



EFFECTIVE AIR QUALITY MANAGEMENT 2021

LIFE Integrated Project

„Implementation of Air Quality Plan for Małopolska Region – Małopolska in a healthy atmosphere”

EXAMPLES OF GOOD PRACTICES FOR MUNICIPALITIES AND LOCAL GOVERNMENTS

Tomasz Pietrusiak

Deputy Director of Environment Department
The Marshal's Office of the Małopolska Region



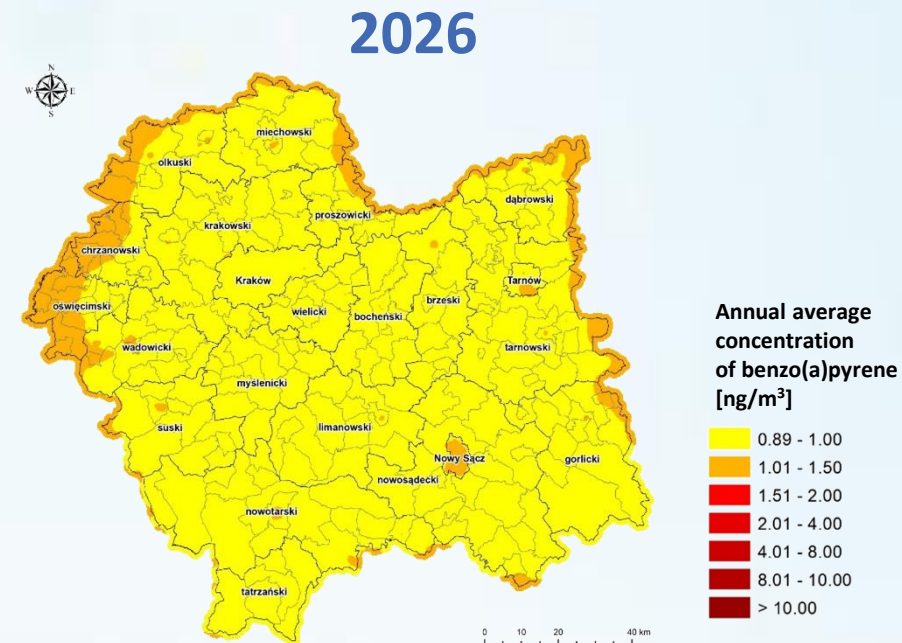
Information on the Małopolska Region

- ✓ Total population: **3 404 863**
- ✓ **3** big cities, **19** land counties, **182** municipalities
- ✓ **36 out of 50** most polluted cities in the EU are in Poland and 7 of them in the Małopolska Region
- ✓ **98%** of residents live in areas where WHO standards for PM2.5 and benzo(a)pyrene are exceeded
- ✓ The main cause of air pollution is emission from inefficient **old boilers** that use **solid fuels** – mostly coal.



New Air Quality Plan for the Malopolska Region

- ✓ Anti-smog resolutions for Kraków and Małopolska Region force to eliminate old inefficient boilers
- ✓ AQP came into force on the 27th of October 2020
- ✓ The aims of the AQP are:
 - To implement the **Anti-smog resolutions** (an obligation to replace out-of-class boilers by 2023)
 - To achieve the limit values of:
 - PM10 and PM2.5 in **2023**
 - Benzo(a)pyrene and nitrogene dioxide in **2026**





Air Quality Plan for the Małopolska Region

Tasks of the municipality:



Eco-manager in each municipality



Inventory of all heating sources



The Clean Air Programme information points in every municipality



Preferences for **renewable energy sources** in subsidy programmes



Tasks of the municipality:



Local **information campaigns** in municipalities



An analysis of the problem of **energy poverty** and support for residents



Quick responses (inspections) to the reported infringements (such as waste incineration)



At least 1% of own revenues is allocated to activities related to **air protection** within the municipality's budget



Information on air quality and the degree of air pollution danger **on the official website**



Air Quality Plan for the Małopolska Region

Tasks of the county governors:



Conducting **information campaigns**



Hiring **Climate Ecomanager**



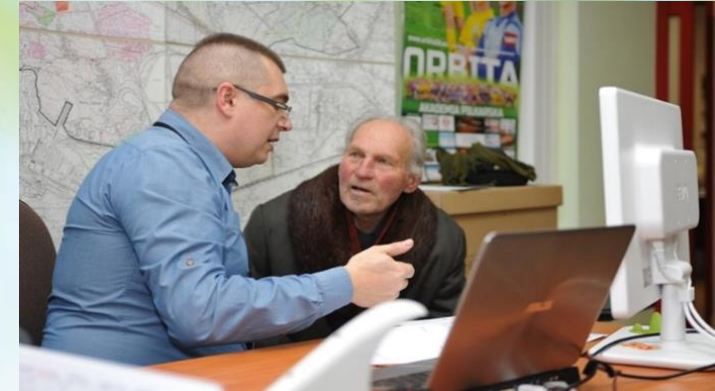
At least **0.5%** of own revenues for activities related to **air protection**

Eco-managers

Primary objective: Acceleration of the implementation of „Air Quality Plan”



104 in total Eco-managers in municipalities
(67 employed during LIFE Project)





Actions of Eco-managers

Supporting the control of compliance with the anti-smog resolution

- ✓ **Inspections** to prevent waste burning and to check compliance with the requirements of **anti-smog resolutions**
- ✓ **Conducting inspections** by the municipal or inter-municipal guards, authorized municipal employees or in **cooperation** with the police
- ✓ **Drons** during inspections





Actions of Eco-managers

Information and education activities

- ✓ Organization of **meetings, lectures and educational contests** in cooperation with **opinion making groups** (media, priests, NGOs, doctors, teachers)
- ✓ **Publication of articles** in the press and on the Internet





Actions of Eco-managers

Knowledge transfer

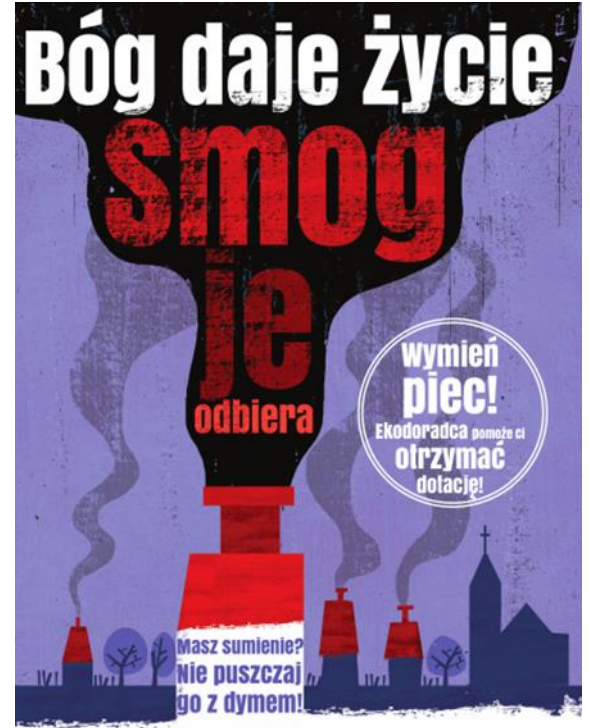
- ✓ Local education and information campaign to promote clean air
- ✓ Distribution of educational leaflets and posters



YOU KILL
with a smoke from the furnace



A thief lives in your house!
The old furnace is stealing your time and money



God gives life,
smog takes it away



Actions of Eco-managers

Support and consultation in the field of energy saving

- ✓ **Thermal imaging** surveys for private and public buildings at the request of a resident
- ✓ **Consultation** for free in the field of RES technologies, heating sources, co-financing programmes and requirements of the anti-smog resolution





Actions of Eco-managers

Service The Clean Air Programme

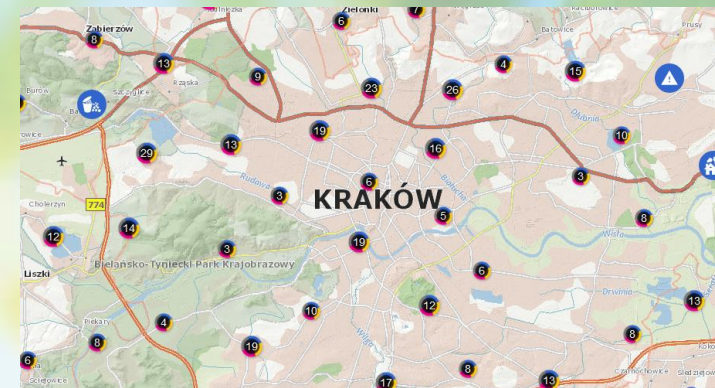
- ✓ **The Clean Air Programme** information points in 175 municipalities in Malopolska
- ✓ Aimed to **replace old heating sources** for more modern and ecological ones, as well as to **insulate houses**
- ✓ Budget amounts to 103 billion PLN (ca. **230 million EUR**), planned until 2029









SOCIAL PARTICIPATION FOR THE CLEANER AIR

Eco-intervention mobile and web app

- ✓ **For free** dedicated to inhabitants of Małopolska
- ✓ Anonymous reporting of **environmental infringements** by residents
- ✓ **Quick intervention** of the services (12 hours after notification)
- ✓ Building of **environmental awareness** of the region's inhabitants



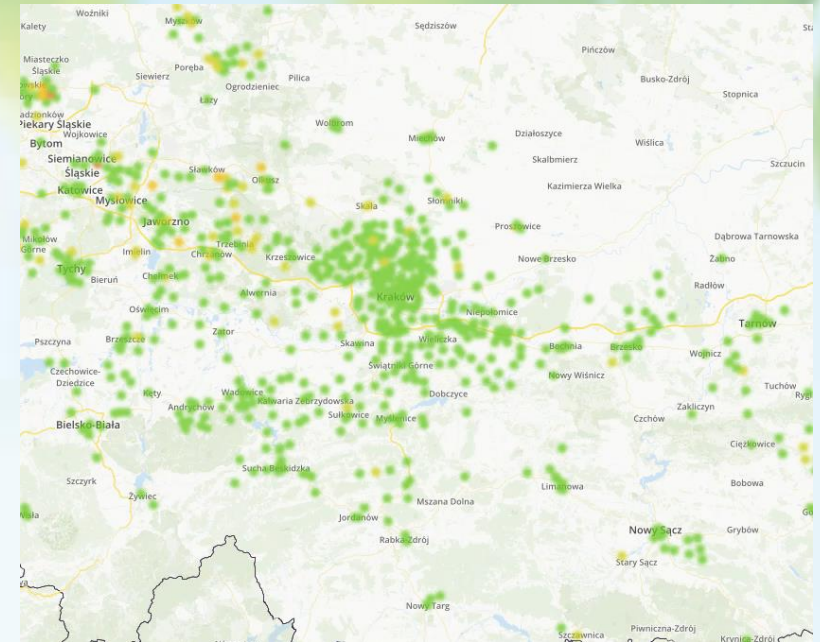
 Zanieczyszczenie powietrza ID: 1289886	2021-05-25 08:46
 Inne zgłoszenie ID: 1289783	2021-05-25 08:25
 Inne zgłoszenie ID: 1289643	2021-05-25 07:08
 Inne zgłoszenie ID: 1289525	2021-05-24 21:36
 Odpady ID: 1289422	2021-05-24 17:48
 Zanieczyszczenie powietrza ID: 1289396	2021-05-24 17:47



LOW-COST AIR QUALITY SENSORS

Monitoring the effects of the implementation of AQP

- ✓ A network of **several hundred sensors**
- ✓ Located throughout **the entire Malopolska Region**
- ✓ **Monitoring air quality** in an overview
- ✓ **Raising awareness** on air pollution



AIR CLEANERS

For nurseries and kindergartens

- ✓ **1800 air cleaners** purchased from the funds of the Malopolska Region
- ✓ Organization of a **wide educational campaign** in nurseries and kindergartens in Malopolska with the involvement of parents





Visit our website:

www.powietrze.malopolska.pl/en/

and

facebook.com/EkoMalopolska