



MISKOLC

Smart & Green



SMART CITY INTEGRATED ACTION PLAN OF MISKOLC
EXECUTIVE SUMMARY

Even in the key urban development documents of Miskolc define the purpose to become more liveable, attractive, healthy and human focused city rebounding an increasing level of life for its citizens¹. In concrete strategic and operative goals appears the intention of empowering economic potential, protection of natural environment and keep up sustainability in general living conditions².

On the basis of these leads drove the mean of buzzword Smart and Green Miskolc! It is not only an "empty" catchword.

As the national regulation³ says: "A smart city is a system that enhances human and social capital wisely using and interacting with natural and economic resource via technology based solutions to address public issues and efficiently achieve sustainable development and a high quality of life on the bases of a multi stakeholder, municipality based partnership."

Examining several national and international examples of the pathways to become a Smart City, facing the challenges, obstacles and potential gains made it obvious for us, however the salutary process will never end (there will always be more advanced cities in any aspect) but inevitable to step on it to reach the desired aim: providing more liveable city for the residents and our visitors as well.

Smartification is a complex process based on the three pillars Environment – Happiness – Sustainability apply advanced ICT solutions, but the "human" must be always in the centre of the approach.

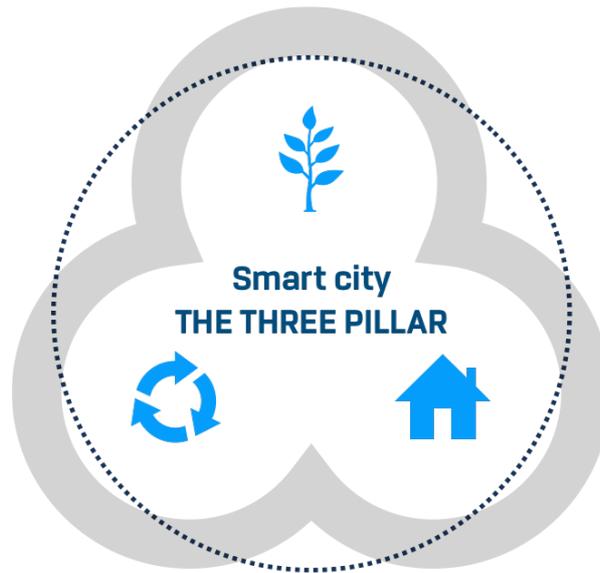
¹ Integrated Urban Development Concept 2014-2030

² Integrated Settlement Development Strategy 2017-2020

³ 56/2017. (III. 20.) Government Decree

Clean environment

—
Handle global environment and urbanization problems



Happiness

—
Handle the ongoing shifts in the values of citizens and residents lifestyle

Sustainability

—
A smart city is designed to ensure the flexible dynamic approach needed to ensure the sustainable existence of the city

Smart City – three pillars

Following the Lechner Knowledge Center's recommendation for the scope of the developments we identified the following components:

- Smart Environment & energy
- Smart Mobility
- Smart Economy
- Smart Governance
- Smart People
- Smart Living

In our age is inevitable to know and adapt state of art ICT product and solutions to enable local authorities to offer higher quality public services on more efficient way, but the purpose mustn't be only "put technology between client and service provider". Result of the smartification process must close citizens and local authority by scanning citizen's needs, requirements and satisfaction regarding the developments. Miskolc has to evolve the practice and the platform of the citizen engagement to ensure the "customer satisfaction" of the usually complex, innovative and costly, development projects.

„Smart City“ is more a mindset than a technology. It gives how we thinking about

- **urban development**
- sustainable future
- city management
- and how define Miskolc itself.⁴

Miskolc has already started to plan and implement SMART City projects, but this integrated action plan joins the completed, ongoing and planned actions to avoid remain them isolated but to be linked as integrated part of clear vision and strategy. Seeking the furthermore linking possibilities of actual activities.

Smart City projects as steps on the smartification pathways bunch by components:

Smart environment & energy

- *Geothermal energy*⁵
- Smart grid
- Smart metering
- Solar panels
- Electric charger stations
 - TiDy App
 - Gispan GIS
 - Flood prevention
 - Air pollution metering

Smart mobility

- *CNG fleet*
- Passenger Information System
- Intelligent Traffic Management System
- E-ticketing
- E-charger stations
- Ciclo App

⁴ SMART specialization become more and more important on EU level in competitiveness

⁵ *Italic* appearance the previously finished projects.

Smart living

- *Waste management*
- Open space Wifi
- LED walls
- Digital-Society development
- CityApp
- Intelligent CCTV System

Smart economy

- Innovation ecosystem
- Open data
- Meetups and Hackathons

Smart governance

- E-governance
- VIR — Management Information System

Smart integration

- *Gispan GIS*
- City management platform

Living lab of Miskolc

For the planning, coordination and implementation of all these projects must be assure an effective **organizational** background. From the project management experience through ICT knowledge and technical design capacity till the public services concentrated in the Miskolc Holding it was obvious to delegate the complex task into the company under control of a Commissioner of Mayor.