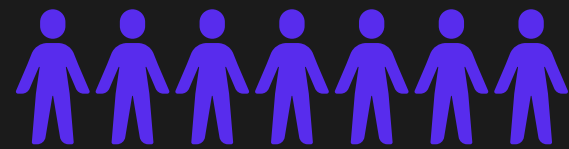StrategEast
center for a new economy

astana hub

Development of Kazakhstan's IT industry export
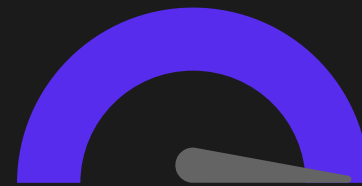
9:41

GLOBAL IT TRENDS

Personnel shortage

4 mln

will be the lack of IT specialists in the World by 2030

New Specializations

**DevOps
Data Scientist
Machine Learning
Engineer**

rapid growth in demand

Rapid changes

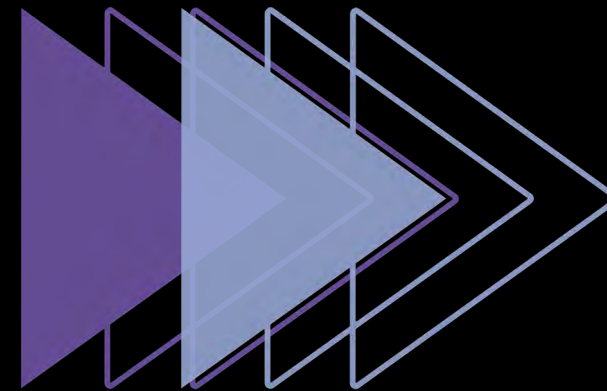**Big Tech**

Specialists should teach new specialists

KAZAKHSTAN'S IT CHALLENGES

$130 mln

IT export revenue in 2021

$500 mln

Target
IT export revenue in 2025

83,6 K

IT specialists in 2021

200 K

IT specialists in 2025 minimum

FOUNDATION FOR THE FUTURE GROWTH

01

digital infrastructure, environment and literacy

02

covering local demand

03

prioritized and supported by the government

04

reliable and trustworthy, attractive geopolitically

05

diverse, equal and inclusive

IT-INDUSTRY AT THE COUNTRY LEVEL

The volume of investments in Kazakhstan startups – around $ 141 million

The total Kazakhstan ICT market in 2021 is estimated at $ 2.3 billion, which represents 3% of GDP

30th place in the World Index of Development of ICT

63rd Place in the WEF "Global Innovation Rating"

The volume of IT products exported amounted to $ 130 million

Number 1 in regional ranking for Innovation and Start Ups Ecosystem

State Support Program "Digital Kazakhstan" with the budget of $ 1 billion

Market Attractiveness

INVESTING IN HUMAN CAPITAL DEVELOPMENT

39 IT schools

have been opened (last 2 years)

20K IT specialists

are graduated every year in Kazakhstan

~ 9K grants for IT specialists

allocated by the Ministry of Education and Science

55% increase in demand

of qualified IT specialist for the last 2 years

Tech Orda

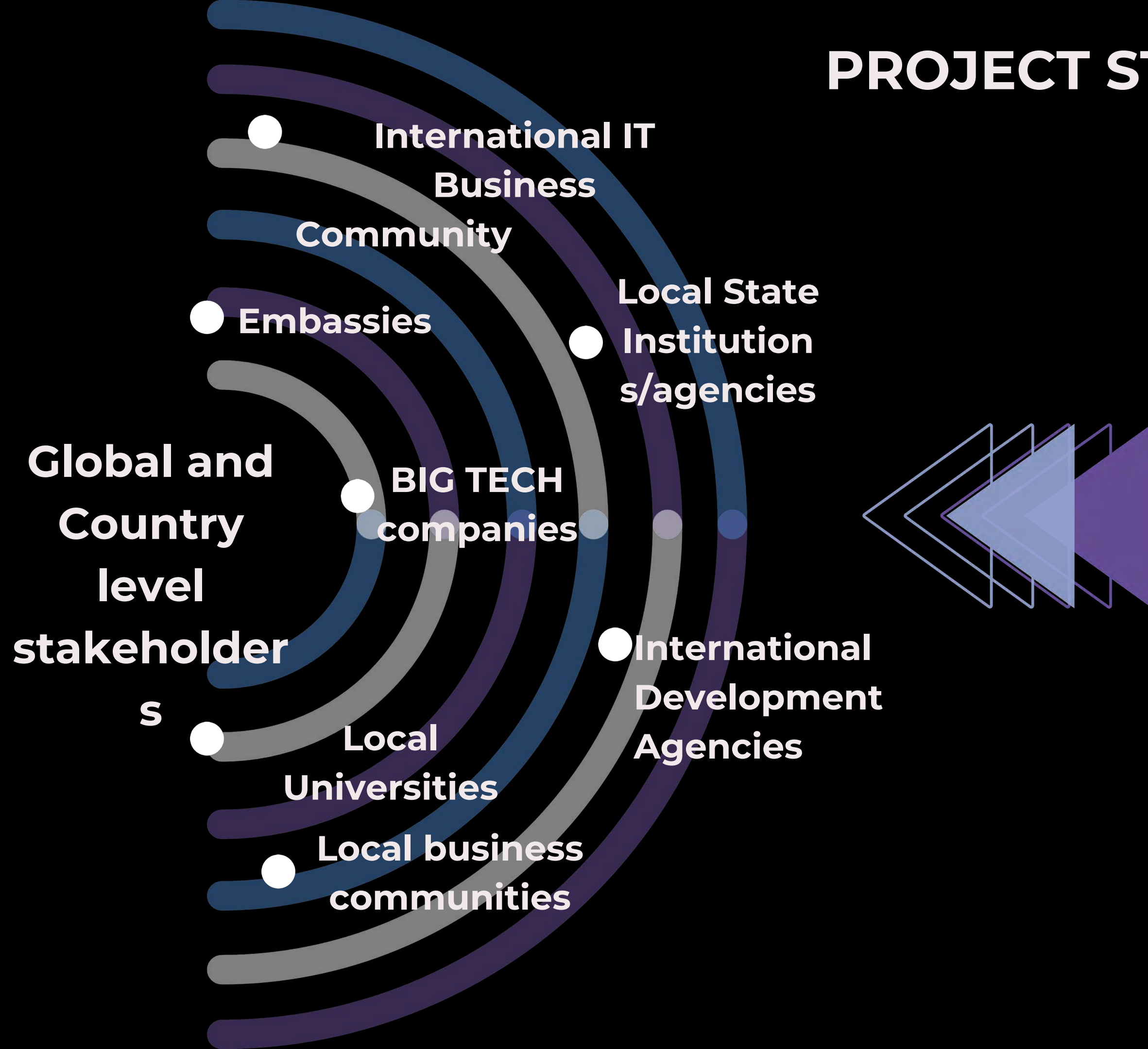## Financing program for the training of Kazakhstani IT specialists

- **49 IT schools received funding**

- **Training for new IT specialists**

- **~ $1.2K - grant for 1 student**

- Goal: 20K trained specialists

TOP 3 courses:
- Front-end development
- Full-stack development
- Software engineering

**3K vouchers
in 2022**

PROJECT STAKEHOLDERS

International IT Business Community

Local State Institutions/agencies

Embassies

Global and Country level stakeholders

BIG TECH companies

Local Universities

International Development Agencies

Local business communities

We bring together relevant stakeholders to accelerate the Kazakhstani IT export and provide local specialists with quality training.

BIG TECH COMPANIES' ROLE IN THE PROJECT

Tech Orda

01 Training of the workforce based on the best practices company's demands

02 Hiring trained specialists

03 Opening of R&D Centers, joint research and development of the IT industry

04 Big Tech presence in Kazakhstan being a participant of Technopark

Tech Orda

UNIVERSITIES AS A SOURCE OF MANPOWER

01 Selection of students to the Tech Orda program

02 The motivation of the students on non-university training, working on students' involvement by cross-crediting subjects

03 Joint research and development of the IT industry demands

04 Joint work with Big Tech on the adaptation of university programs to the needs of the global market

INVOLVEMENT ON A COUNTRY LEVEL THROUGH A UNIVERSITIES NETWORK

Tech Orda

113
Universities in KZ

64
Target Universities (having technical specialties)

5
Cooperation memorandums in 2022

20
Cooperation memorandums in 2023

5 Kostanay
1 Petropavl
4 Pavlodar
3 Kokshetau
4 Semey
3 Oskemen
4 Uralsk
4 Aktobe
15 Astana
1 Zhezkazgan
6 Karaganda
1 Taldykorgan
3 Atyrau
3 Kyzylorda
3 Turkestan
2 Taraz
39 Almaty
3 Aktau
9 Shymkent

International Development Organizations – as a key to sustainable development

01 Principal partnership with Government managed projects and co-financing of the Tech Orda program

02 Facilitation of IT specialists' preparation and job creation all over the country

03 A joint effective model for sustainable development of the industry

04 Contribution to leading the local market to significant global achievements

Summary

Scale-up of the program will only be possible with the broad support of
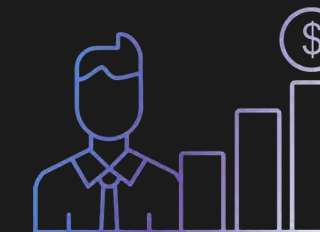
Big Tech Companies

State Agencies

Universities

IDOs

Investors

Young people eager to develop themselves in IT

LET'S WORK TOGETHER ON KAZAKHSTAN TO BE ON THE MAP OF GLOBAL TECH HUBS!

Thank You
for your attention!