

Tbilisi Kindergartens



Tbilisi, Georgia

As Georgia's capital, Tbilisi has a long history that goes back over fifteen centuries.

- Crossroad of the east and west
- Ancient silk road map
- Soviet Era
- Hectic Development
- Modern Tbilisi
- Reforms
- Resilience



Overview of Tbilisi’s Kindergarten System

System Overview

- Tbilisi currently schools approximately **61,500 children** aged between two and five years within **181 kindergartens**
- The Tbilisi Kindergarten Management Agency (“Agency”) is an entity established and governed by the Tbilisi Municipality Government to manage all kindergarten related mandates

• Some key powers given to the Agency include:



- General authority to develop the pre-school system in Tbilisi



- Management of new school construction contracts

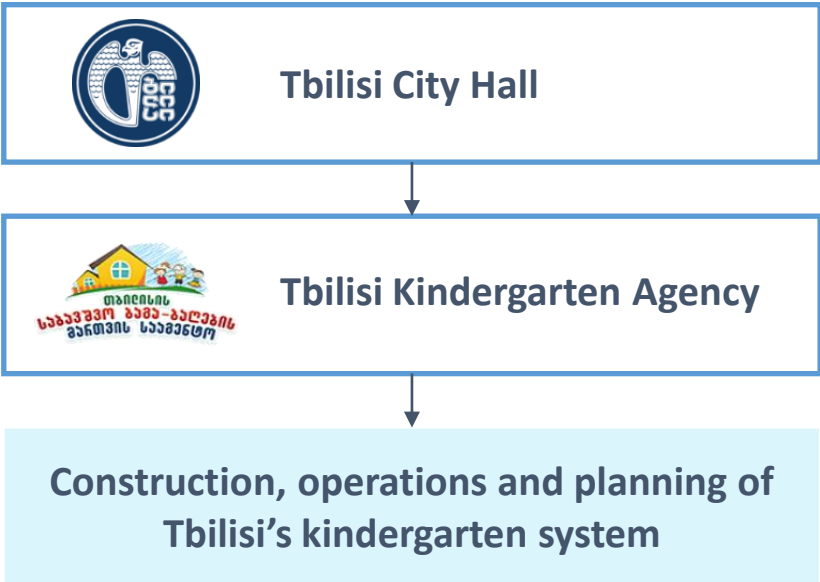


- Enter into transactions with Georgian or foreign capital sources for the purpose of pre-school education

Funding

- The City provides the agency with **annual budget allocations for operating funds and capex programs**
- The Agency operates current kindergartens exclusively and **does not charge students any tuition**

Current Governance Structure



Overview

Main Mission

- A large number of Tbilisi’s current kindergartens are not built according to internationally recognized codes and are subject to substantial structural risks
- The Agency requires funding and technical assistance to rehab at-risk kindergartens as well as build new ones to expand service
- Specifically, the main objectives are:
 - 1 — Accelerate structural assessment and rehabilitate at-risk kindergartens to minimize seismic risk
 - 2 — Provide facilities to rehouse children currently attending school in at-risk structures during building rehabilitation
 - 3 — Build the additional kindergartens required to provide services to the estimated 1,200 children currently without service

Major Metrics



181 existing kindergartens



33 deemed structurally deficient so far



~\$1.5M USD capex cost per new kindergarten



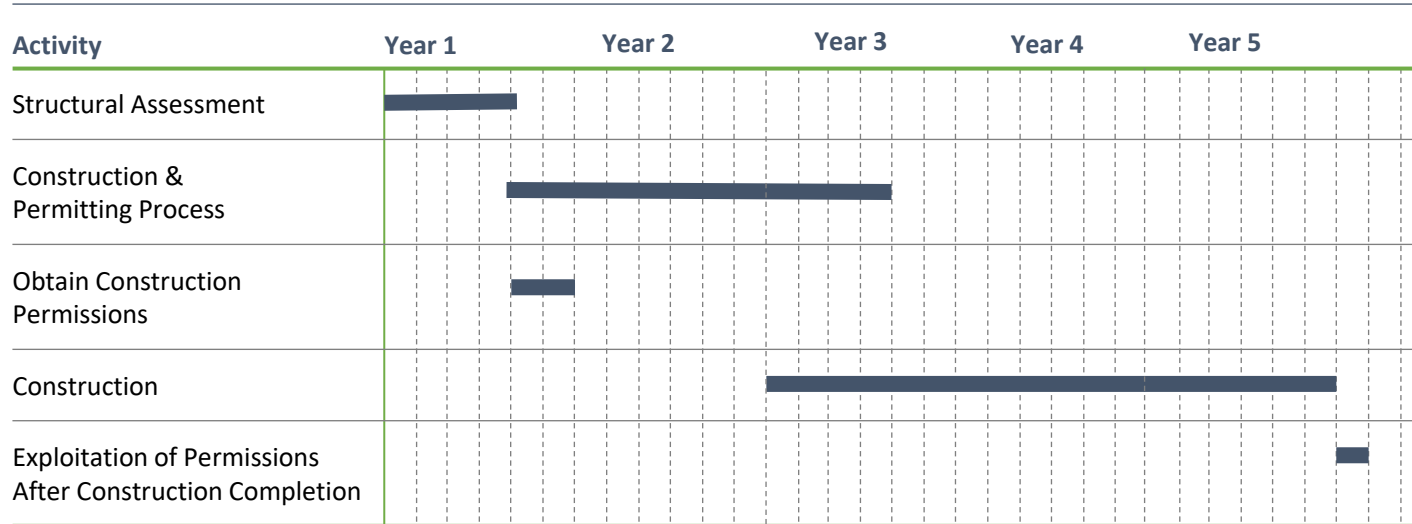
~\$210k USD of current operating budget per school per year



No sites identified yet for new kindergartens

Overview

Illustrative project timeline



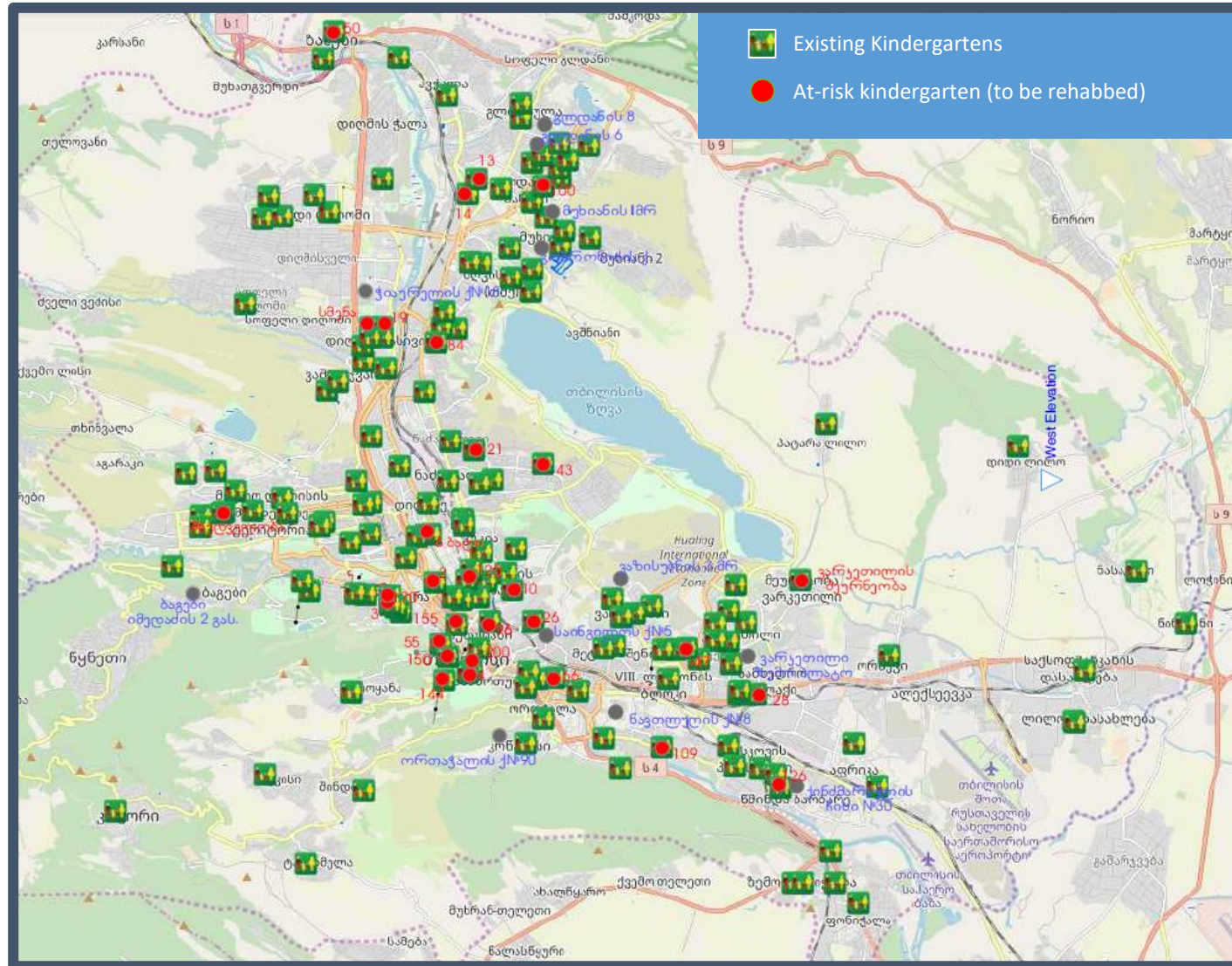
Current Project Status

- Approximately **18%** of existing kindergartens have been assessed for structural vulnerability
- Since the inception of the program in 2015, the City **has funded rehabilitating construction of 33 kindergartens**
- **City every year adds new kindergartens. Last year 7, this year 4 new**

Current Challenges

- **At current funding levels, it will take more than 5 years or more to fully rehabilitate existing kindergarten portfolio**
- **City has limited appetite for increasing annual allocation** but is open to longer term concession in which costs are more spread out
- Land required to construct additional kindergartens not yet identified and secured
- City does not owe land in the center of the city to build the new kindergartens

Tbilisi kindergarten footprint



Resilience Opportunities in Tbilisi Kindergartens

Key Shocks



Flooding



Seismic Risk



Infrastructure or Building Failure

Key Stresses



Unemployment Challenges



Lack of Regulations, Standards and Enforcement



Inadequate Capacity in the Kindergarten System

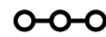


Lack of Adequate Public Mobility Systems

Tbilisi's Resilience Strategy is categorized into 3 missions:



A city that is protected and safe



A city that is thriving, connected and accessible



A city that mitigates and adapts to climate change

Build resilient and inspiring kindergartens that...

- Ensures children can learn in safe, protected and high quality educational environments (e.g., reduces risk by identifying areas in need of structural improvements / reinforcement)
- Improves access to kindergarten education, making the system more equitable
- Reduces overcrowding and disruption in kindergarten classes
- Introduces opportunities to adapt facilities to a changing climate
- Reduces energy consumption and operating costs
- Enhances learning opportunities around sustainability and the environment

Potential Solutions to Enhance Resilience

Planning at City Scale

1. Accelerate structural assessment of schools and rehabilitate / rebuild schools
2. Engage children / community groups to develop ideas to improve provision of education services
3. Identify where new schools could be built to provide adequate capacity and equitable access. Build new schools to provide all children with kindergarten services

Design and Program Interventions

1. Integrate energy efficient solutions (e.g., roof and wall insulation solutions; ventilation systems with thermal recovery)
2. Integrate green space solutions into kindergartens
3. Create risk awareness & environmental programs to prep teachers / children
4. Identify ways to support parents who work (e.g., afterschool programs)

Key Next Steps

1 Complete structural integrity assessments

- Completing the structural integrity assessments is the first step to determine the size and potential scope of the project and should be completed ASAP

2 Perform internal review of potential financing and development models and select path forward based on need, assemble proper advisory team if necessary

- Potential models should be reviewed internally (or together with external advisors) to weigh the trade-offs within each model against the City's constraints and priorities
- City should also map out the regulatory process and permits required for a transactions and start coordinating within the government to ensure these are ready before the formal procurement

3 Determine appropriate construction standards applicable to this project

- With construction standards set to pass in 2024, the City needs to determine what standards are deemed acceptable for this project prior to the passage of the Georgian standards

4 Complete site identification and land acquisition process for new kindergartens

- Land needed to build the additional kindergartens should be secured prior to procurement as infrastructure developers are often not keen on taking land acquisition risk, especially in developing economies

5 Prepare schools for Covide-19

- Adapt regulations from the central government, prepare schools for

COVID-19 and Georgia

Georgia's conditions

- Georgia – 1179
- Death total - 17
- Total recovered - 959
- Active Cases - 203

Kindergarten conditions

- Every Two week Each family wear given nonperishable foods
- Strict regulations will be given from the Central government
- Schools will reopen on September 14th
- Opening with new 2 Schools and in November another 2 new building.



Thank You!