

## Japan Agency for Research and Development (AMED); Its Missions and Challenges December 8<sup>th</sup>, 2017

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### 国立研究開発法人日本医療研究開発機構

Japan Agency for Medical Research and Development

#### Established : April 1, 2015

#### <History>

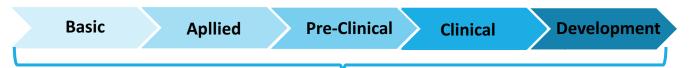
- Japan Revitalization Strategy(June 2013)
- Act on Promotion of Healthcare Policy(May 2014)
  - Headquarters for Healthcare Policy
  - The Healthcare Policy
  - The Plan for Promotion of Medical Research and Development

(July 2014, revised February 2017)



#### •AMED aims to act as a 'control tower' that directs integrated research, from basic research to practical application

Our goal is to fast-track medical R&D that directly benefits people, not only by extending lifespans, but also by improving quality of life.

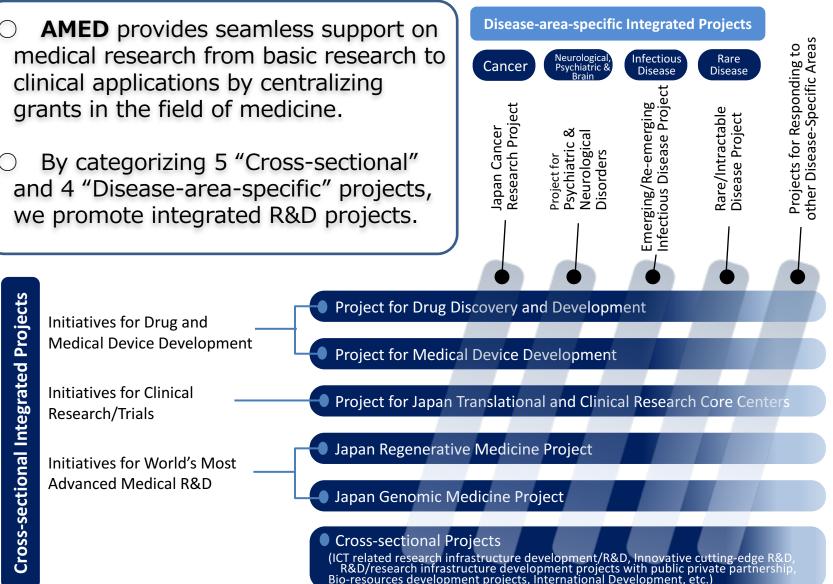


provides sufficiently seamless funding, from basic research to practical application...

- Implementation of medical research and development
- Improvement of the infrastructure for clinical research, etc.
- Improvement of the quality of clinical research and Clinical data management
- Support for industrialization
- Promotion of international strategy

# **R&D** Projects in AMED



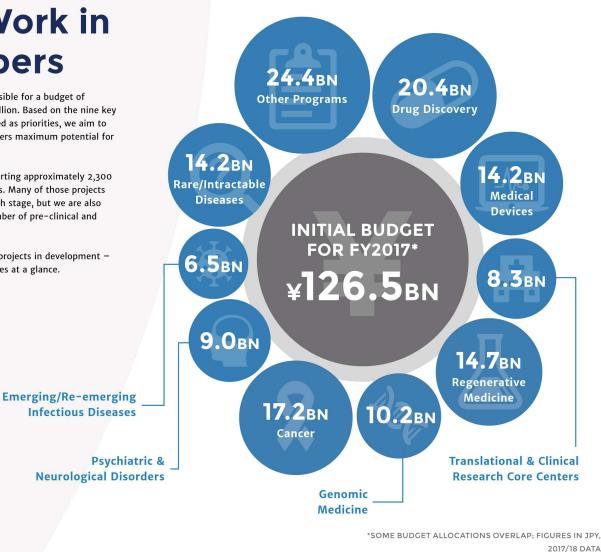


## **Our Work in Numbers**

In 2017, we are responsible for a budget of approximately ¥126 billion. Based on the nine key fields we have identified as priorities, we aim to ensure all spending offers maximum potential for beneficial outcomes.

We are currently supporting approximately 2,300 projects in 24 countries. Many of those projects are in the basic research stage, but we are also supporting a large number of pre-clinical and clinical studies.

Budget allocation and projects in development all of AMED's key figures at a glance.



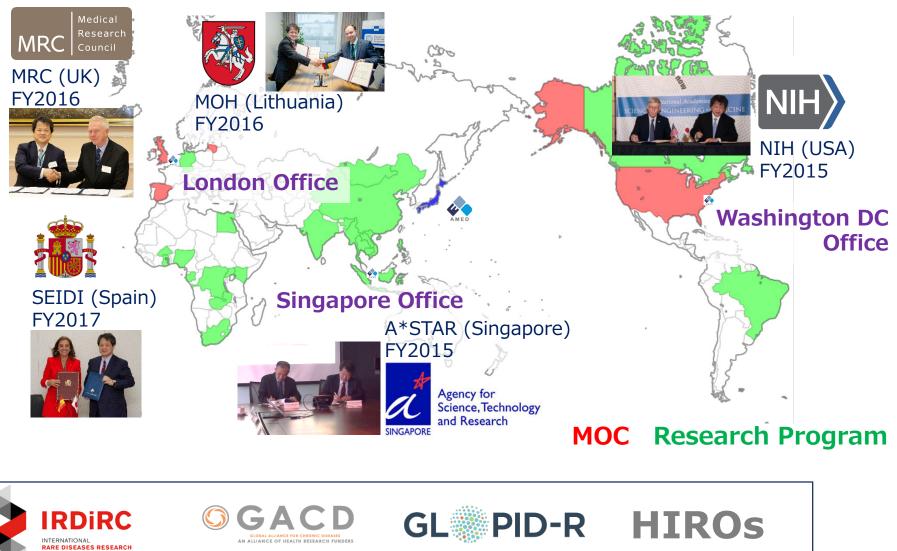


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# **International Collaboration**







CONSORTIUM





Global Alliance for Genomics & Health

### **International Projects on Infectious Disease**

Legend

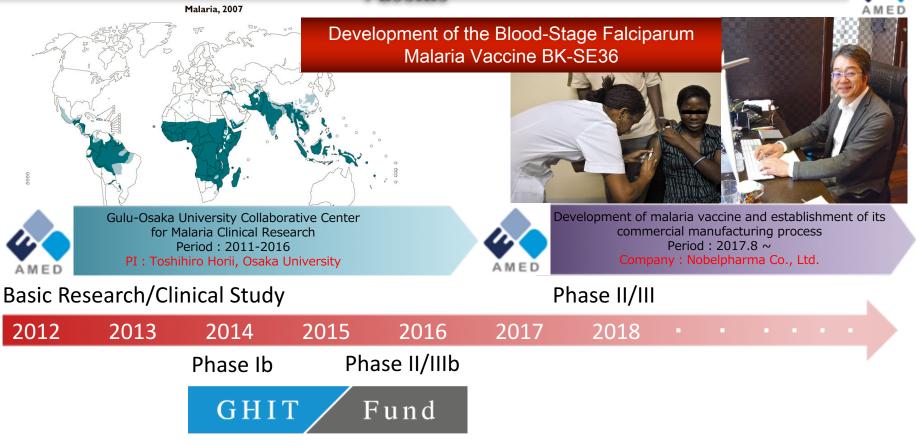
SATREPS e-ASIA ANTDs AUSJCMSP (★JGRID)

Regions		Disease						
	Countries	AIDS, TB and Malaria	NTD	VHFs	Viral Fever	Diarrhea	AMR	Others
Africa	Zambia	■ <b>TB(2008)</b> ★TB(2015)	■Trypanosomiasis (2008) ◆ Leprosy, Trypanosomiasis (2015)	■VHFs (2012)				■Influenza (2012)
	Ghana	■HIV (2009), AIDS (2015)	■Helminths (2009) ★Dengue fever (2015)	■Lassa fever, Ebola (2015)	★Chikungunya (2015)	■Cholera (2015)		
	Kenya		◆Leishmaniasis (2015)		■Yellow fever, Rift Valley fever (2011)			
	Republic of South Africa	■Malaria (2013)				■Cholera (H25)		■Pneumonia (2013)
	Burkina Faso		◆Dengue fever (2015)					
	Gabon			■Ebola (2015)				
Middle East	Turkey		■Leishmaniasis (2016)		■West Nile fever (2016)			
Asia	China	★HIV/AIDS(2015)	★Dengue fever (2015)		★Chikungunya (2015)	★Cholera (2015)		★Influenza (2015)
	Thailand	■ <b>TB(2014)</b> ▲ Malaria (2016)	■Dengue fever (2008) •Liver fluke (2015) ★Dengue fever (2015)		●SFTS (2015) , ★Chikungunya (2015)	★Cholera (2015)		▲ Amoebiasis (2016)
	Indonesia	■Malaria (2014) ★HIV/AIDS(2015)	■Dengue fever (2009) ■Rabies (2014) ★Dengue fever (2015)		•SFTS (2015)	★Cholera (2015)	•ESBL (2016)	<ul> <li>■Hepatitis C (2009)</li> <li>■Amoebiasis (2014)</li> <li>◆Influenza (2015)</li> </ul>
	Philippines	•TB(2013) •Malaria (2015)	■Rabies (2017) • Dengue fever (2013) ★ Dengue fever (2015)		●SFTS (2015) ★Chikungunya (2015)	★Norovirus (2015)	★ESBL (2015)	<ul> <li>Leptospirosis (2009)</li> <li>Respiratory Diseases (2010)</li> <li>Influenza 2013)</li> </ul>
	Bangladesh		■Leishmaniasis (2010)					
	Viet Nam	●TB(2013) ★HIV/AIDS(2015)	●Dengue fever (2013) ★Dengue fever (2015)			★Cholera (2015) ▲Cholera (2016)	■ESBL (2011) ●ESBL (2016)	●Bird flu (2015) ★Bird flu(2015)
	Laos	■Malaria (2013)	<ul><li>Liver fluke (2013)</li><li>Liver fluke (2015)</li></ul>					
	Cambodia		•Liver fluke (2016)					
	Myanmar	●Malaria (2015) ▲Malaria (2016)	•Dengue fever (2016)					★Influenza (2015)
	India					★Cholera (2015)		
	Mongolia							■Animal Protozoan (2013)
Latin America and the Caribbean	Brazil						■Mycosis (2016)	■Mycosis (2009)
	El Salvador		■Chagas' disease (2017)					

# AMED & GHIT are continuing to support on Development of Malaria







Global Health Innovative Technology Fund

#### 2013.11.08

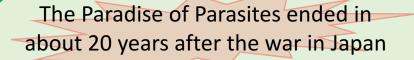
#### Japanese Fund Moves Quickly to Invest in Promising Technology Against Malaria, Tuberculosis And Chagas Disease

For malaria, a disease that sickens more than 200 million people each year and kills more than 650,000, the GHIT Fund will fund four new research and development (R&D) investments. The first is with the Research Institute for Microbial Diseases (RIMD) at Osaka University, in partnership with the Medical Center for Translational Research, Osaka University Hospital and Gulu University in Uganda, for roughly US\$735,000 to test their newly formulated **BK-SE36** malaria vaccine. 出典:https://www.ghitfund.org//



# History of control of parasitic diseases in Japan

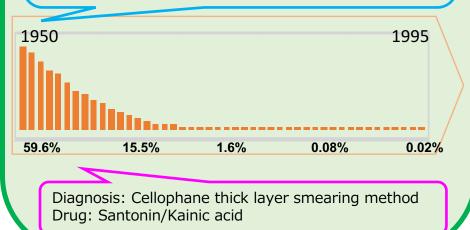




"Parasite Prevention Law (1931)"

"Council on the prevention of roundworms (1947)" "Outline of group isolation against roundworm-infected people"

Regular group checkups for schoolchildren, population anthelmintism





Dr. Satoshi Omura He saved 200 million people from Africa and around blindness



Satoshi Ōmura, a Japanese microbiologist, was awarded The Nobel Prize in Physiology or Medicine

2015, with C. Campbell, an American biologist, "for their discoveries concerning a novel therapy against infections caused by round worm parasites". Development of Rapid Diagnostics and Establishment of Alert System for Outbreaks of Yellow Fever and Rift Valley in Kenya





The Sixth Tokyo International Conference on African Development (TICAD VI) Contribute to the eradication of infectious diseases by linking research results to Africa's inclusive innovation.



"Science and technology innovation (STI) cooperation" between Japan and African countries was considered effective for sustainable development in Africa, and it was confirmed that further promotion of science and technology innovation cooperation is important for inclusive innovation





Discussions were held for multilateral collaborative research and activities to promote project outcomes between Japanese researchers and African officials to promote health systems and strengthen response to public health crisis including improving surveillance capacity.

Development of simultaneous rapid diagnostic kit such as Ebola hemorrhagic fever and early warning system of infectious diseases in cooperation with Ministry of Health of Kenya to spread throughout Kenya.



#### From 20 Countries, 400 Participants

