

BIOBANKING TO INNOVATION

Koh Furuta¹, Hiroki Nakae², Kazuhiko Okano³, Shin-ichiro Fujii⁴, Koichiro Yuji⁵, Yoshihito Nakajima⁶, Junko Ikeda², Hiroyuki Kobayashi⁷, Naoko Shobayashi², Tatsuaki Tsuruyama⁸, Hiroyuki Uchiyama⁹, Yasunari Yamanaka¹⁰

- 1. Kanagawa Cancer Center Hospital, Yokohama, Japan. 2. Japan Multiplex bio-Analysis Consortium, Tokyo, Japan. 3. Council for Industrial use of Biological and Environmental Repositories, Tokyo, Japan.
- 4. Bio-Medical Standards Group, National Metrology Institute of Japan National Institute of Advanced Industrial Science and Technology, Tsukuba, Japan. 5. Project Division of International Advanced Medical Research,
- Institute of Medical Science, the University of Tokyo, Tokyo, Japan. 6. LPD Marketing Manager, Thermo Fisher Scientific Japan, Tokyo, Japan. 7. Axcelead Drug Discovery Partners, Inc., Fuijisawa, Japan.
- 8. Department of Drug and Discovery Medicine, Pathology Division, Graduate School of Medicine, Kyoto University, Kyoto, Japan. 9. Nissui Pharmaceutical Co. Ltd., Tokyo, Japan. 10. RIKEN, Tsukuba, Japan

BACKGROUND **INNOVATION BACKGROUND FACILITATION** Accumulation of bio specimens and Facilitate to access the associated data accumulated bio specimens and associated data Increased installation of More efficient biobanking facility CIBER research and Increased industrial development in needs of bio specimens both academia and associated data and industry Biobanks in Japan need ISO 20387 Biotechnology Biobanking — General to link with each other Requirements for Biobanking and network

CIBER PROSPECTUS

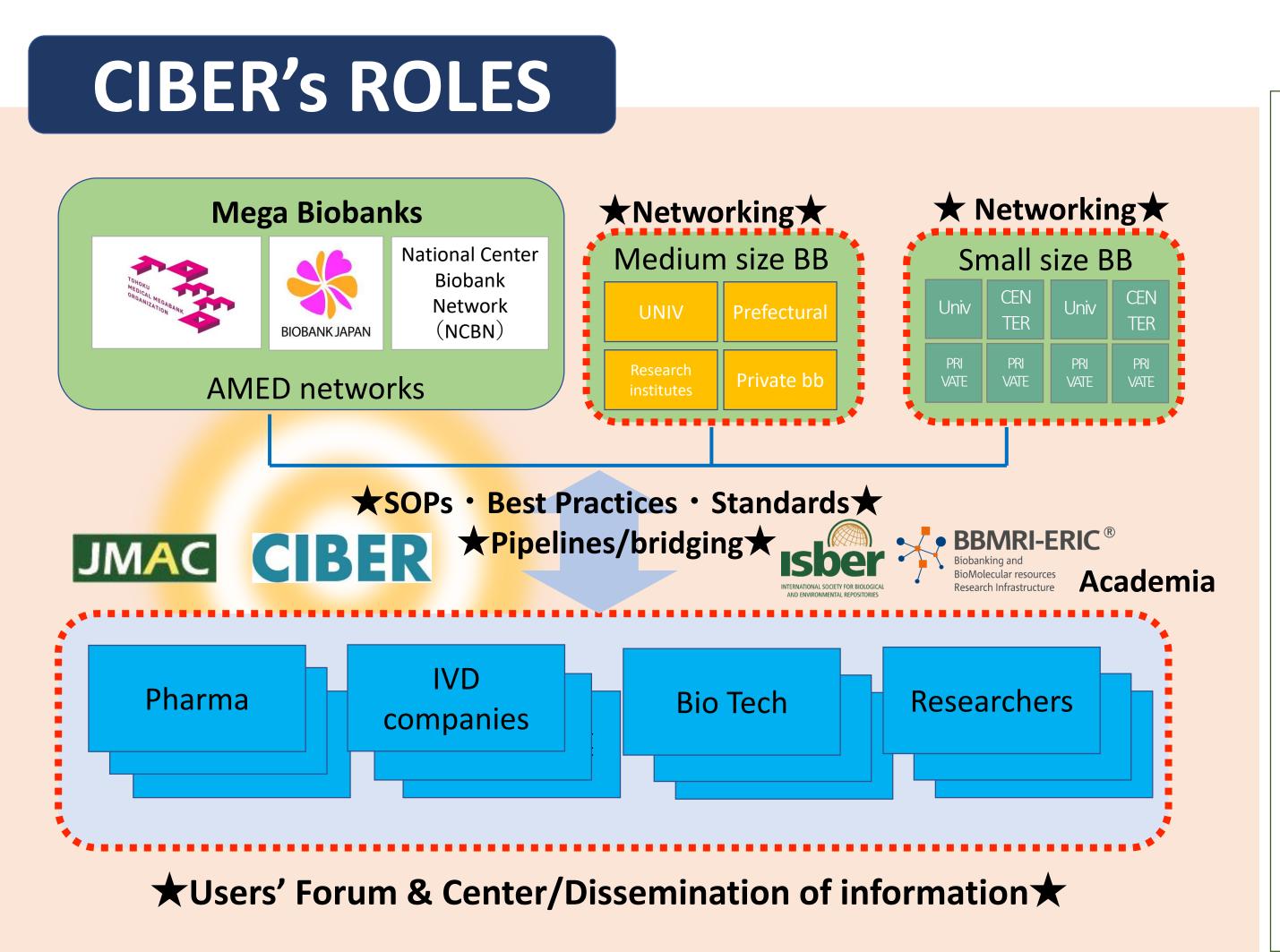
The direction of the current medical services in the world is towards the precision medicine based on the genomic medicine. One of the infrastructures of this environment is the storage and/or utilization of bioresources including data. At this point in time, discussions regarding standardization are started in the ISO framework. Some criticized that standardization is negative to progress in technologies. History tells us, however, in some situation standardization may be positive to innovation if direction of standardization is properly placed.

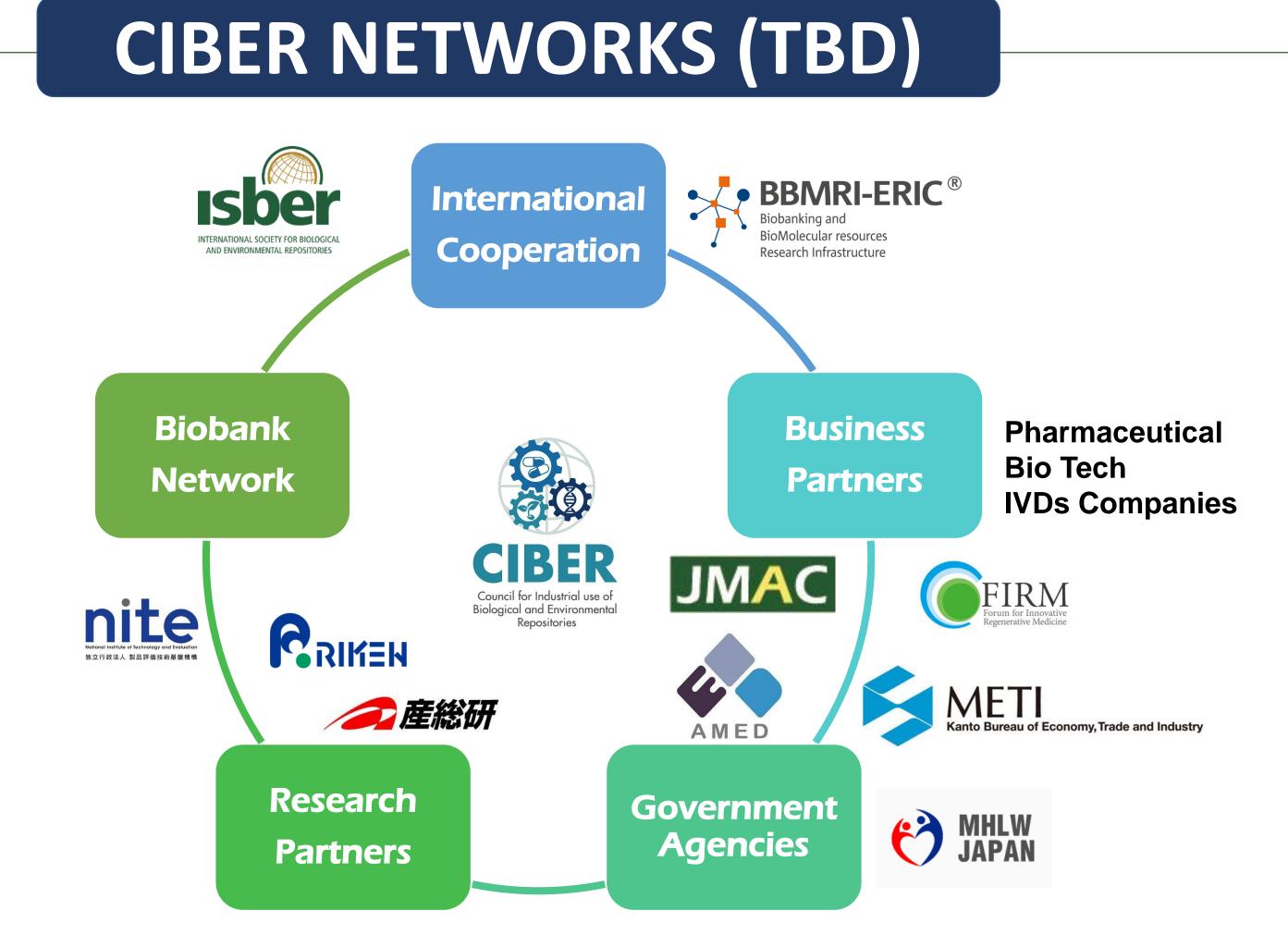
We can say that discussions shall be driven by users of biorepositories, not by providers. History indicates us again that innovations are with users of technologies. Although the precision medicine seems promising, some critics point out that the precision medicine may produce medical divide. One solution to these inputs could be to set up the opened framework of biological and environmental repositories. Considering the roles of biological and environmental repositories, it is urgent for the current generation to prepare and maintain this framework in a sustainable way.

Along with declining birthrate and the following population aging, it is easily assumed that public funds may not afford to provide supports to all the social infrastructures. Under these circumstances, users of biological and environmental repositories as private partners are expected to participate to this framework in a proactive and pre-competitive manner.

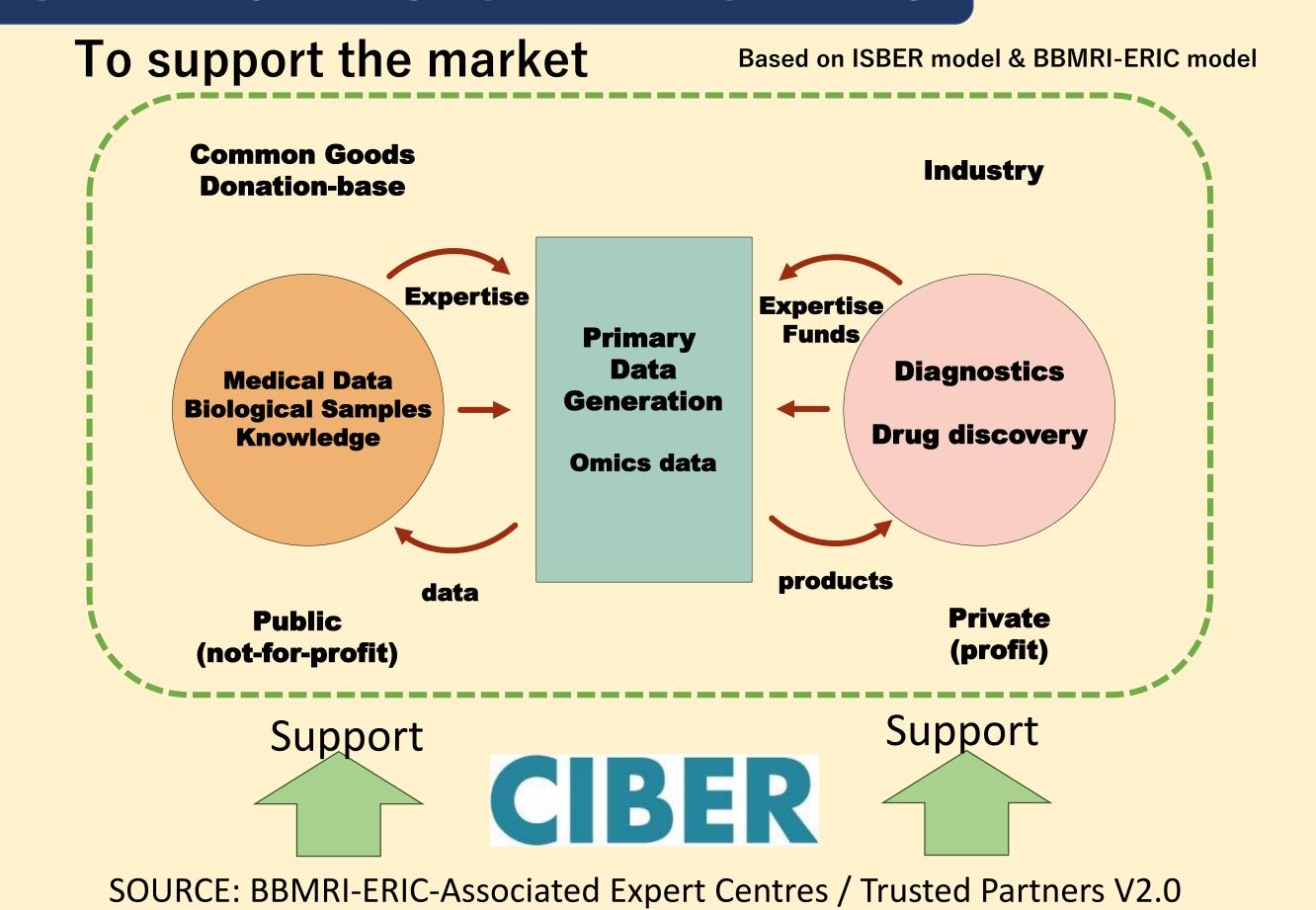
We, mainly users of biological and environmental repositories, decided to network horizontally and further set up a corporation of "Council for Industrial use of Biological and Environmental Repositories (CIBER)" to commit to support a part of roles of medical infrastructure under international standards. Goal of a corporation of "Council for Industrial use of Biological and Environmental Repositories (CIBER)" is to support the social infrastructure without medical divide not only to ourselves but also to our next generations.

2018, January 22 Founders





CIBER'S BASIC PRINCIPLES



https://ciber.or.jp/

CONCLUSIONS

The non-profit organization, CIBER, based in Tokyo Japan supports the followings:

- i. to facilitate setting up business models to meet the needs of users/customers.
- ii. to facilitate applying internationally common platforms, standardized methods, and best practices.
- iii.to facilitate setting up conformity assessment eco system including self-assessment, contract, and/or certification/accreditation.
- iv.to facilitate innovations in the biotechnology field.



Council for Industrial use of Biological and Environmental Repositories

Head Office Location: 6F Sanseido bldg. 2-4-10, Koujimachi, Chiyoda-ku, Tokyo 102-0083 JAPAN
Established in: January 22 2018
Chairperson: Koh Furuta M.D., Ph.D.
Contact: info@ciber.or.jp