



Introduction of e-ASIA JRP



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Director, Singapore Office, Japan Science and Technology Agency (JST)



1. Outline of e-ASIA JRP

2. Forms of Cooperation

- i. Joint research by Multilateral co-funds
- ii. Information exchange (Workshops)
- iii. Promotion of research exchange (GOJ Scholarships)



What is the e-ASIA JRP (East Asia Joint Research Program)?

Concept

To build a Science & Technology community
to stimulate innovation and development
and
to resolve shared challenges
in the East Asian region



Objectives

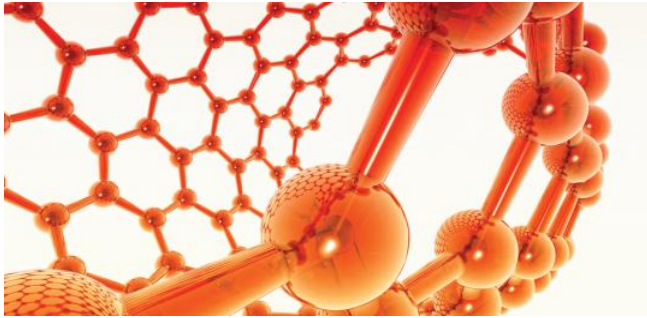
1. Cultivate the Asian science and technology community
2. Raise the standard of science and technology in the East Asian region and realize an innovative economy and society
3. Pursue synergistic effects through multilateral cooperation
4. Respect and leverage the diversity in the East Asian region
5. Establish and develop equal partnerships





East Asia Joint Research Program (e-ASIA JRP)

Fields of Cooperation



Nanotechnology / Materials



Biomass / Plant Science



Infectious Diseases



Disaster Prevention



**Advanced Interdisciplinary Research
towards Innovation**



Others



e-ASIA Joint Research Program (e-ASIA JRP)

Current Members

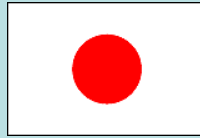
11 countries 13 organizations (as of February 2014)



Cambodia
MOH



Indonesia
RISTEK



Japan
MEXT
(JST)



Lao PDR
MOST
MOH



Malaysia
MOSTI*



Myanmar
MOST



New Zealand
HRC



Philippines
DOST



Thailand
NSTDA



USA
NIAID(NIH)
NCI(NIH)



Vietnam
MOST

-

*Quasi Member

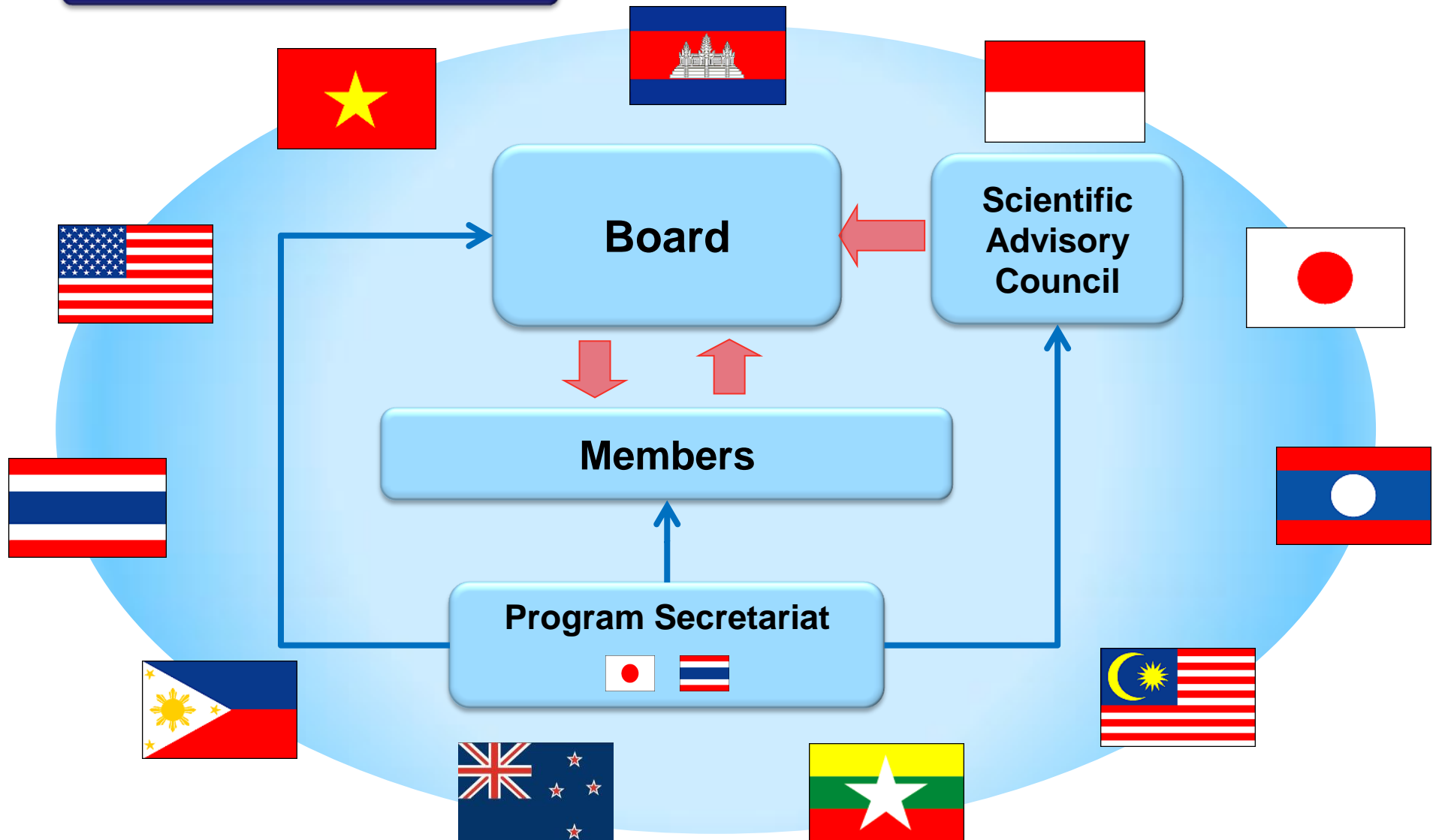
- **Prospective Members:**
Public funding institutions in the 18 East Asia Summit (EAS) participating countries

For more details → <http://www.the-easia.org/jrp/>



e-ASIA Joint Research Program (e-ASIA JRP)

Organs of Program





e-ASIA Joint Research Program (e-ASIA JRP)

Board





e-ASIA Joint Research Program (e-ASIA JRP)

Scientific Advisory Council

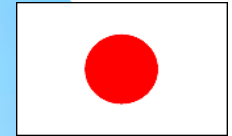
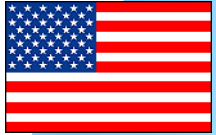
Scientific Advisory Council

Scientific Advice & Recommendations on Program

Senior Researchers from Each Member Country

Progress Review of on-going Projects

Post-Evaluation of Projects





e-ASIA Joint Research Program (e-ASIA JRP)

Members





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East Asia Joint Research Program (e-ASIA JRP)

Forms of Cooperation

1. Joint research by **multilateral co-funds**
2. Research exchange by on-top funding
3. Information exchange (for example, national priorities and best practices)
4. Promotion of research exchange and networking among young researchers

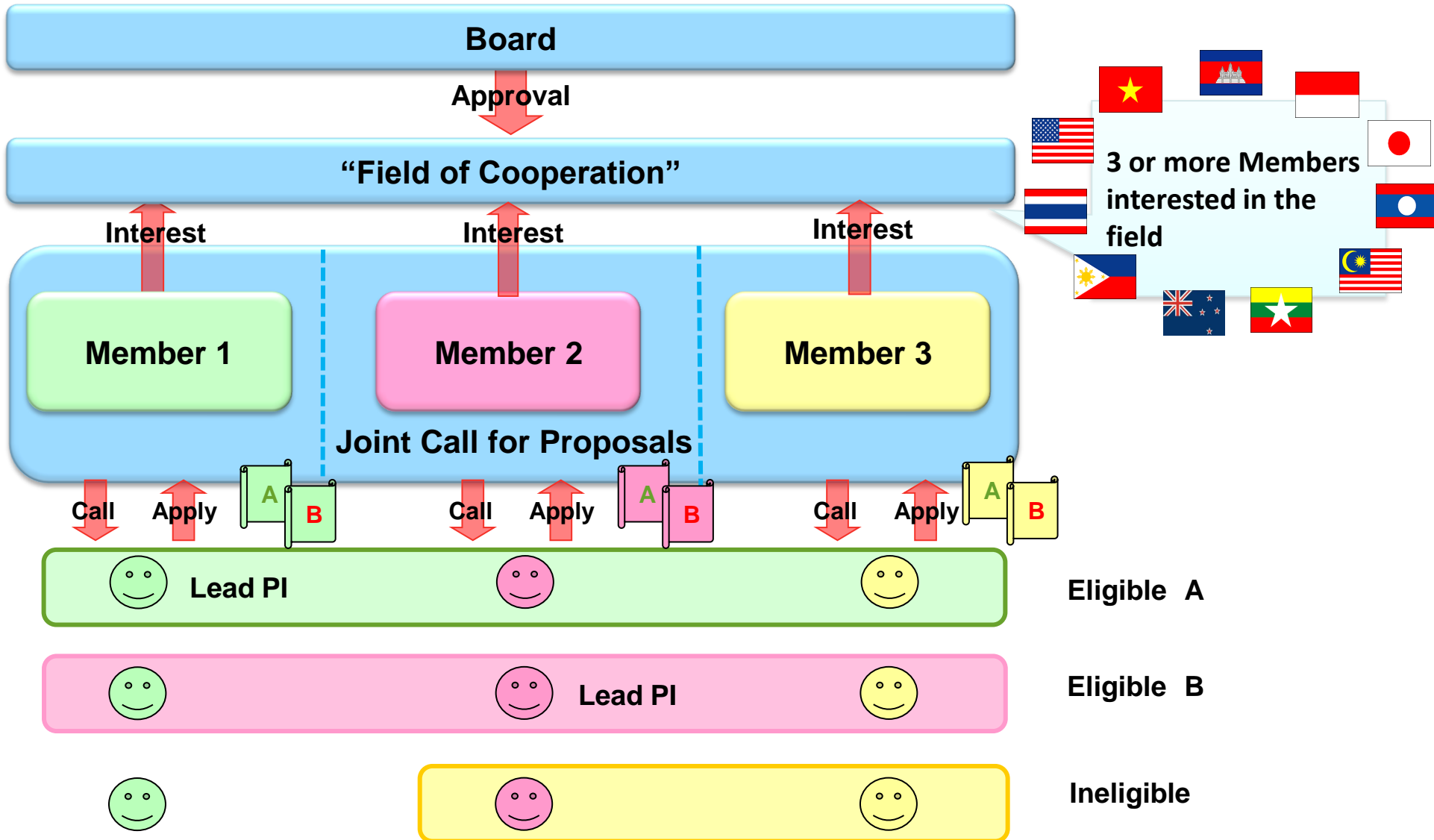
Mechanism

- **On a Call by Call basis**
Participating members will decide whether or not to participate
- **Co-funds**
Members participating in each Call (min. 3) fund their own researchers:
funding should not cross national borders



Forms of Cooperation (Joint Call)

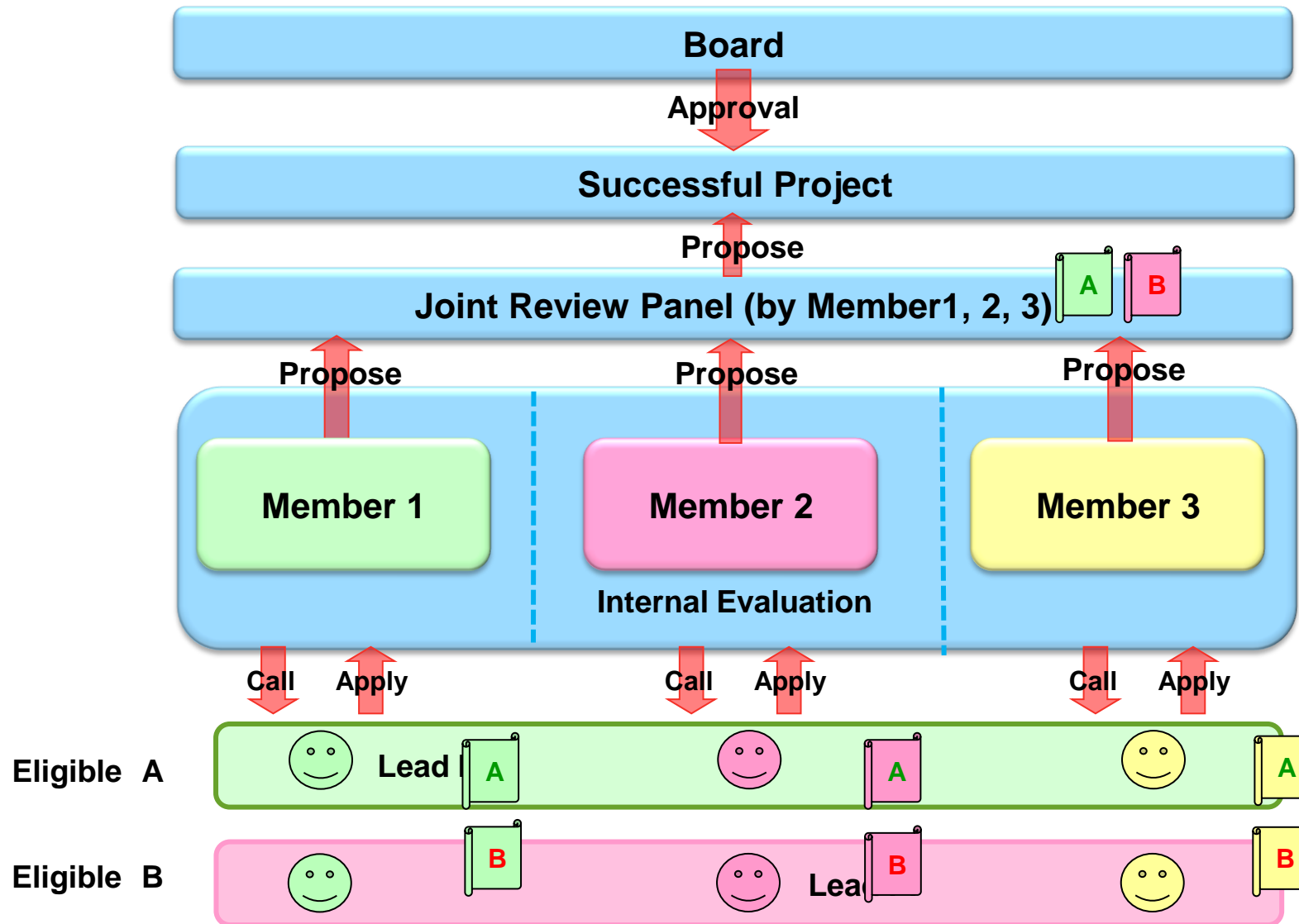
Joint research by Multilateral Co-funds



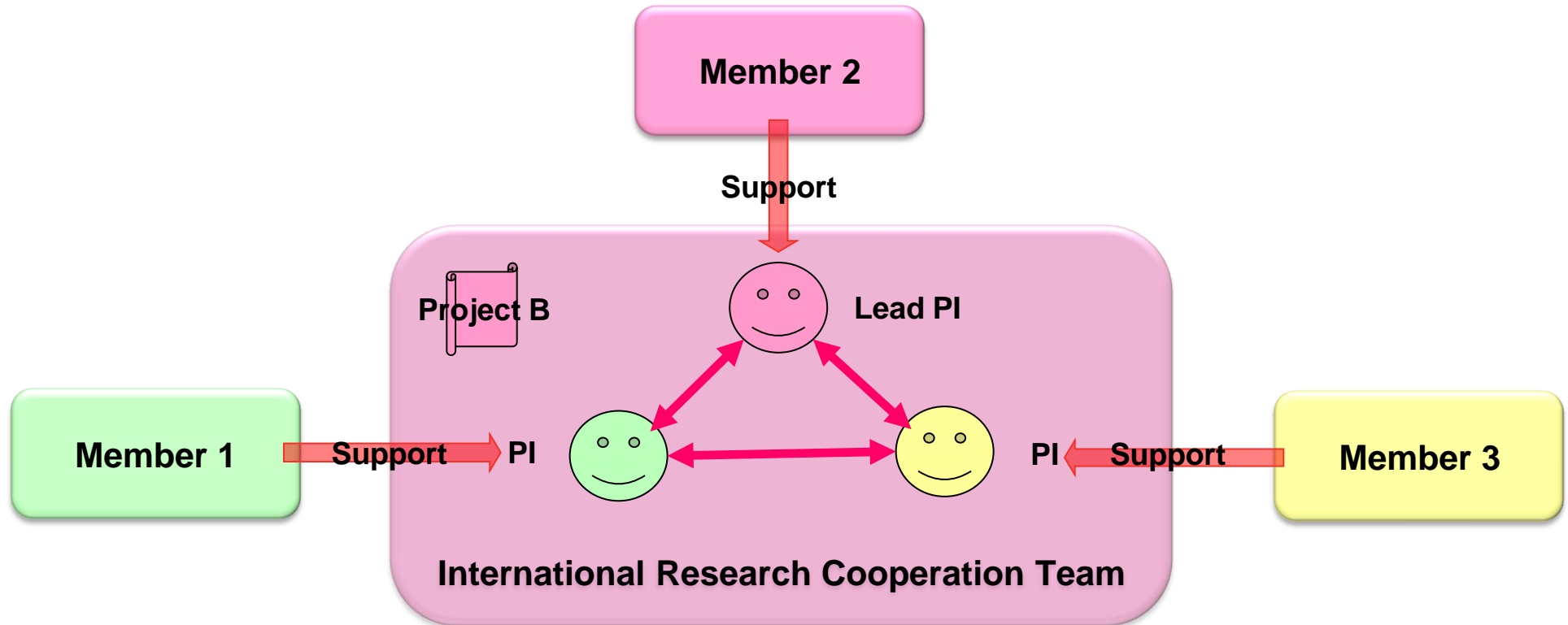


Forms of Cooperation (Joint Review)

Joint research by Multilateral Co-funds

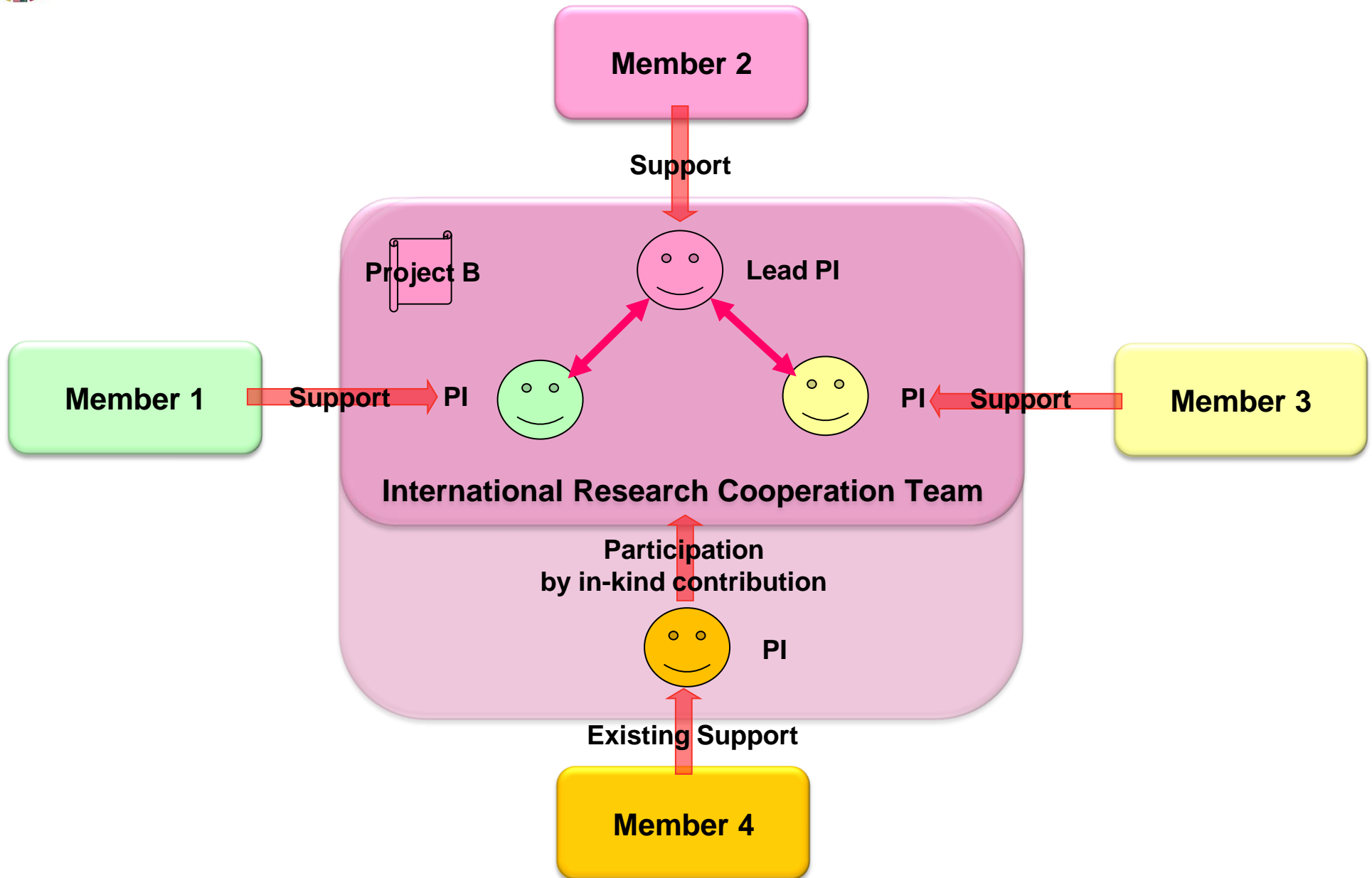


Forms of Cooperation (Support)





In-kind Contribution by Member 4



1st Pilot Joint Call for Proposals

☐ Participating members:

JST (Japan), MOST (Vietnam) and NSTDA (Thailand)

☐ Fields of research:

“Nanotechnology and Materials” and “Biomass and Plant Science”

☐ Call duration:

2nd - 31st May 2012

☐ Outcome:

2 proposals approved in “Nanotechnology/Materials” (11 received)

1 proposal approved in “Biomass/Plant Science” (3 received)





Joint Call for Proposals in e-ASIA JRP

1st Pilot Joint Call for Proposals

☐ Budget provided to each project (in total):



Japan : **39 million JPY** (roughly 390,000 USD)



Vietnam: **2.5-3.7 billion VND** (roughly 120,000-177,000 USD)



Thailand: **2-5 million THB** (roughly 65,000-163,000 USD)

*All budget items must conform to the rules and regulations of each participating member

☐ Research project duration: 3 years (36 months)

1. Corrosion Mapping of Structural Materials in Asian Area with Understanding Effects of Environmental Factors (Materials)
2. Plasmonic Bio-Sensor for Detecting Serious Diseases in Southeast Asia (Nano-tech)
3. Advancement of Asian Cassava Molecular Breeding by Cutting-edge Technologies (Biomass)

2nd Pilot Joint Call for Proposals

- ❑ **Participating members:**

JST (Japan), DOST (the Philippines) and MOST (Vietnam)

- ❑ **Fields of research:**

“Infectious Diseases”



- ❑ **Call duration:**

8th Feb – 15th April 2013

- ❑ **Outcome:**

2 proposals approved (8 received)



Joint Call for Proposals in e-ASIA JRP

2nd Pilot Joint Call for Proposals

☐ Budget provided to each project (in total):



Japan : **36 million JPY** (roughly 360,000 USD)



Philippines: **15 million PHP** (roughly 350,000 USD)



Vietnam: **2.5 billion VND** (roughly 120,000 USD)

*All budget items must conform to the rules and regulations of each participating member

☐ Research project duration: 3 years (36 months)

1. International study on pulmonary diseases infected with influenza virus and *Mycobacterium tuberculosis*
2. Comprehensive study on virus quasi-species and vascular permeability factors in severe dengue infection in humans for innovative epidemic and clinical managements



New Trial for Expanding Chance of Joint Research

Flexible Call for Proposals

- Trial basis in the field of “Infectious Diseases”
- Supplementary funds to projects or "flexible" call for proposals

Difference from Formal Calls

Flexible

**Financial Commitment
not necessarily from
Participating Countries**

**Flexible Combination
of
Participating Countries**

In-Kind Support acceptable

Formal

**Prior Financial Commitment
from 3 or more Countries**

Fixed Combination of Members

Only New or Supplemental Funding





Forms of Cooperation (First Flexible Joint Call)

Joint research by Possibly Co-funds

Board

Approval

“Field of Cooperation (Infectious Diseases)”

Interest

Member 1

Member 2

Member 3

Member 4

Member 5

Member X

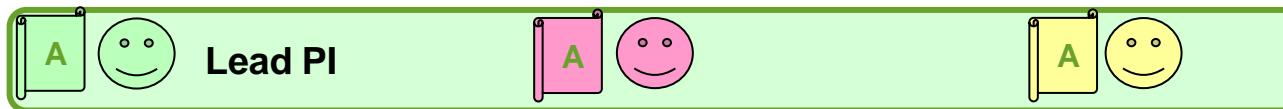
Flexible Call for Proposals

Call

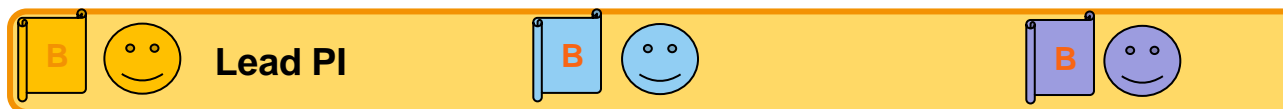
Apply



Members interested in the field



Eligible A



Eligible B

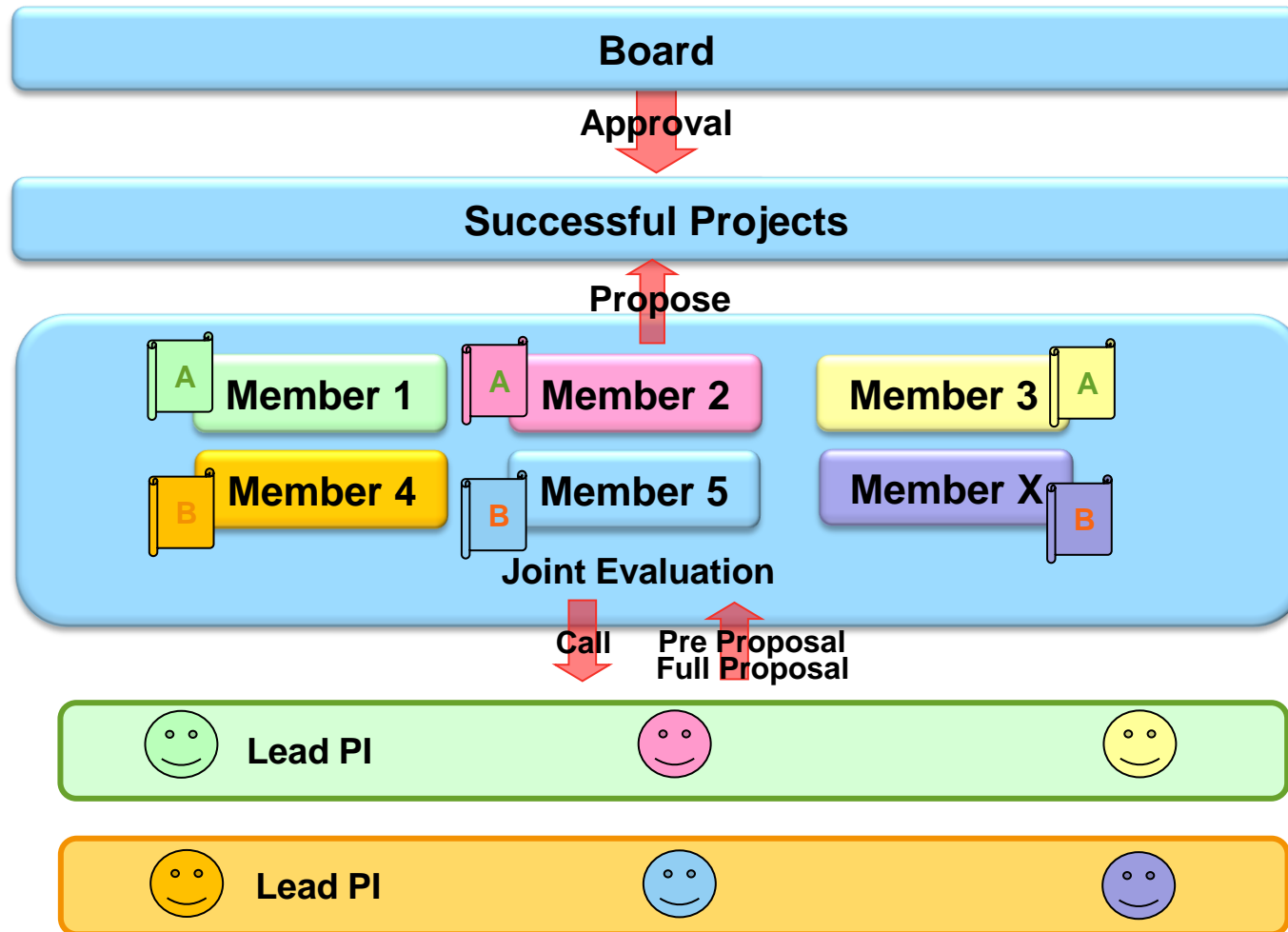


Ineligible



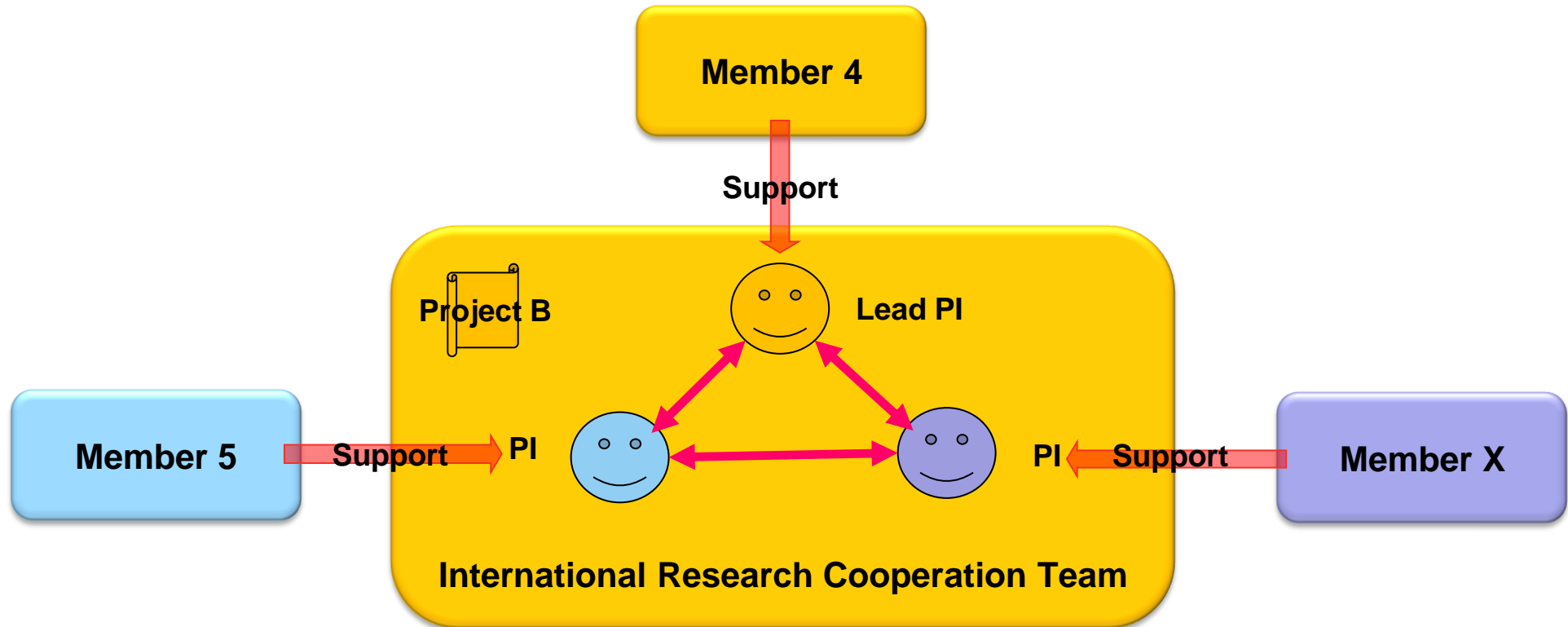
Forms of Cooperation (First Flexible Joint Call)

Joint research by Possibly Co-funds





Forms of Cooperation : First Flexible Joint Call (Support)



**Preferably, New or Supplemental Funding for Team Researchers
(1 “in-kind” researcher per project acceptable)**



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“Disaster Prevention” Workshop Earthquake Research for Safer Cities/ Volcano Eruption/ Flood & Landslide

June 4, 2013 @ Jakarta Indonesia

- **Co-organized by: Ministry of Research and Technology (RISTEK) & JST**

- **Recommendations to the e-ASIA JRP**
 1. **Multi-lateral collaboration to solve common problems of natural disaster**
 2. **Exchanges of experiences and sharing advanced knowledge**
 3. **Genuine partnerships for mutual contribution**
 4. **Nurturing human resources through research collaboration and researchers' exchange**
 5. **Sustainable network of researchers in the region**
→ **Safety and Sustainability of the region**

■ Possible Themes of Cooperation:

1. Earthquake

- Database for tsunami early warning
- Shaking table tests and building code

2. Volcano

- Monitoring of activity
- Classification of eruption scenarios
- Risk assessment and preparation

3. Flood and Landslide

- Assessment through monitoring and simulation
- Forecast and warning



“Renewable Energy” Workshop Solar Energy and Photovoltaics/ Biomass Utilization

July 31- August 1, 2013 @ Vientiane Lao P. D. R.

- **Co-organized by: Ministry of Science and Technology of Lao P.D.R. & JST
Hosted by: Renewable Energy and New Materials Institute, Lao P.D.R.**

- **Recommendations to the e-ASIA JRP**
 1. **Establish smaller amount funding for young researchers and encourage self-help efforts of each countries**
 2. **Reduce sectionalism in each country which prevents active applications by prospective researchers for joint calls for proposals**
 3. **Share common views on importance of human development of researchers among e-ASIA JRP member states**



■ Possible Themes of Cooperation:

1. Solar Energy and Photovoltaics

- Development of efficient solar thermal energy systems
-Heating, cooling, thermoelectric-
- Installation of stand alone systems in rural areas and in agriculture, and investigation of its reliability, life time
- Development of new materials and new fabrication techniques for inexpensive solar energy conversion devices

2. Biomass Utilization

- On-site power and Heat Power generation
- Fertilizer and Feed Agricultural production, Breeding, Reduction of chemical fertilizer, crops with high product yield
- Befouls (gas, liquid and solid)
-CH₄, H₂, Syngas, Ethanol, BDF, Jet fuel, BTL, Wood pellet, Solid fuel
-Low cost production technologies
- Biomass Refineries
Biofuels and Biomaterials, Social Infrastructure systems



“Intelligent Infrastructure” Workshop

December 2 - 4, 2013 @ Yangon, Myanmar

- **Co-organized by: Ministry of Science and Technology of Myanmar & JST**
Hosted by: Yangon Technological University

- **Next Step contributing to the e-ASIA JRP**
 1. **Infrastructure policy should be justified by holistic “science of infrastructure”**
 2. **Promoting discussion by workshop participants by mailing list**
 3. **Making report of workshop summary**
 4. **Publishing a book on “science of infrastructure”**
 5. **Implementing this protocol to real project**
 6. **Holding second workshop with same participants**

■ Proceeding of Workshop:

Session1: Survey & Analysis

Needs / Remote sensing technology applications / Current problems in Myanmar infrastructure

Session2: Modeling & Simulation

Overview / Modeling / Modeling example : Electronic commerce / Simulation application to electric power transmission system

Session3: Optimization

Greening of datacenter / application of optimization / optimizing algorithm

Session4: Implementation

History of infrastructure / Social practice required by implementation process / Introduction of national projects: Advanced transportation system and transmission trial of electric power by wind power generation in islands region



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GOJ Scholarships related to e-ASIA JRP Projects 2013

Special Scholarships for e-ASIA Projects

- ☐ **5 + Special Reserves**
- ☐ **for a PhD course**

Provided by:

Ministry of Education, Culture, Sports, Science and Technology (MEXT)



Requirements (Call for 2013)

Applicants must:

- ☐ **Hold a Master's Degree in the field of e-ASIA JRP projects**
- ☐ **National of e-ASIA JPR member country**
- ☐ **Born after 2nd April 1979**



Application and Selection

- ☐ **Pre-screening by JST**
- ☐ **Applicants who pass JST screening go through the university admissions process – exams, interviews, etc. depending on the university**
- ☐ **Applicants who pass university admissions process will go to the final stage – Final Decision by MEXT**



Promotion of Research Exchange among Young Researchers

Further Details

General scholarship details:

www.mext.go.jp/a_menu/koutou/ryugaku/boshu/1319066.htm

e-ASIA JRP selected projects:

www.jst.go.jp/pr/info/info922/Attachments1_e.html



Thank you for your attention!

If you have any questions, please feel free to
contact me or Ms. Kishida (at the e-ASIA Secretariat)

easiajrp@jst.go.jp / e2kishid@jst.go.jp



<http://www.the-easia.org/jrp/>