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# Macam-macam Hibah Pengembangan Riset Berskala Internasional Bagi Institusi

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Oleh

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*Direktur Program Internasional IPB*

*Guru Besar Department Silvikultur, Fakultas Kehutanan IPB*



# Mitra Internasional Indonesia

## INDONESIA RESEARCH COLLABORATIONS



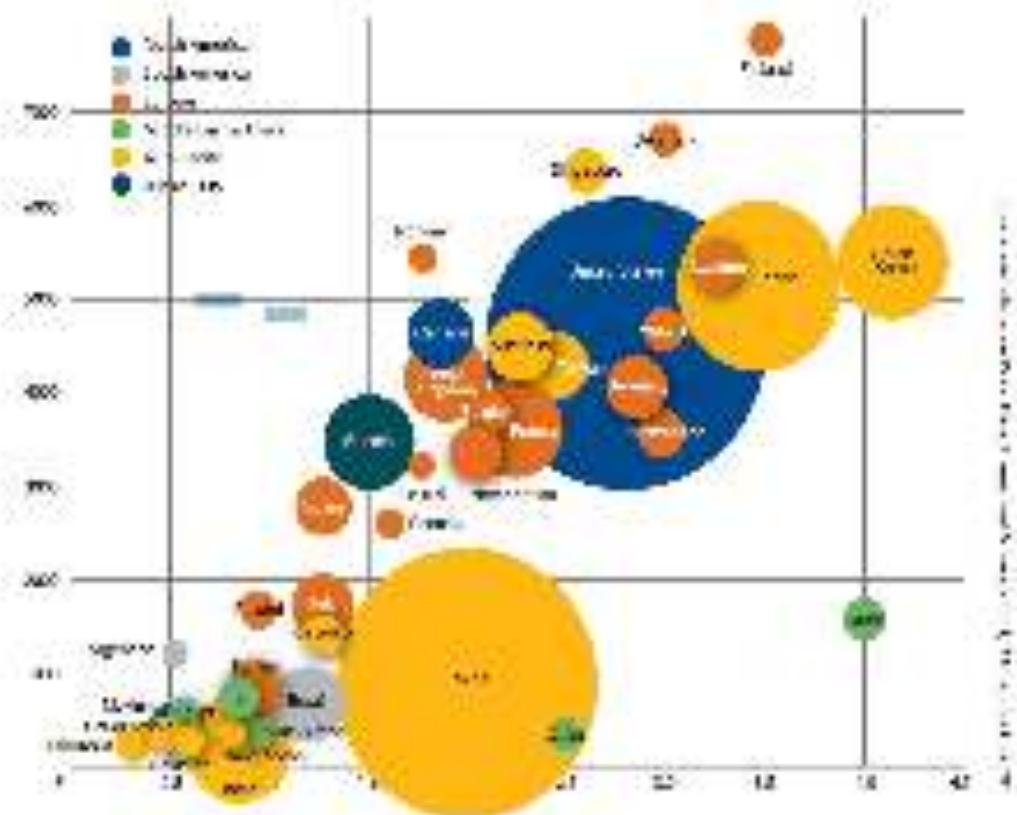
Sumber: QS Intelligent 2018



# Pengeluaran R&D Global

Forecast Growth Expenditures on R&D

	2014 Actual			2015 Forecast			2016 Forecast		
	2014 Actual	2015 Forecast	2016 Forecast	2014 Actual	2015 Forecast	2016 Forecast	2014 Actual	2015 Forecast	2016 Forecast
United States	\$359.00	\$381.00	\$403.00	\$359.00	\$381.00	\$403.00	\$359.00	\$381.00	\$403.00
China	\$250.00	\$271.00	\$292.00	\$250.00	\$271.00	\$292.00	\$250.00	\$271.00	\$292.00
Japan	\$180.00	\$189.00	\$198.00	\$180.00	\$189.00	\$198.00	\$180.00	\$189.00	\$198.00
South Korea	\$120.00	\$126.00	\$132.00	\$120.00	\$126.00	\$132.00	\$120.00	\$126.00	\$132.00
Germany	\$100.00	\$105.00	\$110.00	\$100.00	\$105.00	\$110.00	\$100.00	\$105.00	\$110.00
France	\$90.00	\$94.50	\$99.00	\$90.00	\$94.50	\$99.00	\$90.00	\$94.50	\$99.00
United Kingdom	\$80.00	\$84.00	\$88.00	\$80.00	\$84.00	\$88.00	\$80.00	\$84.00	\$88.00
Italy	\$70.00	\$73.50	\$77.00	\$70.00	\$73.50	\$77.00	\$70.00	\$73.50	\$77.00
Spain	\$60.00	\$63.00	\$66.00	\$60.00	\$63.00	\$66.00	\$60.00	\$63.00	\$66.00
Sweden	\$50.00	\$52.50	\$55.00	\$50.00	\$52.50	\$55.00	\$50.00	\$52.50	\$55.00
Netherlands	\$40.00	\$42.00	\$44.00	\$40.00	\$42.00	\$44.00	\$40.00	\$42.00	\$44.00
Israel	\$30.00	\$31.50	\$33.00	\$30.00	\$31.50	\$33.00	\$30.00	\$31.50	\$33.00
India	\$20.00	\$21.00	\$22.00	\$20.00	\$21.00	\$22.00	\$20.00	\$21.00	\$22.00
South Africa	\$10.00	\$10.50	\$11.00	\$10.00	\$10.50	\$11.00	\$10.00	\$10.50	\$11.00
Other countries	\$10.00	\$10.50	\$11.00	\$10.00	\$10.50	\$11.00	\$10.00	\$10.50	\$11.00



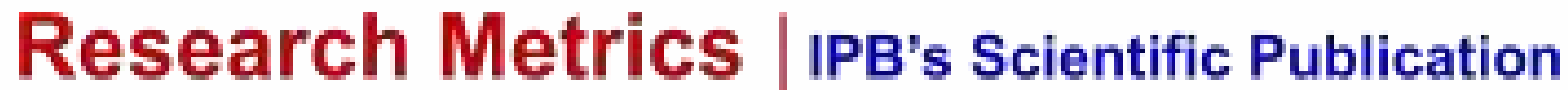
Source: Batelle (2018). The chart shows the relationship between R&D expenditure and GDP. The size of the bubble indicates the R&D expenditure, and the color indicates the region. The chart shows that the United States has the highest R&D expenditure, followed by China, Japan, and South Korea. Other countries like Germany, France, and the UK are also shown.

Sumber: Batelle (2018)



# Pembentukan Konsorsium Riset

No	Research Platforms (Consortia)	Research Area	Main Source of Funding
1	<b>CRC990 – EFFoRTS</b> (Goettingen, DE) – 2 <sup>nd</sup> Phase	<b>Ecology &amp; Socio-economy:</b> Lowland Rainforest Transformation Systems	DFG/CRC990, RISTEKDIKTI
2	<b>REDD+</b> (Copenhagen, DK)	<b>Reducing Emission from Deforestation &amp; Forest Degradation:</b> Community Monitoring	DANIDA
3	<b>ZOONOSSES</b> (Nagoya, JP)	<b>Health &amp; Biomedicine:</b> Flying Foxes & Involvement in Rabies-related Infectious Diseases	JST/SATREPS, JICA
4	<b>Australia Indonesia Center (AIC)</b> (Sydney, Monash, AU)	<b>Food/Agriculture &amp; Infrastructure:</b> Cacao, Water Sensitive Cities	AIC, RISTEKDIKTI
5	<b>EMBRIO</b> (IPB Bogor, ID)	<b>Marine Biodiversity:</b> Coral Reef & Tuna	IPB, RISTEKDIKTI
6	<b>LISAT</b> (IPB Bogor, ID)	<b>Remote Sensing/Satellite:</b> Food Security & Environmental Monitoring	LAPAN, IPB, RISTEKDIKTI
7	<b>PETUAH</b> (IPB Bogor, ID)	<b>Green Knowledge:</b> Natural Resource Management, Sustainable Agriculture, Renewable Energy	MCA-I
8	<b>Peat Fire</b> (South Dakota, USA) – 2 <sup>nd</sup> Phase	<b>Environment &amp; Climate Change:</b> Peat Fire Emission	NASA
9	<b>Agri_Insurance</b> (Chiba, JP)	<b>Food Security:</b> New Damage Assessment Process (Rice)	JST/SATREPS, JICA
10	<b>ANBIOCORE</b> (Mississippi, Rhode Island, USA)	<b>Food Security &amp; Sovereignty:</b> Beef & Coral Reef Fisheries	USAID-SHERA



$\text{C}_2\text{H}_5\text{Br} + \text{H}_2\text{O} \rightarrow \text{C}_2\text{H}_5\text{OH} + \text{HBr}$ Ethyl bromide      Ethanol	$\text{C}_2\text{H}_5\text{Br} + \text{H}_2\text{O} \rightarrow \text{C}_2\text{H}_5\text{OH} + \text{HBr}$ Ethyl bromide      Ethanol	$\text{C}_2\text{H}_5\text{Br} + \text{H}_2\text{O} \rightarrow \text{C}_2\text{H}_5\text{OH} + \text{HBr}$ Ethyl bromide      Ethanol
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# Germany

## DFG Cooperation with Developing Country

The screenshot shows the DFG website with the following content:

- DFG** Deutscher Forschungsrat
- Navigation tabs: Home, Research Funding, Research Projects, DFG in Practice
- Section: **Cooperation with Developing Countries**
- Text: "The DFG enables research cooperation between researchers in Germany and in developing countries through individual and non-individual projects. The DFG also promotes scientific cooperation between Germany and developing countries through the financing of individual scientific projects and research programs."
- Section: **Information about the Programme**
- Purpose:** "The DFG funds research projects conducted by scientists in Germany in cooperation with scientists in developing countries. The programme is designed to promote cooperation between researchers in Germany and in developing countries. It is not intended to fund research projects in developing countries directly." (Note: The text in the image is partially obscured and appears to be a placeholder or a very short summary.)
- Eligibility Requirements:** "Researchers in Germany and in developing countries must be employed at a university or research institution which is comparable with scientific education (university or research institution) in Germany."

- [http://www.dfg.de/en/research\\_funding/programmes/international\\_cooperation/developing\\_countries/index.html](http://www.dfg.de/en/research_funding/programmes/international_cooperation/developing_countries/index.html)
- Pada tahun 2003-2006, saya bersama Prof Reiner Finkeldey (Univ. Goettingen, DE) mendapatkan hibah riset dengan total dana EUR 250,000,-

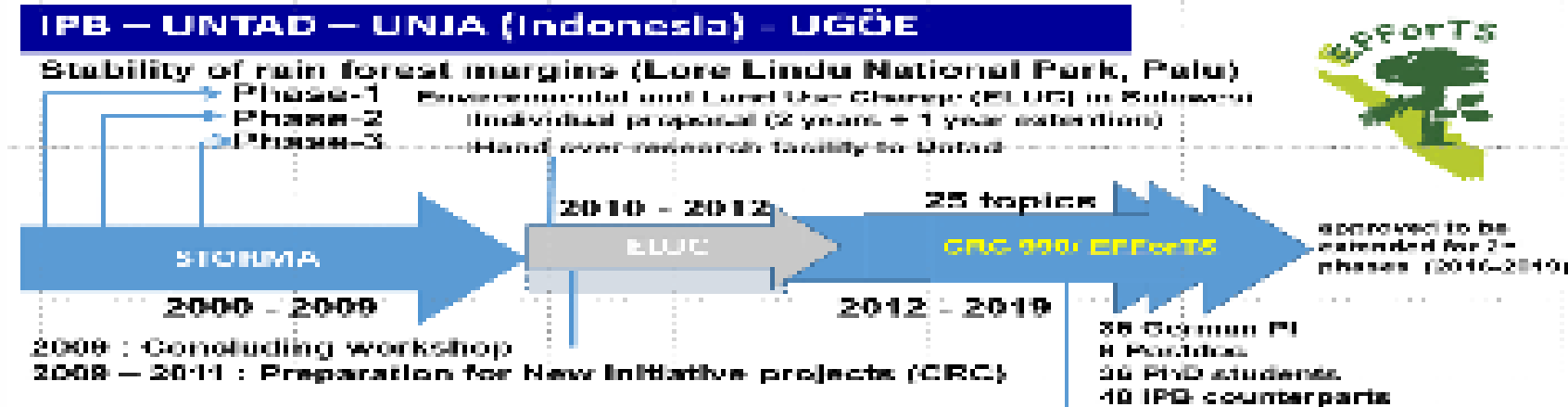


# Germany

## DFG Collaborative Research Center



- [http://www.dfg.de/en/research\\_funding/programmes/coordinated\\_programmes/collaborative\\_research\\_centres/index.html](http://www.dfg.de/en/research_funding/programmes/coordinated_programmes/collaborative_research_centres/index.html)



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USA

USAID SHERA



USAID  
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## USAID Sustainable Higher Education Research Alliances (SHERA) Program

The USAID-funded Sustainable Higher Education Research Alliances (SHERA) program was a research collaboration and university partnerships program between Indonesia and the U.S. that aimed to increase the research capacity of the Indonesian higher education sector and improve the enabling environment for quality research within Indonesian higher education institutions.





# USA

# MCAI



- MCAI (Millennium Challenge Account – Indonesia)
- Proyek Kemakmuran Hijau adalah bentuk dukungan terhadap komitmen Pemerintah Indonesia untuk mengurangi intensitas emisi karbon dan meraih masa depan yang lebih lestari.

Pembentukan Konsorsium PETUAH (Perguruan Tinggi Untuk Indonesia Hijau yang akan mendirikan 6 Pusat Unggulan di 4 provinsi target dari Proyek GP (Jambi, Sulawesi Barat, NTB dan NTT).



# USAID PEER





# EC | Horizon 2020



- <https://ec.europa.eu/programmes/horizon2020/node/115>





# Denmark | Danida Fellowship Centre



- The duration of projects is up to 3 years with a max. grant of DKK 5 million/project.
- <https://dfcentre.com/calls-for-applications-1/>



Danida Fellowship Centre

Leading the way in research and learning



# The Netherlands | NWO



- The Cooperation Indonesia-The Netherlands programme (RISTEKDIKTI-NWO).
- Topic: Food, Water & Rule of Law.
- A max. € 250,000/ project for three years.
- <https://www.nwo.nl/en>



# The Netherlands | INREF



- Interdisciplinary Research and Education Fund of Wageningen University (INREF)
- <https://www.wur.nl/en/Research-Results/Projects-and-programmes/INREF/About-INREF.htm>





# UK | GCRF



- This Programme is part of the Resilient Futures Initiative, funded by the Global Challenges Research Fund(GCRF) and delivered by the UK National Academies working together.
- Topic: innovative transdisciplinary research ideas to address global challenges
- £25,000 over one year
- <https://acmedsci.ac.uk/grants-and-schemes/grant-schemes/gcrf-networking-grants>



Rank	Company	Score	View
1	Life Learning and Leadership Seminars Franklin, Kentucky	4.9/5.0	View
2	Genius Group Leadership Seminars Little Rock, AR	4.9/5.0	View
3	Entrepreneur's University	4.9/5.0	View
4	Executive Leadership Seminars	4.9/5.0	View
5	Entrepreneurial Skills Forum	4.9/5.0	View
6	Executive Leadership Seminars Dallas, TX	4.9/5.0	View Read 2 Reviews This course is popular
7	Executive Leadership Seminars Dallas, TX	4.9/5.0	View Read 2 Reviews This course is popular
8	Executive Skills Seminars	4.9/5.0	View Read 1 Reviews This course is popular
9	Executive Skills Seminars	4.9/5.0	View Read 1 Reviews This course is popular
10	Executive Skills Seminars	4.9/5.0	View Read 1 Reviews This course is popular
11	Executive Skills Seminars	4.9/5.0	View Read 1 Reviews This course is popular
12	Executive Skills Seminars	4.9/5.0	View Read 1 Reviews This course is popular



# Japan | SATREPS

- Collaboration between the Japan Science and Technology Agency (JST) & the Japan International Cooperation Agency (JICA)
- <https://www.jst.go.jp/global/english/koubo.html>

## Minimal Requirements

### 1. Application/Proposal/Research Proposal

From September 1995, 2010 Project to November 1995, 2010 (2000-01 to 2010-03) (closed time)

### 2. How to apply

Research proposals must be submitted via J-STARS, the Online Research Grant Management System. To use J-STARS, researchers who are affiliated with a research institution must be registered first. After registration, users can apply online. And, first, the researchers must submit their research proposals to J-STARS for preliminary administrative review. Researchers who cannot afford with a research institution can apply. First, they must submit information to J-STARS in advance.



### 3. Submission of request for COA, technical cooperation

The SATREPS Science and Technology Research Partnership for Sustainable Development is implemented with COA grant. Additionally, scientific research project is set if it is necessary and relevant with the cooperation in the other country in the field of the joint research. And, in the meantime, the researchers must submit a request for COA grant to the JICA regional cooperation in ASEAN and the Ministry of Science and Technology for COA grant and business review.

**The deadline for submitting the request for COA technical cooperation is per fiscal year from 2010 to 2019.**

The request deadline used by the researchers in the request is normally one before the start of the project. However, as the request is not a grant, it is not necessary to submit a request for COA grant. If the researchers' government does not request technical cooperation, proposals prepared submitted in Japan will be considered completed and not be accepted.

## 4. Research Fields in Japan

Research Field	Research Area	Cooperation Type (JICA/JST)	Research Field	JICA/JST Status
Environment & Energy	Research contributing to environmental protection and energy conservation (Category 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 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Untuk lebih jelasnya mengenai kebijakan GIZ dan Indonesia, berikut ini kami sajikan daftar pertanyaan yang akan kami angkat dalam diskusi publik ini. Kami berharap diskusi ini dapat memberikan informasi yang lebih komprehensif mengenai kerja sama antara GIZ dan Indonesia di berbagai sektor. Kami mengundang Anda untuk berpartisipasi dalam diskusi ini dan menyampaikan pertanyaan atau tanggapan Anda. Kami akan berusaha menjawab pertanyaan-pertanyaan tersebut. Kami akan berusaha memberikan informasi yang lebih komprehensif mengenai kerja sama antara GIZ dan Indonesia di berbagai sektor. Kami mengundang Anda untuk berpartisipasi dalam diskusi ini dan menyampaikan pertanyaan atau tanggapan Anda. Kami akan berusaha menjawab pertanyaan-pertanyaan tersebut.

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Nota penting pemerintah (Ministry Exchange Program, DPM/AS/STIM) Joint Assets Project, kegiatan pertukaran budaya dan tenaga pemerintah, namun paragraf yang berkaitan dari negosiasi di lapangan ternyata laporan hasil kegiatan tersebut dinilai oleh dan terburu dan tidak sesuai dengan kenyataan.

## a. Pelamar di Indonesia

1. Penanggung jawab kegiatan merupakan pendidik (dosen) tetap (memiliki SIKS) di lingkungan Kementerian/lembaga dan bekerja secara penuh waktu;
2. Penanggung jawab kegiatan telah memiliki gelar Doktor (SD) atau yang setara sesuai dengan ketentuan Kementerian/lembaga;
3. Mendapatkan izin dari pimpinan perguruan tinggi negeri (bagi dosen tetap PTN) atau koordinator Eksperts Wilayah (bagi dosen PTS);
4. Tidak sedang menerima honoraria atau bantuan pendanaan serupa dari sumber lain (double funding);
5. Wajib menyampaikan laporan ke Direktorat Bina Etno Sastra Budaya Minatwa, Papua SDH – Kementerian/lembaga;

14. *Mittra Polaxar di Lepenz*

1. Mitra pameran merupakan individu (pessoa) atau pribadi yang bekerja secara profesional pada perguruan tinggi atau lembaga penelitian di Jepang.
2. Mitra pameran telah memiliki gelar Doktor/PhD atau yang sedang menempuh pendidikan dari program dokumennya.
3. Mitra pameran memiliki akses ke SPN.

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The  $\chi^2$  test requires that the expected number of subjects per cell is at least five. In the present study, the expected number of subjects per cell was less than five in the majority of cells. Therefore, the  $\chi^2$  test was not used. Instead, the Fisher's exact test was used to examine the relationship between the two variables. The Fisher's exact test is a non-parametric test that is used to examine the relationship between two categorical variables. It is based on the hypergeometric distribution. The Fisher's exact test is used when the sample size is small and the expected number of subjects per cell is less than five. The Fisher's exact test is a more powerful test than the  $\chi^2$  test in these situations. The results of the Fisher's exact test are presented in Table 1. The results show that there is a significant relationship between the two variables,  $p < 0.05$ .

[illegible]

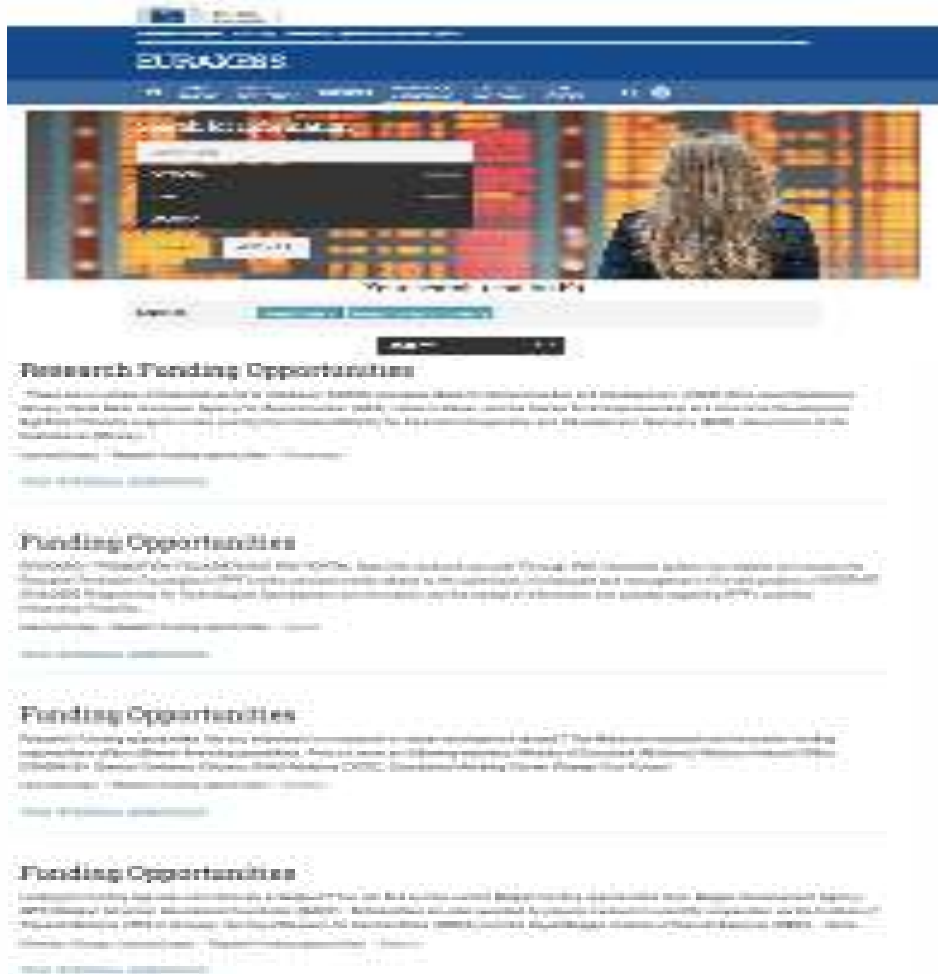
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- Sebagian besar kemitraan pendidikan tinggi baik riset maupun kegiatan akademik lainnya mendapatkan jangka waktu pendanaan yang terbatas
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- Penyiapan dana pendamping sebagai faktor pengungkit menjadi penting
- Rencana tutup proyek perlu dipersiapkan

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