

SMART GREEN CITY KEŽMAROK



KEŽMAROK

MODERNÝ • DYNAMICKÝ • HISTORICKÝ



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Kežmarok

Senior Friendly 2017, Digital #1 2018,
Enviromentcity 2019



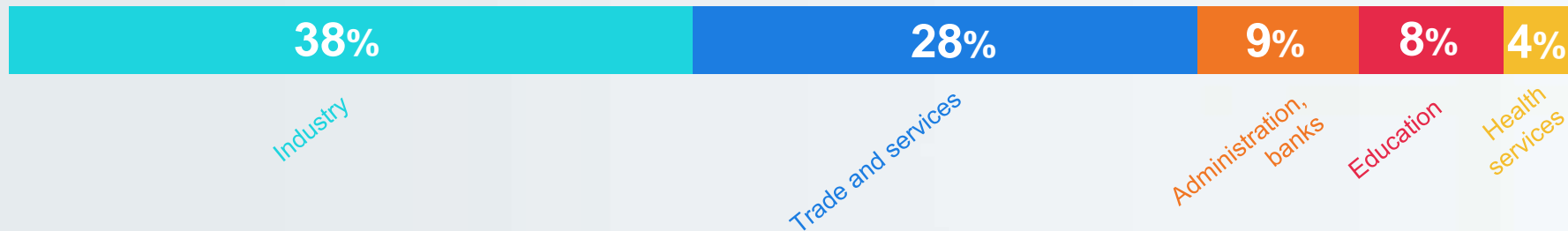
Population
15 761
7 614 men
8 147 women



Population of
Kežmarok
district
70 000
inhabitans



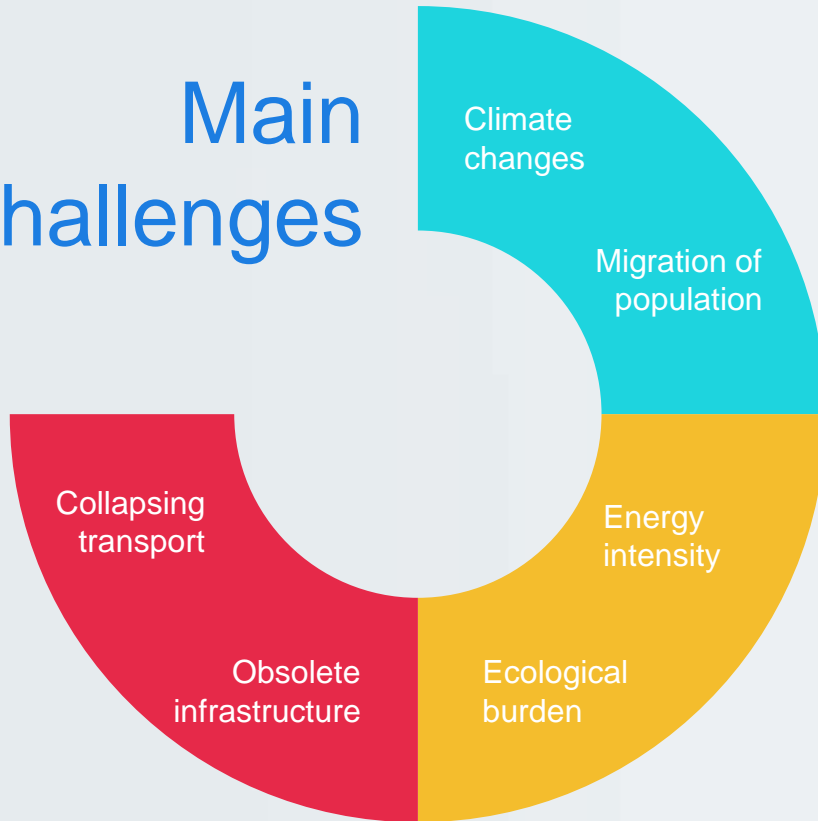
Productive population **60%**



Age structure of the population



Main challenges



Why **Smart Green City** Kežmarok?

Our vision is to /gradually/ **build** STEP BY STEP a **modern and dynamic city from Kezmarok**. It is no longer a question of **WHETEVER**, but **WHEN** the city will become part of technological progress. The term „Smart“ is often understood only in terms of technology. **However, the AIM is to ensure how such solutions are effective and simplify in our lives.**





Kežmarok – areas of interest



Vision 2030 – smart green city

Transform **Smart Green City** concept to a real **Smart city Kežmarok**

Kezmarok has already started an intelligent city journey in the past few years.

We introduced:

- **the single economy of the city,**

- Made audits,

- **changed LED lighting,**

- launched **optical internet** - and linked it to all

- organizations

-

Creating of idea concept -2017
A baseline document for further steps to meet the vision of a smart city and defining priorities

Making of Action plan / strategy -2019
Specific measures and measurable indicators for the further development and implementation of projects

Evaluating Smart Projects in the City -2025
Smart City project success and public opinion

Kežmarok is a Smart City leader
Kežmarok becomes a flagship and a smart city among the cities in Slovak Republic

2030



City Management

Progressive management



Active participation in Smart Initiatives and Conferences

Member of
Smart City Cluster
Digital Coalition
Smart Region Eastern Slovakia

Communication with public



Involvement of citizens in improving city processes

Participative budget
City Monitor
Social networking
Message for the mayor

Team of professionals



Creation of Smart City agenda job position

Project management
Search for pilot projects
Inter-departmental cooperation

Innovative solutions



Taste and an active approach to introducing new solutions

Sharing information and datasets for developers, Electronic city services

Mobility – green transport



2014

Lights crossroads, roundabouts, responding to increased traffic in the city



2015

Automatic parking system with ramps and payment machines



2014-19

Building cycling routes, cyclotourism support, sidewalks reconstruction



2018

Support of electromobility, construction of a charging station

2020

Low-carbon public transport, integrated public transport, smart parking + smart traffic management

2025

PRIORITY:
Green transport

Vision 2030: City defining trends in green mobility

City information - (eco)system

2017-2018: established City card



A loyalty system of benefits for the people of the city



2004-2018: Management Center

Building of The City Police camera system, including the dispatching center, nowadays 38 cameras and 6 monitors, optic network connection



2018-2019: Map Portal

City map portal with full 2D, 3D modules from all spheres of city life

2015-2017: Optical network

Linking urban institutions, schools, car parks, sports within high-speed internet network



2016-2017: Unified economy

All municipal organizations (RO, PO, SRO) are using equal accounting system, transparent and easy to compare results



2017-2020: Open data

Data sharing with the general public, private sector and institutions



Vision 2030: A secure city with a modern ICT infrastructure open to the public

Education and schools

2017: College in the city



Establishing the first contact point of the College of Economics and Public Administration Management



2016-2023: High school campus

Reconstruction of buildings in former barracks in order to relocate 3 secondary schools – project stopped, Prešov Self-Governing Region



2015-2019: Reconstruction of Elementary schools and kindergartens

+ expanding capacities in kindergartens



Starting the Start-up Center Support for pilot projects

Talents and students have the opportunity to engage in city and regional development projects

Vision 2030: City as a leading center of education in the wider region

Active life and Health



2016-17: Summer swimming pool

Opening of the summer saltwater swimming pool and eco-heating

2018-19: Hospital reconstruction

Cutting-edge new technique



2015+: Support of sports and youth

Direct support of the City Sports Club and the Leisure Center



2017-18: Reconstruction of the ice hockey stadium

Modernization and use of the arena for sports and cultural purposes



2018: Courtyards

Reconstruction of an outdated urban area



2019-22: Currently we are working on building the Center for Integrated Health Care /CIZS/

Vision 2030: City as a pleasant place to live for people of all ages

Energy and the environment



Heat sources

Revitalizing heat sources:

- biomass 20%
- geothermal energy 70%

Production of heat and hot water for more than 4500 households and public buildings



Public lighting

Reduce the cost by gradually introducing LED lighting in the city (1/4 realized)



Smart Grids

Information processing and evaluation, clever management of the distribution system



Smart buildings

Reconstruction of public buildings for efficient use of energy



Monitoring

Monitoring of energy consumption and climatic conditions through sensors (IoT) - in preparation

Vision 2030: City with significantly reduced energy costs

Project financing

Own and national financial instruments

Model of joint financing (PPP projects)
e.g. Slovak Investment Holding

Bilateral financing

Pilot Scheme for Supporting Development and Innovation Projects for Building Sustainable Places in the Slovak Republic
Norwegian Financial Mechanism

European Structural and Investment Funds

Integrated Regional Operational Program, Rural Development Program, Operational Program Environment, Operational Program Human Resources, Operational Program Research and Innovation

Cooperation with international financial institutions

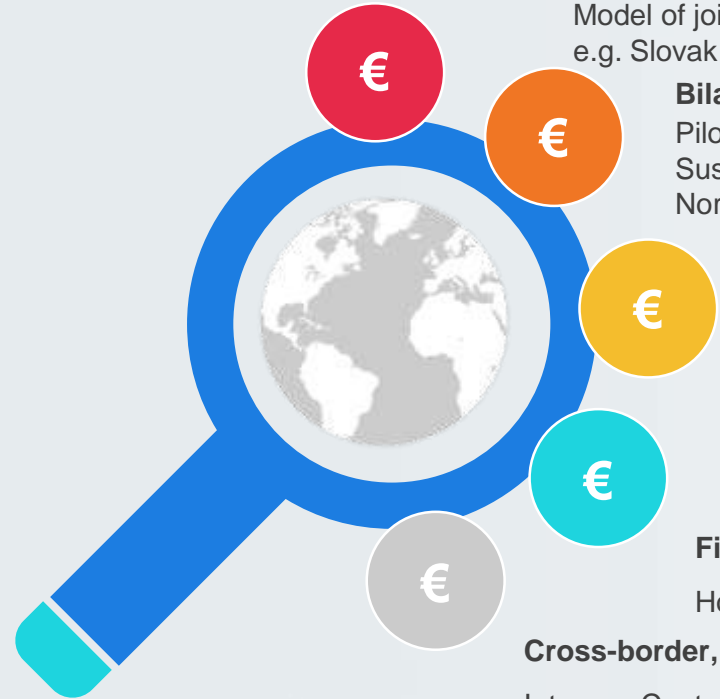
EIB Tools for Smart City Support

Financial instruments managed by the European Commission

Horizon 2020, COSME

Cross-border, transnational and interregional cooperation programs

Interreg, Central Europe 2020, URBACT III, ...



Vision summary



Setting measurable indicators for smart solutions

By using measurable **indicators** and analysis of **results**, it is possible to **compare Kežmarok** with other cities in Slovakia and abroad.

long-lasting planning



Building a smart community in Kežmarok

Citizen and private sector participation in the city is a key element in the implementation of smart city development strategy.



Kežmarok in the heart of smart initiatives

We **want to be where something is happening**, share experiences and participate in the overall success of the digital boom in Europe.

„Invention is the most important product of man's creative brain.
The ultimate purpose is the complete mastery of mind over the
material world, the harnessing of human nature to human
needs.“

Nikola Tesla



Thanks for paying attention



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