

Drafting Committee for the '*Asia-Pacific
Plan of Action for Space Applications for
Sustainable Development
(2018-2030)*

Georgia

Bangkok, Thailand
31 May - 1 June 2018

Examples of use of space application in
Georgia

- Social Development;
- DRR and resilience;
- Energy.

Examples of Existing Successful Practices

- Social Development:

- Government of Georgia digitalized agricultural land maps. Coordinates on the maps were established according to the satellite data.
- State registry is keeping the information in the block chain system, so it is impossible to damage.
- Information can be used for different purpose;
- Government of Georgia initiated special internet connectivity program for schools.

Examples of Existing Successful Practices

- DRR and resilience:

- Georgia is using satellite data and internet connections to monitor disaster areas;
- To monitor melting of Ice cups of mountains in order to timely avert flooding;
- Georgia created web-page <http://drm.cenn.org>. Web-page contains tools for public disaster reporting and for authorized reporting;
- The Atlas of Natural Hazards and Risks of Georgia was created. Atlas comprise general information about natural calamities, main entities facing the threat (e.g. buildings, population, GDP), various types of vulnerabilities (physical, social, ecological, economic) and risks typical to Georgia's territory.

Examples of Existing Successful Practices

- **Energy:**

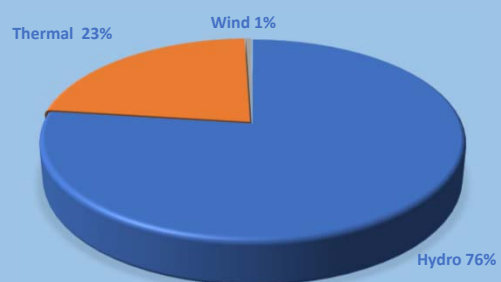
- Energy Sector can be seen as main user of space applications and data resources;
- Digital maps, ownership of lands and registration, as well as satellite pictures are used for construction of Hydro Power Plants as well as for analyzing potential sites of natural oil and gas reserves;
- Connectivity is essential for construction of pipelines, power transmission grids.

Electricity Sector Overview: Existing Generation

Total installed generation - 4102,7 Megawatt;

- 76 Hydro Power Plant - 3156 Megawatt;
 - 7 regulators -1992 Megawatt;
 - 15 seasonal - 983 Megawatt;
 - 54 SMSs hydro power plants -181,2 Megawatt;
- 5 Thermal power plants - 926 Megawatt;
 - Block №9 – 300 Megawatt;
 - Blocks №3, №4 – 272 Megawatt Gas turbine 110 Megawatt;
 - Tkibuli Thermal Power Plant - 13 Megawatt;
 - Gardabani combined thermal power plant -231 Megawatt;
- Wind power plant - 20,7 Megawatt.

INSTALLED CAPACITY



2012-2017 years 23 new power plants started to operate with installed capacity 782,15 Megawatt: Combined thermal power plant, thermal power plant on coal, 20 hydro power plant and one wind power plant

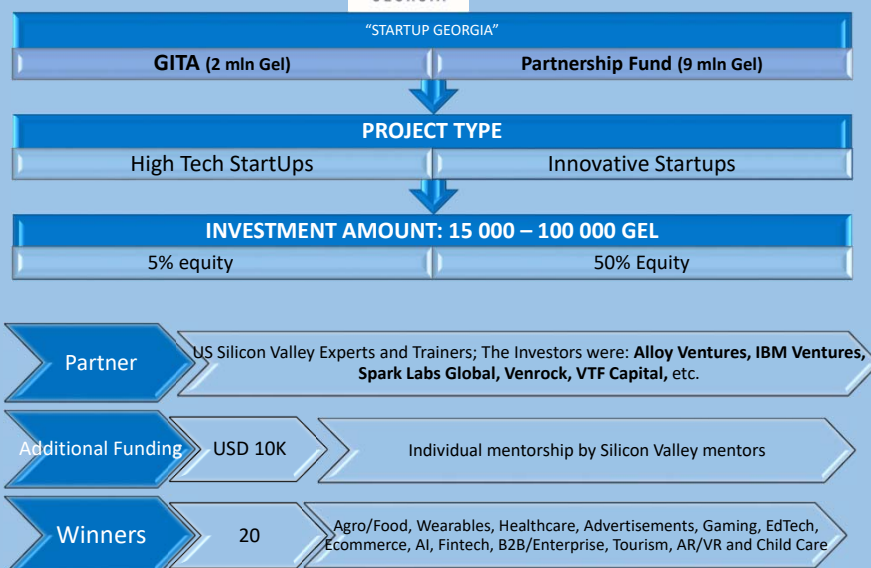
Electricity Sector Overview: Existing energy infrastructure

Connecting grids to other country systems

Transmission Grid (GSE and Energy Trans):

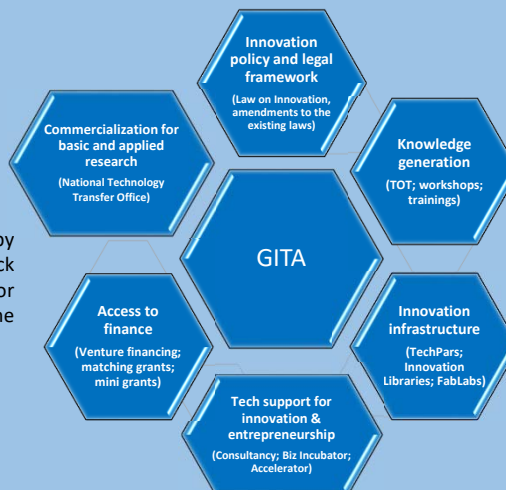
- 500/400/330/220/110/35 KW transmission line with total length - 4380 KM;
 - Total length of 500 KW transmission lines - 815 KM;
 - Total length of 400 KW transmission lines - 32.6 KM;
 - Total length of 330 KW transmission lines - 21.1 KM;
 - Total length of 220 KW transmission lines - 1769.4 KM.

Country	Connecting lines, name	Capacity (KW)	Type of Exchange	TTC Summer (Megawatt)	TTC Winter (Megawatt)
Russian Federation	„Caucasion“ AC-3x300	500	Export	570	650
			Import	570	650
	„Salkhino“ AC-400	220	Export	120	120
Azerbaijan			Import	120	120
	„Mukhranis velly“ AC-3x300	500	Export	630	710
			Import	630	710
Armenia	„Gardabani“ AC-480	330	Export	210	240
			Import	210	240
	„Alaverdi“ AC-300	220	Export	150 / 100	150 / 100
Turkey			Import	150 / 100	150 / 100
	„Meskheti“ AC-3x500	400	Export	700	700
	„Adjara“ AC-400	220	Export	150 / 150	150 / 150
			Import	150 / 150	150 / 150



KNOWLEDGE-BASED AND INNOVATION-DRIVEN ECONOMY

- * Georgia's Innovation and Technology Agency (GITA) established in 2014
- * State Innovation Agenda implementing entity under Ministry of Economy and Sustainable Development
- * Research & Innovation Council – chaired by Prime Minister of Georgia, economic block Ministers, scientists, private sector representatives. GITA – secretary of the council



INFRASTRUCTURE FOR INNOVATION

TechParks

- FabLabs
- Co-working space
- Community
- Trainings

BroadBand for All

- Maximise potential of ICT
- Provide e-public services
- Increase competitiveness of the national economy

Regional Outreach

- TechParks
- Community Innovation Centers

FabLabs & iLabs

- Based on universities
- 22 FabLabs
- 4 iLabs

Access to finance

Mini Grants – 5,000 GEL

- Prototyping
- Travel

GENIE matching grants

- **Start-up matching grants** – stimulate development of new start-ups – up to USD 30K; Private Sector Co-Financing:10%
- **Innovation matching grants** – promote product, technological and business innovations – up to USD 250K; Private Sector Co-Financing: 30-40%

Start-up Georgia

- Business innovation support program for new companies to gain funding through GITA and Partnership Fund
- Investment amount - up to 100,000 GEL
- 720 applicants



41%

beneficiaries
got financing

100%

financial products
were forward

40%

women

Country Needs: Based on Priority Themes and Targeted Actions

Sharing of technical experience in the field of innovation and technology

Sharing of technical experience in the field of use of Space applications

Help regional StartUps and innovators, as well as consultancy companies to enter market and to facilitate partnership between the countries

Organize forums and arrange meetings between stakeholders to facilitate use of new technologies for sustainable development

Country Challenges

- *Main Challenge is the availability of finances;*
- *Another big challenge is the commercialization of platforms and inventions, as well as results of different inventions.*

Thank you for your attention