

Participation of Indonesia in FNCA Activities

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The National Research and Innovation Agency (BRIN)

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National Research and Innovation Agency (BRIN)



BRIN

THE NATIONAL RESEARCH AND INNOVATION AGENCY

The National Research and innovation Agency (BRIN):

- * a new government institution under the President of the Republic of Indonesia
- to carry out integrated research, development, assessments and applications, inventions and innovations, as well as nuclear and space management.

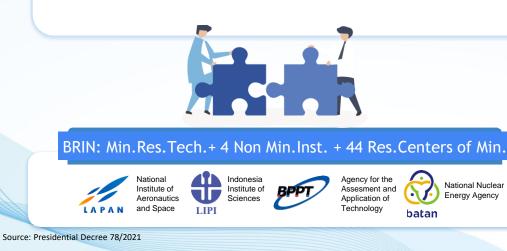
Source: Presidential Decree 78/2021

National Research and Innovation Agency (BRIN)



BRIN

- Not under coordination of any ministries / coordinating ministries.
- Integrating all (human, infrastructure, budget) resources and research fields of 48 governmental research institutions across ministries and institutes.
- Start of Implementation: August 2021,
- Full transformation into single entity of BRIN: 1 January 2022.



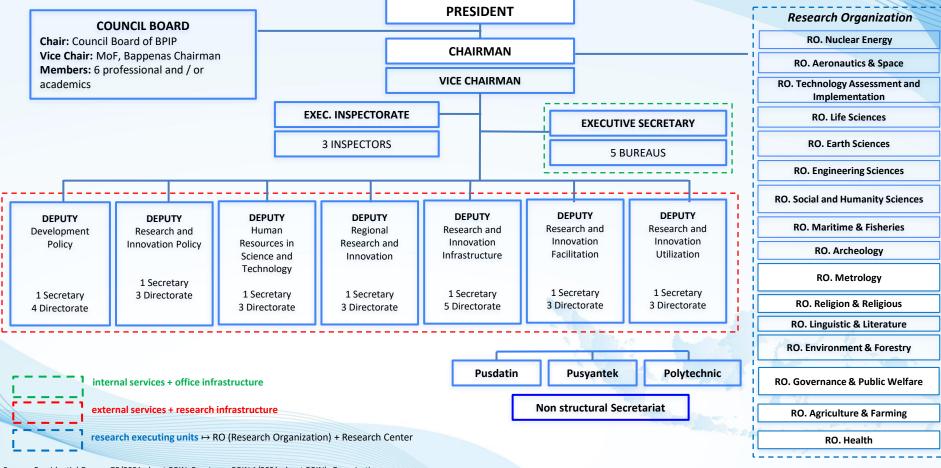
BRIN is mandated to overcome low critical mass of research resources in Indonesia to:

- Improve research capacity and competences, in particular in term of research infrastructures.
- Attract the young talents on research to join and to contribute in any research activities in Indonesia.
- Support global engagement and collaboration → speed up knowledge and skill transfer through research collaborations.
- Enable government as a facilitator / enabler for local business players to conduct R&D based product development with very low investment.

Constitution 11/2019 about National System for S&T Constitution 21/2013 about Space Constitution 25/2004 about National Development Planning System Constitution 10/1997 about Nuclear

BRIN's Organisation





Source: Presidential Decree 78/2021 about BRIN, Peraturan BRIN 1/2021 about BRIN's Organization

Current Participation of Indonesia in FNCA Activities



Radiation Utilization Development for Industrial/Environmental/Agricultural Utilization:

- Mutation Breeding
- Radiation Processing and Polymer Modification for Agricultural, Environmental and Medical Applications
- Research on Climate Change

Radiation Utilization Development for Healthcare Utilization

- Radiation Oncology
- Research Reactor Utilization Development
 - Research Reactor Utilization
- Nuclear Safety Strengthening
 - Radiation Safety and Radioactive Waste Management
- Nuclear Infrastructure Strengthening
 - Nuclear Security and Safeguards

Future Participation of Indonesia in FNCA Activities

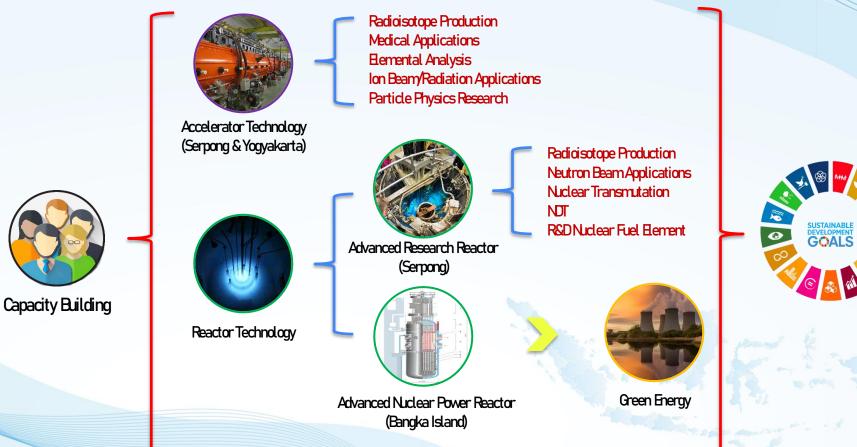


 Continue the previous participation (down streaming nuclear application activities) by encouraging more young talents

- Preparing a new national strategic plan in nuclear science and technology for achieving the SDGs
 - Revitalization of the existing reactor, neutron beam, accelerator and irradiation facilities;
 - Development newfacilities of advanced research reactor and high-energy accelerators;
 - Global platform for research and development on NPP technology in Bangka island;
 - Capacity building in nuclear science and technology (± 300 PhD and thousands trained talents);

Strategic Plan on Nuclear Science and Technology

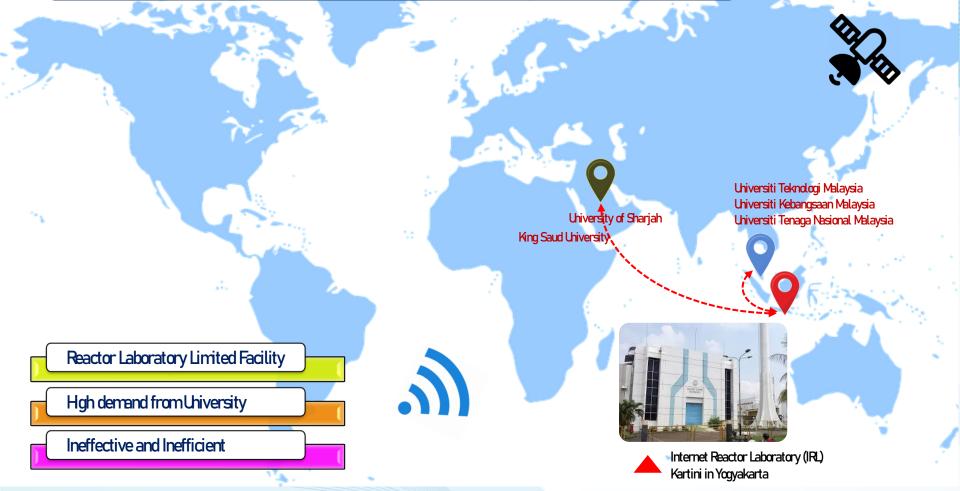




Global Collaboration, Support & Engagement

Promoting World-wide Nuclear Education









- Future collaboration in the FNCA framework is required;
- Revitalization and development of new facilities for accelerator and research reactor are being set based on co-development, global engagement and transfer technology framework;
- Capacity building in human resources on accelerators and research reactor technologies are focused to fulfill the enhancement of accelerator and research reactor utilization;
- Development of aging management program for RR, parallel with development of annex nulear facilities related to Safety, Security and Safeguards;
- In conjunction with education, Internet Reactor Laboratory (IRL) is established, promoted and keep ongoing developing the system to enhanced accessibility around the world study on Research Reactor



THANK YOU

Badan Riset dan Inovasi Nasional the National Research and Innovation Agency

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