

City of Kladno

From vision to reality

EU GREEN WEEK 2021 PARTNER EVENT

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Taste the city ...

Population = around 70,000 (13th in the Czech Rep.)

Area = 37 km²

Situation = Central Bohemian region;
20 km from Prague

Mayor = Milan Volf

History = heavy industry, coal mining; Poldi Company; pollution; unemployment; diverse social strata

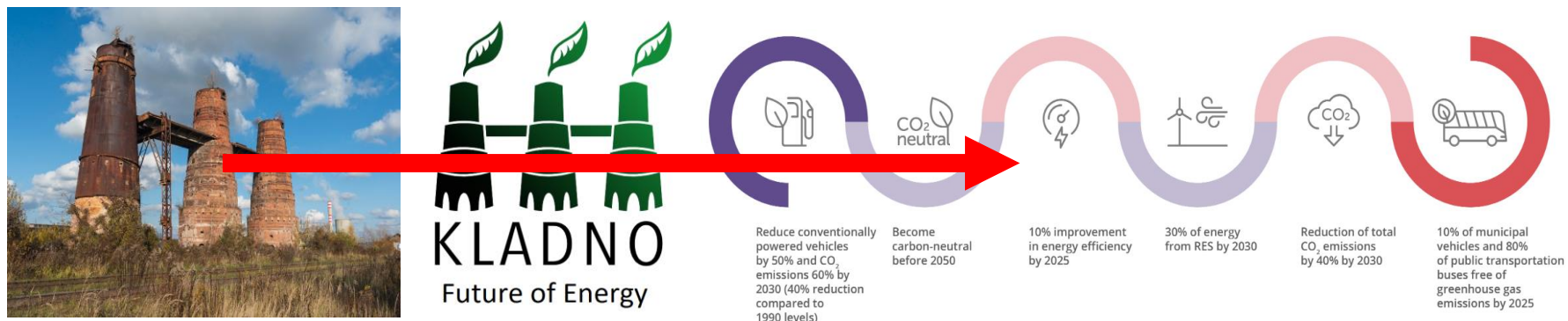
Jaromír Jágr; Zdeněk Miler - Krteček,
Sports area Sletiště

www.mestokladno.cz



Strategic basics for the vision

Kladno is a fellow city in SPARCS



INCLUSION

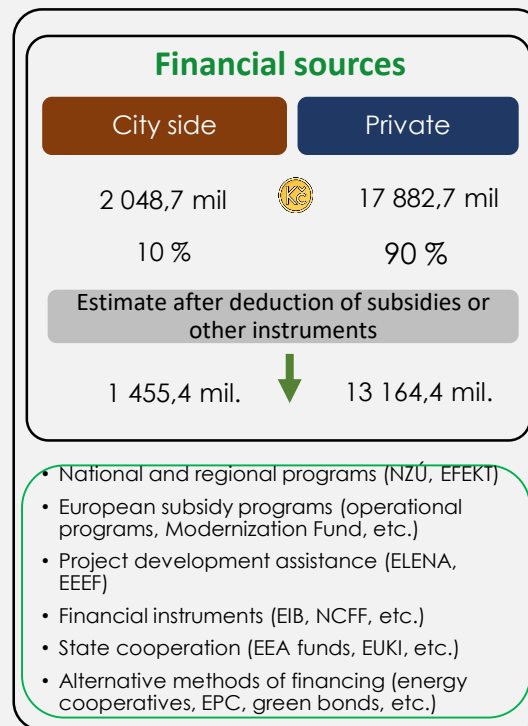
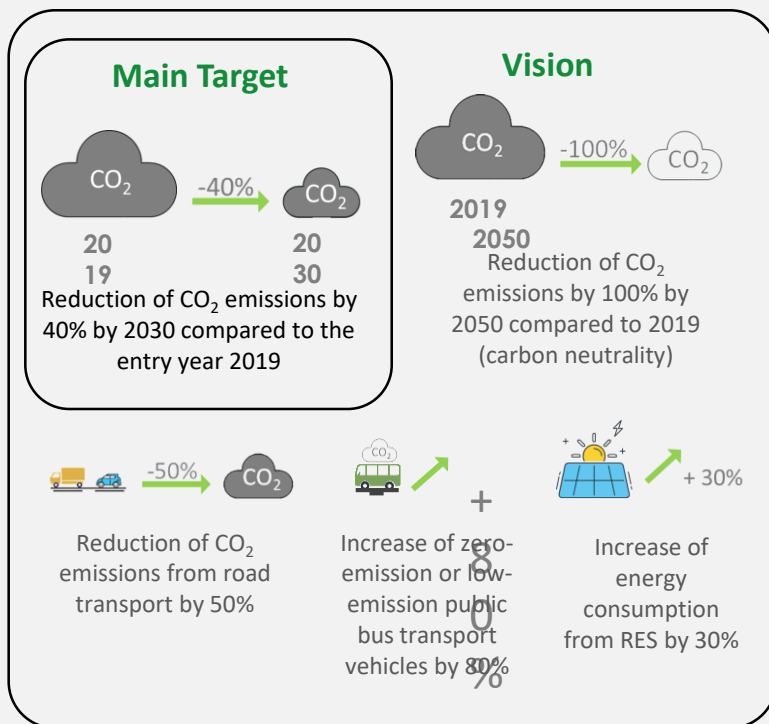
RESILIENCE

SUSTAINABILITY

BEING SMART

Kladno's vision is constructed as a live mechanism and it is a dynamic vehicle showing continuous progress in the city.

Action plan (SECAP) - 2030/2050



- Initial greenhouse gas emission balance (BEI).
- The analysis of vulnerability to the negative impacts of climate change (RVA).
- Reduction in CO₂ emissions by another 40% by 2030 compared to 2019 and increases resilience to the effects of climate change.
- Carbon neutrality by 2050.
- Proposes measures in the sectors of buildings, housing, transport, public lighting, waste and water management.
- Appropriate adaptation measures are proposed to increase resistance to extreme climatic events.

The City Vision(ing) Process

City vision = ongoing process of co-creation.

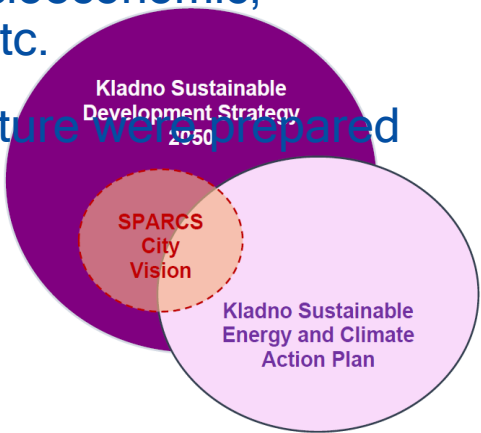
Key connection with the city's strategies.

Vision process was conducted by city administration and via city's stakeholders ecosystem.

Several 1to1 meetings and city workshop took place in order to ensure top-down and bottom-up approach.

Broad analysis was done (for the purpose of SECAP and city profile) - socioeconomic, population, local economy, etc.

Posters and view from the future were prepared and discussed.

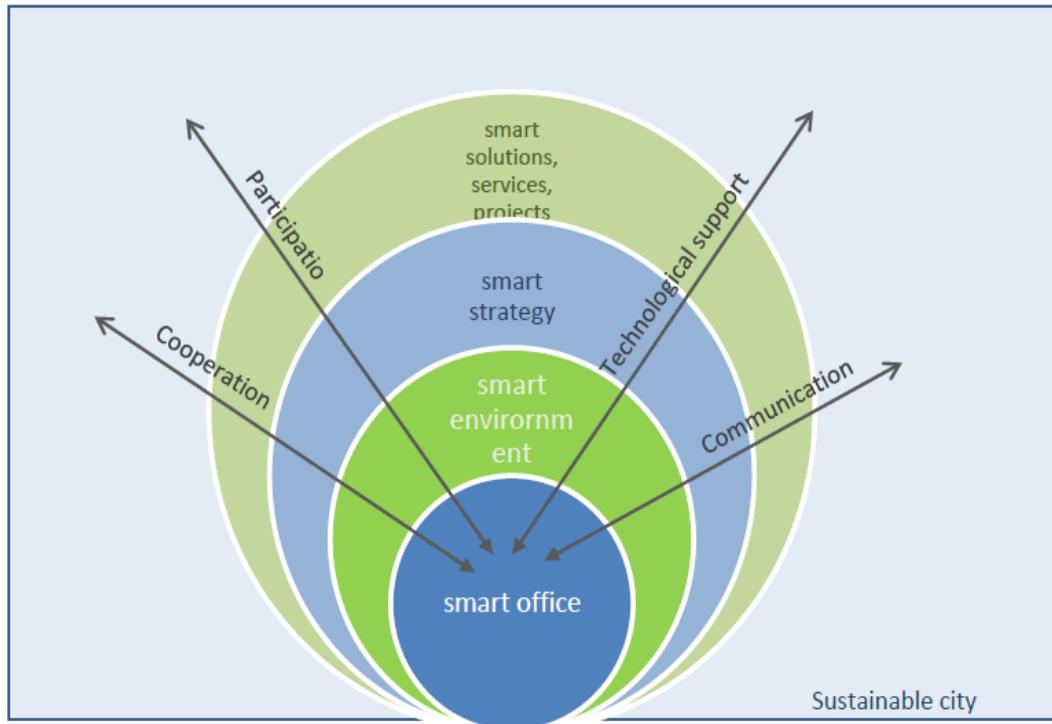


The City Vision(ing) Process

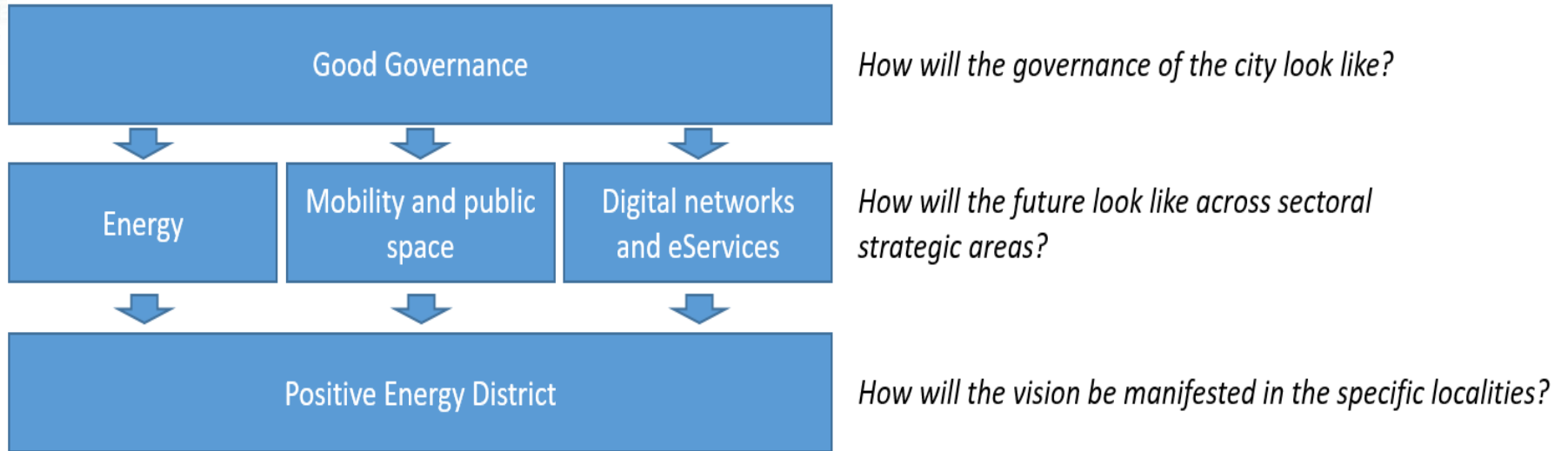
Broad partnership →

City (and regional) representatives; city companies; local and regional companies (Prague Airport, ESCO comp. ČEZ); heat power plant; heating distributor; water (Veolia); waste management company (AVE); mobility provider (Arriva); housing sector; research (Central Bohemian Innovation centre, CVUT); regional chamber of commerce (OHS); experts.

Ad hoc partners - in relation with project/particular activities dissemination.



Key Strategic Areas



Example „Energy“:

The energy efficiency of buildings; support of energy decentralization and a balanced mix of local energy sources incl. renewable energy sources, heating system modernization/change, community energy, new materials and construction technologies, waste and water management also in the context of energy use, public lighting or using the complex energy management incl. IoT platform.

Results of the City Vision

The vision statements (40); examples:

„Kladno has a stable system of energy heat and electrical energy distribution integrating large zero emission energy source and decentralised renewable energy sources.“

„Municipal buildings and storages provide flexibility services to the grid and the city supports local stakeholders in joining the effort.“

„Kladno has a complete ring road system built around the city and uses complementary measures to reduce traffic in the city.“

„The municipal organizations are able to operate fully in online mode.“

„The public transportation uses low-and zero carbon technology (vehicles and infrastructure) and is well connected with other modes of transportation.“

„Cooperation with research, education institutions and business is routine approach when it comes to city development planning.“

Results of the City Vision

Positive Energy District:

- Strategic area; Test-bed; Stakeholders' interest in involvement.
- There is a potential of the local production and use of RES.
- The key parameter is the economy (assets, investment, sources, return).
- PED is an umbrella for partial innovative projects and services.

„The local ecosystem partners actively form project consortia around specific services and innovative projects.“

„PED design represents an urban (energy) transformation concept in the city, and serves as a showcase of economic, social, urbanistic and energy balanced development direction in the city.“

The City Vision for the years to come

What's next:

- vision's update (based on SECAP; implementation plan and project outlines),
- testing the vision in the practise (feedback loop - content wise, procedural, territorial scope - PED),
- vision as a tool (for urban planning, for construction aspects, for investment targeting, etc.).

Challenges:

- motivation of the key stakeholders and their real involvement; citizens engagement; mindset change,
- urban ideal model vs. practical realization and real possibilities,
- data platform; smart metering; open data,
- capacity building; knowledge; City Hub,
- funding and right investment strategy,
- district heating network; diversion from the coal; broader exploitation of renewables (volume; distribution and accumulation; energy communities) vs. legislation.

The City Vision for the years to come

Vision from the past



2020



2030

???

2050

???

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