IBI Data Standards and Sharing Working Group
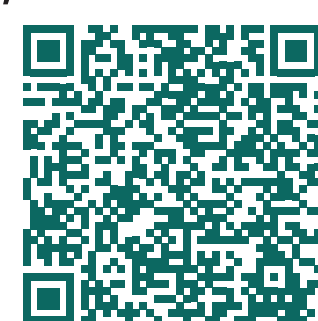
International Brain Initiative (IBI), launched in 2017, brings together some of the world's major brain research projects from **Australia, Canada, China, Europe, Japan, South Korea and the US**. The IBI established working groups (WG) to help deliver the aspirational goals. These groups include all member countries of the IBI to ensure that nothing is being left behind in the progress to catalyze and advance neuroscience research globally. Five WGs are the key to the activities of IBI. Although Japan is participating in all of the WG activities, this country plays the coordinating role in the **IBI Data Standards and Sharing Working Group**.
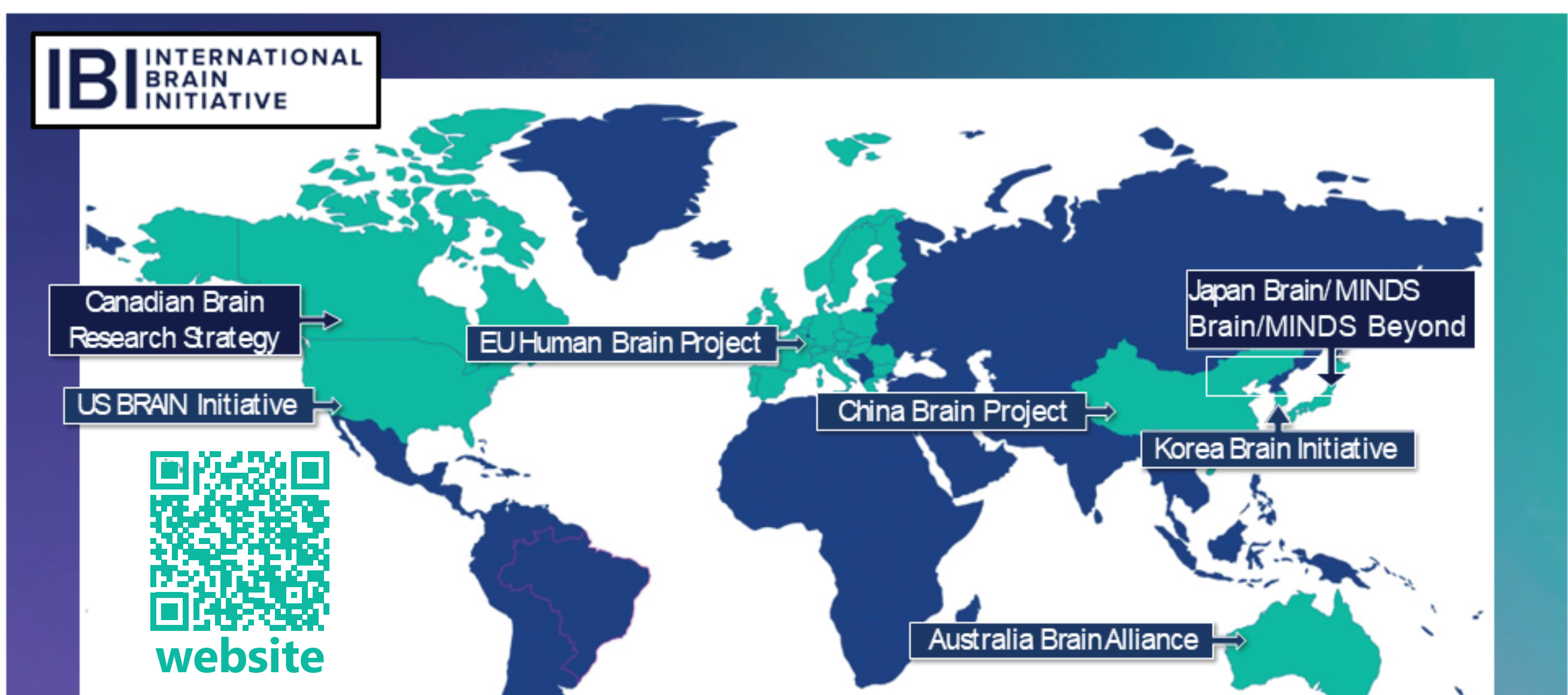
Aim and Organization

IBI Data Standards and Sharing WG aims to facilitate discovery, harmonization and use of data across the IBI participants and other global research initiatives, international neuroscience-relevant societies, and neuroscience researchers through the following:

• implementing mechanisms for searching across datasets
• assuring data interoperability
• developing data federation strategies
• understanding data governance policies of different initiatives
• promoting clear data governance policies to facilitate international collaborations
• establishing training programs on data standards and best practices.

WG page

To accomplish its aims the WG has established **three task forces (TF)** to address key areas of concern. **Japan Brain/MINDS Beyond Promotion and Support Office (NIPS)** serves as the secretariat of this WG.

website

Vision:
Catalyzing and advancing ethical neuroscience research through
a. international collaboration and knowledge sharing
b. uniting diverse ambitions to expand scientific possibility
c. disseminating discoveries for the benefit of humanity

Aspirations:
a. Promote coordination & leadership
b. Transcend borders
c. Share and disseminate knowledge
d. Shaping the future
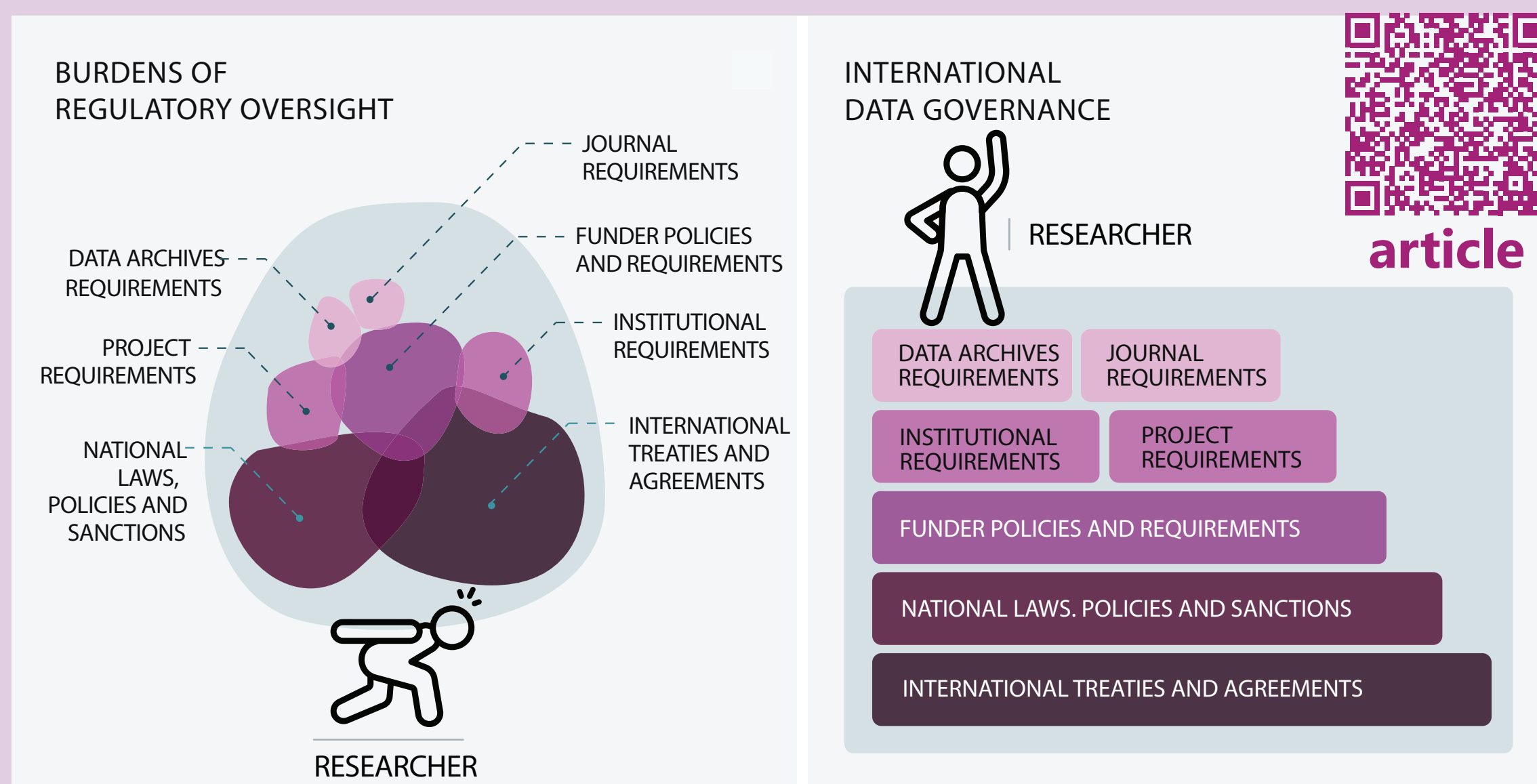
IBI Data Standards and Sharing WG

Co-chairs
Kenji Doya (OIST, Japan)
Maryann Martone (UCSD, USA)

Chair-elect (2023)
Franco Pestilli (UT Austin, USA)

→ **Data Governance TF**
→ **Data Catalog TF**
→ **Training TF**

Activity Highlights

Data Governance TF (chair: Damian Eke; co-chair: Franco Pestilli; Takashi Hanakawa from Japan) has surveyed data governance policies of brain initiatives participating in the IBI and published a position paper entitled "**International data governance for neuroscience**" in Neuron. In this paper, the authors consider how to approach data governance in a way that balances data protection requirements and the need for open science so as to promote international collaboration, through federated constructs such as the IBI.
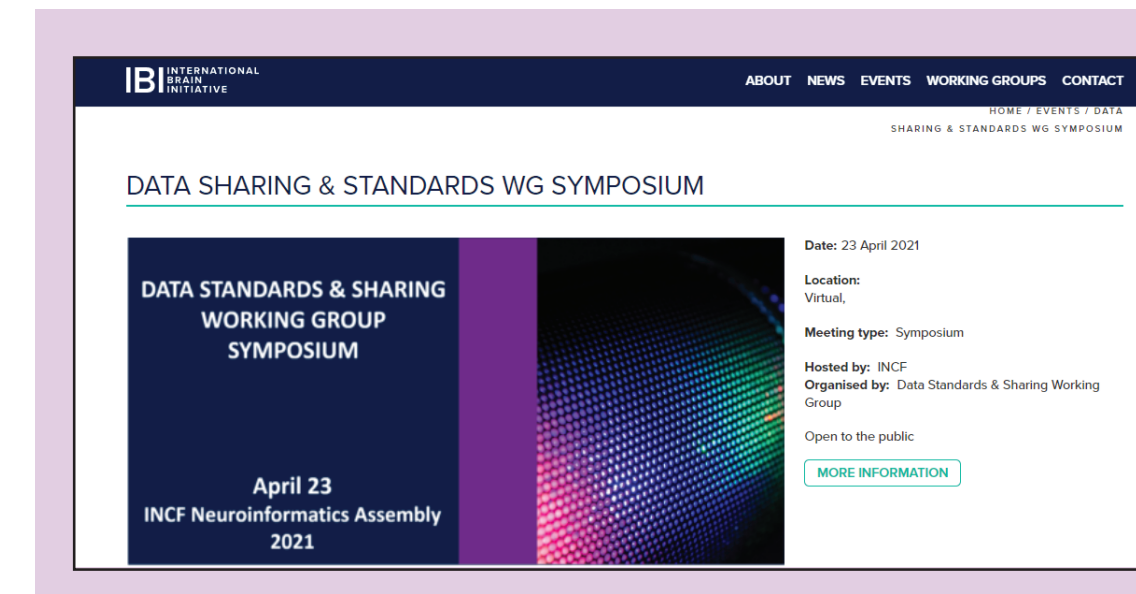

article

Eke et al., International Data Governance for Neuroscience. Neuron, 2022

Training TF (chair: Sharon Crook, co-chair: Tina Kokan; Kenji Doya from Japan) collects information about training in data sharing by different initiatives and aims to identify unmet needs and to plan its own training events. The TF organized a Workshop on Data-driven Modeling Workflows at CNS*2021(https://asuiconlab. github.io/CNS2021Workshop/).

Data Catalog TF (chair: Sean Hill; co-chair: Tom Johnstone; Alexander Woodward from Japan) has explored the mechanism for searching varieties of data across initiatives and assuring interoperability. Cross search has been implemented in KnowledgeSpace (https://knowledge-space.org) by Human Brain Project (HBP), International Neuroinformatics Coordinating Facility (INCF), and the Neuroscience Information Framework (NIF).

Data Sharing Symposium: This WG successfully arranged the IBI symposium on Data Sharing as part of the INCF Neuroinformatics Assembly 2021. This event covered the WG's recent progress and two keynote talks highlighted what we should do in promoting fruitful data sharing.

Data Standards and Sharing Roundtable (Tokyo)
Japan Agency of Medical Research and Development (AMED) and the Kavli Foundation co-hosted the Data Standards and Sharing Roundtable in Tokyo (Jan.12-13, 2020). This event led to a successful beginning of this WG.

This WG is organizing a satellite event at the SfN Neuroscience 2022 which will include an open symposium and a meeting with the IBI Funders Collective. This event will play a vital role in proceeding to the next phase of the WG activities.

Neuroscience 2022

See you in San Diego!