



BRICS Vision Conference 2024: Technological Sovereignty

Results and findings

October 2024

Content:

Strategic Initiative – BRICS New Technological Platform

Foresight Overview

Key Foresight insights

Round table «BRICS technological cooperation»

BRICS Solutions Awards – Award Ceremony

BRICS New Technological Platform initiative in the Kazan Declaration



Foresight Overview

October 16, 2024

The Technological Conference has become a meeting venue for technological companies from the BRICS+ countries. Participants of the Foresight have elaborated several technological foresights and insights into the most critical trends for the next 15-25 years.



120

PARTICIPANTS

70

ORGANIZATIONS

6

COUNTRIES



13

INDUSTRIES

- UAV
- Communication Technologies
- Space Technologies
- Biotechnologies
- Cybersecurity
- Energy
- Mechanical Engineering
- Ecology and Climate
- Creative Technologies
- Artificial Intelligence
- Digital Platforms
- Cognitive Technologies
- Medicine

Key Foresight Insights

October 16, 2024

ECOSYSTEM-BASED APPROACH

Creating collaborative workspaces that promote innovation and cooperation – a network facilitating seamless communication and knowledge sharing among stakeholders. Authorized representatives at the national level will provide mentorship ensuring that technological development is aligned with national priorities and goals.

BRICS QUALITY MARK

A marker reflecting high standards and innovation characteristics of the participating countries. It aims to create trustful interaction among consumers and investors, as well as promote the technologies developed in the BRICS countries.

COMMON BRICS STANDARDS

- 5 Pilots: AI standards, Microprocessors, Cybersecurity, Digital Products, Food Products.
- Harmonization and mutual recognition of Standards: discussion of approaches to standard unification.
- Use of experience of other supranational associations and international organizations (Eurasian Economic Union, ISO).
- Development of an integrated Platform for Standard Analysis

Key Foresight Insights for the BRICS New Technological Platform

October 16, 2024

COMMON API BETWEEN BRICS PLATFORM AND EXISTING NATIONAL SERVICES

- Study of the best practices on API integration at the national level.
- Establishment of an intergovernmental working group for development and implementation.
- Elaboration of a regulatory framework for integration processes at national and supranational legislative levels.

INDUSTRY ALLIANCES

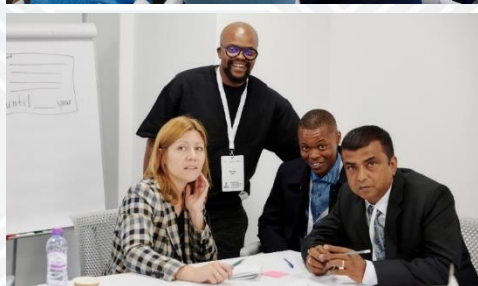
- 4 Pilots: AI, Cybersecurity, Unmanned aerial vehicles, Energy.
- Establishment of consortia and alliances for projects related to future markets and next generation products.
- Joint export and industrial accelerators.
- Venture capital funds.

ANALYTICS AND FORESIGHT FOR BRICS FUTURE MARKETS

- Common Vision 2050
- Foresights of future markets and technologies
- Network of experts with advanced technological practices
- Joint analytical reports

Foresight Overview

October 16, 2024



Round table «BRICS Technological cooperation»

October 17, 2024

Finalists of the BRICS Solutions Awards have presented their innovative projects and initiatives that got a high evaluation of the international expert jury. Representatives of the Russian and foreign high-tech companies have discussed the challenges and opportunities for technological cooperation within BRICS.

50+

PARTICIPANTS



11

ORGANIZATIONS



11

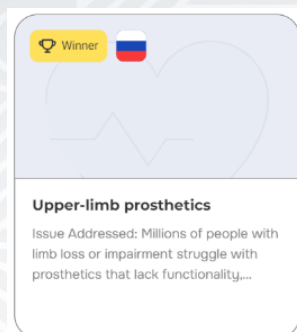
PROJECTS AND
PRACTICES




Round table «BRICS Technological cooperation»

October 17, 2024

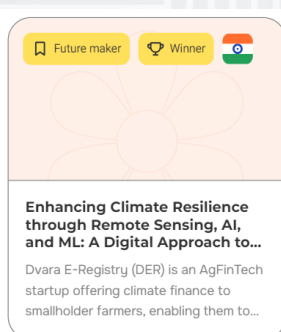
PITCH-SESSION PARTICIPANTS:




Winner 

Upper-limb prosthetics

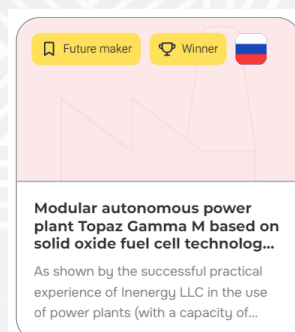
Issue Addressed: Millions of people with limb loss or impairment struggle with prosthetics that lack functionality...




Future maker **Winner** 

Enhancing Climate Resilience through Remote Sensing, AI, and ML: A Digital Approach to...

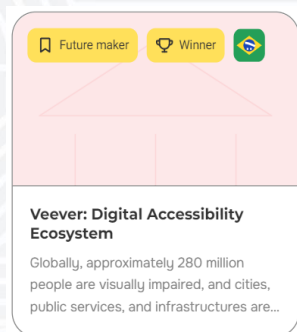
Dvara E-Registry (DER) is an AgFinTech startup offering climate finance to smallholder farmers, enabling them to...




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Modular autonomous power plant Topaz Gamma M based on solid oxide fuel cell technolog...

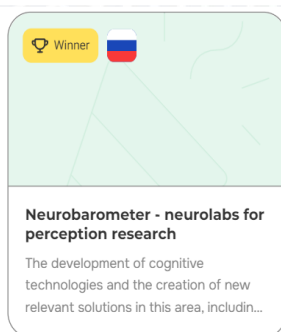
As shown by the successful practical experience of Inenergy LLC in the use of power plants (with a capacity of...




Future maker **Winner** 

Veever: Digital Accessibility Ecosystem

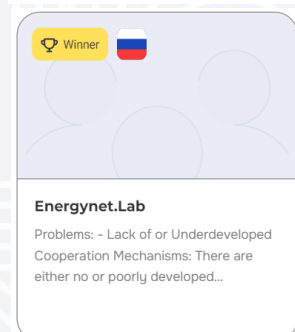
Globally, approximately 280 million people are visually impaired, and cities, public services, and infrastructures are...




Winner 

Neurobarometer - neurolabs for perception research

The development of cognitive technologies and the creation of new relevant solutions in this area, includin...



Winner 

Energynet.Lab

Problems: - Lack of or Underdeveloped Cooperation Mechanisms: There are either no or poorly developed...

DISCUSSION «BRICS TECHNOLOGICAL COOPERATION»:

JSC «T-System»

Technological partnership and development of cooperation in the field of technology:
Energynet experience

China National Petroleum Corporation

CNPC UCCUS Energy, solution for the energy trilemma: Midas Touch for Underground Space Utilization

JSC «Science and Innovations»

BRICS nuclear medicine: challenges and opportunities for Technological cooperation

LogisEye Solutions FZCO

Digital Transformation of Logistics Procurement and Management

JSC «GLONASS»

Emergency Response System ERA-GLONASS and NextGen Satellite Communications

Excursion to the Skolkovo Innovation Center

October 17, 2024



BRICS Solutions Awards Awards Ceremony October 18, 2024

28

FINALISTS

out of 1300+ applications



8

FUTURE MAKERS

(nomination of the Andrey
Melnichenko Charity Foundation)




5

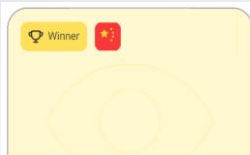
COUNTRIES



BRICS Solutions Awards finalists

October 18, 2024

Winner 



Development and Application of 100B-level Parameter Financial LLM


To tackle the difficulties applying LLMs in financial industry, including lack of experience in building LLMs, shortage...

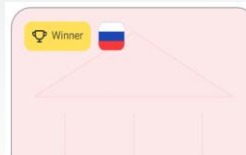
Winner 



Soil Microbiome Management System: A Pathway to Reducing Soil Fertility Depletion


Depletion of soil fertility poses a serious problem to humanity, affecting many aspects including food security...

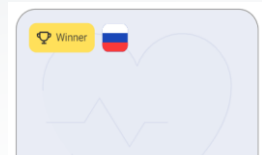
Winner 



Electronic Preliminary Voting Software complex for intraparty electronic voting


Development of state management institutes all over the world definitely also affects the party system in each...

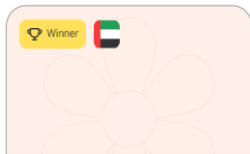
Winner 



Upper-limb prosthetics


Issue Addressed: Millions of people with limb loss or impairment struggle with prosthetics that lack functionality...

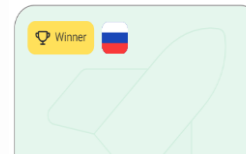
Winner 



iFarm - Indoor Farming Systems


The growing global population and increasing urbanization have placed significant pressure on traditional...

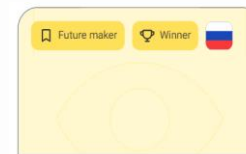
Winner 



High-speed X-band radio link


Problem to be solved: Low data transfer rate from spacecraft to land and sea objects with limited communication...

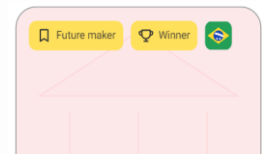
Future maker Winner 



Celsus - Centralized implementation of AI in the work of radiological services


We help doctors to take better care to their patients throw AI.

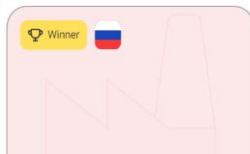
Future maker Winner 



Veever: Digital Accessibility Ecosystem

Globally, approximately 280 million people are visually impaired, and cities, public services, and infrastructures are...

Winner 



3D weaving: smart reinforcement of composite materials

Traditional polymer composite materials have a reinforcing structure that resembles a "layered cake" of...

Winner 



Educational platformeducational platform Pro Agro Lectorium...


1. Pro Agro Lectorium platform supports the values of sustainable development by helping farmers and students to...

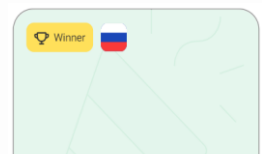
Winner 



Digital Transformation of Logistics Procurement and Management


Freight Procurement and Management is globally manual process increasing shipping and administrative costs...

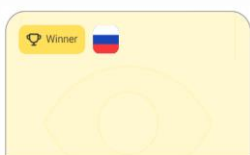
Winner 



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The development of cognitive technologies and the creation of new relevant solutions in this area, includin...

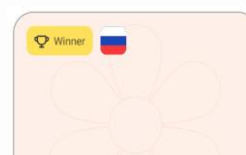
Winner 



Experiment on the use of innovative computer vision technologies for medical imag...


The project explores the potential for using AI in healthcare. AI processes the results of CT and MRI scans, X-rays...

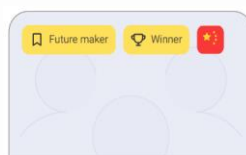
Winner 



Water and Wastewater Treatment System with Sodium Ferrate Solution, Produced On...


Water treatment problems have always been an integral part of the development of society. Water needs...

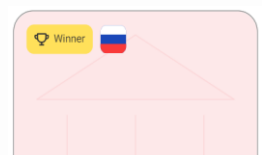
Future maker Winner 



Standardization work and BRICS Skills & Technology Standardization Working...


The BRICS Skills and Technology Standardization Working Committee (hereinafter referred to as the BRICS...

Winner 




The Digital Twin of Moscow

The Digital Twin of Moscow is an exact 3D copy (photogrammetric model) of the capital city of Russia, displaying all...

Future maker Winner 


Development, implementation and technical support of PHOTOMOD software solution...

Technologies of space optical-electronic and radiometric survey, survey of the earth's surface from oth...

Future maker Winner 

Enhancing Climate Resilience through Remote Sensing, AI, and ML: A Digital Approach to...

Dvara E-Registry (DER) is an AgFinTech startup offering climate finance to smallholder farmers, enabling them to...

Future maker Winner 


Functional microorganisms inhibit cadmium uptake and accumulation of crops in...

With the rapid development of industry and mining, cadmium (Cd) pollution is increasingly serious in farmland soil. C...

Winner 


Emergency Response System for Road Accidents ERA-GLONASS

Emergency Response System for Road Accidents ERA-GLONASS system is an effective way to increase the safety o...

Winner 


Midas Touch for Underground Space Utilization - Utilizing the sealed storage space in...

Under the energy transition and net zero goals, the BRICS expansion from 5 to 10 countries is accelerating the...

Winner 


Modular video analytics system (MSVA) based on computer vision for transport facilities...

Personal safety in public areas in the light of the growing number of acts of aggression and terrorism is also...

Future maker Winner 


The Fixies

Creating interesting, eye-catching, vivid and up-to-date content that would strongly appeal to children, in this...

Winner 


Energynet.Lab

Problems: - Lack of or Underdeveloped Cooperation Mechanisms: There are either no or poorly developed...

Winner 


VR.SHI | Cross-cultural project of visualization of Russian and Chinese poetry in VR

Problem: Traditional forms of poetry and art are limited in their ability to fully immerse the audience in the meaning...

Winner 


CryoSafe-42 is an ISO tank container for temporary storage and multimodal transportatio...

The use of hydrogen as an energy resource is one of the key options for the global energy transition, which is...

Future maker Winner 

Modular autonomous power plant Topaz Gamma M based on solid oxide fuel cell technolog...

As shown by the successful practical experience of Inenergy LLC in the use of power plants (with a capacity of...

Winner 

Geographic Information System "Territory" (TerGIS)

Preconditions for the creation of the TerGIS: 1.1. Import substitution and technological sovereignty (orders and...

The best practices and projects are assembled in the Digital Library that includes not only long-listed participants, but also the most interesting and promising initiatives, according to our experts.



Scan to see the best practices

Scan the QR-code to find the Technological Sovereignty model.





XVI BRICS Summit

Kazan Declaration

STRENGTHENING MULTILATERALISM FOR JUST GLOBAL DEVELOPMENT AND SECURITY

**Kazan, Russian Federation
23 October 2024**



118. Recognising that development of high technology products based on domestic technological capacity is a factor predetermining competitiveness of national economies contributing to sustainable and inclusive economic growth, we encourage technological cooperation among BRICS countries. We acknowledge the Chairship's initiative on the BRICS New Technological Platform under the umbrella of the BRICS Business Council, aimed at promoting technology and innovation cooperation between BRICS countries. We note the results of the BRICS Solutions Award 2024 that distinguished the best technological practices in priority areas of innovative development in the BRICS countries.

I am delighted to be able to be the part of this insightful and brainstorming sessions organised during the Technological Conference. It was impressive to see how NTI has categorised the technologies in the Periodic table as well as Maslov's hierarchy.

Pankaj Gaur, Dvara E-Registry, India



I would like to express my sincere appreciation to the group administrators for providing this valuable networking opportunity BRICS issues. It is an honor to be among such esteemed professionals!

Karl Elvis Nsumbu Mba, CA-BRICS, Gabone



Once again, I would like to express my gratitude for the excellent organization of the event. His visit was as comfortable and productive as possible!

Gleb Shilov, Russia



I want to thank you for the great opportunity to have participated in this important event. In fact it was the first time I participated in an event of this magnitude. Thank you and congratulations to all!

Maria Orlov, Brazil



I would like to share our gratitude for selecting LogisEye Solutions as one of the Winner of BRICS Solution awards. We are also very thankful for the participation at Workgroup discussion and also got an opportunity to present our solution at the Plenary session. It's indeed a great opportunity for all of us to mingle each other.

Shajan Thomas, LogisEye Solutions FZCO, Dubai, UAE

The events offered invaluable insights into the role of innovation and applied technology in achieving technological sovereignty and sustainable development. I particularly found the roundtable discussions and lectures at the R&D centers of Skolkovo extremely beneficial... I would also like to acknowledge the organizers' efforts in creating a platform that enabled productive dialogue, knowledge sharing, and networking.

Baskaran Manimaran. ECKLIEN4RAS LLP, India