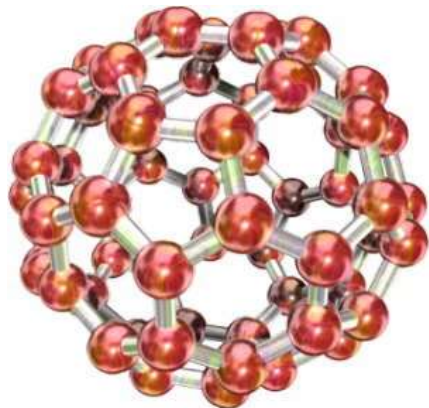
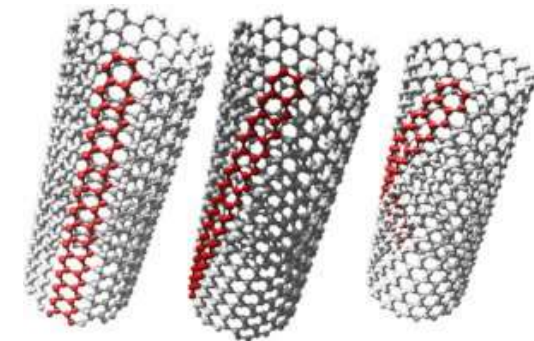


Nanotechnology Business Creation Initiative(NBCI)



August-2023



Nanotechnology Business Creation Initiative(NBCI)

Japanese institution established in 2003 to launch and expand the nanotechnology business.

- **Business creation by strengthening cross-industry network**
- **Understanding and effective utilization of governmental policies and systems**
- **Expansion of nanotechnology business / establishment of infrastructure for industrialization**

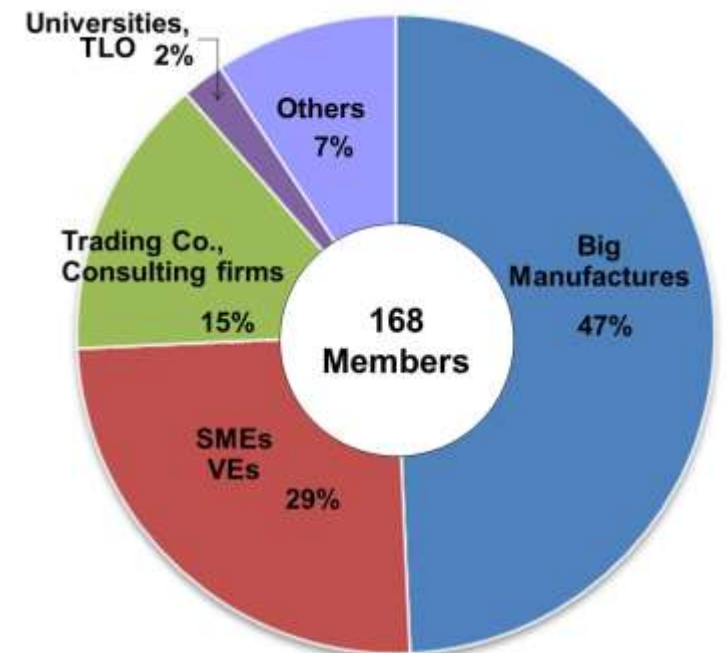
One of the most industry driven organizations in Japan run on annual membership fees.

The membership is provided to organizations registered in Japan



YWCA@Ochanomizu

<https://www.nbcj.jp/en/>



TLO: Technology Licensing Organization

- **Business creation by strengthening cross-industry network**

- Understanding and sharing needs and seeds information through study group activities
- Support for building a personal network that transcends industry, government, and academia
- Providing a forum for discussions to create businesses that lead to the solution of social issues

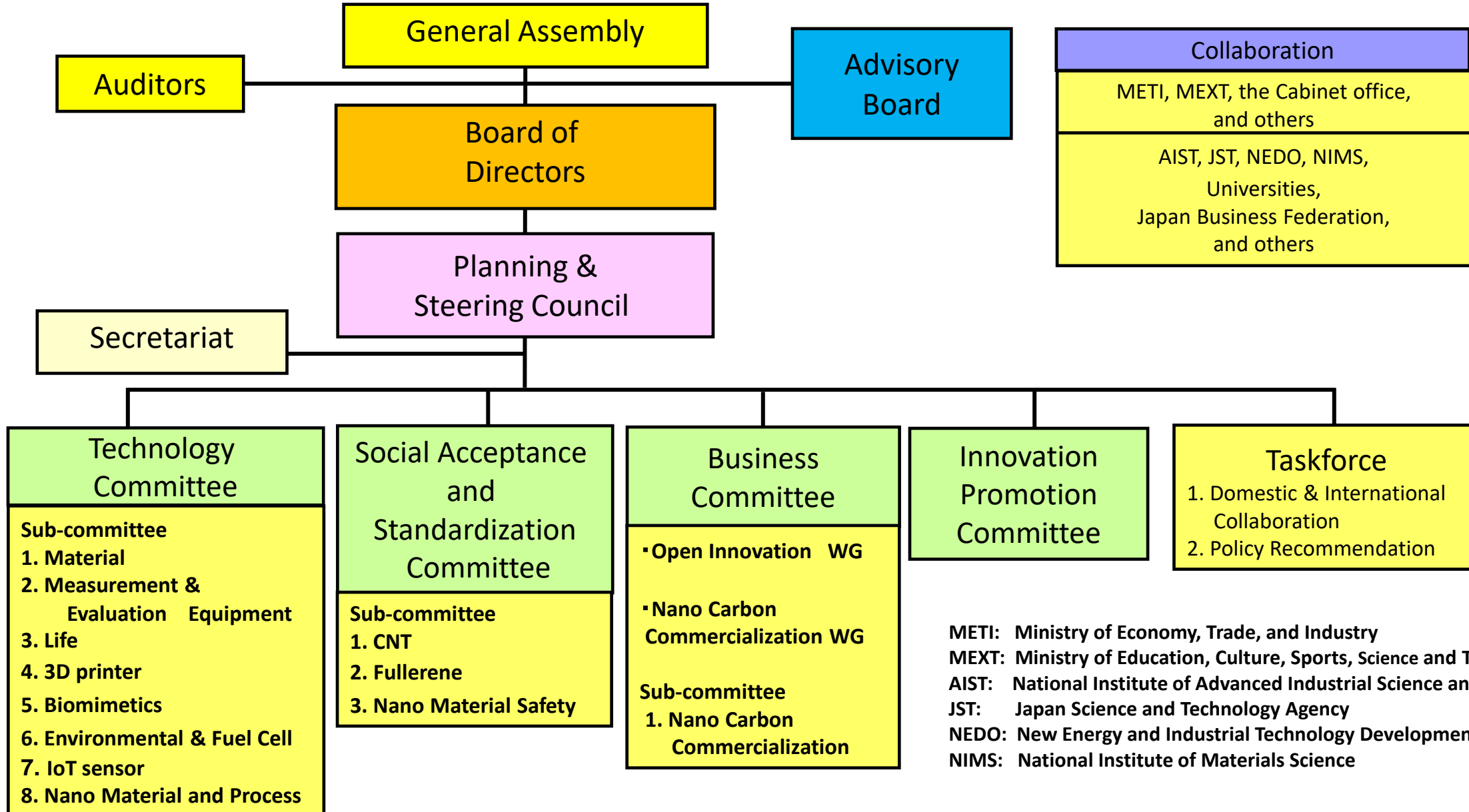
- **Understanding and effective utilization of governmental policies and systems**

- Understanding social issues and policy information, and providing them in a timely manner
- Dissemination of business needs to government officials through frequent exchange of opinions

- **Expansion of nanotechnology business / establishment of infrastructure for industrialization**

- Extracting and responding to common issues such as standardization related to nanomaterials
- Industry-government-academia collaborative activities related to ensuring safety and responding to concerns about nanomaterials

NBCI Organization



METI: Ministry of Economy, Trade, and Industry
MEXT: Ministry of Education, Culture, Sports, Science and Technology
AIST: National Institute of Advanced Industrial Science and Technology
JST: Japan Science and Technology Agency
NEDO: New Energy and Industrial Technology Development Organization
NIMS: National Institute of Materials Science

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NBCI Activity Policy

- **"Nanotechnology"** has become a technology that is used on a daily basis in the manufacturing industry due to the progress of analytical technology, manufacturing and processing technology over the last 20 years, and **be fundamental technology for promoting innovation in the fields of AI, biotechnology, quantum, and materials that are rapidly advancing.**
- **NBCI is made up of highly diverse companies** with the keyword "nanotechnology". **Utilizing this feature, we will support members to develop activities that contribute to solving social issues such as SDGs** in collaboration with other members, government agencies, incorporated administrative agencies, and universities.
- For this purpose, **NBCI is promoting the collection and sharing of the latest technical and environmental safety information, and networking** with industry, academia and government. Furthermore, **we are making recommendations on R&D strategies, environmental safety regulations, and standardization activities in the field of nanotechnology.**

Mission of Committees

(1) Technology Committee

- Sub-committees have been set up for each target technology field selected from the perspective of promoting the practical application of nanotechnology (currently **8 sub-committees**). **Through the holding of the sub-committees and lectures, information on technology, products, and markets will be shared among member companies, and related databases are maintained and made public.**
- Through this sub-committee activity, we support the creation of a wide range of personal networks among participating members, which is the basis of cooperation/open-innovation between member companies.

(2) Social Acceptance and Standardization Committee

- **In order to promote the use of nanomaterials and their products, we cooperate with related ministries and research institutes to develop and share basic knowledge about nanomaterials, safety information, handling management guidelines as well as regulations,** etc. We make recommendations from the standpoint of the nanomaterials industry.
- From the perspective of improving the international market and distribution environment, **we also participate in standardization activities such as ISO / TC229 and OECD / WPMN.**

Mission of Committees

(3) Business Committee

- **We create an environment in which members can easily carry out collaboration and open innovation between member companies, governments, independent administrative agencies, universities, etc., and promote the creation of new businesses that lead to social issues.**

In the nanocarbon field, In addition by holding lectures and sharing technology and market information, we promote commercialization through holding “Nanocarbon Open Solution Fairs” at “nano tech” (nanotechnology exhibition).

(4) Innovation Promotion Committee

- **By holding lectures by key people such as the government and incorporated administrative agencies, we motivate the sensitivity of members to social and policy issues, provide information on government projects and support systems, and support their utilization by member companies.**

In addition, **regarding the utilization of government projects and support systems, policy proposals are made from the standpoint of the utilization side.**

nano tech 2023 the world's largest event of nanotechnology

2023. 2. 1 - 3 Tokyo Big Site

- NBCI participates every year to introduce nanotechnology market
- Held an international nanotechnology association conference



- Nanocarbon Open Solution Faire (Joint Event of NBCI and JCD)
 - to promote efficient business matching for expanding the use of nanocarbon by holding this fair that aggregates exhibitions related to the production and use of nanocarbon
 - Booklet Nanocarbon FAQ (Japanese only) for sale

The 15th

International Nanotechnology Association Conference

Date : February 2th 2023, at 9;30-11;30

Venue : Tokyo Big Sight, Conference Tower,
Room No.608, with online meeting

Organizer ; NBCI & JTB Communication Design

■ Objective :

To exchange information in each Country and Region on Governmental policy/ direction for Nanotechnology and discuss how to create Nanotechnology Industry

■ Participants : 10 associations from 8 countries

- From Overseas; NNCO(USA), Deep Tech Canada, Waterloo Institute of nanotechnology (CANADA), Netherlands Enterprise Agency (Netherlands), TANIDA(Taiwan),KONTRS, NTRA (KOREA), ANF(Asia Nano Forum: THAILAND,MALAYSIA).
- From Japan; JST-CRDS, AIST, etc.



Responding to European regulation on CNTs

◆ European CLP Regulation :

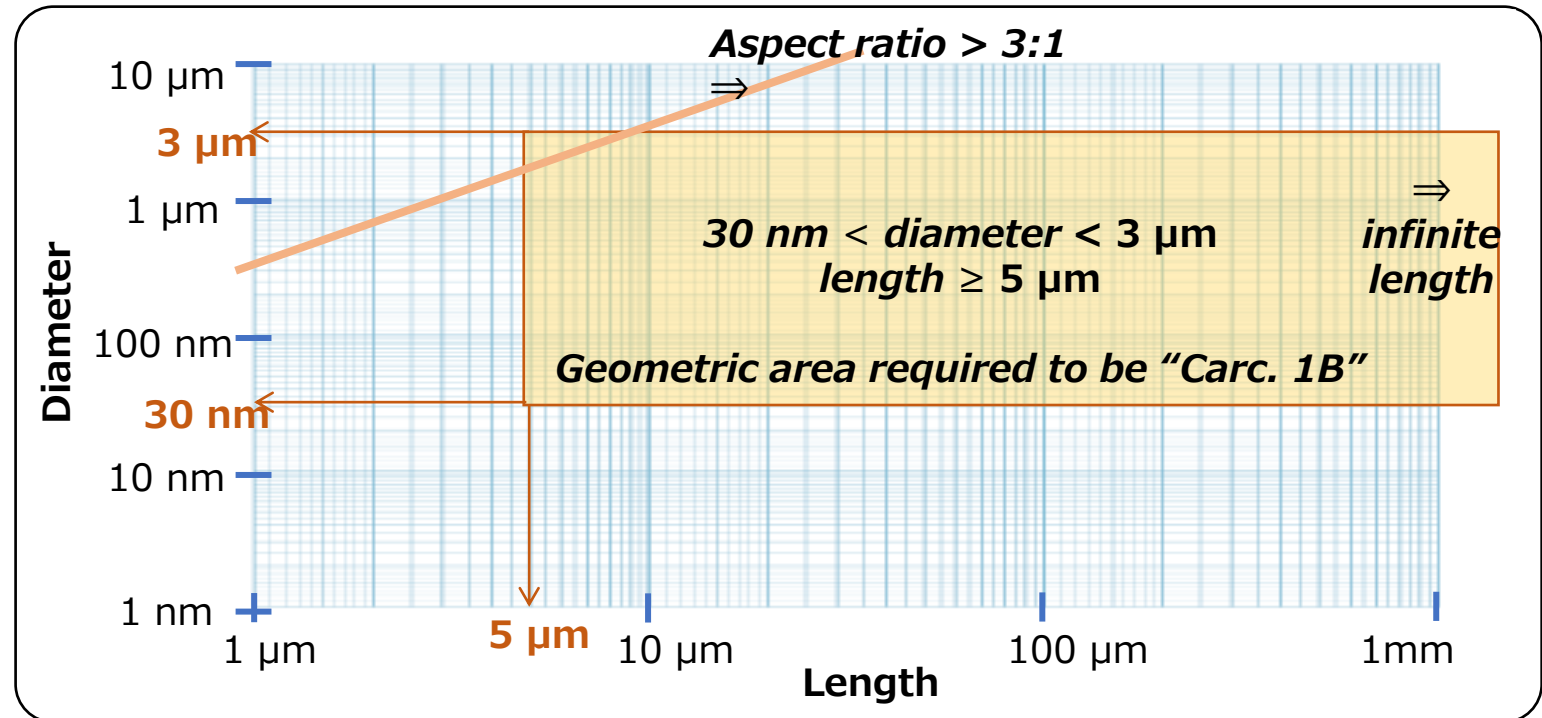
this Regulation requires classification, labeling and packaging of substances and mixtures placed on the market in the EU that are hazardous or explosive to humans and the environment.

◆ Proposal

BAuA proposed to ECHA that Multi-Walled Carbon Tubes **with geometric tube diameter range ≥ 30 nm to <3 μm and a length ≥ 5 μm** , including MWC(N)T be classified as **Carcinogenic Category "Carc.1B"** (presumed carcinogenic) in the CLH classification.

◆ matter of concern

- There is a possibility that many MWC(N)T, including European products, will be subject to regulation.
- There is a possibility that the social usefulness of CNT will be impaired.



NBCI submitted three comments to ECHA

① August 2021, ② July 2022, ③ August 2022

◆ Summary of Opinions

- ✓ **Insufficient scientific evidence** to conclude that diverse CNT products are equally harmful
- ✓ Regarding carcinogenicity classification, **the classification of IARC should be respected** and harmonized with international rules.
→ **Only MWNT-7 becomes Carc.1B, other MWCNTs are not Carc.1B.**
- ✓ **Expectations for CNT Applications**
- ✓ **Suggested risk management methods**

◆ Further response and strengthening of cooperation

- **In Europe, NBCI and NBCI member companies (ZEON, RESONAC) cooperate with JBCE (Japan Business Council in Europe) to submit opinions based on scientific evidence.**
- **NBCI would like to cooperate with NIA to enhance its ability to communicate to the European Commission.**

Responding to European regulation on CNTs

NBCI submitted three comments to ECHA

① August 2021

[Comments on the MWC\(N\)T CLH report \(August 17, 2022\)](#)

② July 2022

[http://www.nbcj.jp/file/220203_MWC\(N\)T_CLH_en_p7.pdf](http://www.nbcj.jp/file/220203_MWC(N)T_CLH_en_p7.pdf)

③ August 2022

http://www.nbcj.jp/file/NBCI_Comment_on_CLH_report_20220708.pdf

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Nanotechnology Business Creation Initiative(NBCI)
Tokyo YWCA building. 3F
1-8-11, Kandasurugadai,
Chiyoda-ku, Tokyo 101-0062, JAPAN

Inquiry: <https://www.nbci.jp/cgi-bin/inquiry.cgi>