

Sharing experience of Giga: perspective of the Republic of Kazakhstan

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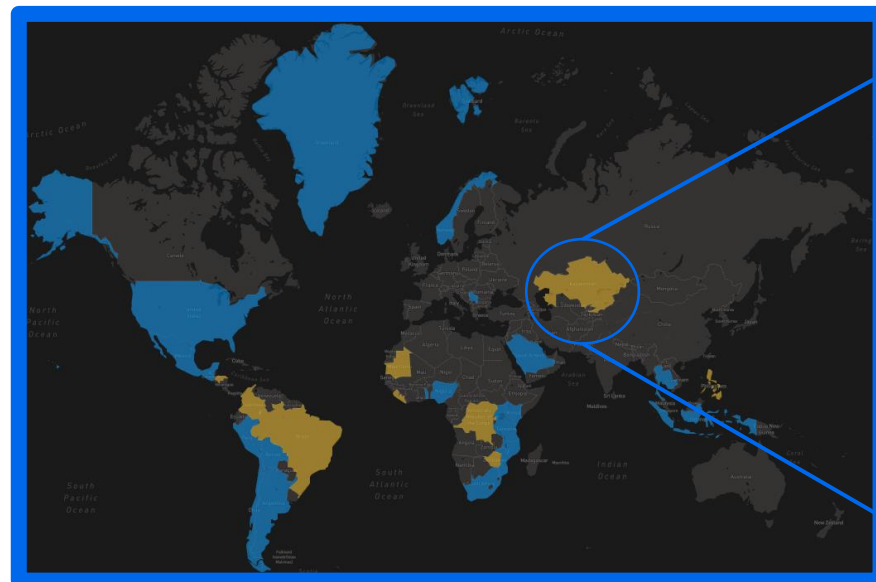
Content

- Giga initiative in Kazakhstan
- Giga Daily Check SW to monitor Internet Speed
- Connecting 38 schools of South Kazakhstan
- Raising the speed in schools with the fiber
- Fiber to 2009 inhabitant localities in 2024-2027 to cover all schools
- Approx 500 schools provided by the satellite
- Plans

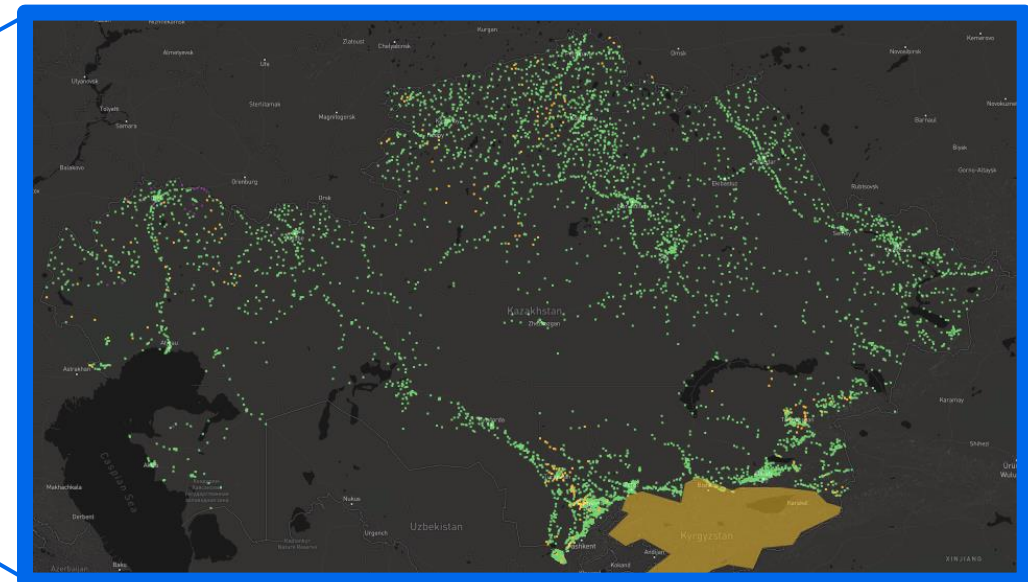
Giga: Kazakhstan – Regional Leader

Mapping schools on connectivity status

7000 schools mapped on projectconnect.com



■ In progress ■ completed

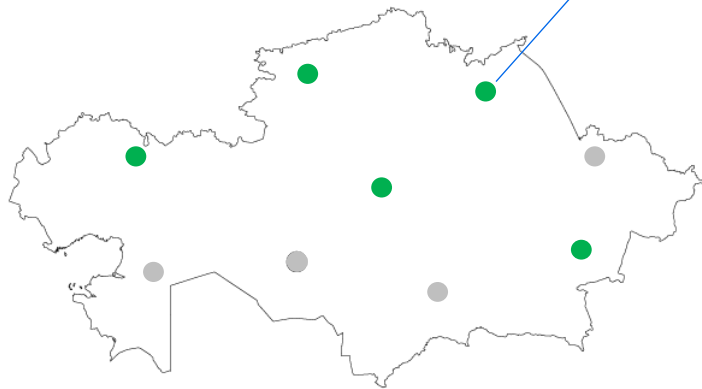


● Internet speed above 3 Mb/s
● below 3 Mb/s
● Not connected

Achievements : Giga Daily Check SW in > 4000 schools

- Daily Check SW in more than 4000 schools linked to the projectconnect.com platform
- Internet speed is monitored by Giga in 60% of all schools countrywide
- Next step is the link all schools to the dashboard of the MoE via Giga API

Experience of 38 schools in the South Kazakhstan



The implementation in 2021 of a pilot project to connect 38 Kazakh schools that do not have Internet access included the following steps:

- Determination of the list of schools for the pilot.
- Obtaining technical parameters to find the best connection method.
- Organization of financing.
- Search for contractors.
- Coordination and acceptance of works.

After the completion of the pilot project, the results and conclusions formed the basis of an updated final model of financing and interaction of all stakeholders.

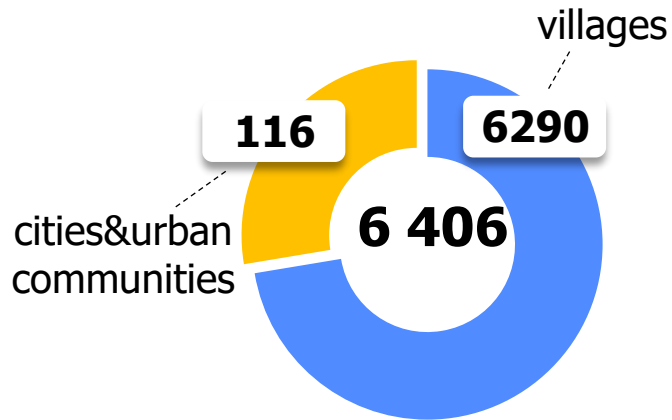
Achievements : 38 schools connected to the broadband Internet the South Kazakhstan

Problems identified:

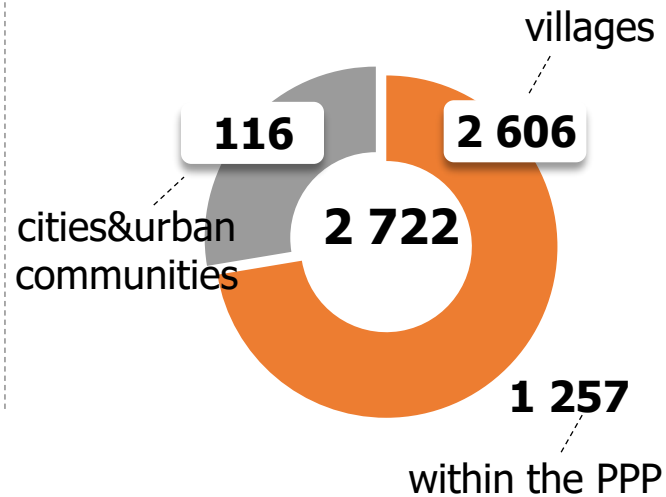
- poor local network in schools
- lack of local IT competence
- problem of incorrect school's` geolocation data

Coverage of localities

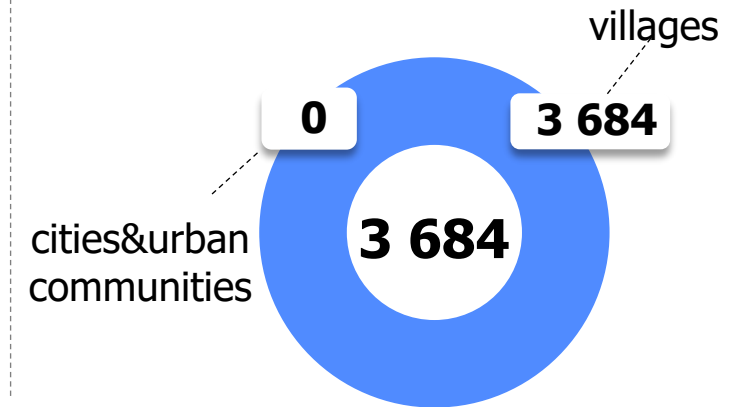
✓ Overall localities:



✓ With fiber:



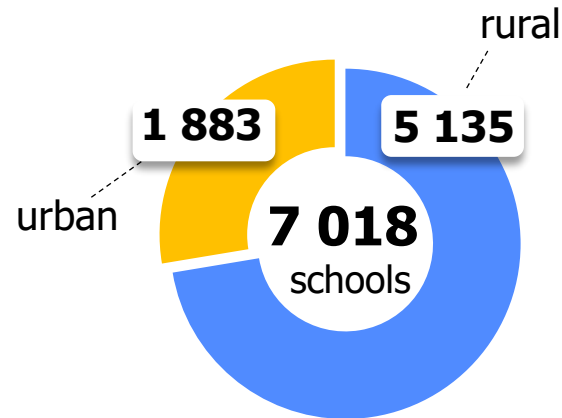
✓ No fiber:



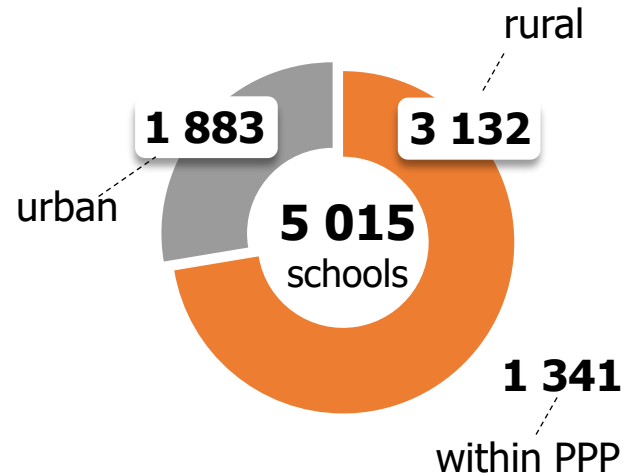
Schools' coverage through paradigm of localities

✓ Overall state schools:

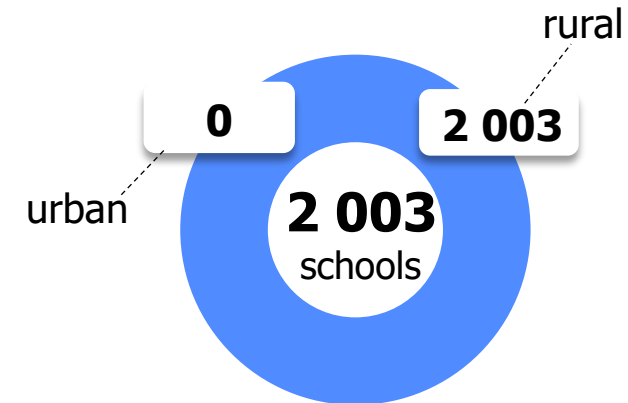
Private schools – 552



✓ With fiber:



✓ No fiber:



Plans

Raising the speed in schools up to Giga recommendations and Appropriate local network + WiFi in schools:

- 2810 by September 2023 (in localities with fiber)
- 1534 by September 2024
- 1876 by September 2025

Plans (cont.)

- National Project “Available Internet” to cover 100% localities
- Validation of information from the sites
- Standardization of school’s ICT topology
- Identification proximal points of connection
- Usage of LEO/MEO satellite technology to connect remote schools

Plans (cont.)

- Support schools to use Internet to develop digital literacy and modern teaching methods.
- Using the school as a hub to extend connectivity and service to the entire community.
- Improving schools' connectivity and quality of service.

Thank you!