

The European Union – Kyrgyzstan: Sustainable Energy Days 2024 Workshop "Green buildings: trends and innovations in sustainable development" Bishkek, 22 October 2024

Role of Green Building Council of Uzbekistan in sustainable development: Success story of New Tashkent Urban Development project

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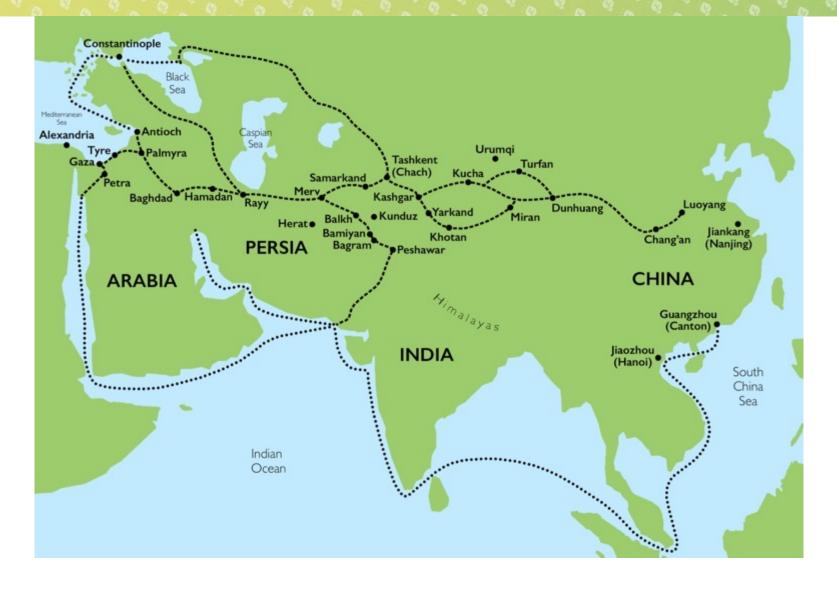
#### **Development of green construction in Uzbekistan:** New Tashkent – an example of the formation of new green cities in Uzbekistan







### Silk Road – goods, people, ideas







#### Silk Road – rest areas, «service centers», caravan sarais

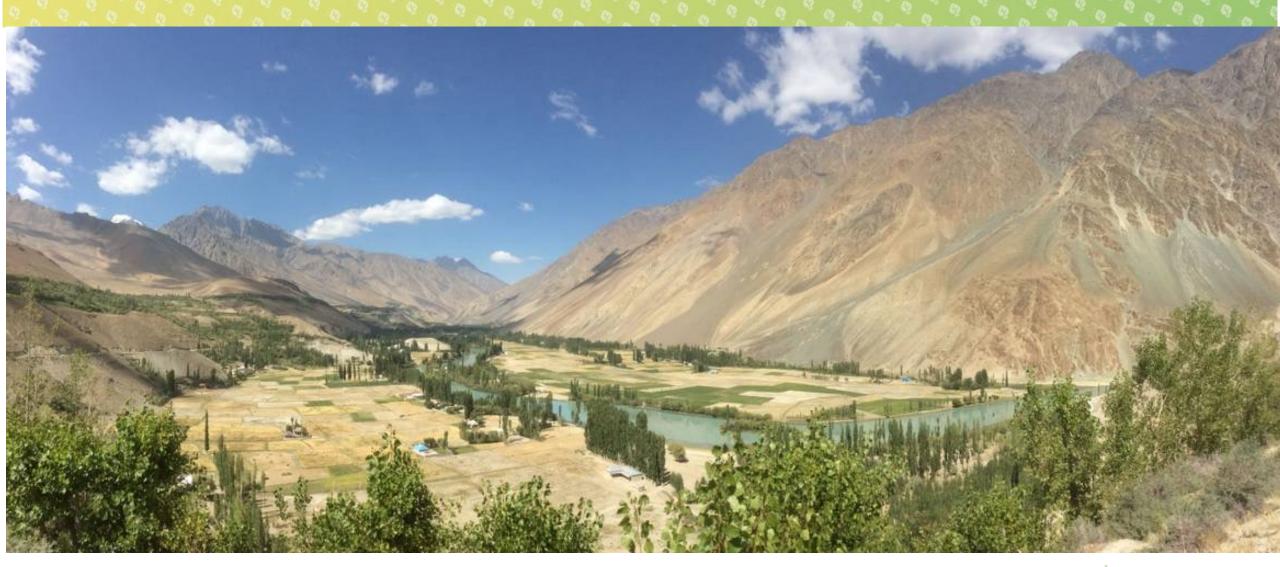








## **Central Asia – a land of oases**









## **Oasis – an ecosystem in balance**







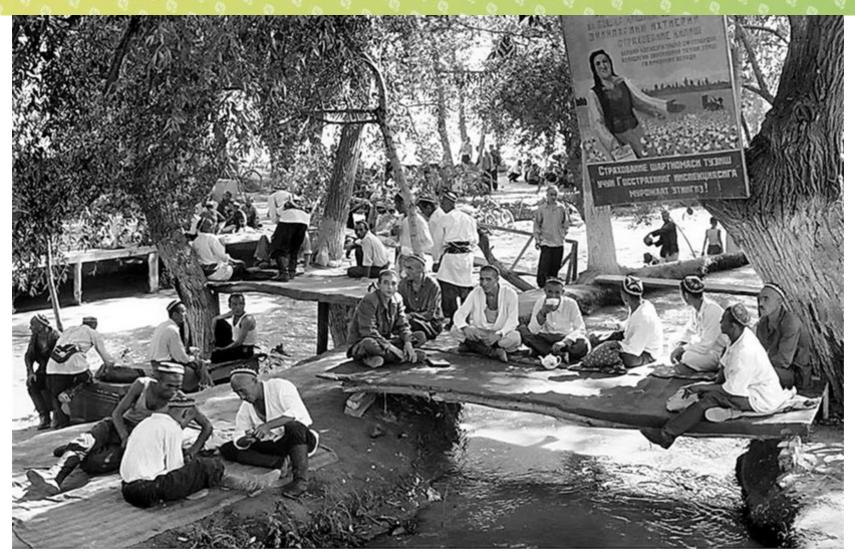
People learned how to create comfortable living conditions while maintaining a balance with the ecosystem







## Makhalla – a traditional community, critical for maintaining a balance







## **Oases – water diplomacy**







## NGO Green Building Council of Uzbekistan (est. 2019)



#### Mission:

To advance green building, energy efficiency, efficient use of water, and sustainable development

#### Main directions of work:

- Green Schools programs
- Professional educational events for students
- Educational events for the industry and government officials
- Informational sessions for the general public





## **UzGBC: Our achievements**



#### **Green Schools Program**

Since our first pilot in 2019, we have reached over 6,000 students, and their families, focusing on behavioral strategies in energy efficiency, recycling, and efficient use of water

#### **Educational and informational events**

From 2019 to 2024, together with various partner organizations, we organized over 50 seminars, webinars, lectures, and workshops





### **Green Schools Program: Behavioral Change Strategies**









## **Pioneers of the construction industry**

#### IT Techno Park (Tashkent, Uzbekistan):

- The first office buildings to achieve BREEAM "Very Good" certification for the design
- Examples of strategies: energy efficient windows, bicycle infrastructure, EV chargers, rainwater collection







#### **Pioneers of the construction industry**

#### Trilliant Complex (Tashkent, Uzbekistan):

- The first building complex to achieve LEED Gold certification
- Examples of strategies: recycling, bicycle infrastructure, EV chargers, public green zones, building automation system







## New Tashkent: the most ambitious urban development project in Central Asia



Total Area: 25,000 hectares

Phase 1: 6,000 hectares Population: 600,000 people

Administrative, commercial, residential, social, advanced industrial, and other types of buildings





#### **New Tashkent: Oasis**



Continuous public access green zones cover over 23% of the land

Total green area will make up over 30% of New Tashkent's territory

Green and water carcass at the core of the new city





#### **New Tashkent: Green Building Standards**





#### **BREEAM Rating Benchmarks**

RATING%Outstanding $\geq$  85Excellent $\geq$  70Very Good $\geq$  55Good $\geq$  45Pass $\geq$  30Unclassified< 30</td>







# New Tashkent: Energy efficiency, water efficiency, and renewable energy



Energy	Efficiency	<b>Requir</b>	emen	ts
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 Each building category has its EUI (Energy Use Intensity), measured in kWh/ sq m/ year



#### **Requirements for efficient water use:**

• Each building category has its WUI (Water Use Intensity), measured in cubic m/ sq m/ year

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#### Rainwater Collection & Reuse Requirements:

• Buildings are required to collect some of the rainwater and reuse it for irrigation





## **Closing Remarks**

- Much has been accomplished, especially over the last 4-5 years
- Uzbekistan faces challenges, a shortage of experts is probably the most urgent
- For Uzbekistan, going green is not just a trend or a fashion statement – it is a vital necessity
- We need to look at sustainability and green economy as an opportunity for a leapfrog effect, rather than an obstacle to Uzbekistan's development







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