

ICIAR Framework

Environment and human security <ul style="list-style-type: none"> Disaster, conflict and crisis "tripartite" The new millennium, global change, global peace and green economy Coastal community resilience (Co-co) and the ICoMar 	LIPI International Center for Interdisciplinary and Advanced Research (ICIAR) <ul style="list-style-type: none"> An International Center for Advanced Research in LIPI is Foreseen Purpose Missions Scopes Existing capacities Mode of International Cooperation 	Invitation for an expanded Netherlands - Indonesia scientific sustainable partnership <ul style="list-style-type: none"> Why The Netherlands? Current position
Actions		
<ul style="list-style-type: none"> Immediate (2009) Medium term (2010 - 2012) 		

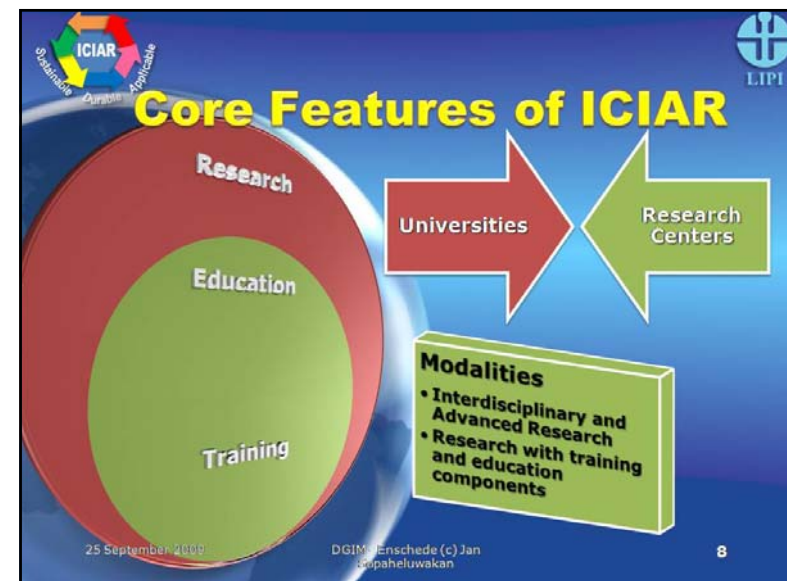
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Why LIPI-ICAR ?

LIPI has decided	<ul style="list-style-type: none"> to establish an International Center for Interdisciplinary and Advanced Research within the short future
The need	<ul style="list-style-type: none"> to having a massive rejuvenation of research staffs 1000 young staffs to be trained and educated
The 2010 - 2014 National Plan	<ul style="list-style-type: none"> human resources development with strong mastery in science and technology to support the economic development
Existing LIPI - International collaboration	<ul style="list-style-type: none"> Extensive international network (Australia, Japan, China, Korea, Netherlands, Germany, France, US)

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Strategic

Purpose:

- Establishing LIPI's International Center for Interdisciplinary and Advanced Research with the central attention on **Environment and Human Security** to produce great science, through advanced and frontier research programmes, leading to **strategic and sustainable solutions** to the global, regional, national and local emerging problems.

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Strategic

Missions

- To further develop LIPI's existing research capacity in environment and human security at large through the implementation of multidisciplinary advanced and frontier mission-oriented research programmes in selected fields,
- To produce **great science and knowledge** leading to strategic solutions to the environment and human security issues and their relevant emerging challenges, and
- To **contribute to the world of knowledge** on the basic understanding of environment and human security and its viable developmental significance.

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Scopes

Interdisciplinary and Advanced Research on Environment and Human Security

Climate change and disaster risk reduction	Coastal community resilience	Conflict and crisis management, and inter-cultural studies	Biogeo dynamics and sustainable environment	Food, health and biomedical studies	Green advanced materials
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Existing capacity

- 1,100 research staffs, with more than 60 research professor posts and hundreds of experienced researchers working in various fields of specialization**
- A 6-storey building owned by LIPI, Gedung Kusnoto in Bogor, will be made available**
- ICIAR Headquarter in Jakarta will be provisioned in in due course**

Competitive Research Programmes:

- coastal and maritime based regional development
- clean and renewable energy
- molecular farming and post-genomic
- biomedical sciences
- integrated watershed and ecohydrological research
- critical social issues with emphasis on poverty alleviation
- conflict resolution studies
- disaster risk reduction and climate change

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Existing capacity

Research funds:

- some fraction of ICoMar members annual budget
- fair amount of research funds in LIPI will be allocated for the coming 5 years

Government budget (tbd) to send 180 new young staffs abroad

- 20 – 30 young researchers candidate to be recruited as a start in 2010


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Mode of International Cooperation

Frameworks of Cooperation	Frameworks of Cooperation
<ul style="list-style-type: none"> • Joint research program development and execution • Joint supervision program • Joint research training program • Joint fellowship/grant-in-aid application • A semi-massive researchers enrollment through a combined multi-countries research and training program: <ul style="list-style-type: none"> • 1st year participants: <ul style="list-style-type: none"> • enrolled in the research program, followed by an admission test to a particular research institute or university abroad; • Teleconference mode for 1st year M.Sc./MA program participants. 	<ul style="list-style-type: none"> • 2nd and more year for eligible participants: <ul style="list-style-type: none"> • Eligible candidates will continue to their 2nd year research and training abroad or in Indonesia, leading to their Master and/or Ph.D. degree. • On-the-job sandwich-type program whereby the candidate carries out his/her research in Indonesia, holding his/her research post and get promoted in any partnering university abroad (comparable to the Japanese "Ronpaku-type"); • Researcher exchange. • Eligibility upon scientific and academic standards of the hosting research institute and the corresponding universiti(es).

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Mode of International Cooperation

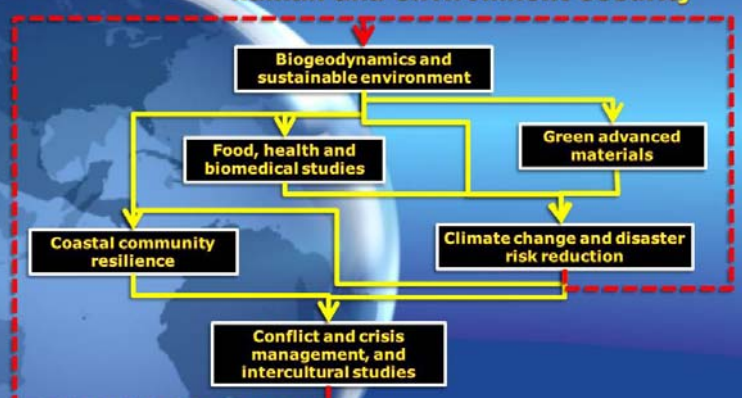
Resource sharing

- Endowment funds: jointly raised endowment funds from any sponsoring and philanthropical organizations is highly encouraged;
- Rolling funds sharing, following an agreed principles of sharing funds between parties:
 - Indonesian parties: LIPI and other sources like the ICoMar partners, DIKTI, Ristek and many others;
 - Overseas parties: some possible sources in the Netherlands funding schemes like NUFFIC, NWO, KNAW, University Funds;
- Laboratory and research equipments in LIPI and in the partnering institutions and universities;
- Working office and management facilities.

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Interdisciplinary and advanced research on human and environment security



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graph TD
    A[Biogeodynamics and sustainable environment] --> B[Food, health and biomedical studies]
    A --> C[Green advanced materials]
    B --> D[Coastal community resilience]
    B --> E[Climate change and disaster risk reduction]
    C --> E
    D --> F[Conflict and crisis management, and intercultural studies]
    E --> F
  
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