

FINAL PRESENTATION

UZBEKISTAN

Urban Planning Reform: Mainstreaming Urban Heat
Management

Uzbekistan: Description of Urban Heat Challenges

CHALLENGES	REASON
1. Expansion of grey spaces, reduction of green spaces --> more heat islands	<ul style="list-style-type: none">- Lack of interagency coordination- Lack of development control- Outdated regulations
2. Climate change impact (heatwaves + water scarcity) --> difficult to maintain urban greenery	<ul style="list-style-type: none">- Poor maintenance of urban greenery- Lack of water to irrigate, no water capturing
3. Massive development without consideration of wind corridors and sun ray direction	<ul style="list-style-type: none">- Lack of data infrastructure, both data collection and analysis (lack of meteo-stations, lack of specialist etc.)- Lack of development control

Uzbekistan: Learning Goals

1. Better understand urban planning/development machinery and workflow in Singapore
 - a. to inform ongoing urban planning reform in Uzbekistan
 - b. make urban planning system more oriented to resilience and sustainable urban development
2. How to integrate green, blue and grey infrastructure into urban environment
 - a. solutions and technologies
 - b. incentives and enforcement mechanisms
 - c. climate change mitigation and adaptation
3. How to plan, design and deliver housing for people and create liveable urban spaces for communities
 - a. young and growing population
 - b. sprawling and inefficient cities

Uzbekistan: Key Takeaways

- Flexible standards and building regulations aligned with incentive mechanisms which guide the development in a sustainable manner
- The importance and convenience of urban connectivity between green spaces (green corridors), buildings (under and overground networks), communities (neighborhood centers) as an adaptation to the climate change
- Good planning standards and practices on managing urban heat (green spaces, water capturing, etc) should be supported by wider advocacy measures
- Data and digitalization are required for good planning and evidence-based decision

Uzbekistan: Transfer to Our Context

- Design and implement several pilots on integrated urban planning
 - test new approaches to Affordable Urban Housing Program and Yashil Makon (Green Space) Program
 - identify outstanding issues with urban planning and construction norms and regulations, gaps in knowledge and skills , gaps in data
- Revision of existing norms and regulations
 - urban planning norms - make master plans more strategic documents guiding development
 - construction norms - give more space for creativity in design, but improve safety, resilience and sustainability
 - improve enforcement mechanisms by introducing new incentives to promote nature based solutions (NBS) and better urban connectivity
- Build local capacities in public and private sector
 - create center of excellence in urban planning and building design to promote NBS, heat island
 - encourage knowledge exchange with other countries

Uzbekistan: Barriers to Implementation and Solution

- Numerous agencies, responsible for different elements of planning
 - lack of coordination
 - various “grey” zone no one control
- Lack of data and researches clearly demonstrating impact of urban heat
 - any changes to urban planning and construction regulations are difficult to justify
 - difficult to prioritize limited resources
- Lack of local expertise

Uzbekistan: Action Plan and Accountabilities

Immediate actions (1-2 years)	Follow ups
<ul style="list-style-type: none"> • Master plan for New Tashkent (ongoing) • Pilot new approaches under government affordable housing program 	<ul style="list-style-type: none"> • Revision of urban planning and construction norms • Revision of master plans for bigger cities
<ul style="list-style-type: none"> • Project office / Task force for the Tashkent master plan 	<ul style="list-style-type: none"> • Creation of the Uzbek versions of URA, HDB, BCA
<ul style="list-style-type: none"> • Follow up with URA and HDB to organize in-depth knowledge sharing (i.e. guest lectures, study tours, etc) 	<ul style="list-style-type: none"> • Training program for local professionals
<ul style="list-style-type: none"> • Assessment of heat island effect in Tashkent city 	<ul style="list-style-type: none"> • National Spatial Data Infrastructure (already planned by Cadaster Agency)
<ul style="list-style-type: none"> • Run competition among local professionals on best NBS, urban island management solutions, urban mobility 	<ul style="list-style-type: none"> • Develop and update site level guidelines for private sector developers • Portfolio of best practices

Uzbekistan: Follow Up with Singapore Partners

- **URA - organize additional learning events for colleagues in Uzbekistan**
 - review of documents available online
 - series context specific learning event
 - for different audiences
- **HDB - learn experience on housing development** mobility and traffic management
 - location of amenities
 - maintenance and management of multi apartment buildings and amenities
 - financing, including private sector financing
- **Land management and land market development**
- **Environment control**