OECD Working Party on Biotechnology, Nanotechnology & Converging Technologies (BNCT)

15th Meeting of the OECD Working Party on Manufactured Nanomaterials

4th – 6th November 2015, Paris

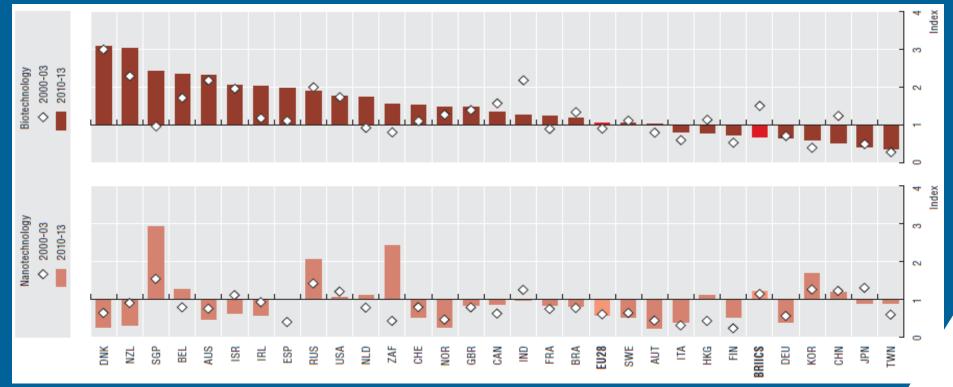




- 1st January 2015: the OECD merged its Working Party on Biotechnology (WPB) and its Working Party on Nanotechnology (WPN) to form the Working Party on Biotechnology, Nanotechnology and Converging Technologies (BNCT)
- Projects of the BNCT (Programme of Work & Budget 2015/2016):
 - Statistics & Indicators of Biotechnology and Nanotechnology
 - Impact Assessment of Biotechnology and Nanotechnology
 - Emerging Technologies and the Brain
 - Bio-Production for a Bioeconomy
 - Better Food for Better Health

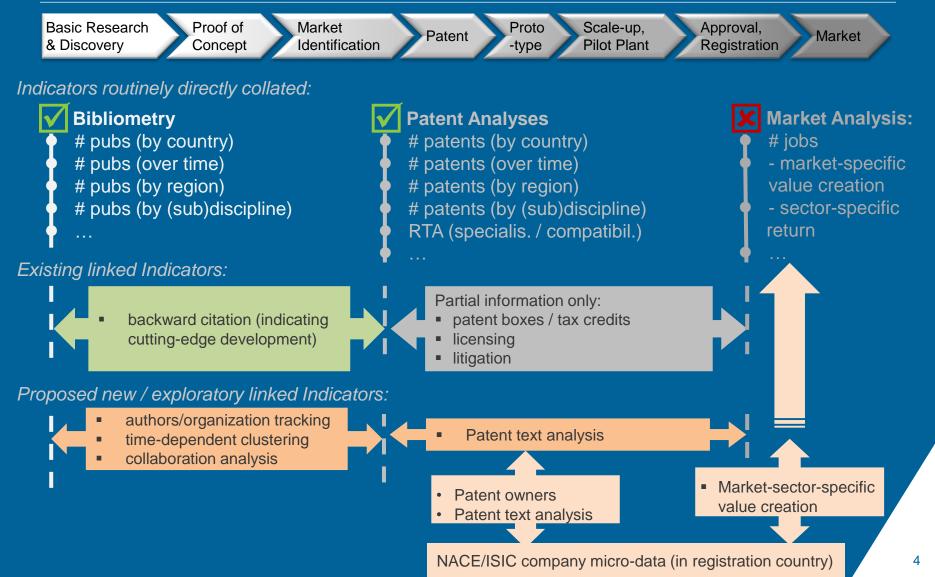
Combined Bio- and Nanotechnology Indicators & Statistics (1)

 Revealed technological advantage (RTA) in biotechnology and nanotechnology, 2000-03 and 2010-13



NOTE: The revealed technological advantage index is calculated as the share of country (or economy) in biotechnology/nanotechnology patents relative to the share of country (or economy) in total patents. Index based on IP5 patent families. (Source: OECD STI Scoreboard 2015)

Combined Bio- and Nanotechnology Indicators & Statistics (2)



Summary: nano-specific Work of the OECD BNCT

- BNCT's Project on 'Emerging Technologies and the Brain' aims to analyse the role of new technologies (including nanotechnologies) in research and treatments of diseases of the brain.
- BNCT (in collaboration with NESTI) aims to review and re-confirm indicators hitherto used in biotechnology and nanotechnology assessment, as well as definitions underlying the collection of biotechnology and nanotechnology statistics.
 - BNCT's core set of indicators is anticipated to:
 - Allow backward comparison with established indicators,
 - Allow interdisciplinary comparison with other technologies (e.g. enabling technologies, general purpose technologies, etc.), and thus
 - Allow identification of converging technologies based on sciento- and econometrics.
- BNCT's stress-tested indicators will support the in-depth Impact Assessment of Biotechnology, Nanotechnology and Converging Technologies and their respective national policies.

Find out more about BNCT

https://www.innovationpolicyplatform.org/oecd-working-party-bio-nano-andconverging-tech-bnct-0



Project on Statistics & Indicators of Bio- and Nanotechnology (OECD BNCT)

Biotechnology and nanotechnology are both disciplines of science and technology in their own right and providers of increasingly widely adopted tools to other fields of science and technology and to each other. This complex pattern of deployment signifys a growing convergence of traditional disciplines of science and engineering, and poses a formidable challenge to the creation and measurement of reliable indicators of the technologies' development and impact.

The OECD Working Parties on Biotechnology (OECD WPB) and Nanotechnology (OECD WPN) have for several years set, measured and published indicators and statistics for biotechnology and nanotechnology (see below: 'Background Information on Statistics & Indicators'). With the creation of the new OECD Working Party on Biotechnology, Nanotechnology and Converging Technologies (BNCT) in January 2015, the OECD now aims to re-confirm indicators and measurement methodology for these multidisciplinary and partially over-lapping technologies with a view to establishing exicusively accurate and relevant datasets.

Background Information on Statistics & Indicators in Bio- and Nanotechnology



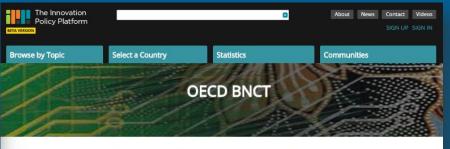


Latest News: Statistics & Indicators

Posted by Steffi Friedrichs on August 13,

Welcome to the OECD's work on Statistics & Indicators in Biotechnology & Nanotechnology - a project of the OECD Working Party on Biotechnology, Nanotechnology and Converging Technologies (BNCT).

This website is the one-stop-shop for members of the public interested in the measurement of bio- and nanotechnology, and for the registered delegates and experts of the OECD BNCT, who are driving the setting of relevant statistics and indicators through their work and expertise.



OECD Working Party on Bio-, Nano- and Converging 🛦 Members 🖬 🏟 Tech (BNCT)



On 1 January 2015, the Working Party on Biotechnology (WPB) and the Working Party on Nanotechnology (WPN) merged into the Working Party on Biotechnology, Nanotechnology and Converging Technologies (BNCT).

The BNCT is focused on policy issues in emerging technology fields related to bio, nano and converging technologies. It aims to contribute original

policy analysis and messages to the global community, and to make ground-breaking proposals to policy makers. Policy issues of interest to the BNCT range across topics as diverse as research and technological development, innovation and commercialisation, standards and regulations, best practice policy formulation and implementation, ethical, legal and social issues, public engagement, education, skills and training, organisation of research, and measurement and evaluation methods and tools. In particular, the BNCT will advise upon emerging policy issues related to the responsible development of biotechnology, nanotechnology and converging technologies, and assist Member countries in understanding and managing the changing nature of research, development and innovation

The BNCT's work programme for the next two years will focus on the following areas.

- Measurement & Impact
- Emerging Technologies for Health
- Bio-Production



16 2:30am

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Latest BNCT News

Welcome! August 14, 2015

The OECD-BNCT Secretariat is excited to roll out our Working Party's new website. Emerging technologies have the capacity to help address intractable problems and remake our world. Importantly, there are critical opportunities to intervene -through policy and collective learning -- to create the environmental for these technologies to develop in optimal ways. We hope this site will enable our important collective work!

BNCT Projects

Statistics & Indicators of Bio- and Impact Assessment of Bio- and Emerging Technologies and the Brain **Bio-Production for a Bioeconomy** Retter Food for Retter Health



Nanotechnology: An Overview based on (November 2013)

Data Brief comparing the Nanotech Indicators

1st BNCT Meeting (3 days) (18. - 20. May 2015, Paris) (access: BNCT only)

Upcoming BNCT Meetings BNCT Strategic Workshop (2 days) and BNCT Meeting (3 days)

11:30am to 9:30am

THANK YOU!

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