

【アゼルバイジャン経済トピック 80 号】

在アゼルバイジャン日本大使館

2022 年 3 月 2 日

アゼルバイジャンにおける「第四次産業革命分析・調整センター」の設立

本年 2 月 23 日、経済省の下に「第四次産業革命分析・調整センター(CAC4IR :Centre for Analysis and Coordination of the Fourth Industrial Revolution)」が設立されました。設立に当たり、ボルゲ・ブレンデ世界経済フォーラム総裁が当地を訪れ、ジャバロフ経済大臣と共に設立に関する文書に署名しました。

世界経済フォーラムは、テクノロジーと政策のギャップの縮小を目指し、サンフランシスコに本部を置く第四次産業革命センター(C4IR)を中心としたネットワークを構築しています。同ネットワークは、中国、インド、日本に設置された C4IR と、UAE、トルコ、ルワンダ等に設置された C4IR アフィリエイトセンターで構成されています。今般アゼルバイジャンに設立された CAC4IR も同アフィリエイトセンターの一つとして位置付けられます。

CAC4IR は、情報インフラや法制度整備、ファイナンスへのアクセスや国民の IT(Digital)スキルの向上、サイバーセキュリティの改善に取り組んでいきます。

同センターより紹介資料をいただきました。CAC4IR の担当者連絡先が巻末に記載されていますので、必要に応じてご活用下さい。

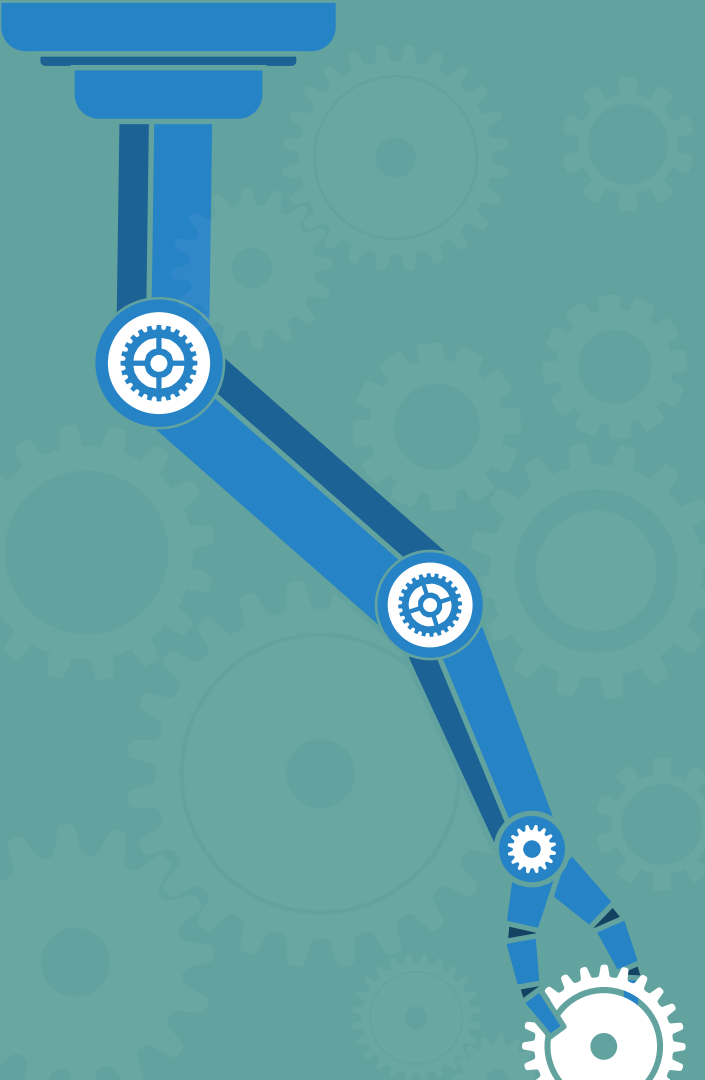
(以上)



THE REPUBLIC OF AZERBAIDJAN
MINISTRY OF ECONOMY



CENTER FOR ANALYSIS AND COORDINATION OF THE FOURTH INDUSTRIAL REVOLUTION (CAC4IR)



4. INDUSTRY

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Center for Analysis and Coordination of the Fourth Industrial Revolution

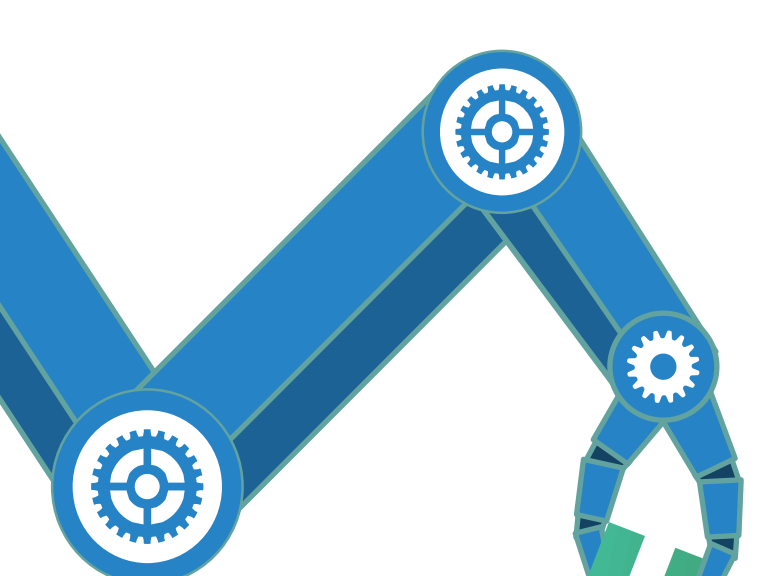
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C4IR Affiliate Azerbaijan Center

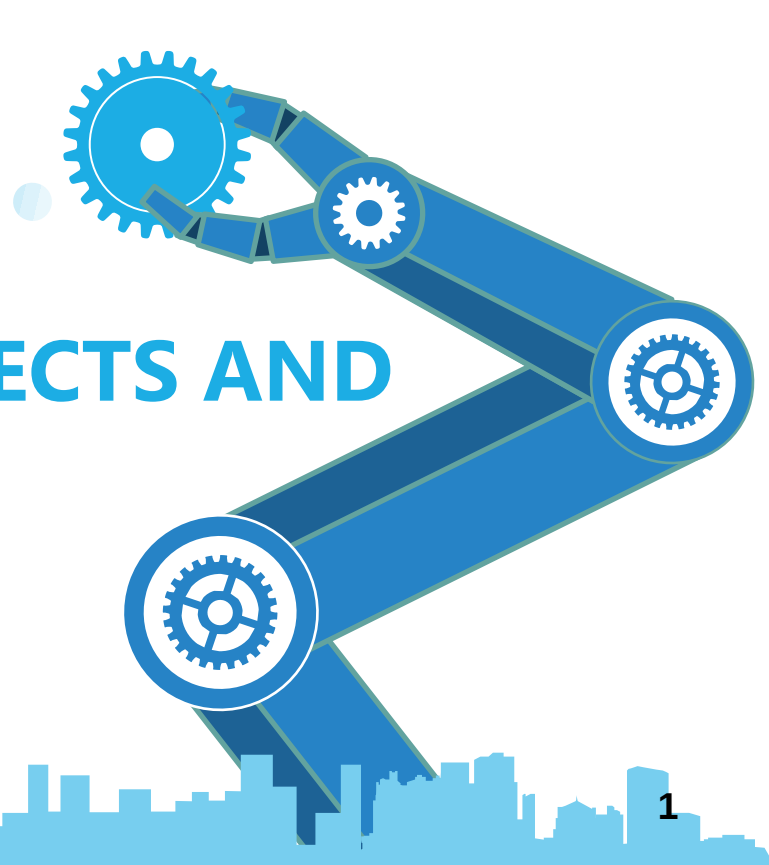
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INDUSTRY 4.0

CAC4IR AZERBAIJAN STRUCTURE, PROJECTS AND
FUTURE PLANS



AZERBAIJAN- AS ONE OF THE LEADING CENTERS ON THE MAP OF GLOBAL INNOVATIONS



Protocol of intent exchanged
between the President of the
Republic of Azerbaijan and the
President of the World Economic
Forum

6 JAN 2021

Official launch of C4IR Azerbaijan

23 FEB 2022

21 JAN 2020

Decree of the President of the Republic of
Azerbaijan on the establishment of the
"Center for Analysis and Coordination of
the Fourth Industrial Revolution" (CAC4IR)

1 APR 2021

Official launch ceremony of
C4IR Azerbaijan Office

Analysis and coordination of projects and strategies for the Digital Economy

WORLD
ECONOMIC
FORUM

Cooperation with international organizations and local institutions

WORLD
ECONOMIC
FORUM

CAC4IR

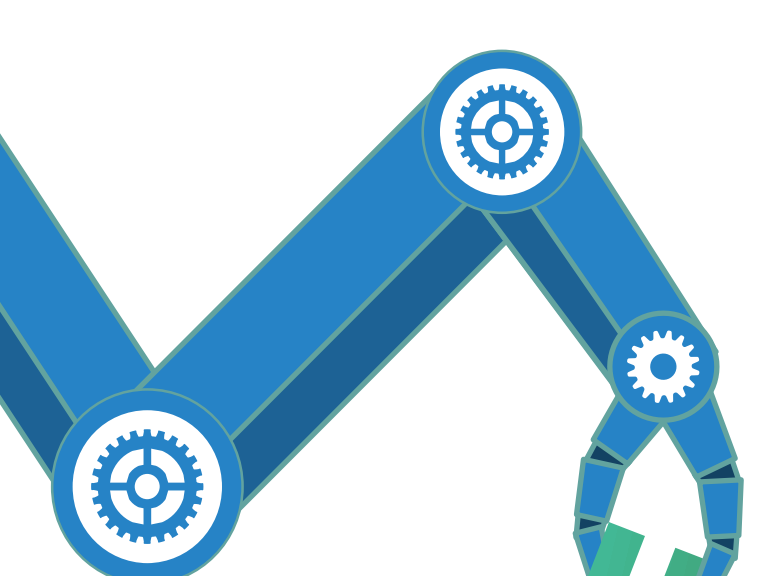
Partnership and Intellectual Thinking Platform

Implementation of initiatives, projects and strategies related to the application of the technologies of the 4th industrial revolution

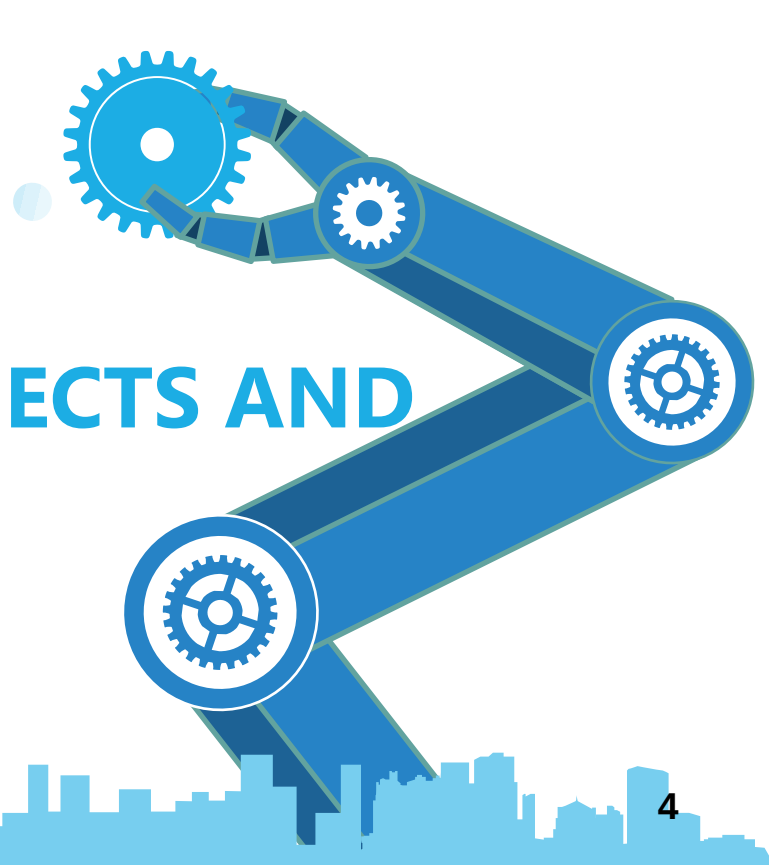
WORLD
ECONOMIC
FORUM

Coordination and promotion

WORLD
ECONOMIC
FORUM



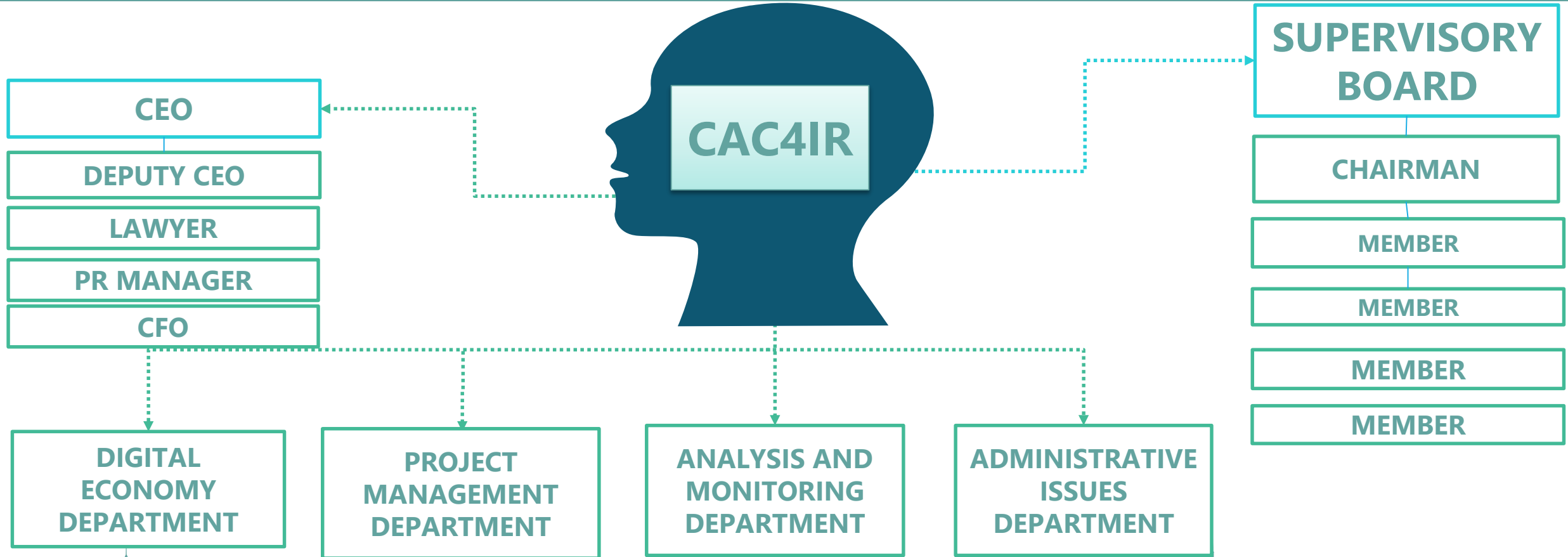
INDUSTRY 4.0



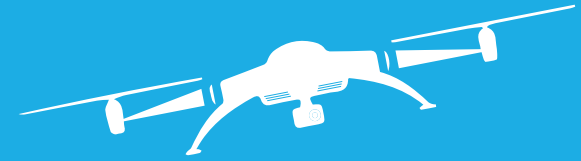
CAC4IR AZERBAIJAN STRUCTURE, PROJECTS AND
FUTURE PLANS



ORGANIZATIONAL STRUCTURE OF CAC4IR AZERBAIJAN



IMPLEMENTED PROJECTS



Preliminary map of the "Digital Economy ecosystem" (Please see next slide) and Develop an Action plan for the Digital Economy



Cooperation with the Chinese company iFlytek



Analysis of the "Digital Economy Ecosystem" jointly with UNDP and UNEC



Cooperation with Turkey in the field of "Digital Trade"



Joint cooperation with INKOEL on solar energy



IT Hub Azerbaijan program - cooperation with StrategEast



Joint event with BP "Digitalization: Challenges and Opportunities in the Energy Sector"



Meeting with Integral Petroleum



frAlday and IoTuesday events



DIGITAL ECONOMY ECOSYSTEM (AZERBAIJAN)

DIGITAL INFRASTRUCTURE AND SERVICES DEVELOPMENT

- ❖ High-speed broadband and mobile networks (5G technologies) to "haves"
- ❖ Accessibility and affordability of Internet to "have nots"
- ❖ Integration and interoperability of information systems, platforms and services within the government
- ❖ Mobile government, Ubiquitous government* services and network (anytime, anywhere to all)
- ❖ Smart Work Centers*
- ❖ Smart infrastructure to enable the effective use of 4th industrial revolution technologies
- ❖ Digital local content*

FINANCIAL RESOURCES

- ❖ Accessibility and affordability of financial resources
- ❖ Government Funds
- ❖ Alternative funding models/new financing sources
- ❖ Developing tailored lending practices through banks
- ❖ Digital Economy Financial Support System (Informatization Promotion Fund, Provision of loans and grants)
- ❖ Venture and startup funds
- ❖ Grants/subsidies
- ❖ Tax incentives
- ❖ Digital financial inclusion*

BRIDGING DIGITAL DIVIDE AND SKILLED HUMAN RESOURCES

- ❖ ICT skilled professionals
- ❖ Digital literacy* and readiness skills
- ❖ Data-driven society* (datafication)
- ❖ Individuals' online interactions
- ❖ Innovation and acceptance of new technologies
- ❖ Digital readiness*
- ❖ Public awareness about digitalization and new technologies
- ❖ Rural digital development (Invil* concept)
- ❖ trust and transparency in the "sharing economy"

1

Hard infrastructure

2

3

Soft infrastructure



STRONG LEADERSHIP AND EFFECTIVE INSTITUTIONAL COORDINATION

LAWS AND REGULATIONS

- ❖ Smart government Framework or Country-Level Digital Agenda
- ❖ Regulatory Framework to use 4th IR technologies and R&D Policies*
- ❖ A regulatory gap analysis and "regulatory sandboxes"*
- ❖ 4th industrial revolution technology ethics* (AI ethics, Machine learning and etc.)
- ❖ Regulatory framework for e-transaction, consumer protection, data protection, intellectual property and cyber security
- ❖ data-driven regulation+, including data privacy and protection (GDPR)
- ❖ Digital identity frameworks (a single user sign-on)

APPLICATION OF THE 4TH IR TECHNOLOGIES

- ❖ Adoption of 4IR technologies in the following areas:
-digitalisation of environment and ecology, transport, logistics, industry and energy, agriculture, trade and investments, banking, health&education and other related sectors

CYBERSECURITY AND DATA FLOWS

- ❖ Facilitate data access, sharing and re-use (data partnerships)
- ❖ Protection of cyberspace against cyber threats
- ❖ Situational awareness and real time monitoring capacity system
- ❖ Establishment Cybersecurity Operation Centers*
- ❖ Cross-border data flows
- ❖ Cyber-Physical Systems* (CPS)

DIGITAL NETWORKING

- ❖ PPP
- ❖ Government-Business-Academia cooperation
- ❖ University-industry partnership
- ❖ Techno parks, co-working spaces, accelerator and incubator networks
- ❖ International linkages
- ❖ Field experts

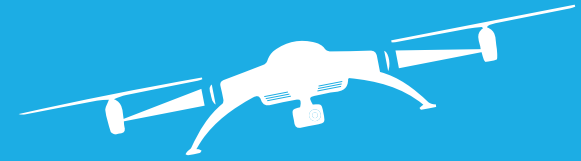
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6

7

ONGOING PROJECTS



Establishment of the Working Group on "Disruptive Technologies"



Cooperation with the Skolkovo Foundation



Implementation of a joint project with UNDP, State Committee for Urban Planning and Architecture



Participate in initiatives related to hydrogen energy



Cooperation with participants of the Israeli innovation ecosystem



Cooperation between Turkish MESS and 4SIM



Coordination of the Digital CAREC project



Cooperation with the State Agency on Mandatory Health Insurance on the digitalization of health and healthcare system



Participation in the working group on the Strategy "Azerbaijan 2030: National Priorities for Socio-Economic Development"



Joint cooperation with the UAE



Participation in the working group "Smart city" and "Smart village"



MEETINGS AND EVENTS



LIST OF MEETINGS

Meeting with Integral Petroleum (February 2021)

Meetings on cooperation with the Asian Development Bank, UNDP, Islamic Development Bank (March, October 2021)

Meeting with «500 Startup» (March 2021)

Cooperation meeting with SAP (April 2021)

Meeting with Simba Group (June 2021)

Meeting with the International Bank of Azerbaijan (July 2021)

Joint meeting of the Trade Representation of Azerbaijan in China with the Chinese company IflyTek (July 2021)

Meeting with Deloitte Representative Office in Azerbaijan (August 2021)

Meeting with EY Representative Office in Azerbaijan (September 2021)

Cooperation meeting with INKOEL (October 2021)

MEETINGS AND EVENTS



LIST OF EVENTS

Conference "Ukraine Cluster Week 2021" (April 2021)

Conference "BIM - Design and Digitalization in Industry" (April 2021)

"Assessing the Impact of Industry 4.0 on Jobs and Skills in the Fastest Growing Areas in Central Asia" Asian Development Bank (moderated by T. Tagiyev) (May 2021)

"Artificial Intelligence for Digital Conference" (May 2021)

Participation in the meeting of the CIS Working Group on Digital Economy (May 2021)

Second meeting of the UNCTAD Working Group on Measuring E-Commerce and the Digital Economy (May 2021)

EU4digital E-Commerce Event (May 2021)

OECD Eurasian Webinar: Digitalization in the Eastern Partnership Countries (May 2021)

Change for Corporate Leadership Systems SDGs Symposium (May 2021)

Existing Fourth International Conference on Industrial Revolution Technologies (Tamerlan Tagiyev as speaker) (July 2021)

Meeting of the Council of Turkic Speaking Countries in Baku (September 2021)

Speech on "Ongoing measures and key challenges in the field of digitalization in member countries of Conference on Interaction and Confidence Building Measures in Asia " (September 2021)

MEETINGS AND EVENTS



LIST OF EVENTS

OECD Investment Promotion and Digital Transformation (October 2021)

Speech of the Center's management and employees at the panel on «Adoption of the technologies of the 4th industrial revolution in Azerbaijan" at the exhibition «Rebuild Karabakh" (October 2021)

Participation in the UNDP project "Raqamliol.az", informative video recording on the application of the technologies of the 4th industrial revolution in SMEs (October 2021)

“Launch of the Inclusive Digital Economy Scorecard in 25 countries” UNCDF (Oktyabr 2021)

«EU4Digital ICT Innovation: İspaniya və Litvadan startup Virtual session with the startup ecosystem builders from Spain and Lithuania (Oktyabr 2021)

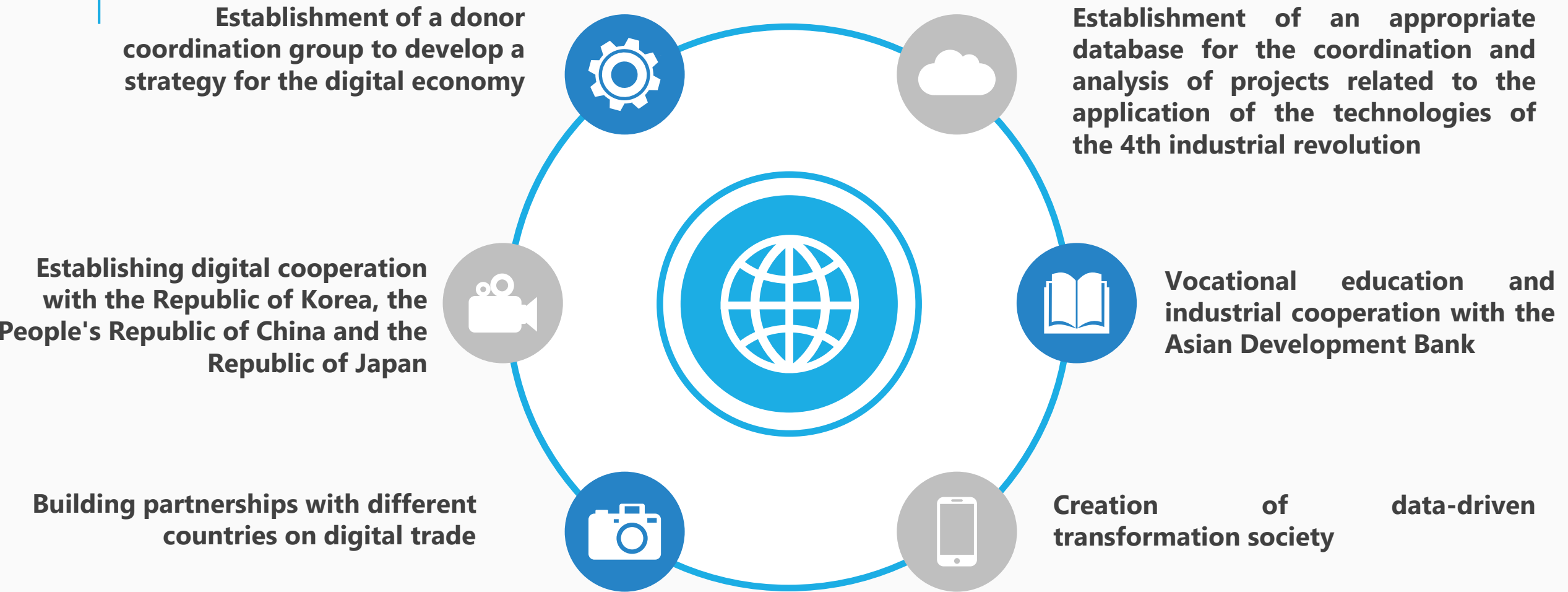
"E-government seminar" Islamic Development Bank (T. Tagiyev is expected to speak as a speaker) (November 2021)

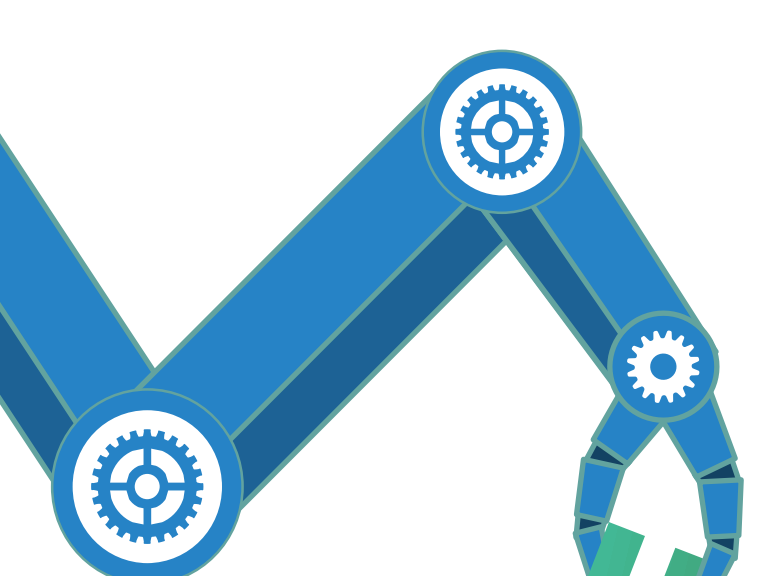
UNECE Working Group on Innovation and Technology for Sustainable Development (November 2021)

Participation in the OECD Advisory Group on SME Digitization (October 2021)

“StrategEast IT State and Eurasia Forum” (9-10 November 2021) Bishkek, Kyrgyzstan

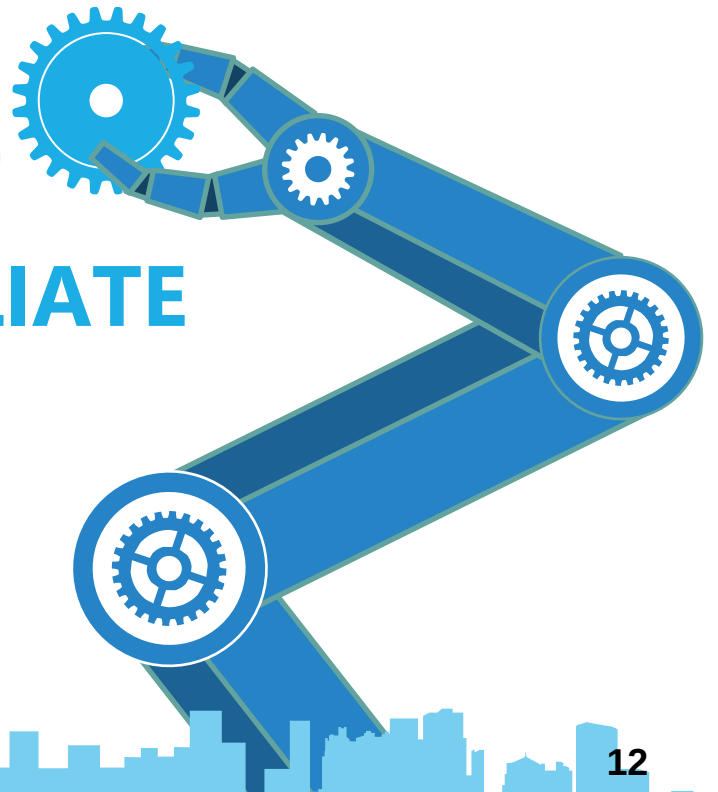
FUTURE PLANS





INDUSTRY 4.0

IMPLEMENTED PROJECTS OF C4IR AFFILIATE
AZERBAIJAN CENTER



COOPERATION WITH WEF

Our country will cooperate with WEF on 3 PLATFORMs through the Affiliate Center

VANDANA MENON-
Government officer



1.
ARTIFICIAL
INTELLIGENCE AND
MACHINE LEARNING



HUBERT HALOPE

Artificial Intelligence
Platform Coordinator

2.
INTERNET OF THINGS
AND URBAN
TRANSFORMATION



SAIFUL SALIHUDIN

Internet of Things
Platform Coordinator

3.
DIGITAL TRADE



YAN XIAO

Digital Trade
Platform Coordinator

Within the framework of these platforms, C4IR, in cooperation with the Central World Economic Forum, implements and coordinates projects in our country on "Artificial Intelligence and Machine Learning", "Internet of Things and Urban Transformation" and "Digital Trade", as well as all participates in initiatives, meetings and events.

EVENTS PARTICIPATED



LIST OF EVENTS

«Global Leadership Fellows Programme» (May 2021)

Weekly Meetings on Platforms (Regular)

"AI National Strategy Peer Network Workshop" (Mütəmadi)

"Artificial Intelligence for Humanity: A Unified Approach to Artificial Intelligence"

"Israel National Drone Initiative - 3rd International Workshop" C4IR Israel

"Return to the Future: Topics for Long-Term Sustainability in Production" C4IR TURKEY

AI Expo Africa Exhibition

"4.0 Cities Conference & Exhibition 2021"

World Economic Forum Open Houses Series: Digital Industries 2021

E-Commerce Terminology for Trade Policy Discussionists

"Development of Digital Trade in the Eurasian Region"

Future Plans (Within cooperation with WEF)

AI AND MACHINE LEARNING

1. "AI Board Toolkit" workshop
For public and private institutions operating in our country
2. Application of AI "Procurement in Box" project in our country
3. Application of AI technologies using data for forecasting in certain areas

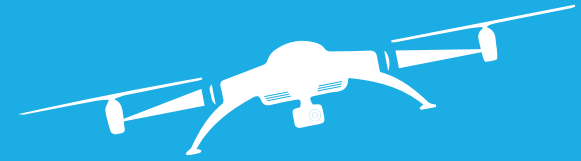
IoT AND URBAN TRANSFORMATION

1. Adoption of Internet of Things technologies to SMEs
2. Close cooperation with the Turkish "Internet of Things" platform
3. Maker Space for IoT & Hardware
4. "Virtual Eye" project
5. Application of IoT solutions in crop cultivation in Azerbaijan

DIGITAL TRADE

1. Business process analysis (BPA) for the export of a particular product , the study of mechanisms

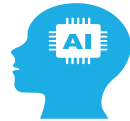
FUTURE GOALS



DIGITAL ECONOMY STRATEGY

- ADOPTION OF **NATIONAL DIGITAL STRATEGY**
- STUDY ON **CURRENT STATUS OF DIGITAL ECONOMY** IN AZERBAIJAN
- **MEASUREMENT OF DIGITAL ECONOMY** IN AZERBAIJAN
- DATA-DRIVEN ECONOMY
- CREATION OF **REGULATORY LABS**

DIGITAL ECONOMY



AI NATIONAL STRATEGY

- ADOPTION OF **NATIONAL AI STRATEGY**
- APPLICATION OF **AI IN FORECAST PREPARATION**

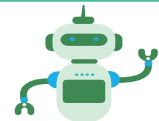
AI AND MACHINE LEARNING



DIGITAL TRADE FACILITATION

- DEVELOPMENT OF **DIGITAL PAYMENTS**
- **BPA ANALYSIS FOR THE EXPORT OF A PARTICULAR PRODUCT**, THE STUDY OF MECHANISMS
- FACILITATE **CROSS-BORDER TRADE** THROUGH DIGITAL MEANS

DIGITAL TRADE



4TH INDUSTRIAL REVOLUTION STRATEGY

- ADOPTION OF **NATIONAL 4th IR STRATEGY**
- **DIGITAL TRANSFORMATION** OF PRIVATE AND PUBLIC SECTOR ORGANIZATIONS
- ASSISTANCE IN **ADOPTION OF 4IR TECHNOLOGIES IN SMEs AND SOCs**
- **CAPACITY BUILDING TRAININGS** FOR CAC4IR AZERBAIJAN
- APPLICATION OF IOT SOLUTIONS IN AGRICULTURE AND INDUSTRY

4IR TECHNOLOGIES



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