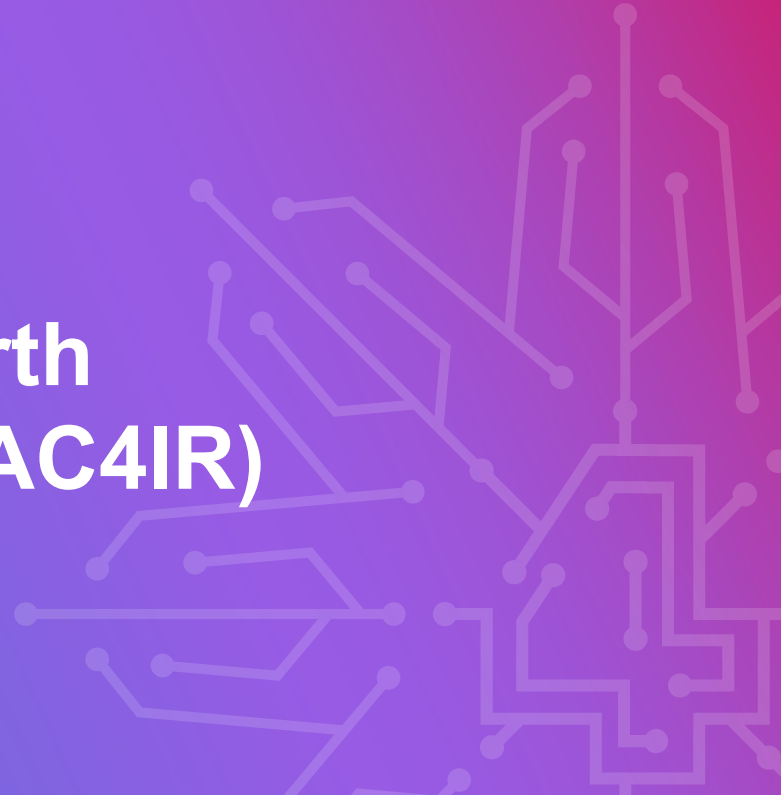


# Center for Analysis and Coordination of the Fourth Industrial Revolution (CAC4IR)

Tamerlan Taghiyev

Executive director





# Agenda



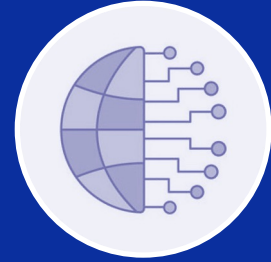
Digital  
Economy



Internet of  
Things



AI and  
Machine  
Learning



Digital  
Trade

Investment opportunities in



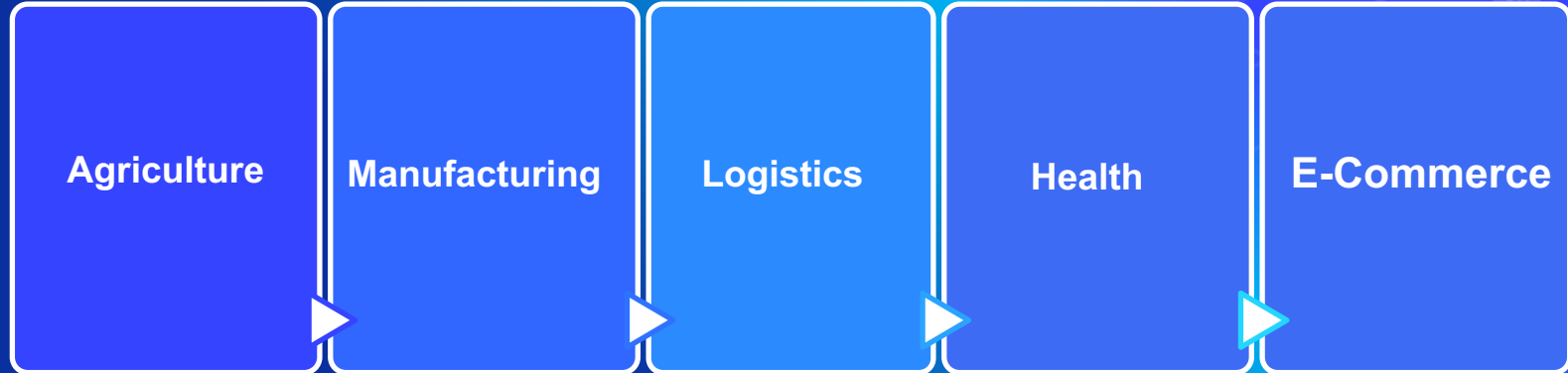
“ Azerbaijan, which has experienced impressive economic growth over the past two decades, is home to a friendly and hospitable business environment, one that welcomes and encourages foreign direct investment (FDI).





# GROWING SECTORS AND 4IR

- There are many sectors where 4IR Technologies can be applied





# Digital Economy

Investment opportunities





# DIGITAL TECHNOLOGIES

Worldwide spending on digital transformation technologies is projected to be more than \$1.3 trillion in the near future

Over the past 5 years, Azerbaijan made significant progress in improving its business environment and fostering SME development. The country's oil-focused economy is being diversified by creating new digital and tech advanced opportunities within the agriculture, construction, education, industry, tourism and ICT sectors.

A stylized digital globe on the left side of the slide, composed of glowing blue dots and lines, representing a global network or data flow. The background is a gradient of blue and purple with abstract geometric shapes and lines.

# DIGITAL ECONOMY

## Main areas:

- ⬡ Digital Infrastructure and Service Development
- ⬡ Accessibility and Affordability of Financial Resources
- ⬡ Skilled Human Resources and Bridging Digital Divide
- ⬡ Regulatory Framework to use 4IR Technologies
- ⬡ Cybersecurity and Data Flows
- ⬡ Application of the 4IR Technologies
- ⬡ Digital Networking





# 4IR Tech: Internet of Things, AI and Machine Learning

Investment opportunities







# Adoption of 4IR Technologies

## SECTOR IS GROWING RAPIDLY including in AZERBAIJAN

The digitization in our day-to-day activities has been revolutionized by the 4IR Technologies. Based on Gartner's Forecast database, it was expected that there will be approximately 14 billion devices connected to the internet by 2022. It is estimated that the investment in IoT solutions only by international companies will exceed \$70 billion in nearest.





# Invest in 4IR: IoT, AI, MACHINE LEARNING

- Health– AI Based healthcare solutions: AI based diagnostics, Healthcare assistants
- Transportation – 19228 km of roads where smart management and maintenance tools can be applied
  - Smart lighting and traffic lights systems;
  - Infrastructure to enable non-combustion and/or autonomous vehicles
- Industry and Agriculture
  - Smart industry solutions, Automated resource management, automated and smart planting, Computer Vision oriented solutions in plant production
- Education
  - Smart student and teacher assistance systems
- Local Startups are adopting 4IR technologies to bring solutions in different fields such as:
  - Climate Change and predictions
  - Natural Language Processing: Speech recognition, Speech generation
  - Smart Waste Management
  - Smart Water management
  - AI supported Education
  - AI based diagnostics





# Invest in Youth and Education

- Young, dynamic and eager to learn community:
  - Around 15 000 students every year in Vocational Education
  - Around 50 000 students every year in Higher Education (Bachelor)
  - Increasing interest in 4IR related fields like AI/ML, Data Analytics, IoT and etc.
- Education opportunities in 4IR technologies:
  - Establishing Universities focused on 4IR technologies
  - Establishing Research centers focused on 4IR technologies





# Digital Trade

Investment opportunities





# Digital Trade

- Our region has enormous potential for further digital trade growth. Azerbaijan continues to take part in multilateral, regional and bilateral digital trade discussions to maximize the benefits for businesses and consumers.
- Azerbaijan participates in several e-commerce related multilateral discussions and negotiations
- Azerbaijan has signed and is planning to sign Agreements and Memorandum of Understandings in the field of Digital Trade with multiple trade partners.
- Only around 1/3 of Azerbaijan businesses are already engaged in the digital economy in some way, and this number is an indicator of “giant room for improvement”.





# INVEST IN DIGITAL TRADE

- ◻ ICT services as a backbone of Digital Trade
  - providing the necessary infrastructure and underpinning the digitization of services in local and cross-border trade
  - Data Governance for Digital Trade
  - helping MSMEs go digital and adopt new technologies and business models
- ◻ Be a part of the adoption process of the international payment systems, tools, mechanisms and platforms
- ◻ Build e-commerce platforms in Azerbaijan
  - Only a few of online selling platforms in Azerbaijan have cross-border operations
- ◻ Development of Rural e-commerce
- ◻ Adoption of track and trace systems for logistics
- ◻ Application of digital technologies in the field of customs control and customs clearance



# Smart and Green Karabakh

Investment opportunities







# Smart Karabakh

Priority areas for Digital Development in  
KARABAKH:

- Transport
- Agriculture
- Security
- Health
- Tourism
- ICT infrastructure
- Education
- Ecology
- Power and water supply





# Green Karabakh

- According to the Order of the President of the Republic of Azerbaijan dated May 3, 2021 "On measures to establish a "green energy" zone in the liberated territories of the Republic of Azerbaijan", a "green energy" zone will be established in Karabakh and East Zangazur.
- "Green zone" will cover the use of *renewable energy sources, energy efficiency, environmentally friendly technologies*, including the use of vehicles and other issues.



# THANK YOU!

## QUESTIONS?

You can mail me at:

[tamerlan.taghiyev@4sim.gov.az](mailto:tamerlan.taghiyev@4sim.gov.az)

