



Forum ITU - UN Habitat - UNDP

FORUM ON SMART SUSTAINABLE CITIES: TECHNOLOGICAL TRENDS,
SUCCESS STORIES AND FUTURE PROSPECTS



Session 1: Building smart sustainable cities – from vision to reality and future perspective

UNDP-GEF Project
**Belarus: Supporting Green Urban Development in
Small and Medium-Sized Cities in Belarus**

Vera Sysoeva

*National Consultant on Green Urban Development,
PhD., Docent*

Ivan Filiutsich

National Consultant on Energy Efficiency

Project

Belarus: Supporting Green Urban
Development in Small and
Medium-Sized Cities in Belarus

Implementation period: 2016 – 2021

Budget: \$ 3 091 000

Donor: Global Environment Facility

Performing Ministry of Natural Resources and
Environmental Protection
of the Republic of Belarus

Implementer: UNDP



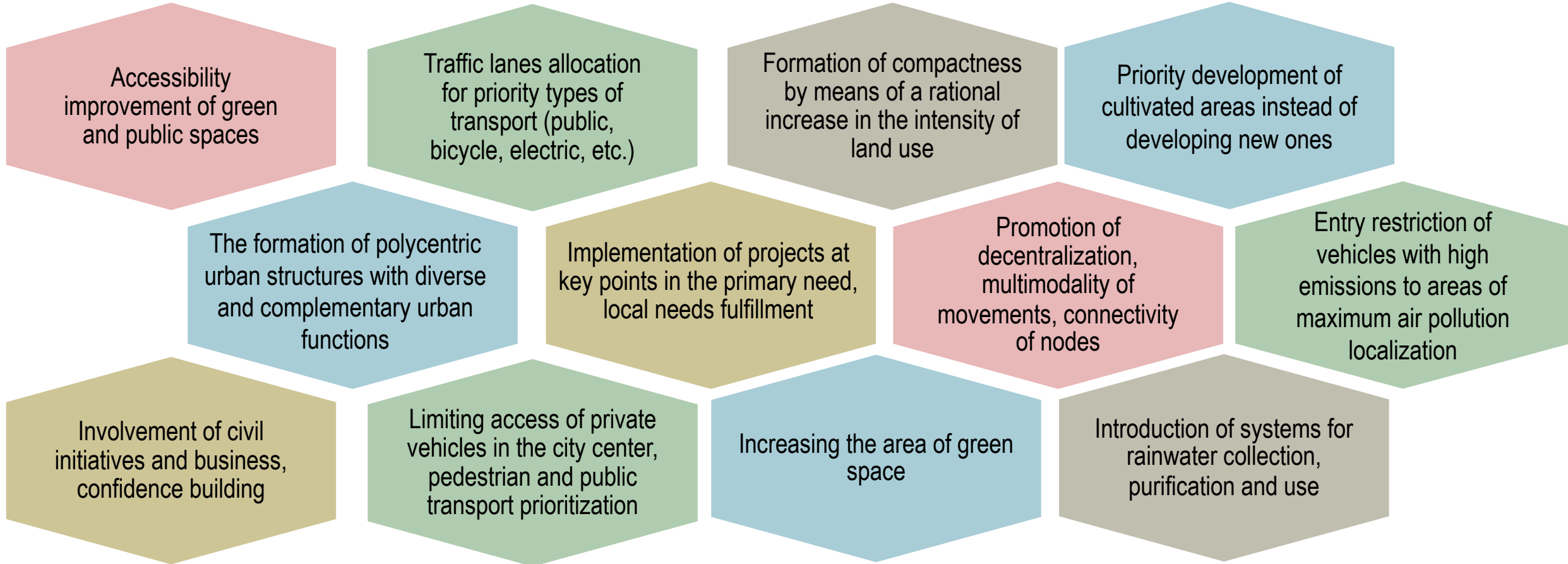
*Empowered lives.
Resilient nations.*



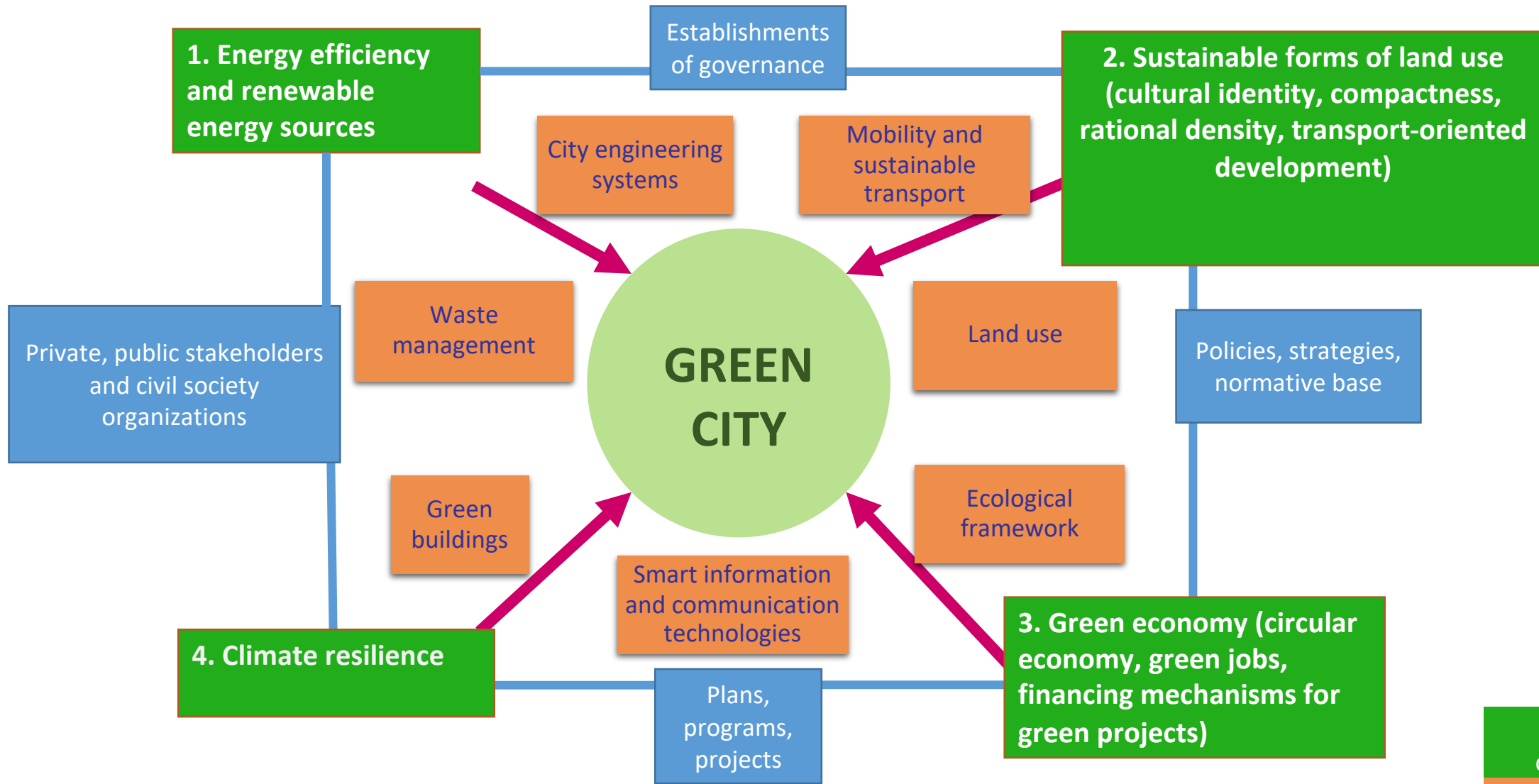
INTEGRATED APPROACH TO THE DEVELOPMENT OF
A SMART SUSTAINABLE CITY



INTERNATIONAL EXPERIENCE IN IMPLEMENTING GREEN APPROACHES TO URBAN DEVELOPMENT



INTEGRATED APPROACH TO URBAN DEVELOPMENT



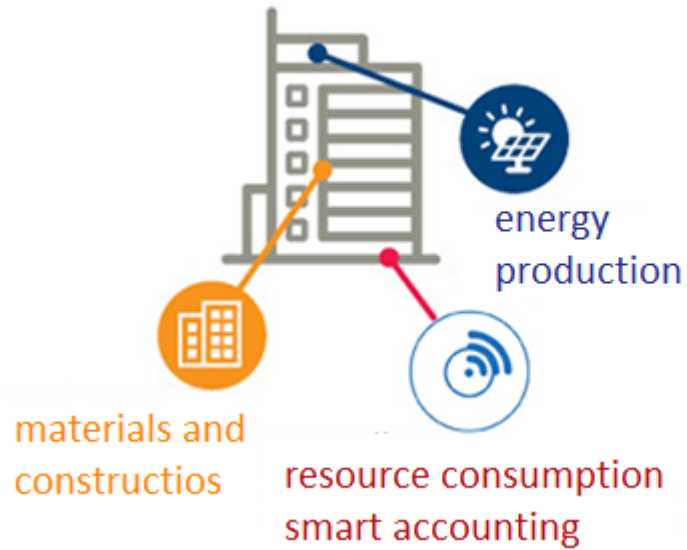
Four key components
Seven conditionally delimited subject areas
Drivers

Source: Sustainable Cities Planning: Strategy Directions, UN Habitat, 2009; Green urban development and urban infrastructure (Institute for Housing and Urban Development Studies, Erasmus University, Rotterdam)



IMPLEMENTATION SPACE LEVELS OF GREEN APPROACHES TO URBAN DEVELOPMENT

BUILDING



BENEFITS:

- resource usage efficiency
- resource consumption management
- cost reduction
- load reduction on the power grid
- load reduction on storm sewer system

DISTRICT



BENEFITS:

- local management, production and storage of resources
- local fulfillment of demand
- resource distribution improvement
- Increasing of comfort living and climate resilience

CITY



BENEFITS:

- infrastructure maintenance costs reduction
- health care costs reduction
- service needs reduction
- energy consumption reduction by urban infrastructure and associated greenhouse gas emissions



1 GOAL x 2 WAYS x 1 VISION

Promote greenhouse gas emissions reduction

Project goal

Polotsk

Novopolotsk

Development of transport infrastructure efficiency
(77.8 metric tons CO₂)



Novogrudok

Energy efficiency pilot projects
(13.3 metric tons CO₂)





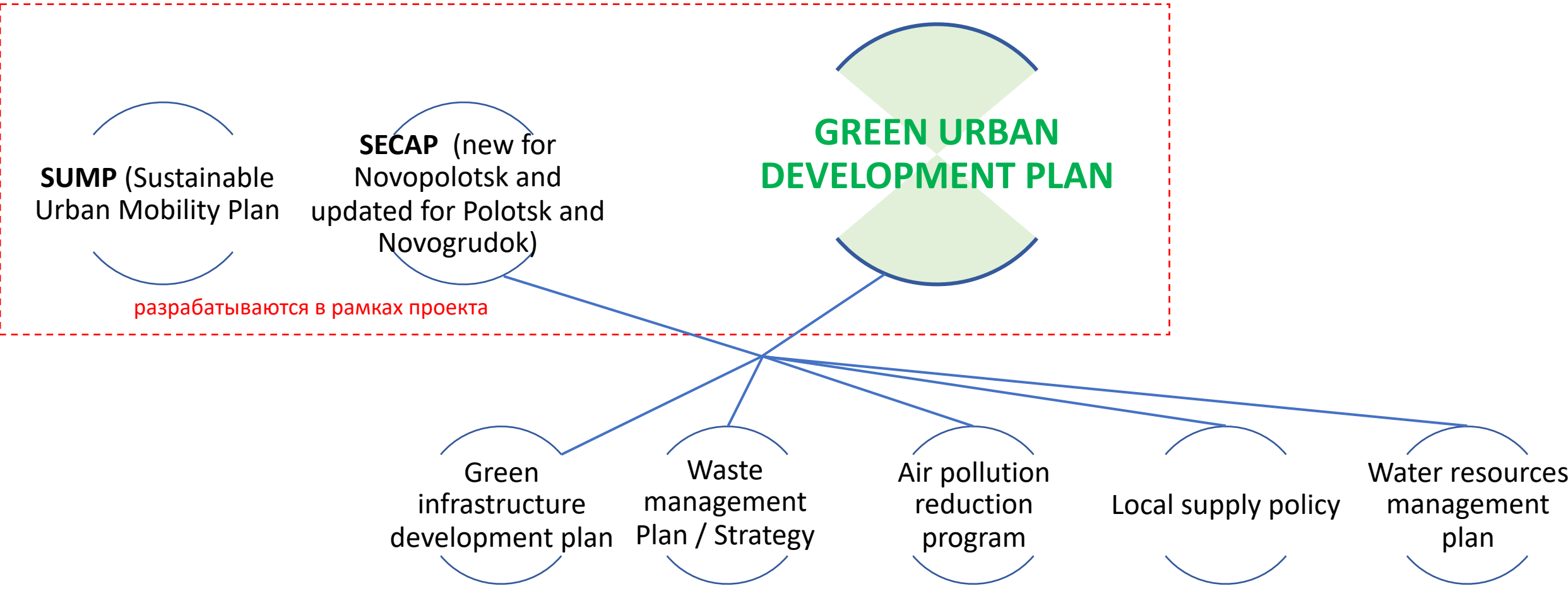
UNDP-GEF Project “Belarus: Supporting Green Urban Development in Small and Medium-Sized Cities in Belarus”



Drafting
GREEN URBAN DEVELOPMENT PLANS
for cities
Polotsk / Novopolotsk / Novogrudok

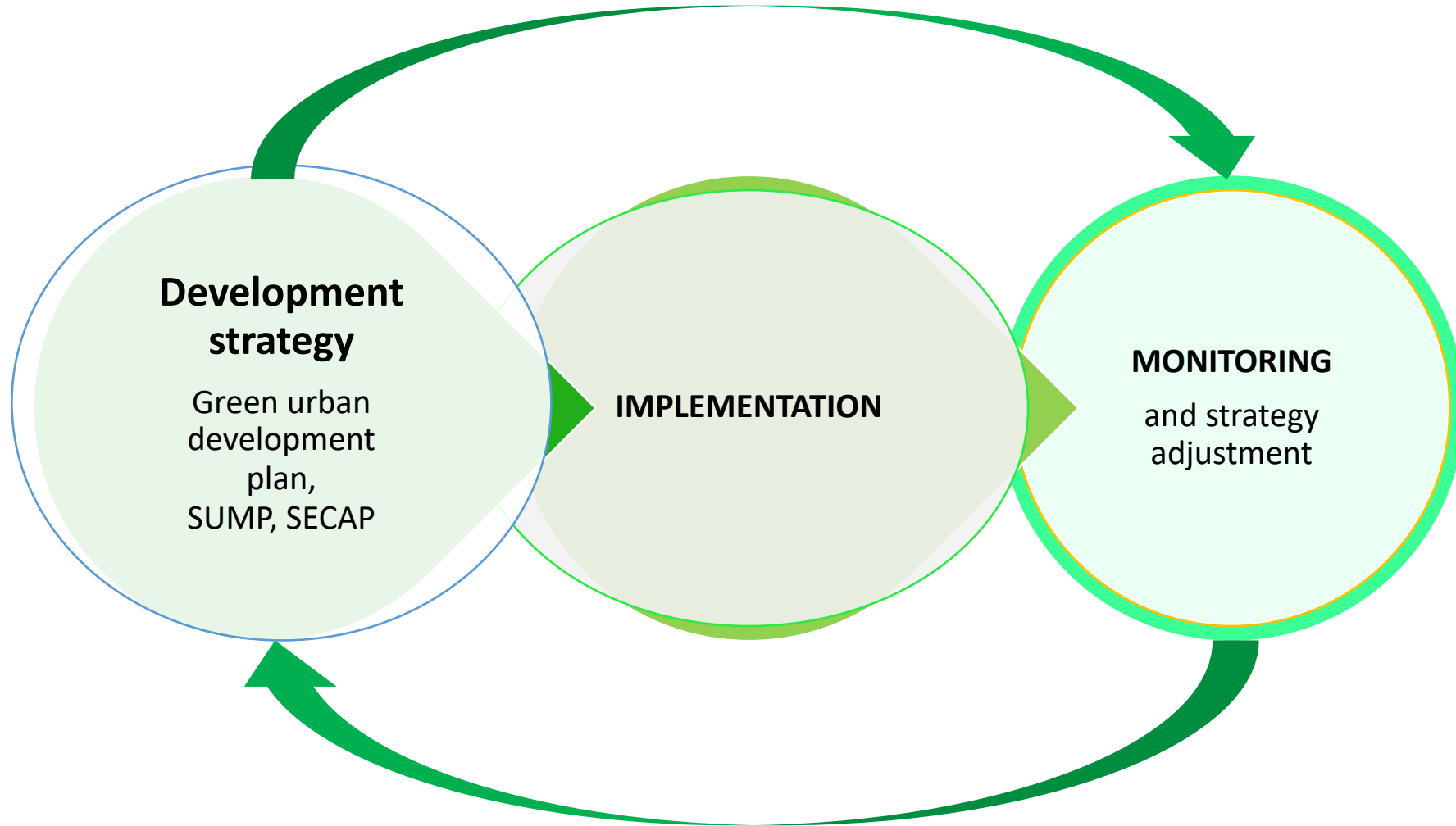


UNDP-GEF Project “Belarus: Supporting Green Urban Development in Small and Medium-Sized Cities in Belarus”





URBAN DEVELOPMENT



PERSPECTIVE DIRECTIONS OF "GREEN" APPROACHES IMPLEMENTATION TO SUSTAINABLE URBAN DEVELOPMENT IN THE REPUBLIC OF BELARUS

INTEGRATED APPROACH



- Introduction of common approaches to integrated territorial planning at the national level (SDG 11)
- Integration of strategic documents of territorial development into short- and medium-term action plans of municipalities
- Formation of municipalities capacity building for continuous monitoring and adjustment of priority areas for sustainable territorial development

Sustainable energy



- Development of energy management and energy service
- Energy efficient individual residential development
- Smart infrastructure (smart lighting, smart accounting, smart grid)
- Territorial energy security strategies

Sustainable transport



- Development of public and private electric transport
- Enhancing the role of inland waterway transport

Sustainable resource consumption



- Comprehensive territorial strategies for handling MSW
- Territorial water resources management strategies

Climate strategies



- Territorial low-carbon development strategies
- Improvement of agriculture resilience to the impacts of climate changes
- Complex territorial climate change adaptation strategies

Sustainable financing



- Implementation of sustainable public procurement mechanisms
- Promotion of new financing mechanisms development for infrastructure projects



THANKS for attention!

22A, Krasnoarmeiskaya street, office 15
220030, Minsk, Republic of Belarus
Tel: +375 17 399 97 87
vera.sysoyeva@undp.org