



Indonesian Science Fund

INTERNATIONAL RESEARCH COLLABORATION

Jakarta, Agustus 2019

Content

- Brief about DIPI
- International collaboration research Scheme
- SEA-EU JFS
- RISPRO-KI
- What should we do?

Brief about DIPI

- Launched by Minister of Finance 30th March 2016 as the independent funding institution under the auspice of Indonesian Academy of Science (AIPI)
- Mission:
 - To improve the research ecosystem and promote the culture of excellence in research
 - To provide a flexible, competitive and sustainable research grant
 - To increase advance and qualified research
 - To provide the research management services
 - To become the trusted research funding institution
- Current project:
 - Joint call DIPI-MRCUK (6 research project)
 - Joint call DIPI-RCUK (5 research project)
 - Call secretariat for the 2nd call of SEA-EU JFS (9 research project)
- Future project:
 - Call secretariat for the 3rd R&D call and 4th Innovation call of SEA-EU JFS (25 June 2019)
 - DIPI-LPDP : International Call for Proposal (joint call)

International Research Collaboration Scheme

- Indonesia – UK research collaboration (DIPI-MRC, RCUK, Wallacea, dll.)
- Indonesia – Belanda research collaboration (Ristekdikti – NWO)
- Indonesia – Perancis (Nusantara)
- E-Asia (Multi-lateral)
- SEA-EU Joint Funding Scheme
- RISPRO-KI (RISPRO International Collaboration)

What is the JFS

Funding of **Research & Innovation** Projects

Bi-regional & multilateral (2+1 / 1+2 Rule)

Open to all funding agencies from SEA and ERA

Thematic areas of calls are jointly agreed

Virtual Common Pot according to the **juste-retour** principle (no money cross border)

To date: **2 Joint Calls** for Proposals

EVALUATION

- Eligibility check of the proposal according to the JFS rules
- Eligibility check by NCP according to national regulations
- Online evaluation by scientific peer reviewers (min. 2/proposal) (score 0-10)
 - ✓ Scientific/technological excellence and Innovativeness of the project idea
 - ✓ Potential impact and expected outcomes of the project
 - ✓ Management, transnationality and cooperation
- Review of proposal & peer reviews by 1st and 2nd reader from scientific council (assurance that proposals benefitted from fair evaluation)
 - A. Excellent
 - B. Good
 - C. Failed

Strengths and benefits of the JFS

- It is impossible for countries, in particular smaller ones, to manage bilateral cooperation with every single partner country at national or sub-national level
- The JFS is a perfect **umbrella** mechanism to facilitate Science, Technology and Innovation (STI) **Cooperation with a larger number of partners** at the same time
- Researchers can choose from a large network of partners when forming their consortia
- Researchers can form a comprehensive research program to solve national or global issues.
- The JFS main strength is its **flexibility**: A certain agreement on **basic parameters** is required but funding happens according to **national regulations**

SEA – EU JFS

1st CALL: 2017

- Participation by 9 European and 5 SEA funding agencies
- Thematic areas: Health and Environment/Climate Change
- 10 projects selected for funding (success rate of 20 percent), up to 3.3 mio. Euros of funding

Title (Health)	Thematic area	Involved countries	Project budget
The emergence of Skin Ulceration Diseases in Edible Sea Cucumbers in a Global Change Framework	Emerging infectious diseases	Belgium , Thailand, France	178.085 €
Novel Leptospirosis and Dengue Fever Vaccines for Thailand	Emerging infectious diseases	Thailand, Switzerland, France	361.254 €
Plasmid Identification and Detection in South-East Asia - Enterobacteriaceae resistant to last resort Carbapenems and Colistin	Anti-microbial drug resistance	Sweden, Thailand, Lao PDR, Vietnam	306.000 €
Occupational risks for animal farmers to be colonised with animal-associated resistant bacteria in Thailand, impact on the faecal microbiot.	Anti-microbial drug resistance	Switzerland, Thailand, France	354.628 €
A single component pentavalent Dengue-Zika vaccine preventing antibody-dependent enhancement phenomenon	Emerging infectious diseases	France, Thailand, Cambodia, The Philippines	276.600 €
Containment of antibiotic resistance - measures to improve antibiotic use in pregnancy, childbirth and children	Anti-microbial drug resistance	Sweden, Vietnam, Lao PDR, Vietnam	307.000 €
Title (Environment/Climate Change)	Thematic area	Involved countries	Project budget
Assessments of vulnerability of mature and secondary forests to climatic water stress in Southeast Asia	Impacts of Climate Change on Ecosystems/Biodiversity	Thailand, Sweden, France	346.130 €
Freshwater biotas of the insular biodiversity hotspots of Southeast Asia: diversity, biological states and uses	Impacts of Climate Change on Ecosystems/Biodiversity	France, Germany, The Philippines, Other 2x	179.620 €
Monitoring and optimizing the design quality of mangrove restoration towards a sustainable coastal ecosystem management in Thailand and Mekong delta of Vietnam	Impacts of Climate Change on Ecosystems/Biodiversity	France, Germany, Thailand, Vietnam	245.022 €
Strengthening rice breeding programs in Laos and Thailand and developing climate-resilient rice varieties	Adaptation/ Resilience of food production systems	Thailand 3x, France, Lao PDR 2x	141.102 €

2nd CALL: 2018

- Participation by 9 European and 7 SEA funding agencies
- Thematic areas: Health (infectious diseases) and Bioeconomy
- 9 projects selected for funding, up to 2.7 mio. Euros of funding

Title (Health)	Thematic area	Involved countries	Project budget
Moxistrong - Moxidectin for Strongyloidiasis	Emerging infectious diseases	Switzerland, Lao, Cambodia	214.680 €
Malaria & HIV drug resistance diagnostic devices - Development of paper based rapid diagnostic kits for Malaria and HIV drug resistance detection using recombinase polymerase amplification	Health devices development	Thailand, Philippine, Indonesia, German	487.849 €
PHISHING - Paper based Hepatitis B Virus Electrochemical Immunosensors using AgNPs enhancement	Emerging infectious diseases	France, Thailand, Indonesia	49.000 €
PNEUMOFLUIDICS - Development of a microfluidic chip protein array as a serodiagnostic tool of early detection of pneumococcal infection	Emerging infectious diseases	Spain, German, Indonesia, Myanmar	613.950€
SEA-dog-SEA - Socio-Ecological Approach of Dog-borne zoonotic diseases in Southeast Asia	Emerging infectious diseases	France, Belgium, Indonesia	160.000 €
NEWTONIAN - New tools for the regional control of Asian liver fluke infection and associated severe liver diseases	Emerging infectious diseases	Switzerland, Lao, Cambodia, Thailand	322.054€

Title (Bioeconomy)	Thematic area	Involved countries	Project budget
Irrigation4.0 - Strengthening agriculture 4.0 technology in a Thailand-Myanmar-Germany collaboration: development of a plant-based irrigation platform	Bio platform	Thailand , German, Myanmar	199.338€
BIOPLATE -Electroplating processes for biodegradable materials obtained from renewable biological resources	Bio material	German, Switzerland, Thailand	426.715€
Purge to Value - Development of value added products with low environmental impact from the purge water of microalgae cultivation	Bioeconomy	German, Belgium, Thailand2x	253.455€

SEA – EU JFS

3rd CALL: 25 June – 18 Oct 2019

- Joint S&T Projects addressing basic research up to Technology Readiness Level (TRL) 4
- Participation by 5 European and 8 SEA funding agencies
- Thematic areas: Integrated Water Resources Management, and Nano Technology

Integrated Water Resources Management

Climate Change in South-East Asia will cause more extreme weather events that may lead to drastic change in rainfall and runoff, water quality and supply as well as the viability of irrigation schemes according to the Intergovernmental Panel on Climate Change (IPCC). Research and innovative technology approaches on integrated land use and water management systems as well as science diplomacy especially for river basins and deltas would contribute to prepare for, mitigate and negotiate the effects of climate change. The nexus between the sustainability of river systems, transboundary water issues, food security, sustainable urbanization, energy and urban pollution in a context of climate change provides further scope for regional collaboration in research and innovation between Europe and South-East Asia.

Nanotechnology

Nanoscience and nanotechnology are highly interdisciplinary and cut across industrial and commercial sectors to research and create new materials and devices with remarkable properties and functions. To name but a few, nanotechnology is being used in medicine, electronics, food, manufacturing and materials or water purification. Despite the fact that the technology has a high potential for both regions, research and innovation cooperation in nanotechnology has still a high untapped potential. Hence addressing setting research and innovation initiatives could bring new avenues for joining scientific and innovation capabilities from both regions.

4th CALL: 25 June – 18 November 2019

- Joint Innovation Projects addressing applied research and technology development (TRL ≥ 3)
- partnership between innovative SMEs and research performing institutions based in SEA and Europe
- Participation by 3 European and 10 SEA funding agencies

Infectious Diseases:

There is a long tradition of cooperation on infectious diseases between Europe and Southeast Asia and health research is a proven strength of both regions. Nonetheless, major obstacles exist to overcome the existing and increasing global health challenges including the need for a deeper understanding of diseases pathology and the socio-economic causes of the diseases and linked effectiveness of health intervention. There is a strong potential for collaboration in the area of antimicrobial resistance, as South-East Asia is affected by situations similar to Europe and requiring actions to which it can contribute.

Smart Cities :

The sustainable development of urban areas is a challenge of key importance. It requires new, efficient, and user-friendly technologies and services, in particular in the areas of energy, transport and ICT. However, these solutions need integrated approaches, both in terms of research and development of advanced technological solutions, as well as deployment in the following areas:

- **Smart Energy Systems**
- **Building and Space Sustainability**
- **Intelligent Transport and Mobility**
- **Societal Challenges: inclusion, education, health, tourism, etc.**

PARTICIPATION INDONESIA'S FUNDING AGENCY:

1. RISTEKDIKTI :

- Integrated Water Resource Management (3rd Call)
- Infectious Diseases (4th Call)
- Smart City (4th Call)

2. LPDP :

- Nanotechnology (3rd Call)

The screenshot shows a mobile browser interface. At the top, the address bar displays 'www.sea-eu-jfs.eu'. Below the address bar, the European Commission logo and the text 'Southeast Asia - Europe' are visible. A blue banner contains the text 'Joint Funding Scheme for Research and Innovation'. The main content area features the SEA-EU JFS logo, which consists of a red leaf-like shape surrounded by purple stars. Below the logo are two circular icons: one with an envelope icon labeled 'Newsletter' and one with a right-pointing arrow icon labeled 'Login'. A news article from LPDP is displayed, with the title 'Indonesia Endowment Fund joins S&T Call' and the text 'The Indonesia Endowment Fund (LPDP) has joined the S&T Call thematic area Nanotechnology.' The article is dated 'Posted on 23. Jul. 2019'. Below the article is a red banner with the word 'Important' in white. The bottom of the page shows a navigation bar with icons for back, forward, home, search, and a notification icon with the number '49'.

SEA – EU JFS

Letters of Intent sent to JFS Secretariat	May 2019
Pre-announcement of the Call for Proposals	Beginning June 2019
Launch of the Call for Proposals	25 June 2019
Deadline for proposal submission	18 October 2019 (3rd Call), 18 November (4th Call)
Eligibility check	21 October - 20 November 2019
Online evaluations	20 November – End January 2019
Review of online evaluation results by Scientific Council/ Innovation Council	Beginning February 2020
Scientific Council/ Innovation Council Meeting	End February 2020
Programme Steering Committee Meeting (back to back with Scientific Council Meeting)	End February 2020
Announcement of results to applicants	March 2020
Contract negotiations of each funding agency	March - July 2020
Start of projects	July 2020

SEA				
	Brunei Darrisalam (UBD)	V	-	
	Cambodia (MOEY)	V	V	V
	Indonesia			
	- Kemristekdikti	-	V	V
	- LPDP	V	-	-
	Lao PDR (MOST)	V	V	V
	Myanmar (MOE)	V	V	V
	Philippine			
	- PCHR - DOST	-	-	V
	-PCIEERD – DOST	V	V	-
	Thailand			
	-NASTDA	V	V	-
	- TCELS	-	-	V
	Vietnam (MOST)	-	V	V
	Bulgaria (BNSP)	V	V	
	Czech Republic (CAS)	V	V	V
	Germany (BMBF)	V	V	-
	Switzerland (SNSF)	V	V	-
	Spain ((CDTI)	V	V	V
	Turkey (TUBITAK)	V	V	V

SEA – EU JFS : National Contact Point/Person (NCP)

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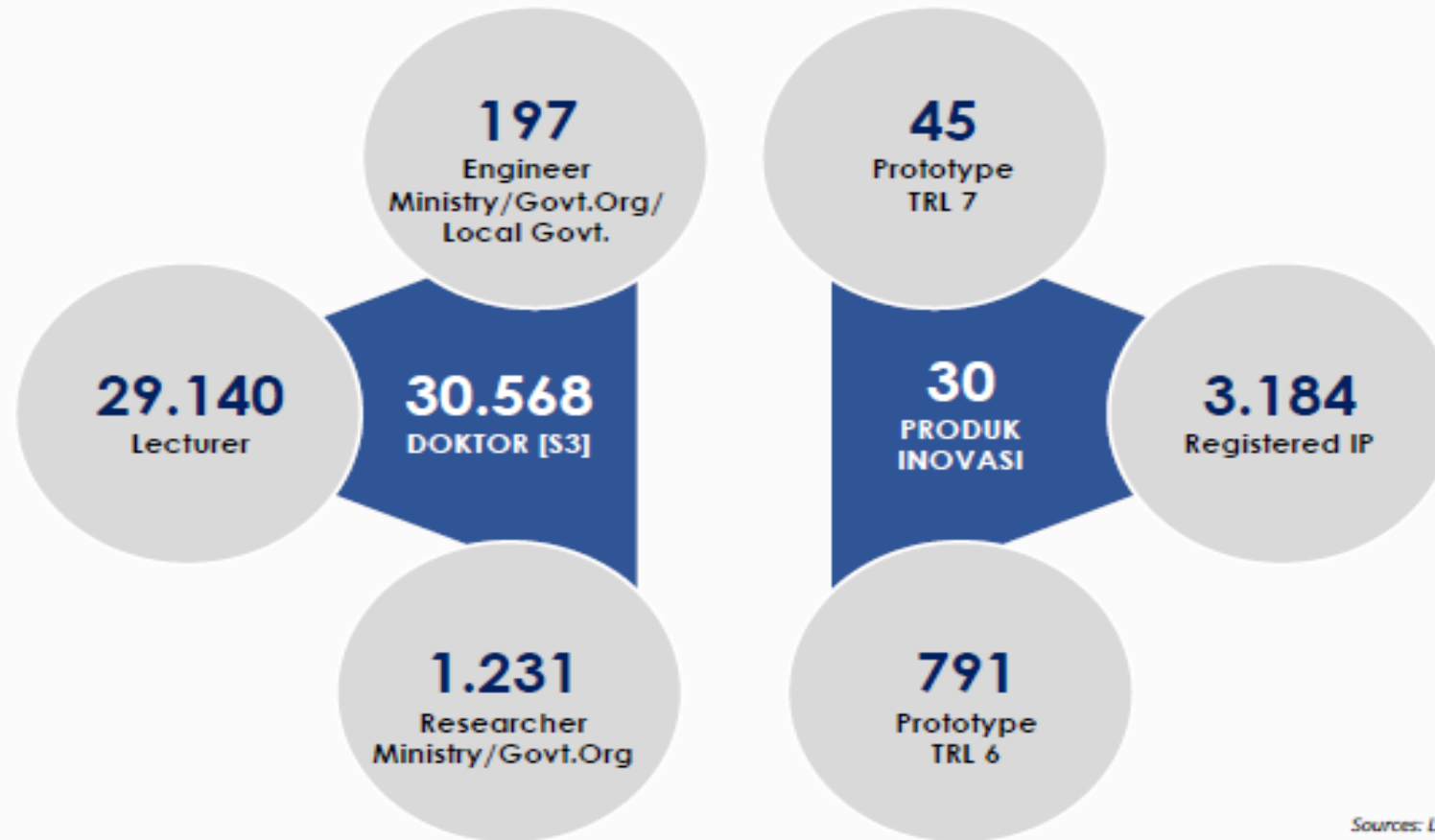
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SEA – EU JFS : Partnering

1. Individual/institutional scientific networking
2. NCP
3. Partnering tool
4. Match making event
 - Nano teknologi (11 September 2019, Solo)
 - 5 researchers from EU (on-going announcement)
 - Researchers from SEA (dissemination info done)
 - Presentation and poster exhibition
 - Discussion

RISPRO-KI (International Collaboration)

Doctoral [S3] Productivity




Sources: LAKIP 2016, Kemristekdikti, 2017

RISPRO-KI (International Collaboration)

In 2017 alone, only 21,35% Research held in International Collaboration scheme in Indonesia, based on the number of joint Publication ...


source: www.scimagojr.com cited on 23 January 2019

Common Standard /metrics



**THOMSON
REUTERS**

Impact Factor
Based on selective data from Web of Science DB



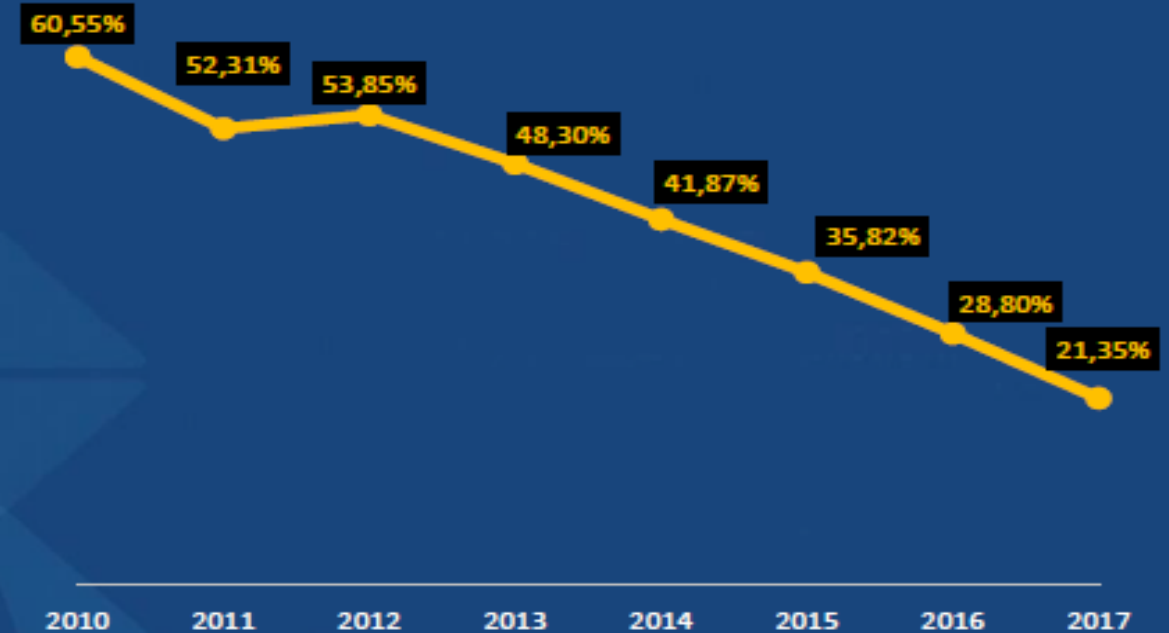
Scopus[®]

- 1. Quartile System**
 - Q1: 99-75th percentiles
 - Q2: 74-50th percentiles
 - Q3: 49-25th percentiles
 - Q4: 24-0th percentiles
- 2. SJR (Scopus Journal Rank)**

www.lpd.kemenkeu.go.id

No. of International Collaboration

Based on Scientific Publication in Indonesia



RISPRO-KI (International Collaboration)

Research Qualities in Indonesia

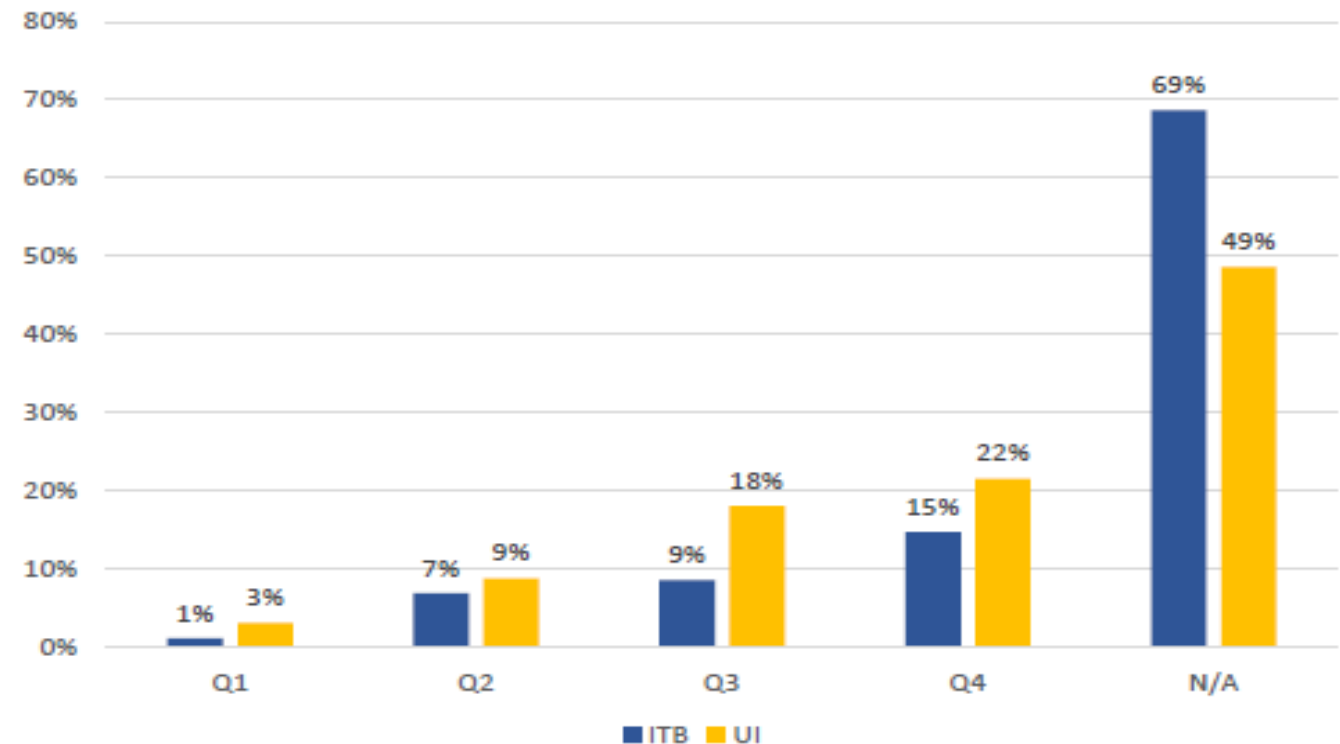
taking ITB & UI International Publications as an example



Quartile	Amount of Documents		Percentages of Documents	
	ITB	UI	ITB	UI
Q1	127	390	1%	3%
Q2	763	1.099	7%	9%
Q3	954	2.261	9%	18%
Q4	1.638	2.701	15%	22%
Undefined	7.635	6.107	69%	49%
Total	11.117	12.558	100%	100%

source: scopus.com cited on 23 January 2019
Based on source of publication

Less than 5% number of publication, from Indonesia top Universities can reach Q1 level of Publication....



RISPRO-KI (International Collaboration)



Publications & Citations: International Collaboration vs Domestic Collaboration study case UGM

International
Collaboration

**11,8 citations
per publications**

Domestic
Collaboration

**1,5 citations
per publications**

Years	Collaborative Publications		Citations	
	International	Domestic	International	Domestic
1954-1959	1	-	24	-
1960-1969	2	-	29	-
1970-1979	6	1	55	-
1980-1989	31	-	541	-
1990-1999	130	6	3.596	93
2000-2009	516	50	11.026	260
2010-2016	1.208	941	7.160	1.105
Total	1.894	998	22.431	1.458

source: Maryono & Surajiman, 2017

RISPRO-KI (International Collaboration)



Implementation

1. Funding Partners

- Netwon Fund
- DFAT
- NUFFIC
- JICA
- IFI, etc.

2. RISPRO's Partner (as "delivery partner")

- ISF/DIPI
- Top 5 Indonesian University
- Non-Gov. Research Institute, etc.



Themes

"National Research Agenda 2017 – 2045"



Objectives:

from **Co-Authorship**
to **Co-Invention**



Outputs

1. Publications (Accepted)

- Q1 Scopus Indexed
- 1st Author or Corresponding Author (1 publication per year)
- Co-Authorship (1 publication per funding contract)

- 2. Intellectual Property (Registered)
- 3. Prototype Technology/Product
- 4. Social Engineering Model

RISPRO-KI (International Collaboration)

Thematic Areas:

- a. Health : genomic, cell therapy, digital health, etc.
- b. Advance material: nano technology, etc.
- c. Maritime: marine security system, marine bio-diversity, value added of marine resources, empowerment of coastal population

Call scheme:

- a. open call (preparation for launching)
- b. joint call (seeking a partner process)
- c. multi lateral joint call (on going SEA-EU JFS call)

funded by



delivered by



RISPRO-KI (International Collaboration)



Feasibility of Funding Instrument

Administrative

- *PI has min. PhD degree;*
- *Have MoU with research partner;*
- *Only 1 proposal for every research PI and member;*
- *Min. 3 articles for preliminary study (min. Q2 Scopus indexed)*

Explanatory notes:

- *The substantive assessment is for the entire team*
- *1a → PI has at least 3 publications (as the first author) that are relevant and have been published in at least Q2 Scopus Indexed*
- *2 & 3 are subject to reviewer discretion*

Substantive

No	Aspect/sub-Aspect	Weighting Factor (a)	Score (b)	Final score (axb)
1	Researcher quality	50		
	a. Preliminary Studies which have proven in high quality journal	50		
	b. Researcher Quality (number of publication in Q1) Scoring range 1 = <2 Publication 2 = 2- 3 Publications 3 = 4-5 Publications 4 = > 5 Publications	30		
	c. Researcher Quality (number of publication in Q2) Scoring range 1 = <2 Publication 2 = 2-3 Publications 3 = 4-5 Publications 4 = > 5 Publications	20		
2	Output	40		
	a. Strategic values of the product/technology (market value, level of locally manufactured content, reduction of import, value for money etc.)	60		
	b. Intellectual property potentials	40		
3	Scientific advancements	10		
	a. State of the art;	60		
	b. Methodology	40		
Total		100		

Description:

Score: 1, 2, 3, 4 (1 = poor, 2 = fair, 3 = good, 4 = very good)

Final score: weighting factor × score

Remarks: Passing grades is 75% (from maximum results)

RISPRO-KI (International Collaboration)



Grant Details

Multi years grant (3 years)
up to IDR6 billions in 3 years with IDR2 billions each year
The grant can be extended up to 6 years in total

- 95% Direct Cost (include 30% at most (Salary))
- Including travel grant up to IDR250 millions per year.
- 5% Indirect Cost

What you cannot do with the grant

- **Buying land or property**
- **Buying operational vehicle**
- **Using for loans and mortgages**
- **Donating to others or lending others money**
- **Other expenses outside the scope of RISPRO KI**

www.lpd.kemenkeu.go.id

Guideline for the disbursement of funds

IDR2 billions per years

- 1) **70% of total disbursement per year.**
- 2) **30% of total disbursement per year.**

Disbursement criterias:

1. **The expenditure of funds is $\geq 80\%$ of previous disbursement.**
2. **The progress is satisfying.**

MER

Monitoring

- **Once per year to monitor research progress**

Evaluation

- **Once per year to decide the continuation of funding.**

Reporting

- **Progress report,**
- **The uses of funds statement, and**
- **Final report**
- **Either hardcopy or softcopy**

funded by



delivered by



RISPRO-KI (International Collaboration)



OAS

Ownership

- *The research team will manage the intellectual property.*
- *Sharing rights with research partner are possible.*

Acknowledgement

- *LPDP must be mentioned in every dissemination.*
- *LPDP logo must be visible in every presentation, promotion, and media coverage.*
- *LPDP must be written in the acknowledgement of every publication.*

Sanctions

LPDP will stop the funding or even prohibit the research team to apply for proposal for 2 years if: (1) misappropriation and embezzlement of funds; (2) PI is conducting crime; (3) plagiarism; (4) the disbursement criteria is not reached; (5) the output does not meet.



What should we do?

- Original idea (research question, methodology, innovativeness, novelty)
- Think comprehensively (inter, multi discipline)
- Partnering (national and international, WBS)
- Coordinator of the research project
- Proposal writing

thank you



Indonesian Science Fund

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24hrs CALL CENTER



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LPDP_RI



Lembaga Pengelola
Dana Pendidikan LPDP RI



LPDP_RI