



WROCLAW GREEN BUILDING STANDARD

CONCEPT, IMPLEMENTATION FRAMEWORK,
AND BLUE-GREEN INFRASTRUCTURE
CONSIDERATIONS



Wrocław 2050

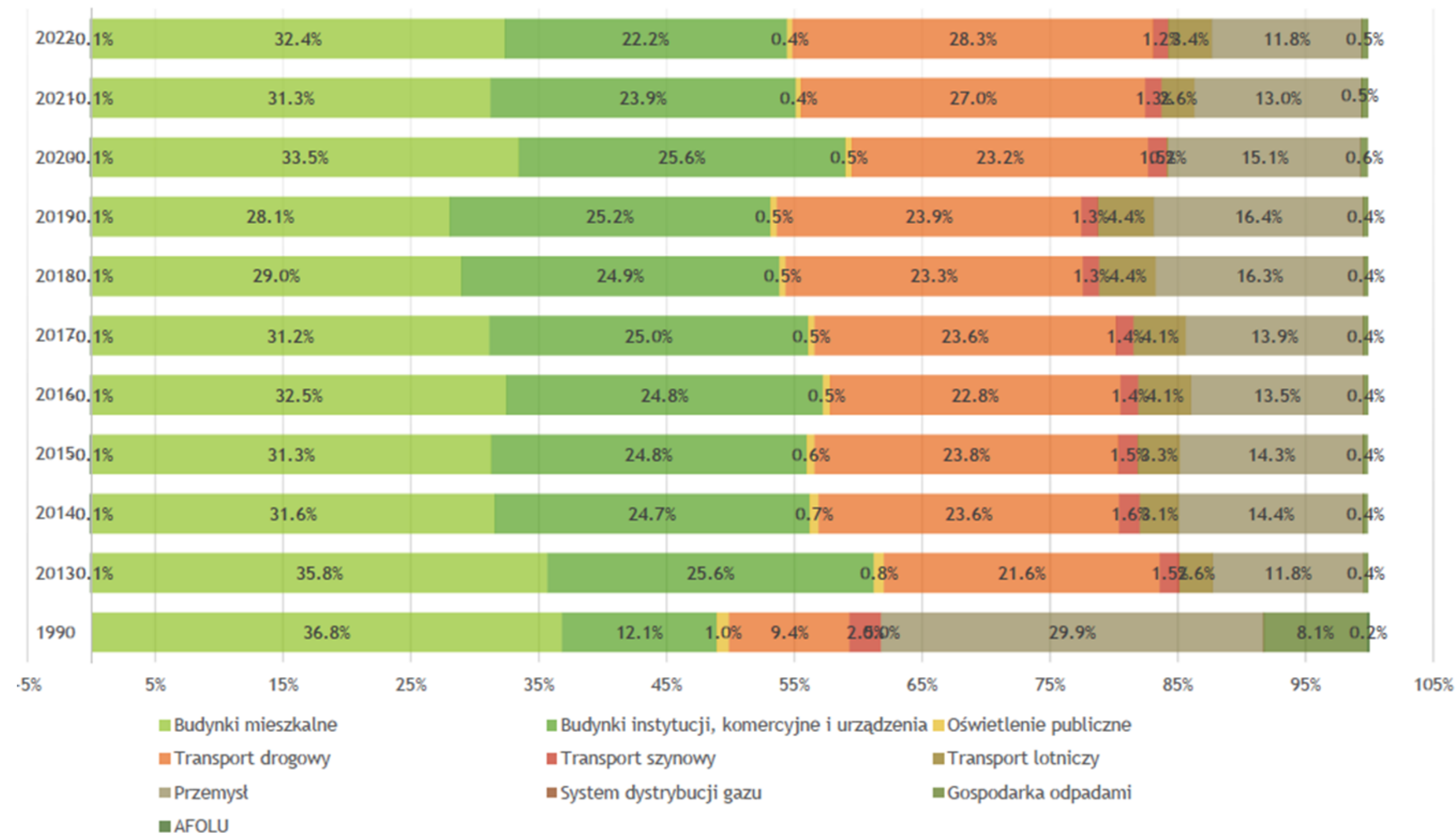
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DEPUTY DIRECTOR OF THE CLIMATE AND ENERGY DIVISION IN THE MUNICIPALITY OF WROCLAW

FROM STRATEGY TO DESIGN STANDARDS



STRUCTURE OF GREENHOUSE GAS EMISSIONS IN WROCLAW



The largest emissions come from the energy and construction sector, meaning energy use in buildings

Across Wrocław, this accounts for approximately 55% of emissions

These emissions also include those from electricity and heat production

Key emission sectors identified in the Climate City Contract and percentage of emissions:

- Building infrastructure (55%), including stationary energy and heating system
- Transportation (31%)
- Industry (12%)
- Waste management
- Green infrastructure and nature-based solutions

Emissions in Wrocław – 4,500,000 tons per year (2022)

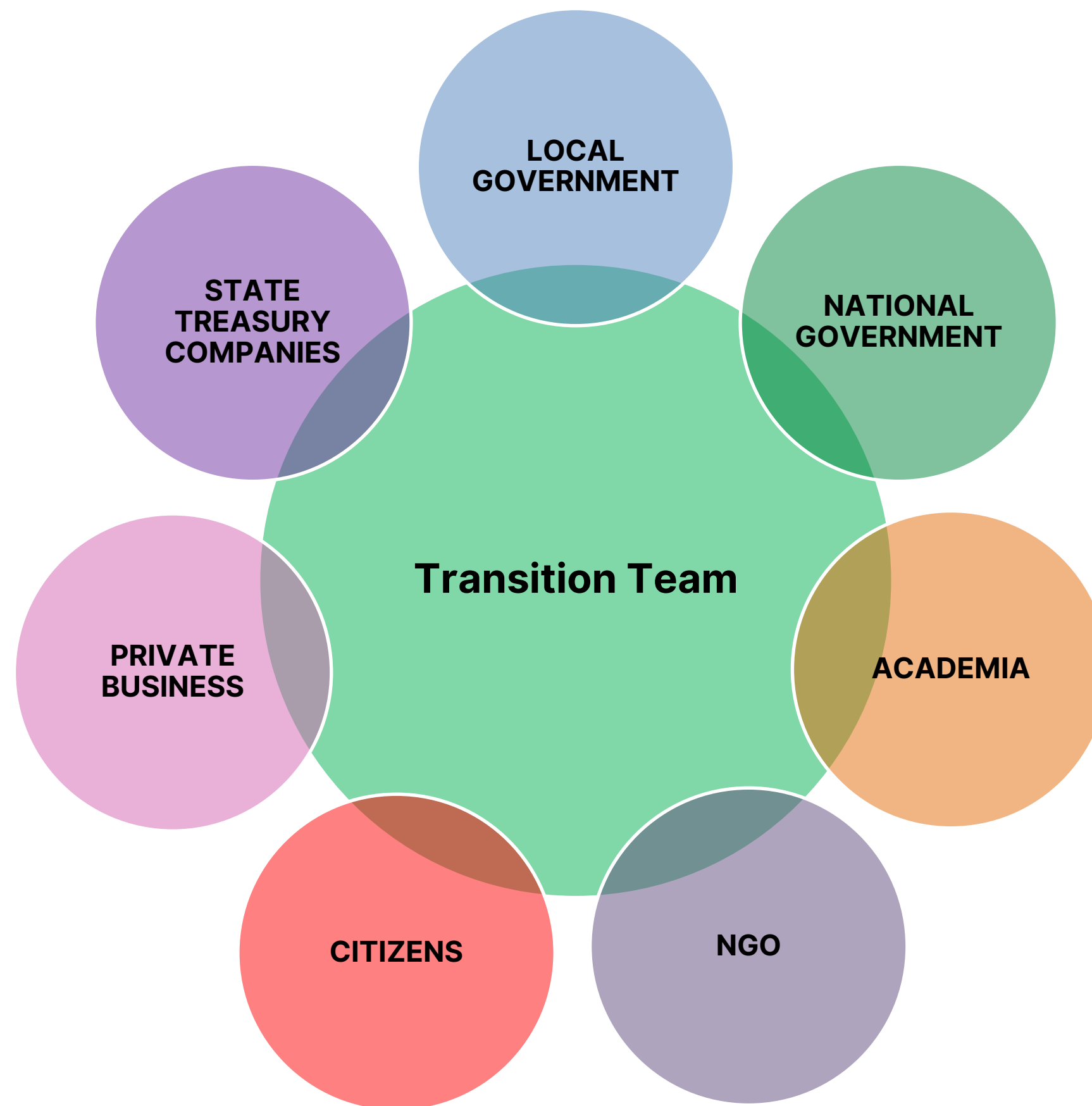
Direct influence of local governments – 350,000 tons per year (7%)*)

* Average for European cities, including Polish cities

Main goal is to reduce emissions from building infrastructure and transportation sector, as two biggest emitters.



CLIMATE CITY CONTRACT – COMBINE EFFORT



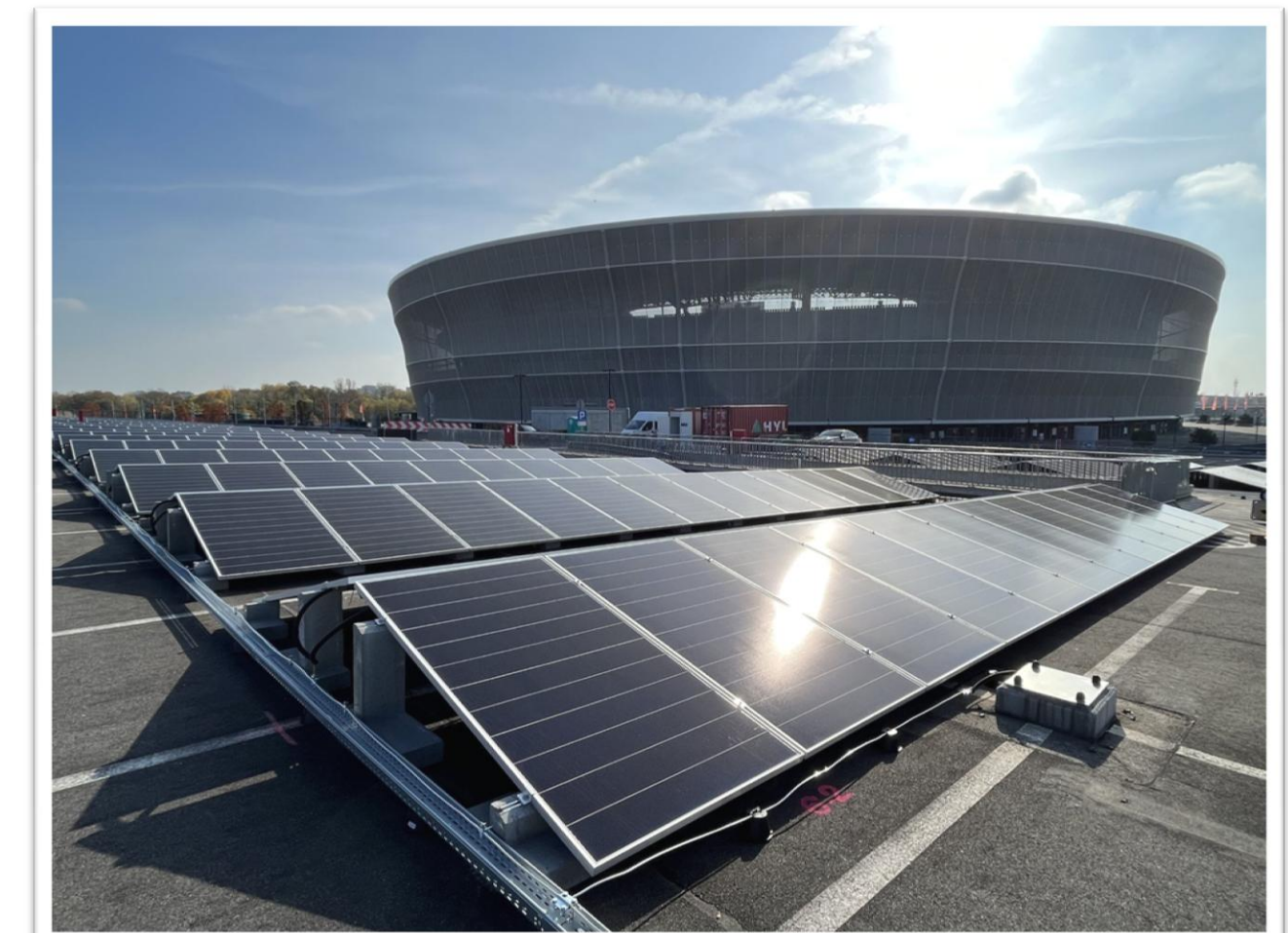
Mission Wrocław 1.5° business

Declaration on cooperation within the framework of the Climate Neutral and Smart Cities Mission



Investments in renewable energy

- WROMPA – waste heat from sewage system
- Heating network - transition to gas and then to renewable energy sources and decarbonized gases
- Renewable energy sources on public buildings
- Low-temperature network and waste heat from data center
- Renewable energy and energy storage - subsidy, tax relief



ENERGY EFFICIENCY OF BUILDINGS (RETROFITTING)

OWN BY THE MUNICIPALITY
PRIVATE STAKEHOLDERS



PoWROty Kamienic



22 kamienice
od 2025 roku
51 mln zł



100 kamienic
do 2029 roku
250 mln zł



WHAT HAS INSPIRED US



WARSZAWSKI
STANDARD
ZIELONEGO
BUDYNKU

OTHER CERTIFICATES FOR BUILDINGS



GREEN BUILDING STANDARD ADVANTAGES



REDUCING CO₂ EMISSIONS AND ENERGY EFFICIENCY

- ✓ Reduced energy consumption
- ✓ Zero-emission
- ✓ Smart energy management

REDUCING ENERGY POVERTY

- ✓ Lower bills
- ✓ A higher quality of life

CITIES ADAPTATION TO CLIMATE CHANGE

- ✓ Greenery in the city
- ✓ Water management
- ✓ Friendly public spaces

JUST ENERGY TRANSITION

- ✓ Engaging local communities
- ✓ Sustainable development

WHY ARE WE DOING THIS?



źródło: wrocław nasze miasto



źródło: wrocław nasze miasto



źródło: radio wrocław



źródło: wrocław.se.pl

GOOD PRACTICES



GREEN BUILDING STANDARD THEMATIC AREAS



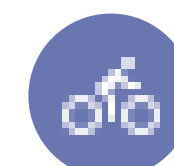
GREENERY AND LAND DEVELOPMENT



HEALTH, QUALITY AND CONSTRUCTION SOLUTIONS (USING THE CIRCULAR ECONOMY)



RAINWATER MANAGEMENT



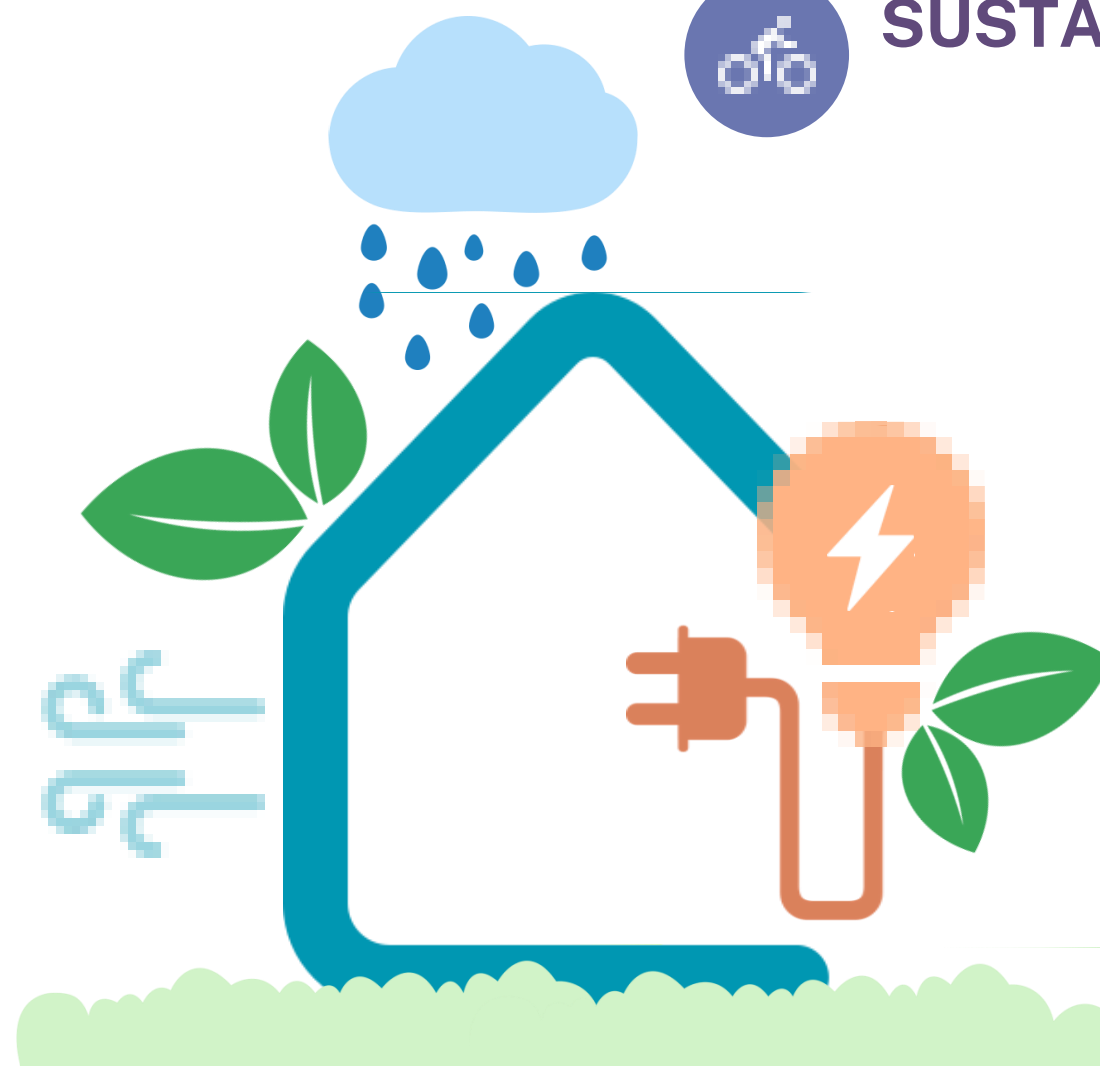
SUSTAINABLE MOBILITY AND ACCESSIBILITY



ENERGY EFFICIENCY



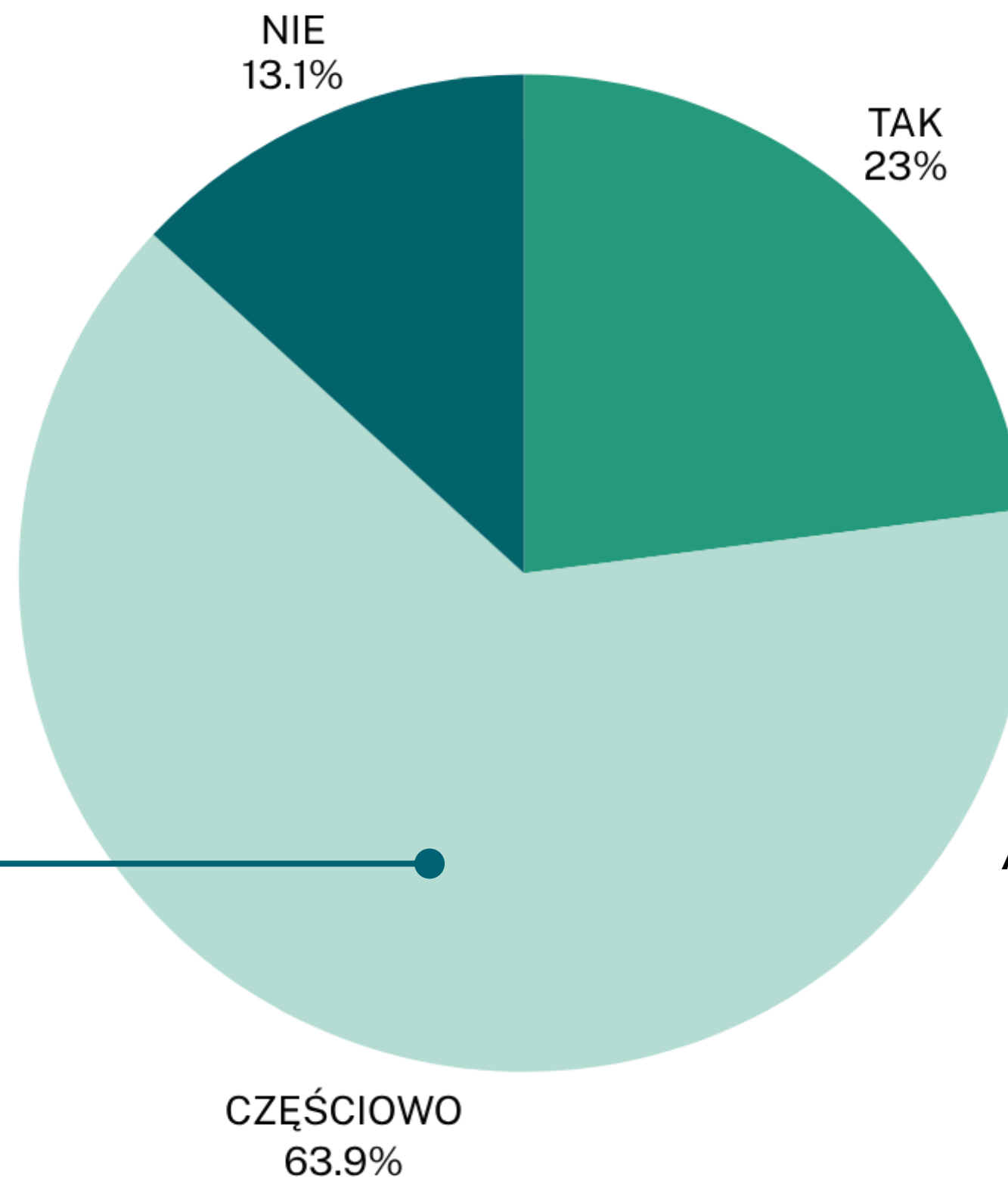
LOCATION AND CONNECTION WITH THE SURROUNDING AREA



WHAT HAS BEEN ALREADY DONE?



**INITIAL PROPOSAL OF 60 CRITERIA
FOR MUNICIPAL COMPANIES**



87%

**OF THE PROPOSED CRITERIA
ARE ALREADY BEING IMPLEMENTED
PARTIALLY OR FULLY**

**CALIBRATED AREA TO MAKE THE STANDARD
CRITERIA MORE ACCURATE**

TWO IMPLEMENTATION PATHS



NEWLY DESIGNED
BUILDINGS

DIFFERENT
CONDITIONS



EXISTING
BUILDINGS



65 INVESTMENT CRITERIA

LESS CRITERIA TO MEET,
MORE FLEXIBILITY

STANDARD FOR THE NEWLY DESIGNED BUILDING



THE STANDARD IS FULFILLED BY BUILDING THAT MEETS **24 CRITERIA**,
INCLUDING **11 MANDATORY** CRITERIA AND 13 OPTIONAL CRITERIA

STANDARD FOR RETROFITED BUILDING



THE STANDARD IS FULFILLED BY BUILDING THAT MEETS **6 CRITERIA**,
INCLUDING **1 MANDATORY CRITERIA (EF)** AND 5 OPTIONAL CRITERIA

GOOD INVESTMENT PRACTICES IN WROCŁAW

WITH A FOCUS ON
GREEN-BLUE INFRASTRUCTURE

WROCŁAW GREEN BUILDING STANDARD PILOT PROJECTS



TBS ul. Mościckiego



TBS Stabłowicka



ul. Wilcza 1-3-5 Wrocławskie Mieszkania



Zespół Szkolno-Przedszkolny przy ul. Zwycięskiej



źródło: Facebook Wrocławskie Mieszkania

źródło: wrocław.pl

EXAMPLES OF INVESTMENTS

Retrofitted residential building - ul. Wilcza 1,3,5



OPENING UP TO EXTERNAL INVESTORS



For commercial entities, the standard is optional

We organize meetings for various groups and environments



FIRST COMMERCIAL INVESTMENT MEETING THE STANDARD

New Promenades Stage I

Total number of criteria met: **37 criteria**

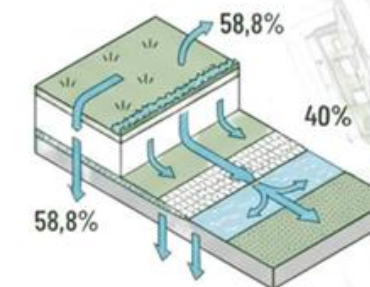


Lokalizacja: Wrocław, Kleczków (Miłosa/Czochrańskiego) | Powierzchnia terenu: 7 630,38 m² | Status: Certyfikacja Pozytywna



1. Błękitno-Zielona Infrastruktura

Zagospodarowanie 58,8% wód opadowych na terenie, przy wymogu 40%. Zastosowanie dachów retencyjnych i nawierzchni przepuszczalnych.



2. Efektywność Energetyczna

Zintegrowany bilans energetyczny dla kompleksu budynków. Instalacja PV 18,6 kW dla części wspólnych i inteligentny monitoring mediów.



3. Odpowiedzialność Społeczna

Całkowita otwartość osiedla (brak ogrodzeń). Pełna dostępność dla osób z niepełnosprawnościami i integracja z tkanką miejską.





WROCŁAWSKI STANDARD ZIELONEGO BUDYNKU

ORDER NO. 3730/25
OF THE MAYOR OF WROCŁAW



Zielony
Wrocław

Wrocław 2050

