Seminar and Training Course on Horizon 2020:
Information on how the European Programme for Research and Innovation works and how to get involved
Brussels
12 March 2014

Promotion of EU-Japan cooperation in Innovation, Science and Technology

Toshiyasu ICHIOKA, PhD
EU-Japan Centre for Industrial Cooperation
E-mail: toshiyasu.ichioka@eu-japan.gr.jp
From FP7 to Horizon 2020

FP7: 2007-2013
(2007-2011 +2 years for EURATOM)

CIP: 2007-2013
Innovation
Competitiveness

EIT: 2008-
European Institute of Innovation and Technology

Horizon 2020
- The Framework Programme for Research and Innovation

Horizon 2020 training 2014.03.12
Europe 2020: EU’s growth strategy

Innovation Union
- One of 7 flagship initiatives

Smart growth
Sustainable growth
Inclusive growth

Exiting the economic crisis

Horizon 2020: Financial instrument to implement Innovation Union
EU’s global competitiveness

Innovation-friendly environment
Economic growth and jobs

Horizon 2020 training 2014.03.12
EU’s Multi Annual Financial Framework
994 bn EUR (2007-2013)
-> 960 bn EUR (2014-2020)

Framework Programmes:
Ca. 60 bn EUR (FP7+CIP+EIT)
-> 80 bn EUR (Horizon 2020)
EU-Japan Centre for Industrial Cooperation
- Projects and services
EU-Japan Centre for Industrial Cooperation - organization

Head Office in Tokyo and a branch in Brussels
- Tokyo (1987- 17 members of staff)
- Brussels (1995- 10 members of staff)

2 General Managers:
- EU side: Mr. Silviu Jora
- Japan side: Mr. Hiroshi Tsukamoto

Budget for 2014: ca. 4 MEUR
- EC: DG ENTR (operation grant) & DG RTD (action grant)
- Japanese Ministry of Economy, Trade and Industry (METI)
- Institute for International Studies and Training (IIST)
- Contributions from European and Japanese business

EC-METI joint venture since 1987

Mission
- Promote EU-Japan cooperation in industry, trade and investment.
- Strengthen the technological capabilities and the competitiveness of EU/JP enterprises
EU-Japan Centre for Industrial Cooperation - activities

I. Policy analysis and advice

Think tank activities
- Energy, environment, climate change
- Trade and investment
- Industrial policy (including SME, innovation, competition, etc.)

EU-Japan Business Round Table

II. Services to Business

Training
- EU managers, exporters and investors
- EU/JP engineering and scientific students (Vulcanus)

Information service
- EU and Japanese SMEs
- Enterprise Europe Network (EEN)

III. Support to EU-Japan cooperation in Science, Technology & Innovation

- R&D&I - Framework Programme (FP7 & Horizon 2020): J-BILAT, JEUPISTE, GNSS.asia
- National Contact Point (NCP)
- Services for MIC
- Cluster helpdesk & info
- Promotion of Industrial Innovation
National Contact Point (NCP)

- Established in 1999
- Each country nominates national and regional contact point for information service and assistance
- Nomination for each area (Societal challenges, ICT, Marie Skłodowska-Curie actions, Legal/financial, etc.)

- In November 2013, the EU-Japan Centre for Industrial Cooperation was nominated as the first NCP in Japan for FP7 and Horizon 2020 on all aspects.
- Full service will be deployed from April 2014
17. Summit leaders... welcomed the nomination of a National Contact Point (NCP) for the EU Framework Programme in Japan, as an important step to facilitate the participation of Japanese entities to the EU’s Horizon 2020 programme, and expressed their desire to open up new horizons for Japan-EU science and technology collaboration.
And here comes the **JEUPISTE** project!

<table>
<thead>
<tr>
<th>Official name</th>
<th>Japan-EU Partnership in Innovation Science and TEchnology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short name</td>
<td>JEUPISTE</td>
</tr>
<tr>
<td>Period</td>
<td>36 months (2013.9.1 – 2016.8.31)</td>
</tr>
<tr>
<td>Budget</td>
<td>Ca. 1.25 MEUR from FP7 + contribution from partners</td>
</tr>
</tbody>
</table>

http://www.jeupiste.eu
What you can expect? – project activities

Contribution to the EU-Japan STI policy dialogue: Data collection, analysis, roadmapping

Bilateral information service and seminars

Academic/Innovation workshops, research infrastructure, mobility

Contact points, helpdesk, training

Communication, outreach
Enterprise Europe Network

- Created by the EC in 2008
- Supporting SMEs and research organizations
- 600 members from 50 countries
- EU-Japan Centre is a member since 2011

http://www.een-japan.eu/ja/
Another opportunity: EUREKA presentation

EUREKA Secretariat
Susanne Madders
From where Framework Programme came and evolved?

Strength of North America and Asia, especially in ICT

Lagging behind of the EU
Fragmented research and technological development across the area

Necessity for EU-wide programme
Subsidiarity

COST (1971-)
ESPRIT, RACE, etc. (1983 - )
Framework Programme (1984 - )

Integration of other schemes
Enlargement of scope

7th Framework Programme
Horizon 2020 (2014-2020)
EU Framework Programme for Research & Innovation: Horizon 2020

- Knowledge-base
- S&T diplomacy
- Globalization
- Employment growth
- Contribution to ERA
- Common resources
- Competitiveness
Key points on Horizon 2020

1. Framework for multi-pole, interdisciplinary research and innovation

2. Open to the world

3. Calls for proposals and competitive selection based on excellence

4. Participation of SMEs
Horizon 2020 countries

28 EU member states
+ 11 associated countries and areas

- Iceland
- Norway
- Switzerland
- Turkey
- Albania
- FYROM (Macedonia)
- Montenegro
- Serbia
- Bosnia Herzegovina
- Israel
- Faroe Islands
- Moldova

39(40) countries and areas on the same platform!
Key points on Horizon 2020

5. Focus on pre-competitive, applicable research & innovation
6. Two principles: co-funding and non-profit making
7. Projects own the IPR (foreground)
Meaning of International Cooperation: R&D budget in the world

R&D spending by regions (2013)

1. Only ¼ in the EU
2. Themes are more of global nature
3. Open Innovation
4. Gaining competitiveness through proactive international cooperation

Source: R&D Magazine
Horizon 2020

Technology Readiness Level (TRL)

9
8-9
6-8
5-6
3-5
2-3
1-2

Market uptake
Large scale validation
Prototyping, system/subsystem development
Demonstration
Technological R&D
Feasibility studies
Basic/frontier research

Societal Challenges

Industrial Leadership

Excellent Science

Consumers
Users
Public procurement
...
Who can participate in Horizon 2020?

MS (28): EU member states

AC (11-12): FP7 associated countries (Switzerland, Norway, Israel, Turkey, etc.)

ICPC: International Cooperation Partner Countries

Other third countries: Japan, USA, Australia, ...

BRIC+Mexico are now included in this category in Horizon 2020
EU-Japan coordinated calls (FP7/Horizon 2020)

- FP7/JST on Superconductivity (2010)
  3 collaborative projects
- FP7/NEDO on Photovoltaics (2010)
  1 collaborative project
- FP7/METI on Aeronautics (2011)
  4 collaborative projects
- FP7/JST on Materials (2012) on Substitution of critical metals
  3 collaborative projects
- FP7·METI on Civil High Speed Aircraft (2012)
  Coordination with Japan, Australia and Russia
- FP7·HORIZON2020/MIC·NICT on ICT (2012, 2014)
  6 collaborative projects + ?
- CONCERT-Japan joint calls (2012, 2014)
  Energy management / disaster mitigation, risk management / photonic manufacturing
  9 projects + ?
CONCERT-Japan
Photonic Manufacturing Joint Call
The CONCERT-Japan is an ERA-Net project which aims at enhancing the cooperation of European countries with Japan, in various areas of S&T.

The aim of CONCERT-Japan Joint Calls is to start new or strengthen existing, sustainable and multilateral research collaborations between European and Japanese researchers.

Research projects with an innovative dimension will be funded for a period of 2 years in the field of Photonic Manufacturing.

Each project consortium applying for this call should consist of at least 3 partners, 1 from Japan and 2 from two different European countries participating in the Call.
CONCERT-Japan Photonic Manufacturing Joint Call

• Participating Agencies & Call budget*

<table>
<thead>
<tr>
<th>Country/Funding institution</th>
<th>Amount in €</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japan: Japan Science and Technology Agency (JST)</td>
<td>300,000</td>
</tr>
<tr>
<td>Hungary: Hungarian Scientific Research Fund (OTKA)</td>
<td>100,000</td>
</tr>
<tr>
<td>Italy/Region of Lombardy</td>
<td>300,000</td>
</tr>
<tr>
<td>Slovakia: Slovak Academy of Sciences (SAS)</td>
<td>160,000</td>
</tr>
<tr>
<td>Switzerland: Swiss National Science Foundation (SNSF)</td>
<td>200,000</td>
</tr>
<tr>
<td>Turkey: Scientific and Technological Research Council of Turkey (TÜBITAK)</td>
<td>500,000</td>
</tr>
<tr>
<td><strong>Overall call budget</strong></td>
<td><strong>1,560,000 €</strong></td>
</tr>
</tbody>
</table>

*Juste retour principle: national and regional financial contributions to a virtual common pot will be assigned to project partners of that respective country and region only.

• Eligible beneficiaries: may be public & private legal RTD entities, higher education institutions, SMEs and large companies. The Joint Call funding institutions will individually decide on the eligible beneficiaries according to their own regulations.

• Research teams from countries that do not participate in the CONCERT-Japan Joint Call may participate as additional partners.
CONCERT-Japan Photonic Manufacturing Joint Call

• Submission process:
  ✓ Call text and Guidelines for applicants are available on CONCERT-Japan Website
  ✓ Online submission tool: PT-Outline
  ✓ Deadline for submission of proposals: Wednesday, 30 April 2014
    (deadline of 1 pm GMT and 10 pm Japanese time)

• Web Partnering tool available for searching for potential partners

For more information

http://www.concertjapan.eu/node/235

Joint Call Secretariat:
lucie.durocher@cnrs-dir.fr
# The JEUPISTE project

<table>
<thead>
<tr>
<th>Official name</th>
<th>Japan-EU Partnership in Innovation Science and TEchnology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short name</td>
<td>JEUPISTE</td>
</tr>
<tr>
<td>Period</td>
<td>36 months (2013.9.1 – 2016.8.31)</td>
</tr>
<tr>
<td>Budget</td>
<td>Ca. 1.25 MEUR from FP7 + contribution from partners</td>
</tr>
</tbody>
</table>

[http://www.jeupiste.eu](http://www.jeupiste.eu)
Europe and Japan are facing similar societal challenges while sharing common values. EU-Japan cooperation in Innovation, Science and Technology will be beneficial for both societies and can be enhanced through an appropriate series of analytical, promotional and supporting actions.
What you can expect? – project activities

Contribution to the EU-Japan STI policy dialogue: Data collection, analysis, roadmapping

Bilateral information service and seminars

Academic/Innovation workshops, research infrastructure, mobility

Contact points, helpdesk, training

Communication, outreach
The **JEUPISTE** consortium

<table>
<thead>
<tr>
<th><strong>Coordinator</strong></th>
<th><strong>IIST</strong></th>
<th>Institute for International Studies and Training (JP)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Funding</strong></td>
<td><strong>DLR</strong></td>
<td>Deutsches Zentrum für Luft- und Raumfahrt (DE)</td>
</tr>
<tr>
<td></td>
<td><strong>TUBITAK</strong></td>
<td>The Scientific and Technological Research Council of Turkey (TR)</td>
</tr>
<tr>
<td></td>
<td><strong>AGAUR</strong></td>
<td>Agency for Management of Universities and Research Grants (ES)</td>
</tr>
<tr>
<td><strong>Support</strong></td>
<td><strong>APRE</strong></td>
<td>Agency for the Promotion of European Research (IT)</td>
</tr>
<tr>
<td></td>
<td><strong>RCISD</strong></td>
<td>Regional Centre for Information and Scientific Development (HU)</td>
</tr>
<tr>
<td></td>
<td><strong>FORTH</strong></td>
<td>PRAXI Network/ Foundation for Research and Technology (GR)</td>
</tr>
<tr>
<td><strong>R&amp;D</strong></td>
<td><strong>KU</strong></td>
<td>Kobe University (JP)</td>
</tr>
<tr>
<td></td>
<td><strong>ZSI</strong></td>
<td>Centre for Social Innovation (AT)</td>
</tr>
<tr>
<td><strong>SME</strong></td>
<td><strong>INSME</strong></td>
<td>International Network for SMEs (IT)</td>
</tr>
</tbody>
</table>
Supporters of the JEUPISTE project

Through MoU:
- EU Institutes in Japan, Kansai & Kyushu
- The Engineering Academy of Japan
- RIKEN
- Japan Society for the Promotion of Science (JSPS)
- Research University 11 consortium (RU11)

Through letters of support:
- The Ministry of Economy, Trade and Industry (METI; JP)
- The Ministry of Human Resources (HU)
- The Ministry of Economy and Competitiveness (ES)
- NL Agency (NL)
- Le Centre National de la Recherche Scientifique (CNRS; FR)
- EUJO-LIMMS project (FP7 INCOLAB; GA 295089)