

**Prof. Nadezhda Gaponenko**

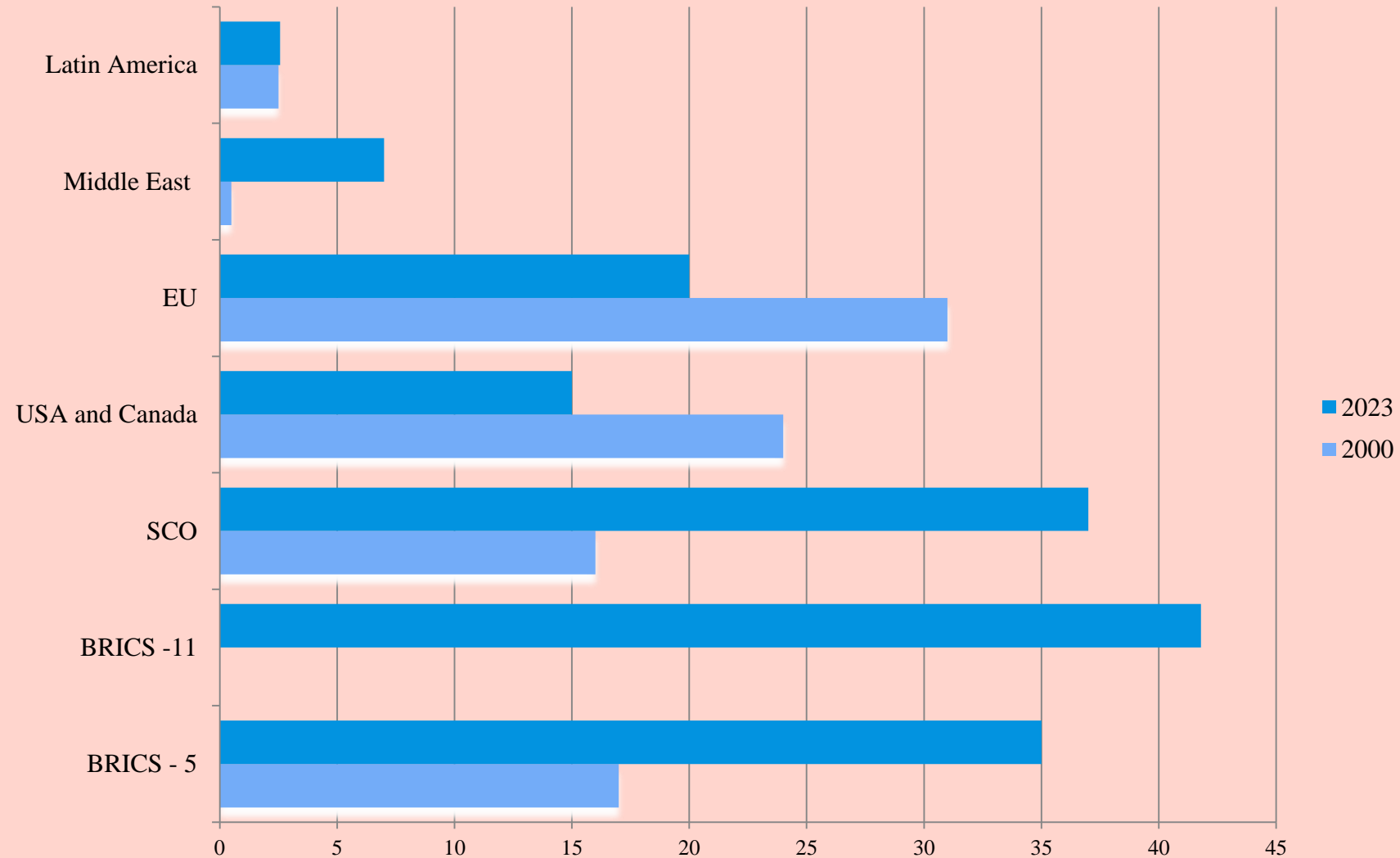
**Director of the Russian Node**

**Dubai -2023**

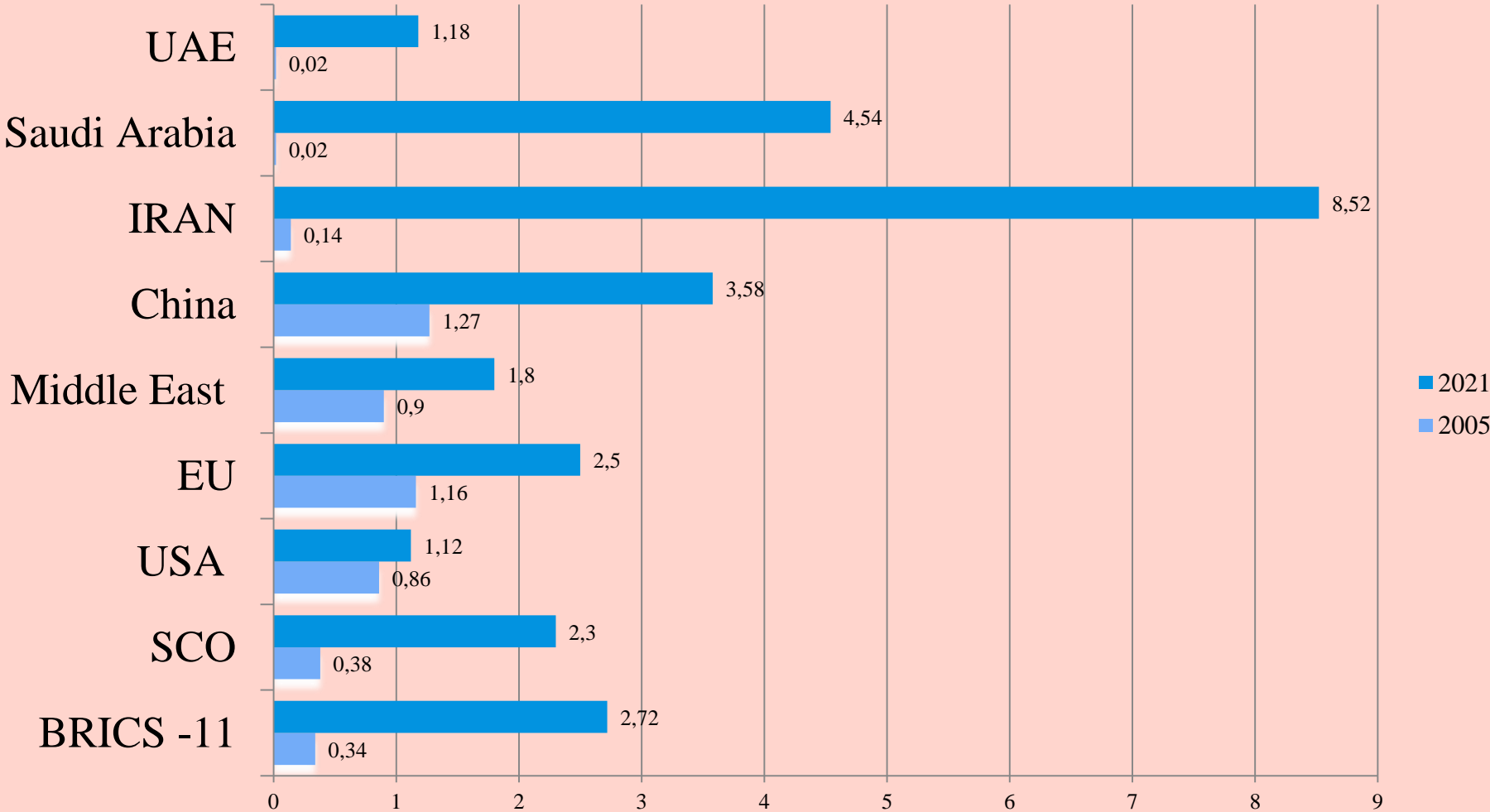
# What we do

- **1. Application of evolutionary, chaos&complexity theories to foresight, innovation systems and policy development**
- **2. Bridging foresight and innovation systems**

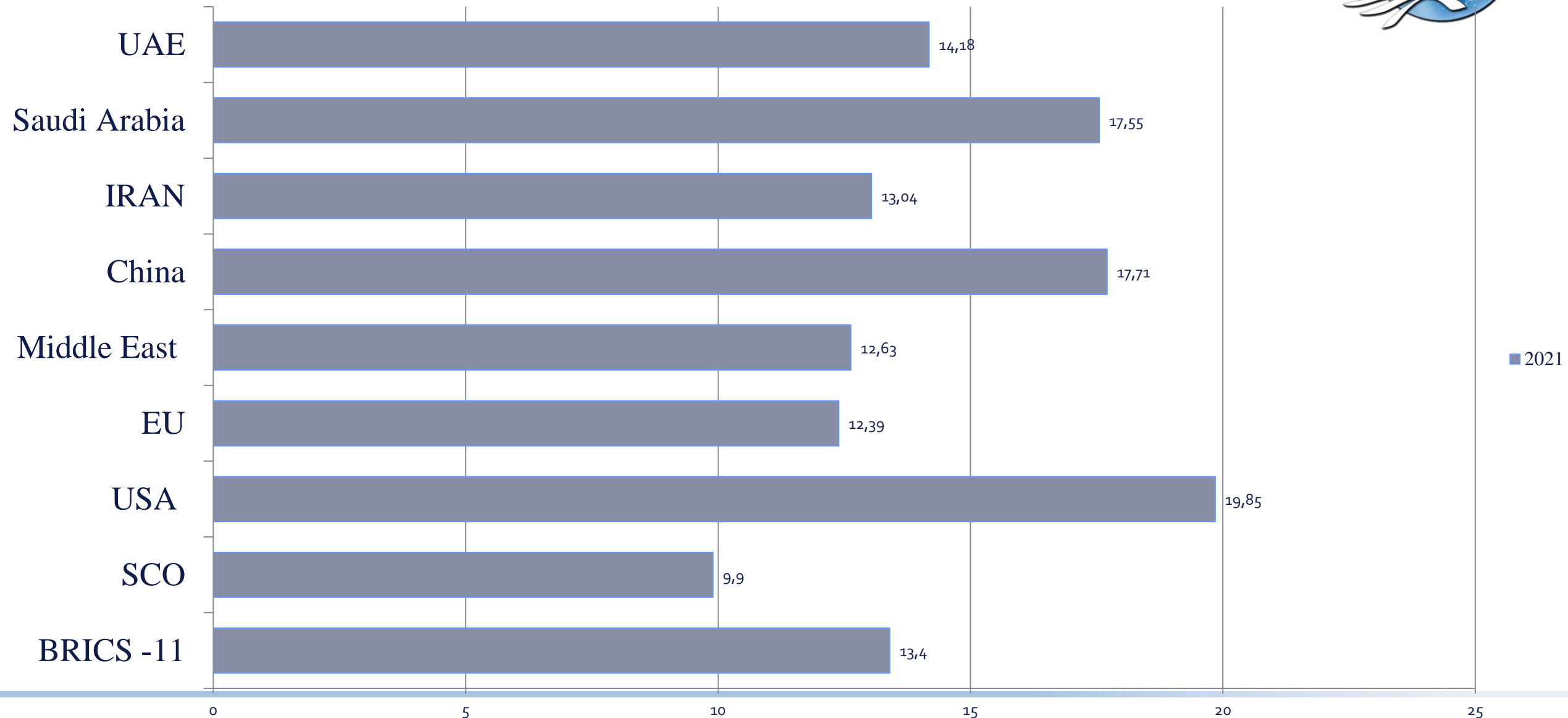
# Knowledge base of poles and regions



# Provision of economic development with knowledge



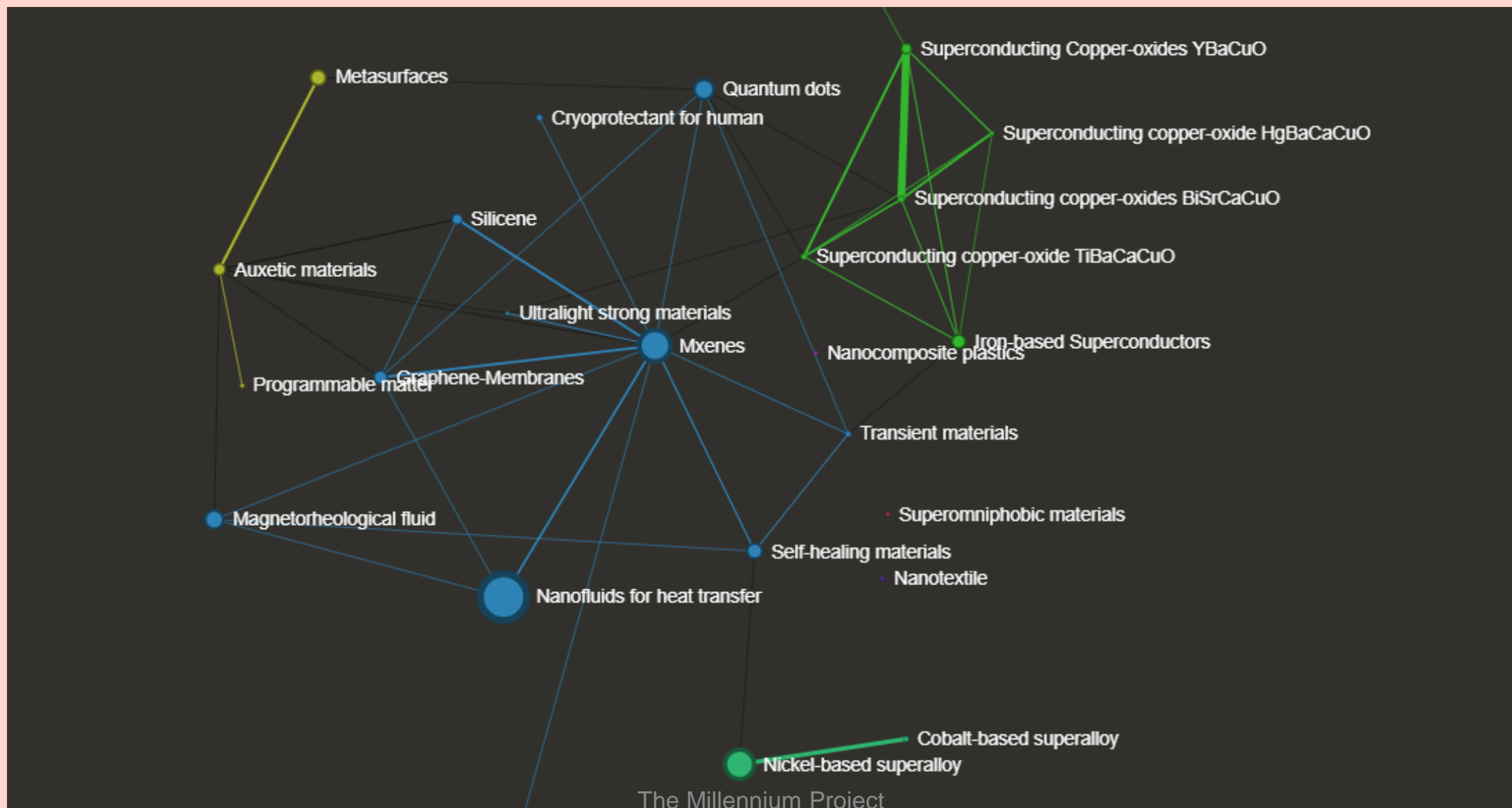
# Knowledge orientation towards breakthrough technologies



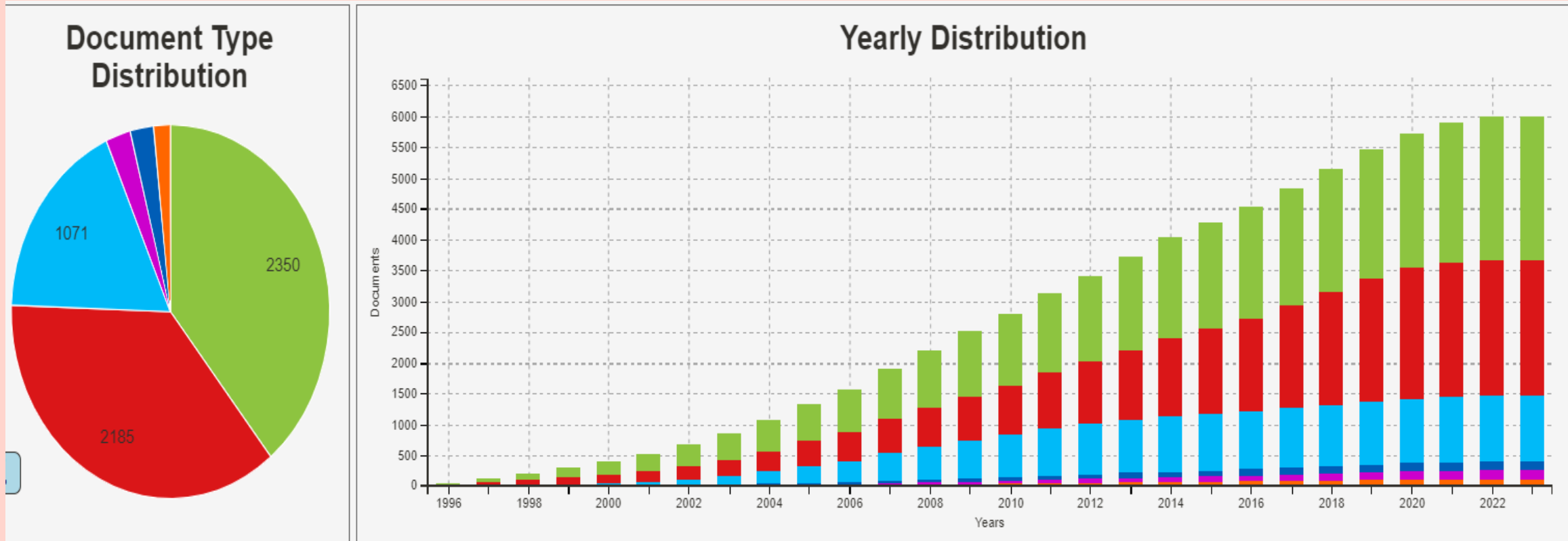
# Weak signals

1. Technologies on an early stage of development

# Nanotechnology - 22



# Quantum dots: bibliometric and patent information

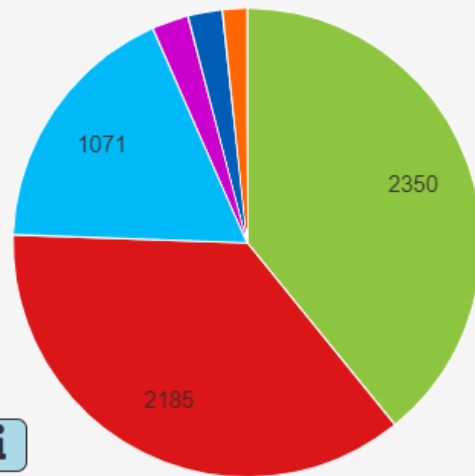




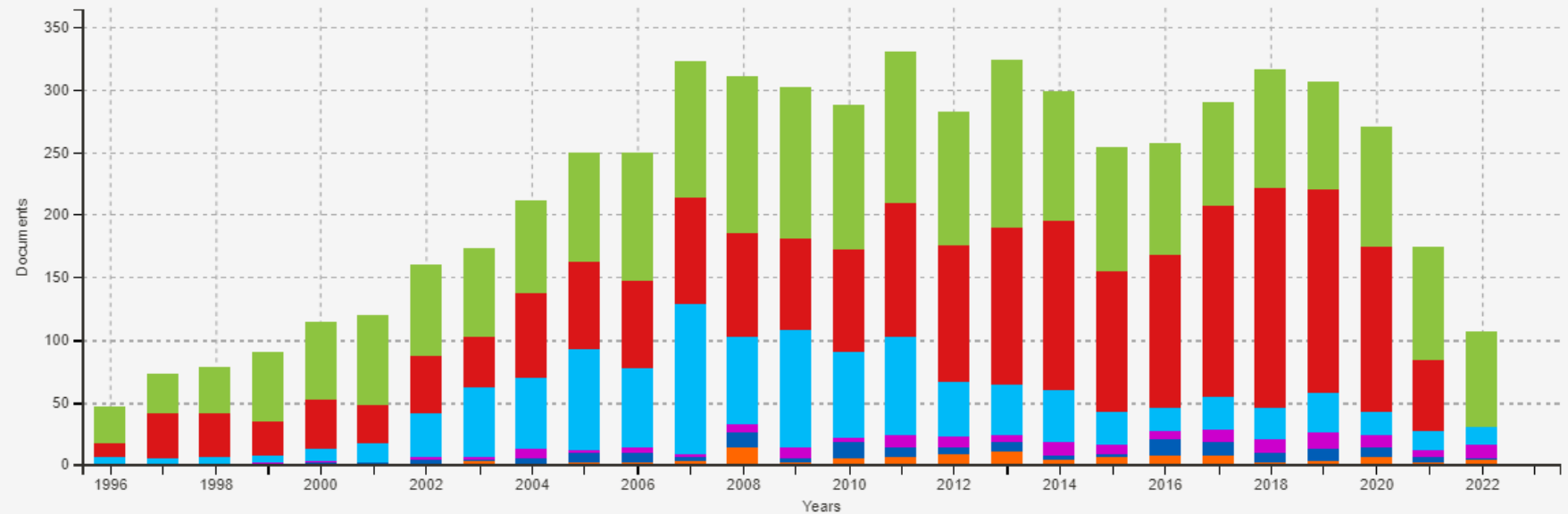
# Quantum dots: bibliometric and patent information

Quantum dots are nanometer-sized semiconductors with specific optical and electronic properties.

## Document Type Distribution



## Yearly Distribution

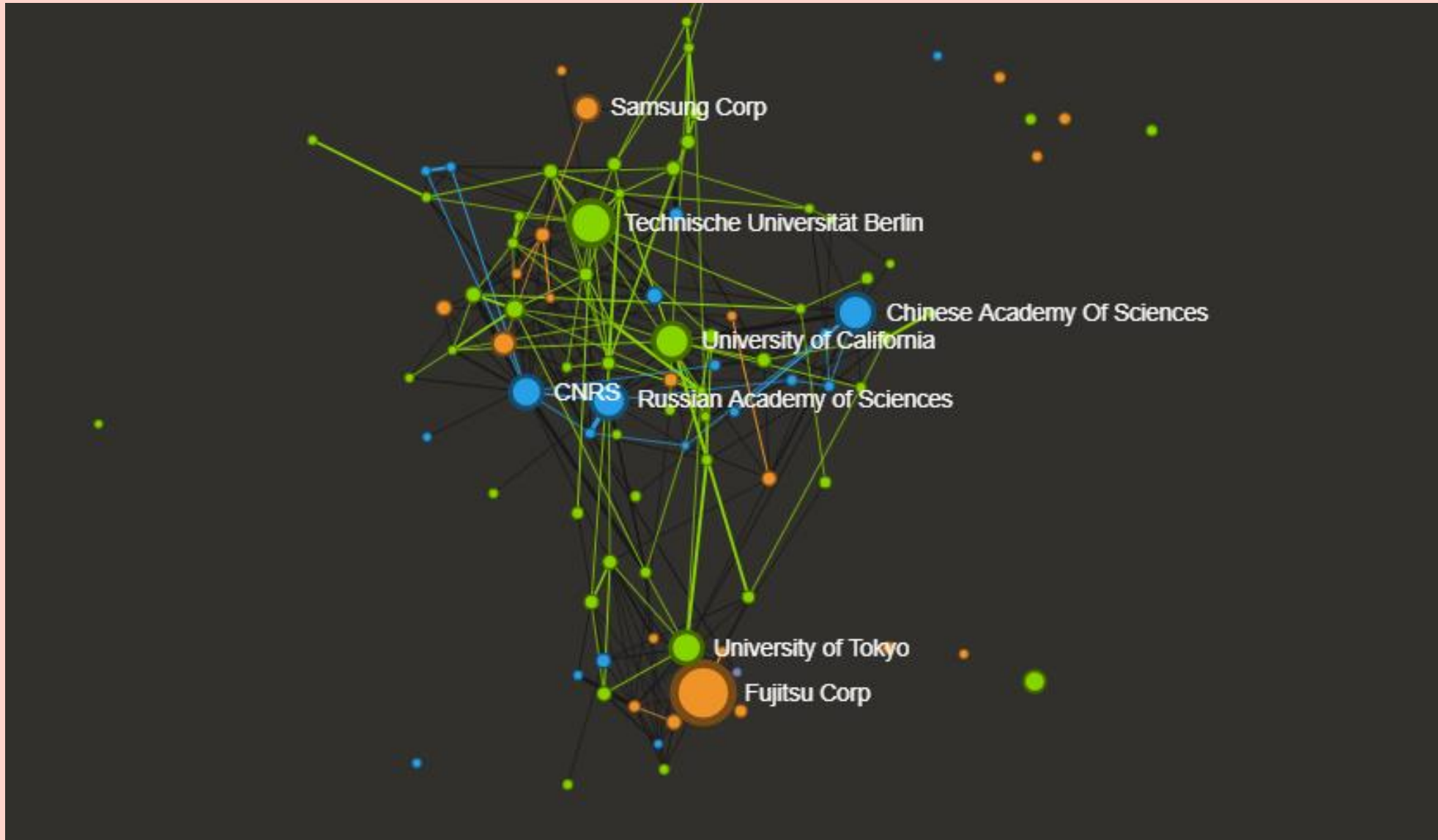




# Quantum dots: leaders in publications



# Quantum dots



The Millennium Project

# Activity: bridging nodes



Russia & India: intern from India

Russia & Azerbidgan : participated in conference

Russia & UK

European foresight network

# Publications



Nadezhda Gaponenko "Digital Technology Beyond Hype: The Global Landscape" // Economic Strategies, 2022, N6. <https://www.inesnet.ru/article/cifrovye-texnologii-za-granicami-xajpa-globalnyj-landshaft/>

DOI: <https://doi.org/10.33917/es-6.186.2022.105.104-110>

Nadezhda Gaponenko "Scientific Knowledge Base in The Lens of Innovation Policy" // Economic Strategies, 2023, №3

<https://www.inesnet.ru/article/baza-nauchnyx-znanij-v-obektive-innovacionnoj-politiki/>

DOI: <https://doi.org/10.33917/es-3.189.2023.50-57>

Nadezhda Gaponenko "Digital Transformations: Global Challenges and Opportunities" in "Public Administration and Development of Russia: Global Trends and National Perspectives". Volume 2. - M.: Publishing house "SCIENTIFIC LIBRARY", 2023. pp. 44-57. ISBN 978-5-907672-30-7

# CONFERENCES

Gaponenko N.V. guest speaker “Russia on strategic trajectories of digital transformations, technological security and competitiveness”, the international conference "Public Administration and Development of Russia: Civilizational Challenges and National Interests", May 2023

Gaponenko N.V. guest speaker "Scientific knowledge in the focus of the concept of innovation systems: Russia on critical trajectories of competitiveness, technological security, geo-economic and digital transformations"

Future Day

World Congress "Systems theory, algebraic biology, artificial intelligence: mathematical foundations and applications" 06.26-30. 2023,  
<https://congrsysalgbai.ru/>