### Infrastructure in Eurasia: Short-Term and Medium-Term Trends



### **10 KEY TRENDS IN EURASIAN INFRASTRUCTURE**







**TREND 6** 

Links between the East-West and North-South corridors create synergies in transportation and logistics



Gas transportation infrastructure is turning eastwards



TREND 3

The infrastructure of food production and logistics is expanding



**TREND 4** 

Rapid urbanisation boosts demand for sustainable urban infrastructure in Central Asia



**TREND 9** 

Advancement of regional cooperation in the water and energy complex of Central Asia



**TREND 5** Development of digital components of retail financial services and public sector is accelerating





**TREND 10** Activity in irrigation infrastructure is gaining momentum in Central Asia

Booming construction of

warehousing and logistics

growth of e-commerce

infrastructure driven by the



**TREND 7** 

Reduction in transit is offset by expansion of cargo turnover with China

**TREND 8** 

Central Asia is deepening cooperation with China in the power generation sector



# Links between the East–West and North–South corridors create synergies in transportation and logistics

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### Eurasian gas transportation infrastructure is turning eastwards

# 02 Eurasian gas transportation infrastructure is turning eastwards





### **Perspective projects:**

- new gas pipelines and gas distribution networks
- gas storage facilities
- LNG production facilities and regasification terminals
- production of tank containers, including cryogenic tank containers
- gas chemical facilities, etc.

## The infrastructure of food production and logistics is expanding



### The infrastructure of food production and logistics is expanding





orth-South ITC infrastructure –

North-South ITC infrastructure – agricultural logistics is a priority

**Expanding exports** stimulate the development of **southward agricultural logistics** (2027: Rasht-Astara, etc.)

#### **Perspective projects:**

- Infrastructure construction and modernisation
- Infrastructure for new routes
- Eurasian Agroexpress, Eurasian Commodity Distribution Network
- Devising and implementing digital logistics technology

### Rapid urbanisation boosts demand for sustainable urban infrastructure in Central Asia



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### **Development of digital components of retail financial services and public sector is accelerating**

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#### Significant potential for greater digitalisation





million people

Internet coverage in Central Asia by 2028 (70% in 2022)

*Internet users in Central Asia by 2028 (53 million people in 2023)* 

Source: KPMG

High digitalisation and advanced digital sectors (public services, finance) in certain countries within the region foster the transformation of the entire economy and smaller nations.

#### **Perspective projects:**

- Construction of cross-border communication lines
- Digitalisation of services, including healthcare (telemedicine), tourism, etc.
- Projects to develop seamless transport corridors and smart energy networks
- Projects to ensure efficient water use, balance the pressure on urban infrastructure, etc.



### Booming construction of warehousing and logistics infrastructure driven by the growth of e-commerce

# 06 Booming construction of warehousing and logistics infrastructure driven by the growth of e-commerce



### Explosive growth of e-commerce and record-high warehouse commissioning

25% 4.9 average annual growth rate of the e-commerce market in the region warehousing in

*increase in the area of commissioned warehousing in Russia in 2023* 

million m<sup>2</sup>

Source: DataInsight

#### **Perspective projects:**

- Construction of warehousing and logistics infrastructure
- Development of the digital component of e-commerce
- Manufacture of heavy- and light-duty trucks
- Redirecting logistics routes eastwards and repurposing western logistics facilities (Prilesie, etc.).



### Reduction in transit is offset by expansion of cargo turnover with China

## Reduction in transit is offset by expansion of cargo turnover with China





- Redirecting trade drives infrastructure development.
- Improvements in logistics infrastructure (*TLCs, dry ports, container terminals*) foster the development of container services and boost container traffic with China.

#### Focus on:

- new routes and border checkpoints in the Eastern Range (*Russia–China link*)
- North and Central Eurasian Corridors (*China– EAEU and China–EU links*)
- Trans-Caspian International Transport Route (China–Turkey link)
- Bakhty–Ayagoz, China–Kyrgyzstan–Uzbekistan corridor (*China–Central Asia link*)
- other latitudinal initiatives

### Central Asia is deepening cooperation with China in the power generation sector

# OB Central Asia is deepening cooperation with China in the power generation sector





channelled into power generation

80%

#### Share of Central Asia in XUAR's foreign trade

**\$ ♦ ₽** 

Bringing relationships to a new level

### Xi'an Declaration 5+1

**Source:** China's statistics agency

#### In Kazakhstan:

- a 1 GW wind farm in the Zhambyl Region
- a long-term uranium supply contract with Kazatomprom
- authorisation for Ulba-TVS LLP to produce AFA 3G Type A fuel assemblies

### In Uzbekistan:

- solar power plants with a total capacity of 2,000 MW in the Jizzak and Tashkent Regions
- three hydroelectric storage power plants worth US \$1.64 billion
- upgrading high-voltage grids and substations
- cooperation in the uranium industry

### In Kyrgyzstan:

- a 1,000 MW solar power plant in the Issyk-Kul Region
- a 220–500 kV high-voltage power transmission line, the Kazarman HPP cascade and small HPPs

### Advancement of regional cooperation in the water and energy complex of Central Asia



### Advancement of regional cooperation in the water and energy complex of Central Asia

### Need for coordinated solutions in the Aral Sea basin



**81%** of the population (60 million people) live in the Aral Sea basin

Low water use

efficiency



### US \$25 per m

water use efficiency (SDG 6.4.1) in Central Asia compared to the world's average of US \$19 per m<sup>3</sup> per year



Growing pressures on water resources

Source: UN

#### Construction of large hydropower plants and other facilities in Central Asia is transitioning into the practical phase

- construction of major hydropower plants (Kambar-Ata 1, Rogun)
- small hydropower plants
- increase in the construction of renewable energy facilities supported by foreign investment, etc.

### Forms of joint financing are being devised and international and regulatory initiatives are advancing:

- project-specific consortia
- international initiatives in Central Asia's water and energy complex (EDB, ADB, WB and others)
- implementing a water accounting system at the regional level - Kazakhstan's initiative
- Kazakhstan's chairmanship of the IFAS in 2024

### Activity in irrigation infrastructure is gaining momentum in Central Asia

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## Activity in irrigation infrastructure is gaining momentum in Central Asia



Source: EDB estimates based on data from ICWS SIC.



"By 2040, the water deficit in Kazakhstan may escalate 12 to 15 billion cubic metres; however, the implementation of water conservation technologies is very slow and there is no culture of responsible water consumption in the country."

Kassym-Jomart Tokayev, President of Kazakhstan

- Water resources have been prioritised in the economic policies of all Central Asian countries
- Kazakhstan: constructing 20 new water reservoirs and rehabilitating 15 existing ones; halving water losses during transportation; increasing available water resources by 3.7 km<sup>3</sup> per year; refunding up to 80% of the cost of water-saving technologies; introducing digital technologies covering more than 3,500 km of canals; automating water accounting, etc.
- Uzbekistan: upgrading 80% of pumps; installing water meters; reinforcing canals; reducing annual water losses by 5 to 6 billion m<sup>3</sup>; upgrading irrigation systems, etc.

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