

JBIF Node strategy (2017-2022)

1. Provide relevant data to the science and the society

- 1) Provide education to both data users and data providers.
- 2) Collect data usecases, and improve data exploitation.

2. Enhance infrastructure

- 1) Stabilize IPT operation.
- 2) Empower governance and activity in S-Net.

3. Improve data quality

- 1) Work on error reduction.
- 2) Provide infrastructure to improve quality of
- 3) Support capacity building to the people at tl

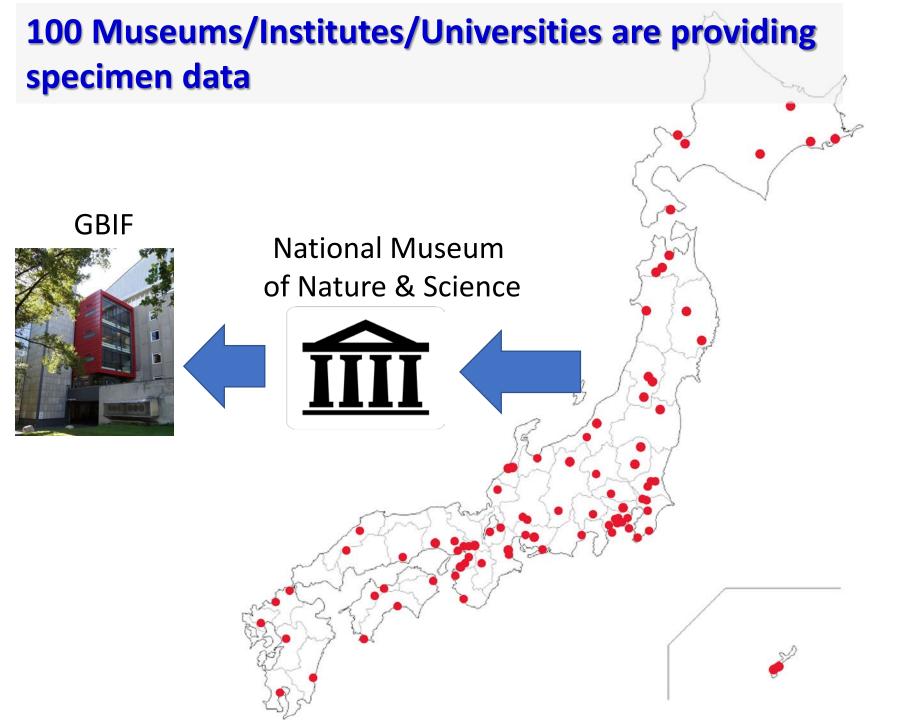
4. Fill data gaps

- 1) Grasp status of the present domestic natura cumulated biodiversity data.
- 2) Data analysis of data currently provided from
- 3) Empower calls to data holders to provide da....
- 4) Popularize new data types.

5. Empower engagement with relevant activity

- 1) Increase opportunity for information exchange with local museum/institutes.
- 2) Demonstrate leadership in collaborative activities within Asia.
- 3) Empower engagement through collaboration with relevant activity and research community.

Key points: Promotion for Data publishing Data use Data cleaning Engagement



Major activities

Meeting

- Annual symposium for Biodiversity Informatics (for general public, researchers).
- Training course (for researchers).
- Research meeting (for researchers; collecting use case, exchanging information).
- Outreach meetings in local areas (to expand engagement with other museums).
- Facilitation
 - Search for the "sleeping data" (undigitized legacy data).
 - Providing curators directories (Who's who for curators).
 - Data exploitation from the website.
 - Dictionaries.

Education

- Translation of GBIF documents/website.
- Brochures.
- Guide for data digitization.
- Data mobilization
 - Exploiting a mechanism of S-Net (mapping of data).
 - Providing tools (eg Red Data checker).
 - Dictionaries (eg Local names)

Major challenges

Lack of incentives Offer Re-formatting fee to adjust DwC

Language barrier Translation of GBIF Website Providing materials in Japanese

Science Musuem Net (S-Net)

http://science-net.kahaku.go.jp/

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この「ワイエンスミュージアムネット」は、三に2つの構成サイトがら構成されています。 「国际完善が開始成式」は立刻の特徴部分所有する「様本部規」と「採用に数する考明」が様式できます。 <u>構成、デープによー 気</u> ● 数型実績本情報 〇 万 デーダセット 〇 研究員・学習具	機関名(日本語) <u>北海道大学総合博物館(144)</u> 富山市科学博物館(<u>38)</u> もっと見る	該当件数: 388 件 (1-20件目) 20 ∨ 件ずつ表示 ソート順
\$100MB ▼	コレクションコード plant (91)	No 学名 和名 記録年月日(始め) 国(日本語) 都道府県(日本語) 機関名(日本語)
	plain <u>((91)</u> Insect (80) <u>もっと見る</u>	1 Fraxinus mandshurica Pupr. var japonica Maxim. ケ灰市立自然史 博物館(領物)
「部門使事本時時失言」は主張の時代語号が所有でる「電本時時」と「時期に知てる頃時」が時方できます。 電車用時についてはずる、約55×2とう時度できるようになっています。 Q、前者 発した状況	国(日本語) 日本(<u>339)</u> 日本国(22)	2 Fraxinus mandshurica Rupr. var. japonica Maxim. ヤチダモ 19890626 日本 北海道 熱の博物館
Ø	都道府県(日本語) <u>北海道 (155)</u>	3 <u>Fraxinus mandshurica Rupr. japonica</u> ヤチダモ 19580521 北海道 釧路市立博物館 <u>Maxim. var.</u>
お知らせ 2018(4/16 5月14日 (月) に第20回席本得解の発生に解する研究会が発生されます。詳細は別語 第79年に第二日に、[第25]	富山県(29) もっと見る 学名	4 <u>Fraxinus mandshurica Rupr.</u> ヤチダモ 19690717 日本 群馬県 博物館
2018/4/9 サイエンスミュージアムネットをリニューアルしました。 単点の2005/12	Fraxinus mandshurica Rupr. (112) Crossotarsus niponicus (81) ちっと見る	5 <u>Fraxinus mandshurica</u> ヤチダモ 19390729 日本 岐阜県 富山市科学博物 館
	界名(日本語名) 植物界 (291)	6 Fraxinus mandshurica Rupr. var. japonica Maxim. オデダモ 19310708 日本 兵庫県 博物館
	<u>動物界(95)</u> <u>もっと見る</u> 門名(日本語名)	7 Fraxinus mandshurica Rupr. var. japonica Maxim. ヤチダモ 19360804 日本 北海道 博物館
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- A Website developed to use Natural historical collections.
- 5,27 millions of specimen data in DwC + Japanese.
- Organization information and meta data for datasets.
- Data available in CCO, CC BY, or CC BY-NC.

Use of S-Net

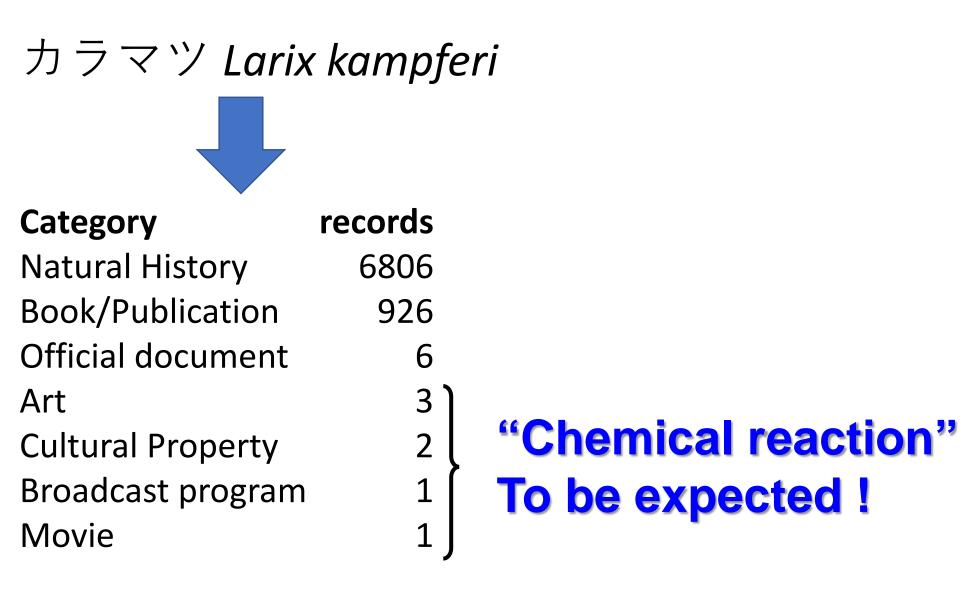
- Finding materials for research / exhibition.
- Analysis of collective data for research (gap analysis; conservation; preliminary biota survey).
- Promoting understanding of importance of specimens.
- Education.

Engagement with "Japan Search"



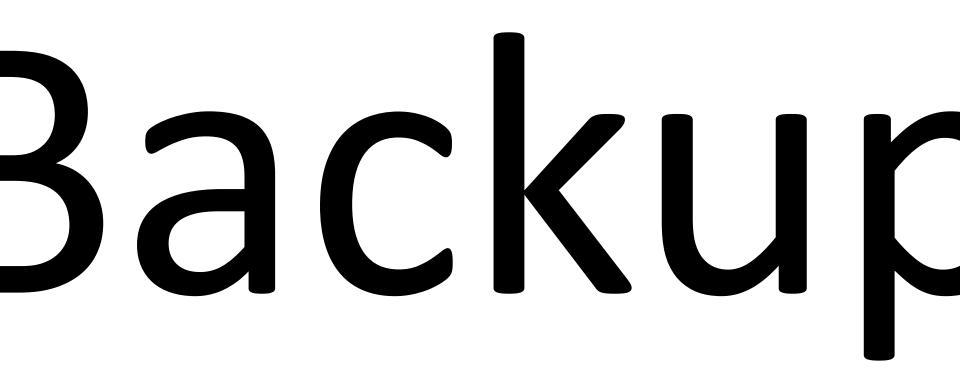
- National cross-sector of federated search portal for metadata of various contents owned by Japan.
- Digital archives in various fields such as books, cultural properties, and media arts, and scientific material.

Unexpected search results with "Japan Search"



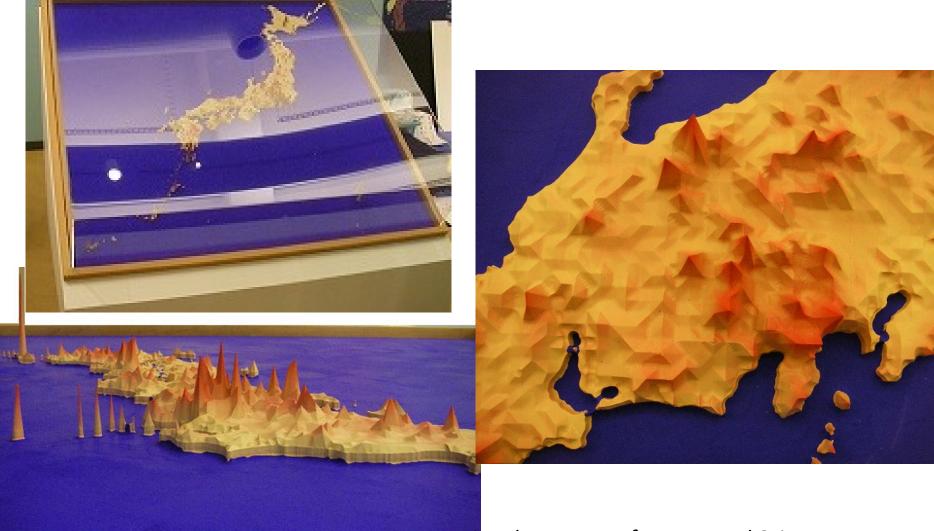
Future direction

- Contribution to digital archive
- Promotion of data exploitation
 ... through GBIF website
 ... through S-Net
- Improve data quality



lization of biodiversity data: 3D map for endemic speci

- The higher, the more endemic species.
- Visualization of places to be conserved.



National Museum of Nature and Science, Japan



course for data handling/analysis

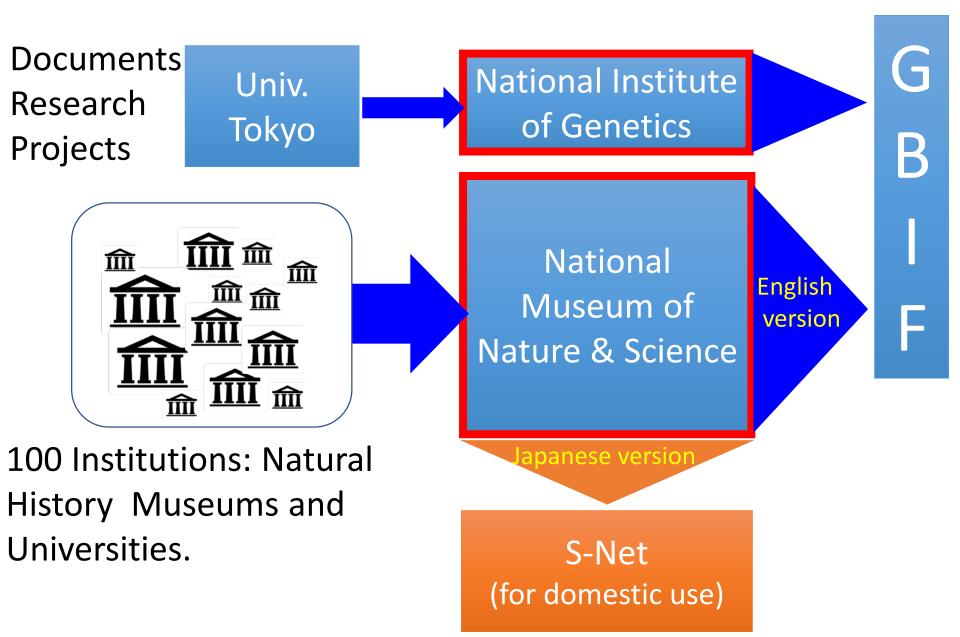
- alysis using R
- g data on map
- cal niche modeling



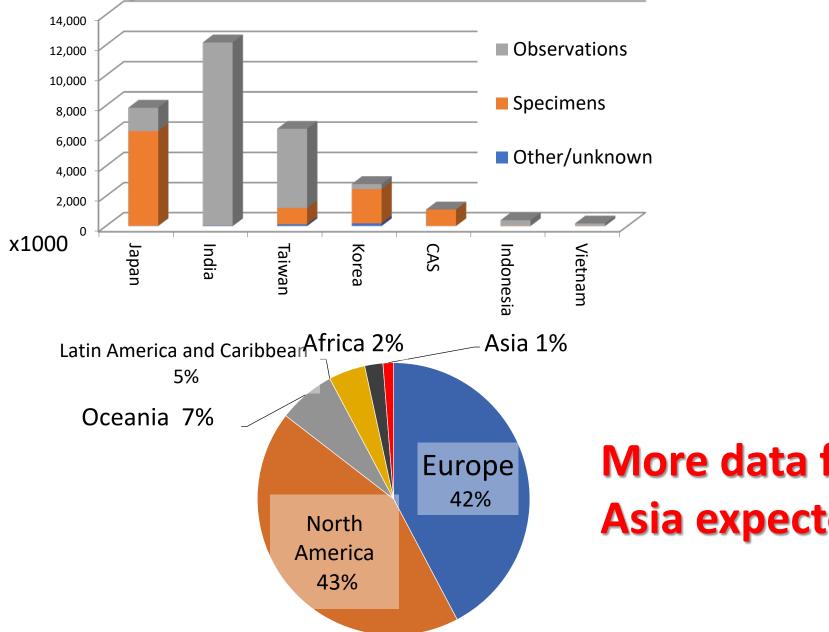
Workshop of general audience/ res

eg. Invasive species Species diversity in Japan Naming organisms in nature Database and biodiversity

Data publication flow



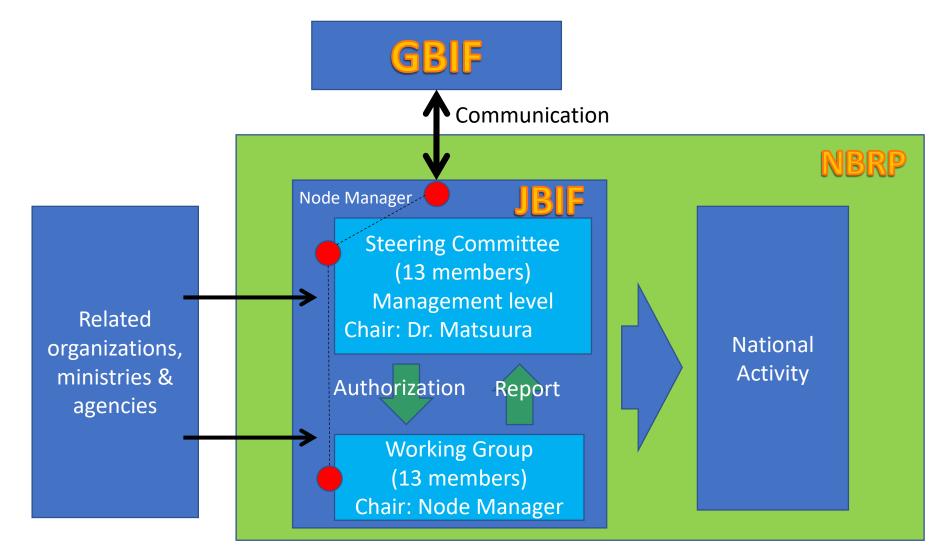
Data published from Asian countries



National Museum of Nature and Science

- Formerly the National Science Museum
- Established in 1877
- **Mission:** To deepen the public appreciation of the earth, life, science and technology, and to encourage people to think about how humankind, the natural world, and science and technology should best relate to each other.
- 1. Elucidating the history of life and the history of science and technology through evidentiary research, using specimens and other resources.
- 2. Collecting and systematically organizing our vast collection of specimens, providing a national collection that supports all manners of scientific research.





- Node Manager works as a point person between JBIF and GBIF.
- To enhance the communication, some members of Working Group overlaps with Steering Committee members.
- Node Manager works as a manager of the working group.
- Members of SC & WG: Universities & National Institutes.



- Some members are also involved as Steering Committee members.
- WG: mostly younger generations from various institutes.
- Both Steering Committee and Working Group is composed of people from multiple administration although NBRP is under governance of MEXT.

Steering Committee

- Biodiversity Center of Japan (MoE) Hokkaido University Hyogo University / Prefectural Museum
 - Japan Agency for Marine-Earth Science and Technology
 - Japan Science and Technology Agency
 - Tokyo Metropolitan University
 - National Institute of Environmental Studies (MoE)
 - National Institute of Genetics
 - National Museum of Nature and Science
 - Tokyo University
 - Tokyo University Museum
 - Yamashina Institute for Ornithology

Working Group consisted of some more members from local museums, universities, and national institutes incl. Nat. Mus. Nat. Sci.

S-Net search result

