety & Emergency planning

Issues: Sensor Networks,
Interoperability,
Public information networks (SMS,
internet, Radio TV)

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eInclusion workshop

Geographical inclusion

Pierre-Yves DANET
France Telecom/Orange Labs

Pierreyves.danet@orange-ftgroup.com
7 April 2011



eInclusion

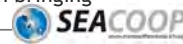
(Source : http://ec.europa.eu/information_society/activities/einclusion/research/index_en.htm)

- Many of those who could benefit most from the Information Society are at risk of being excluded from what it has to offer. For example, older people often find Information and Communication Technologies (ICTs) too complex to use, while those living with disabilities are not always catered for by mainstream technologies. Such barriers can leave people feeling isolated at home, in the workplace and in society.
- At the moment, about 30% of Europe's population do not actively participate in the Information Society. Among them are the most vulnerable, which is a great shame bearing in mind the potential power of new technologies to make their lives easier.
- That is why e-Inclusion features heavily in the European Union's Seventh Framework Programme for Research (FP7), which runs from 2007 to 2013. About €400 million has been allocated to the objectives "ICT for Ageing Well and Inclusion" under FP7's Challenge 5.
- The aim is to find ways to maximise the potential of ICTs to help Europe's ageing population lead independent and active lives. To do this, Challenge 5 will be harnessed to tackle the growing complexity of ICTs, which is limiting uptake with some groups. The use and interoperability of assistive technologies will also feature, as will the need to integrate technical solutions which promote independent living.
 - eAccessibility
 - Ageing
 - eCompetence
 - Socio-cultural inclusion
 - Geographical inclusion
 - Inclusive eGovernment



Geographical inclusion (Europe needs)

- By making your physical location less important in getting an education, finding new business opportunities and expanding your horizons generally, the Information Society can bring new social and economic opportunities to people in Europe's **less developed or remote regions**.
- "The challenge is to ensure that all of Europe's regions benefit"
- By helping balance urban and rural development, the Information Society can slow or even reverse the depopulation of Europe's regions and the uncontrolled growth of its cities, with benefits felt in areas as diverse as culture and environment.
- The challenge is therefore to ensure that all Europe's regions benefit from these new opportunities, that no region is left behind, and that the Information Society helps revitalise Europe's poorer areas.
- While the EU's regulation of the electronic communications market has stimulated competition and investment in the sector and driven down prices, however, normal market competition does not always result in sufficient investment in areas with below average economic wealth and/or population density.
- These regions will not reap the benefits of the Information Society without Internet access, so rolling out infrastructure - particularly broadband internet access - to these areas is vital. Europe is pooling its resources to make it happen, from reorienting its Structural Funds to regulating the sector and the Internal Market, from promoting research into new broadband technologies to helping Europe's regions learn from each others' experiences in bringing broadband to all.



What are the needs of South-East Asia inhabitants ?

(Brainstorm during the workgroup session)

- 1.
- 2.
- 3.
- 4.
- 5.



What are the commonalities with European needs ?

Commonalities between European needs and South East Asia needs

1. Indonesia : eGovernment services for mobile (access to information, forms filling, ...). Unbalanced connectivity between east/west
2. Cambodia : eEducation for teachers in rural regions, eLibrary, eHealth
3. Singapore : Video for eEducation, remote consultation
4. Brunei : eHealth, eSurgery

Specificity : Internet connectivity is available all over Brunei & Singapore
eEducation should focus on Agriculture training in order to give opportunity to rural people to get money and then pay for added value services (internet)

There are 2 challenges :

- Social challenge : Education, health
- Technical challenges : connectivity

5



Common projects ideas

→ From the common needs, what should be the services/projects that have interest for both regions ?

1. Education database accessible from any device what ever the connectivity is :
 - Aggregation of training information (text, audio, video, 3D, ...) in different languages in a common database
 - Automatic extraction of the core information able to be accessed by low bandwidth devices (wired or wireless)
 - Access from any 2G text mobile phone
 - Text 2 speech capability
 - Speech recognition search engine
 - Setup a large field test with the case of agriculture

Comment : from a technological point of view, there are already development done in India and Jamaica but the project should study potential integration of technology but also text2speech, video search engine, metadata, ...

2. Agriculture exchange offering the ability to everyone to sell its product where ever he is

6



Example of projects (1/5)

- **GUADALINFO: Andalusia against the digital divide**
- Andalusia already has a high proportion of Internet users (22.8% of the population), slightly higher than the Spanish average of 21.2%. But this statistic hides **serious inequalities**, especially in the case of the broadband Internet access. Profound differences exist in Andalusia between the urban centres and the small isolated, disadvantaged villages in the countryside or mountains.
- In these **sparsely populated areas**, where income is generally low, private telecommunication operators do not want to invest because it is not profitable. Only towns with more than 65 000 inhabitants are cabled at present (the cable is one of the channels for the "broadband") and there are no plans to change this in the short term. If the market were left to decide, villages with populations of 5 000 or less would not be connected to the cable for another twenty years.
- **GUADALINFO**, part of the innovative actions of the ERDF, wants to change that. The goal is to make broadband Internet accessible to all inhabitants including those living in the most remote areas. As part of an experiment 25 public Internet centres are being set up as bridgeheads against the digital divide.
- The European Commission has granted this project a funding of € 2.940.000.

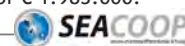
7



Example of projects (2/5)

- **ACCESS-EGOV: Access to e-Government Services Employing Semantic Technologies**
- By employing semantic technologies the Access-eGov project will support semantic interoperability among e-government (eGov) services across organisational, regional and linguistic borders.
- For citizens and business users, Access-eGov will generate a "scenario" consisting of **elementary government services**. In most cases these scenarios will be probably of a "hybrid" nature - i.e. a combination of atomic traditional and eservices - which will lead to a requested outcome (e.g. to get a building permit, register a new company, etc.).
- Access-eGov will also provide a **virtual personal assistant**, who will guide the user through the scenario (reminding him/her of deadlines, providing support information, initiating e-services, etc.).
- Special attention will be paid to the e-Inclusion criteria to guarantee that Access-eGov will be accessible also to disadvantaged groups of users, for which the system can be considerably beneficial.
- The European Commission has granted this project a funding of € 1.983.000.

8



Example of projects (3/5)

- **TEL LAPPI: Telemedicine services in Lapland**
- The Lapland Healthcare District comprises the 16 most northern municipalities in Finland. These municipalities cover an area worth more than 28% of the country's total land area but only account for 2.5% of the Finnish population (1.5 inhabitants per km²). Under such conditions it is very difficult and expensive for the local authorities to provide **basic health care**, not to mention special care services, to its citizens

The **TEL LAPPI** project first set up a telemedicine system for the local health centre of Sodankylä, the central and the university hospitals. Through teleconsultation the general practitioner at the local health centre can consult the specialists in the central hospital in Rovaniemi and the university hospital in Oulu, some hundreds of kilometres away, without requiring the patient to travel long distances. In this way, the smaller hospitals and health care centres can offer varied health and medical services to the people in Lapland irrespective of their place of residence. Only the patient's data, not the patient itself, travels.

The system currently consists of seven parts: teleconsultation, teletraining, radiology, first aid, ophthalmology, transfer of ultra sound and ECG. In emergency cases, vital information, such as blood pressure, can be sent electronically from an ambulance or the scene of an accident.

- The European Commission has granted this project a funding of € 391.500.



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Example of projects (4/5)

- **MYHEART: Fighting cardio-vascular diseases by prevention and early diagnosis**
- **Cardio-vascular diseases (CVD)** are the leading cause of death in the western world. In Europe over **20% of all citizens** suffer from a chronic CVD and 45% of all deaths are due to CVD. Europe spends annually billions of Euro's on the treatment of CVD. With the upcoming aging population, it is a challenge for Europe to deliver its citizens healthcare at affordable costs.
- The **MYHEART** research project is fighting CVD by preventive lifestyle and early diagnosis. It has developed integrated textile sensors which can be attached to everyday clothes. The result is, for example, an "intelligent shirt" that constantly monitors the heart rate of people who have suffered from a heart attack in the past - at work, in the car and even while doing sports.
- The EU is supporting this 6-year-project with a total of € 16.000.000.



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Example of projects (5/5)

- TELCERT: Assuring interoperability in technology-enhanced learning
- The interoperability of e-Learning systems and materials is at the heart of the TELCERT-project. It strives at enabling authors, suppliers and standards organisations to adapt their national or local e-Learning-systems to new developments from learning communities in other regions and countries. The advantage for the learners, i.e. everyone of us: More flexible, interesting and individual learning - whenever and wherever we want!
- The European Commission has granted this project a funding of € 1.800.000.

E-Competencies and socio-cultural inclusion

Summary of Working Group 4

1

Key issues

- Socio-cultural inclusion means more than using computers
- It involves addressing how to utilise ICT for different people's own benefit
- Areas that ICT need to support are: employment and education; health and social care; everyday life and cultural participation
- Awareness of gender, age and local resources in designing and developing support for ICT for inclusion

2

Key points

- What do we mean by e-competencies?
- Need to link the computer skills with abilities needed for participation such as education, digital literacy, work skills, cultural capital
- How to enable and empower people to develop their inclusion strategies in relation to their contexts
- How to foster communities of support
- How to shape products for different users with different levels of need and competence
- Gap in R&D in fostering innovation in the commercialisation of inclusive technology

3

Examples and business cases

- Look at some existing examples such as the mainstreaming of ICT for people with disability
- Look at business cases for ICT for inclusion
- Look at ICT in social enterprise, social value and social innovation as ways of socio-cultural inclusion
- Look at the use of social media in inclusion processes
- Look at Public-Private partnerships for e-inclusion

4

(e)-competences

- Build competences in relation to what people do with the tools
- These include:
 - Networking
 - Communicating
 - Distance learning
 - Telework

5

Content

- Good quality accessible and relevant information is key to e-inclusion and socio-cultural inclusion
- Need supporting education to learn how to access and assess information
- Information for socio-cultural inclusion: community, job and educational information
- Locate the production of information between user-generated and validated information and link to a demand pull and technology push development process

6

Framework for socio-cultural inclusion

- Provision of basic resources
- Access to technology, support to learn e-skills and e-competences
- Content is very important aspect
- Embed inclusion into Gov. policy
- Explore PPP and partnership approaches
- Promote social enterprise and social media
- Include all groups in society: disabled, unemployed, gender, less-educated, rural lives

7

Themes for possible projects

- How would PPP and other partnership approaches work on developing and supporting the creation and sustainability of e-competences for socio-cultural inclusion?
- How to identify competencies within communities that can be developed in line with e-competencies for socio-cultural inclusion in terms of current conditions as well as future development?
- How to link strategies and programmes of e-inclusion with strategies and programmes for ICT for (4) Development, i.e. how to link e-inclusion into phases of development in different countries

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