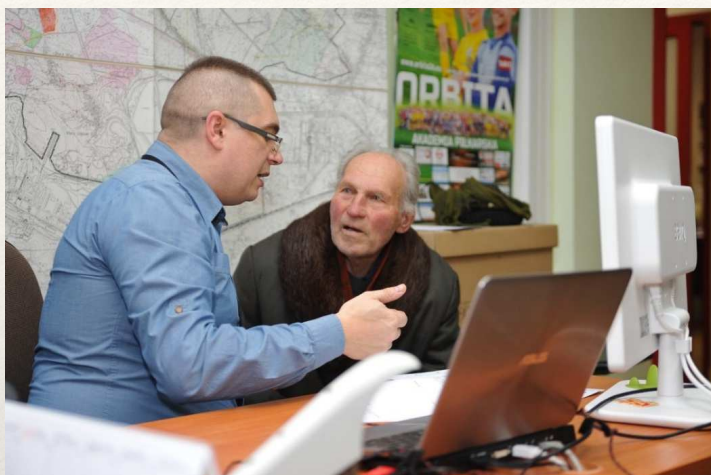


Implementation of the Air Quality Plan for Małopolska Region – Małopolska in a healthy atmosphere

Monitoring visit
21st November 2018

C1. Ecomanagers

60 Ecomanagers – results of work (X 2016 - X 2018)

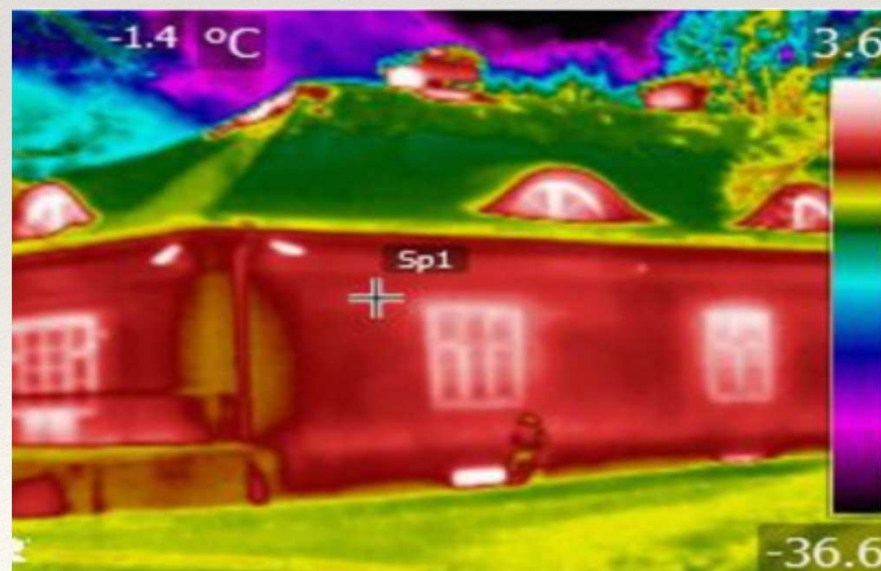
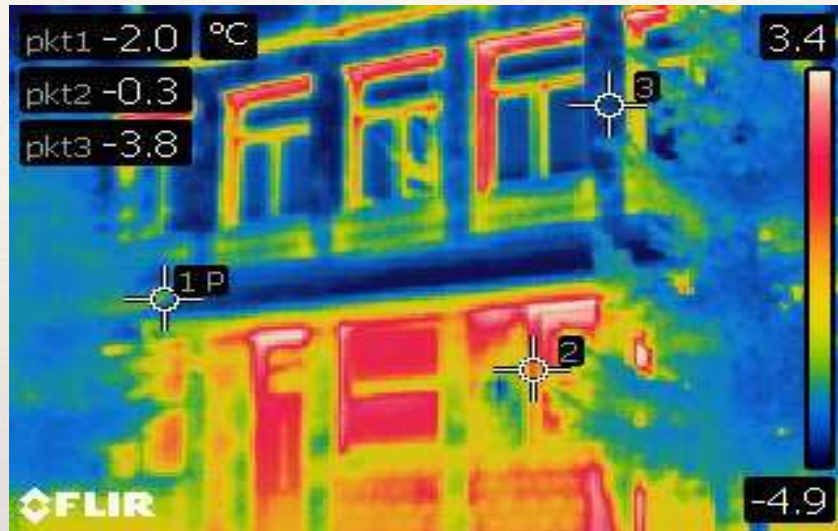


- They provided help and advice for over **373,000 residents** (in the office, in the field, by phone and in writing)
- They organized **3,700 meetings** for residents, in which **232,500 people** took part
- They conducted **1000 lectures** - in schools with the participation of **43,700 people**
- They carried out over **2,300 waste burning controls**
- They **served 12,000 applications** for co-financing



C1. Ecomanagers

They examined a thermal camera of 2,300 buildings



C1. Ecomanagers – tasks for second phase

Investigations of ash samples Supporting people affected by energy poverty

Number of visits to homes in terms of analysis
is of the need to improve energy efficiency -
625

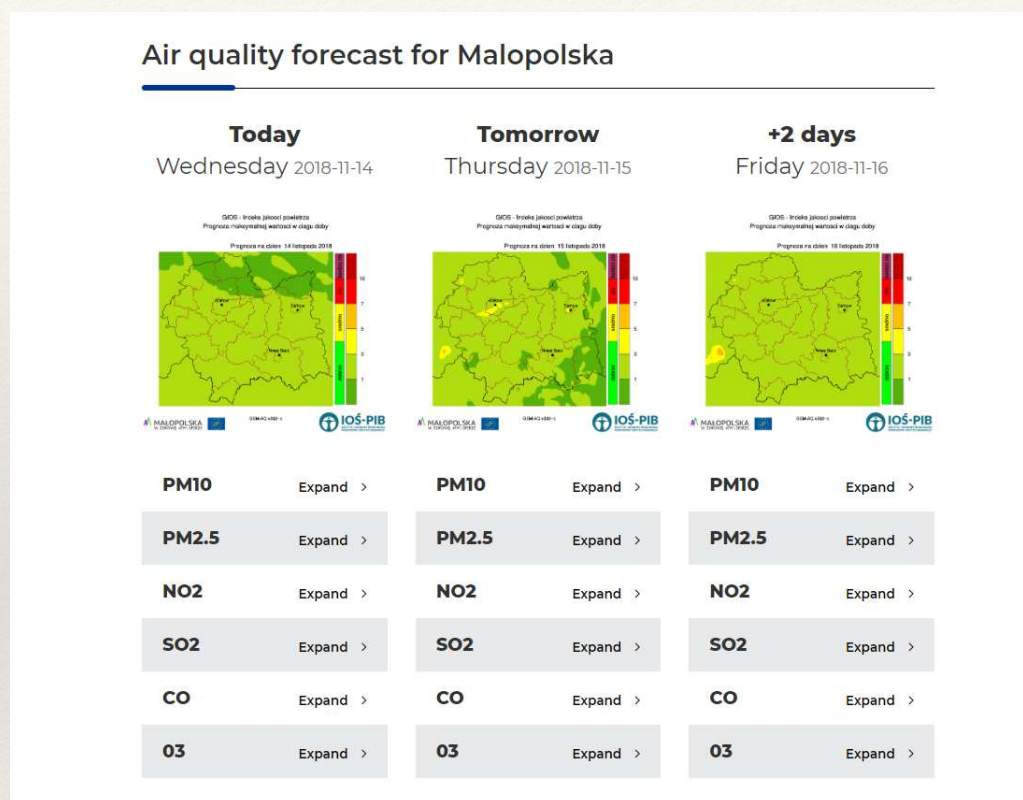


Investigation of ash samples in second phase
of the project is not started
(heating season is starting now)



C2. The Excellence Center

Short-term forecasting of air quality for the Malopolska Region with current assimilation of data from monitoring



Forecasting provided until the end of 2018, forecasts displayed on the project website

C2. The Excellence Center

Post-graduate studies



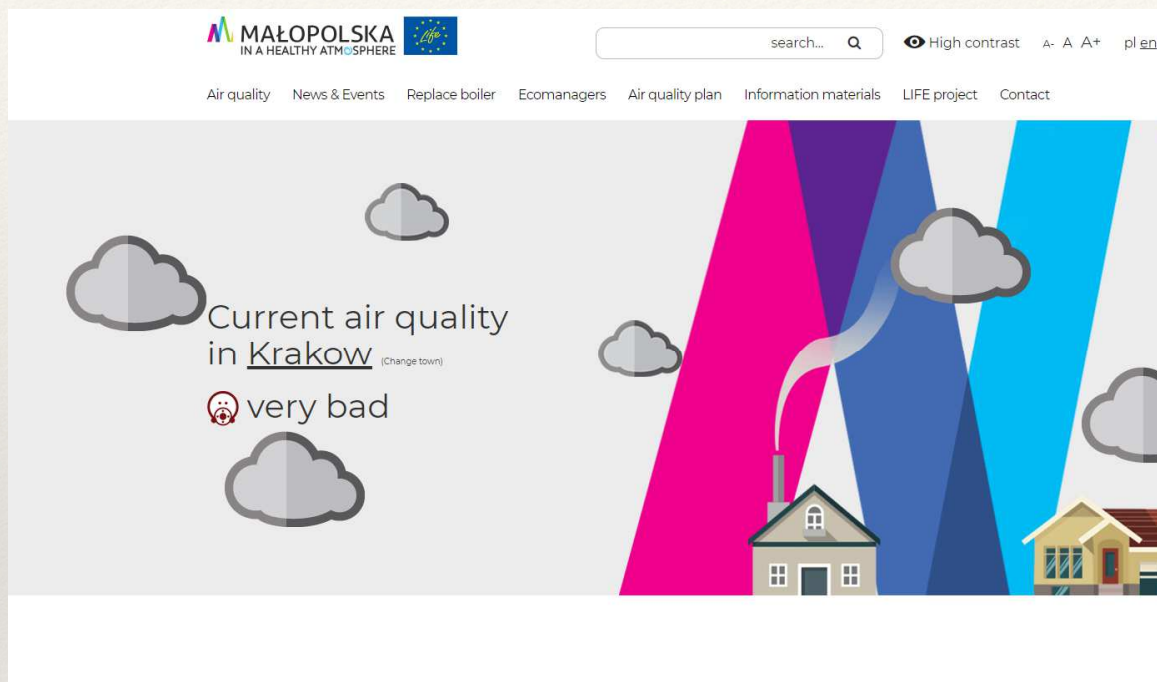
Organization of post-graduate studies for employees of local government units from the Malopolska and Silesian Region area who are not project partners.

Number of people enrolled in the university: 37

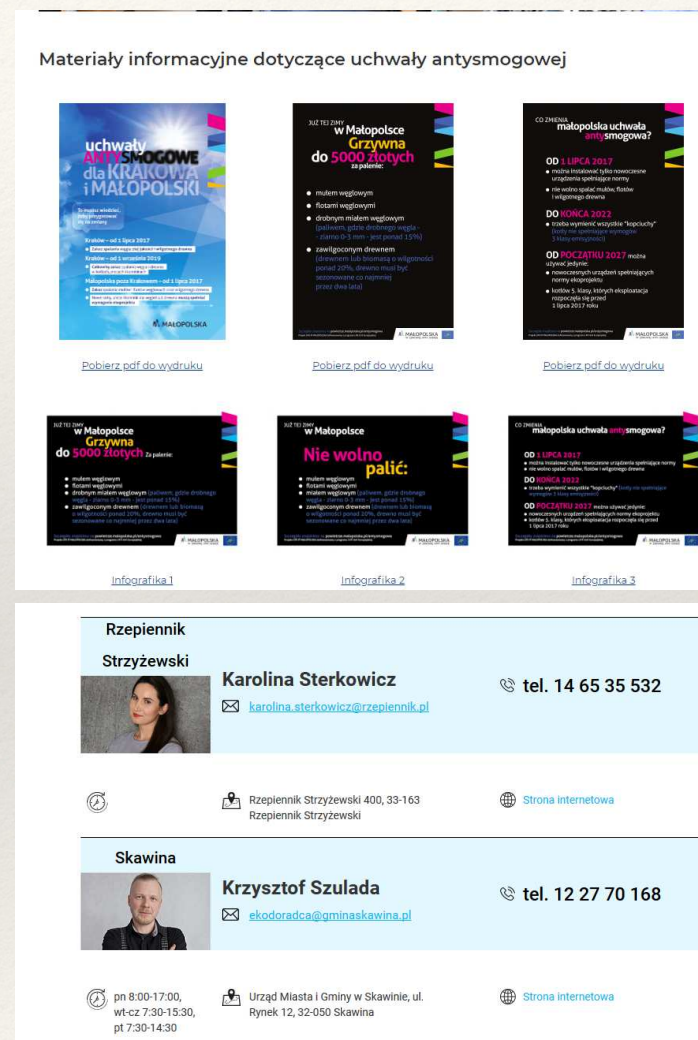
First student meeting: 30th Nov. 2018

C2. The Excellence Center

Training materials and knowledge base for Eco-Managers available free of charge in electronic form on the project website







Since the beginning of the project, the site has registered more than **3.5 million** views!



C2. The Excellence Center

A database of heating devices for solid fuels eligible for financial support (Ecodesign standards).

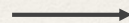
Paliwo	Nazwa urządzenia	Zdjęcie	Rodzaj	Moc znamionowa	Dokumenty
Pelety	RAKOCZY STAL CORTINA PELLET http://rakoczy.pl/		Kocioł	14kW, 21kW, 28kW	Wniosek Badania Instrukcja
Pelety: wartość opałowa >17 MJ/kg; zawartość popiołu ≤0,5%; zawartość wilgoci ≤12%					
Drewno	KRATKI KOZA K AB KOZA AB 2 http://kratki.com		Miejskowy ogrzewacz pomieszczeń	8kW, 10kW	Wniosek Badania Instrukcja
Drewno: zawartość wilgoci ≤20%					
Drewno	KRATKI BLANKA 6757 BLANKA 910 http://kratki.com		Miejskowy ogrzewacz pomieszczeń	11kW, 16kW	Wniosek Badania Instrukcja
Drewno: zawartość wilgoci <20%					
Pelety	LUMO BIO MAX PLUS www.lumo.com.pl/		Kocioł	30kW, 45kW	Wniosek Badania Instrukcja

The list already has more than 200 devices

It is used by municipalities from all over Poland

Government interested - it is possible to create a nationwide database

Application of
producent



Verification by Marchall
Ofiice and the experts
from certified laboratories



Device on list

C2. The Excellence Center

Trainings for Ecomanagers

- On **12th April**, there was a celebration of awarding the best for Ecomenagers
- On **28th May**, the Ecomenagers participated in the workshops that took place at the Company of Thermal Waste Recycling in Krakow. A visit was combined with educational workshops in the field of air protection and settlement of the regional operational program
- On **26-27th June** Ecomenagers participated in workshops in the field of energy audit and thermo-modernization organized in part with KAPE
- On **25th September** at the Polish Aviation Museum in Krakow, workshops were held for Ecomenagers and representatives of other interested municipalities of the Małopolska region in the scope of the "Clean Air" government program and low-cost air sensors
- On **30th October** at the headquarter of the Marshall's Office, KAPE conducted a workshop on the problem of energy poverty for the Ecomenagers and the social workers



D.1. Monitoring the effects of the implementation of air quality plan

Comparative measurements of low-cost dust sensors

First stage: 15/12/2016 – 20/06/2017, Second stage: 1/11/2017 – 15/03/2018

10 low-cost sensors participated in the measurements. Measurements do not generate costs - producers themselves provide their sensors.

The measurement reports were published collectively on **2nd October 2018**



D.1. Monitoring the effects of the implementation of air quality plan

Annual report summarising the implementation of the Małopolska Air Quality Plan by 2017 published on 30th October 2018



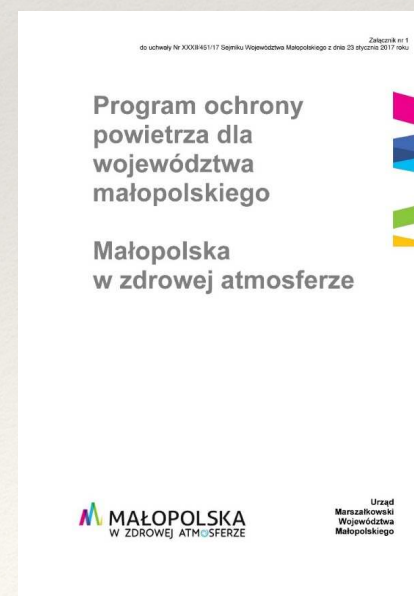
30 PAŹDZIERNIKA 2018

**Podsumowanie
działań
antysmogowych w
Małopolsce w 2017
roku**

In 55 municipalities that are partners of the LIFE project, 8172 solid fuel heating units were liquidated, which accounts for **81%** of all liquidations carried out in 2017 in Malopolska. The effect of pollution reduction in the form of 206.5Mg PM10 dust, 175,3Mg PM10 dust was obtained, which is over 70% the total effect of the ecological reduction of these pollutants in the region and 112kg benzo (a) pyrene, which accounts for 78% of its total reduction. At the same time, the average emission reduction value obtained in municipalities participating in the LIFE project was 6 times (for PM10 iPM2.5) up to 8 times (for B (a) P) higher than for other municipalities in Malopolska

D.1. Monitoring the effects of the implementation of air quality plan

The Supreme Audit Institution (Najwyższa Izba Kontroli) has recently carried out an evaluation of the Małopolska work. The Supreme Audit Institution **positively assesses the activities of the Małopolska Region Self-Government aimed at achieving the required air quality in the region**. As good practice, he assesses the method of creating the Air Quality Plan for Małopolska Region and its updating. The NIK report also drew attention to the determination of the Małopolska Region in obtaining EU funds for projects related to improving air quality. PLN 42 million was generated for the implementation of the LIFE project, while as part of the Regional Operational Program of the Małopolska for 2014-2020, up to EUR 420 million was reserved for pro-environmental measures included in the Air Quality Plan.



E1. Regional media campaign to promote clean air

The fourth round of campaign was running from 01/04/2018 to 30/04/2018.



E1. Regional media campaign to promote clean air

Organization of a wide educational campaign among Małopolska nurseries and kindergartens with the involvement of parents.

- Małopolska has purchased 1800 air purifiers.
- The devices went to 1696 branches.
- 98 air purifiers were delivered to provincial hospitals with children's wards.
- All donated institutions organized educational campaigns on the subject of pollution and air protection.



E1. Regional media campaign to promote clean air

Organization of a wide educational campaign among Malopolska nurseries and kindergartens with the involvement of parents.



E1. Regional media campaign to promote clean air

Organization of three family runs promoting the idea of clean air

- Zakopane 3rd June 2018 (75 participants)
- Dobczyce 8th July 2018 (170 participants)
- Kraków 6th October 2018 (**751 participants**)



E1. Regional media campaign to promote clean air

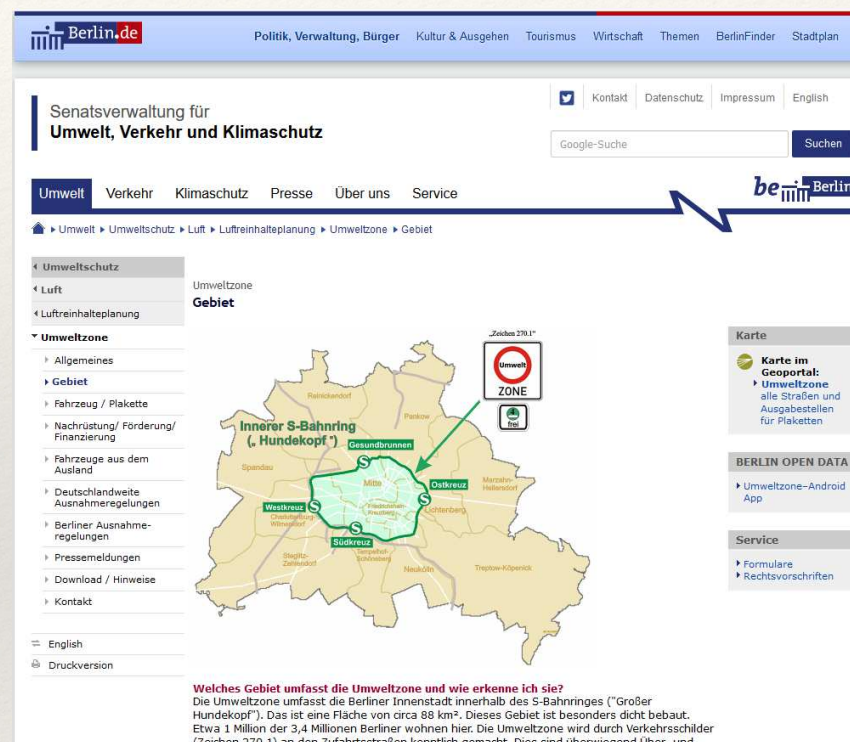
Organization of three family runs promoting the idea of clean air

- Zakopane 3rd June 2018
- Dobczyce 8th July 2018
- Kraków 6th October 2018



E3. Create a network for sharing experiences with other projects

Organization of a study visit to the Czech Republic in the field of experience related to the introduction of LEZ



Study visit took place on **18-20th June, 2018.**

Participants: Malopolska, Śląskie, KAS, Miasto Kraków

E3. Create a network for sharing experiences with other projects

Co-organization of conference EKOZAKOPANE 3rd June 2018

New ambassadors of clean air

Electric car trip KRAKÓW-ZAKOPANE

Energy and Environment Forum Ekozakopane



E3. Create a network for sharing experiences with other projects

Organization of regional conference

Series of workshops devoted to co-financing for RES projects
Regional Operational Program - Priority Axis 4 Regional energy policy,
Measure 4.1. Increasing the use of renewable energy sources,
Sub-measure 4.1.1 - Development of infrastructure for the production
of energy from renewable sources.

5 meetings in 2018:

1. 26th October
2. 9th November
3. 16th November
4. 30th November
5. 14th December



E3. Create a network for sharing experiences with other projects

The most important events participated by Malopolska (IV 2018 – XI 2018)

- **23–25th May 2018** headquarter of the United Nations in Geneva (56th session of the Working Group on Strategy and Review (WGSR))
- **13–16th June 2018** in Serock near Warsaw during The C4E Forum (The Central & Eastern European Energy Efficiency Forum) discussion panel "Local action to improve the quality of life"
- **2-3rd July 2018** international workshops on air pollution from housing heating organized by the DG NEAR Directorate of the European Commission and the Slovak Ministry of the Environment in Bratislava
- **10–11th September 2018** Graz (Austria) Workshop on air quality programmes and their effectiveness
- **27th September 2018** Ministry of the Environment and Spatial Planning of Slovenia a conference with the participation of Slovenian municipalities on LIFE integrated projects in the area of "air" (video conference)
- **4-5th October 2018** Vienna the next edition of "CEE Impact Day".

E3. Create a network for sharing experiences with other projects

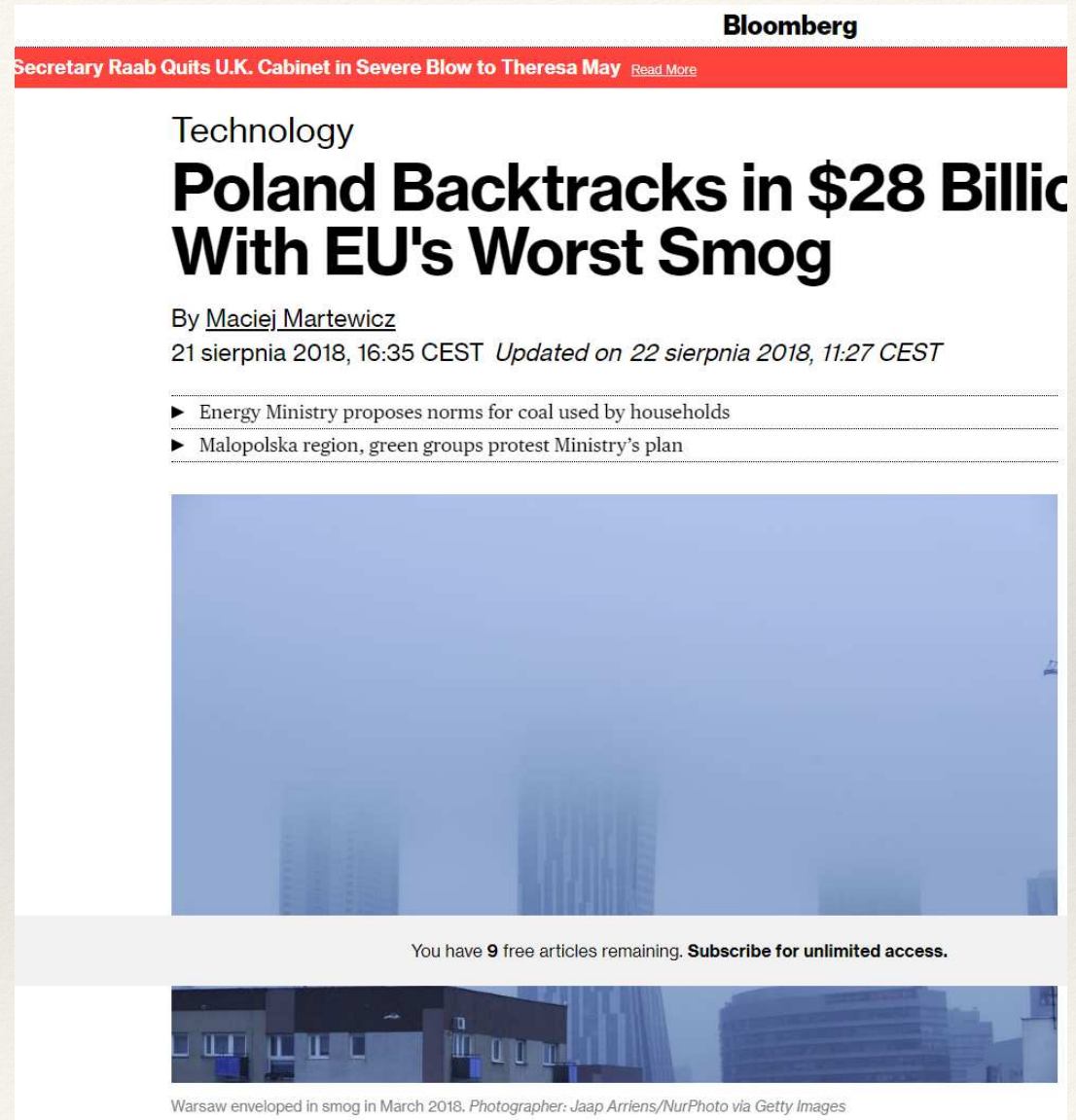
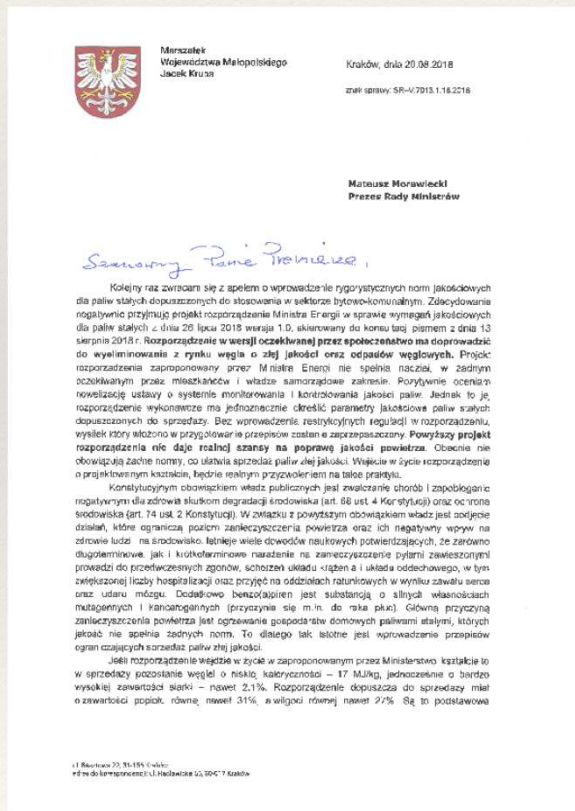
Meetings of the steering committee of the "Skawina Laboratory" project, whose aim is to implement and test the piloting of an innovative instrument in the form of thermomodernization of single-family houses. Malopolska joins the project with an advisory voice



E3. Create a network for sharing experiences with other projects

Comments of the ordinances projects

Appeals to the prime minister (widely commented on in the international media)



E3. Create a network for sharing experiences with other projects

Cooperation with the World Bank as part of the project „Catching up Regions”



Recomendation for Government



The Governmental Clean Air Programm



E4. Promotion of project implementation

Małopolska on the occasion of Green Week 2018 has prepared an information bulletin aimed at promoting good practices, experiences and results of the project, in particular the idea of employing ecomenagers by local self-governments. The bulletin was distributed to about 3 thousand local governments in Poland at the municipal and regional level.



E4. Promotion of project implementation

Ecomenagers decided to conduct classes at schools, where they told not only about matters related to air quality, but also about their daily work and why they became "specialists in clean air". **More than four thousand young people** from all over Małopolska took part in the events organized by Ecomenagers!



E4. Promotion of project implementation

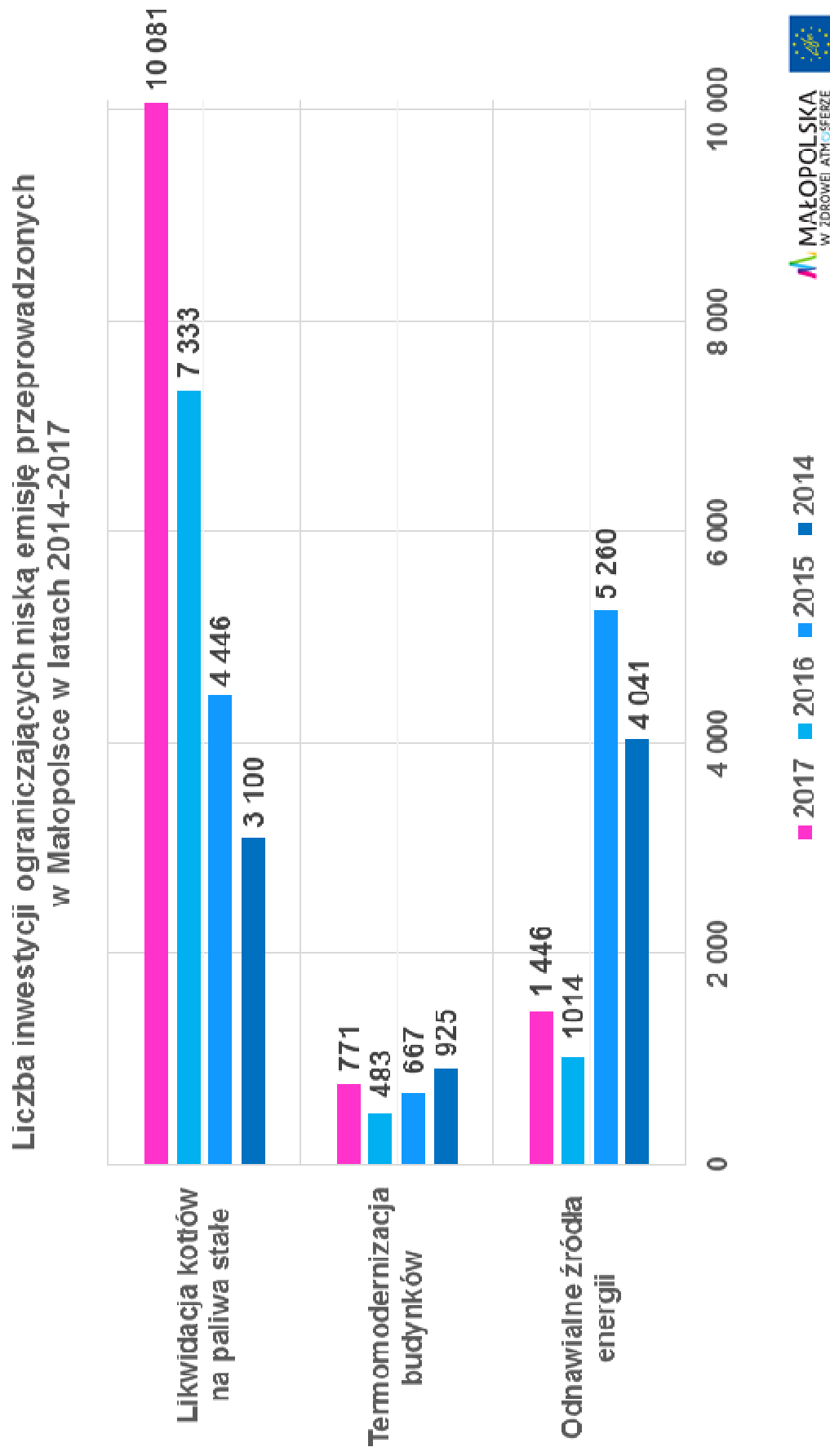
Clean air day on 14 th November – children from all Malopolska were writing lists to neighbours



F.1. Project managing

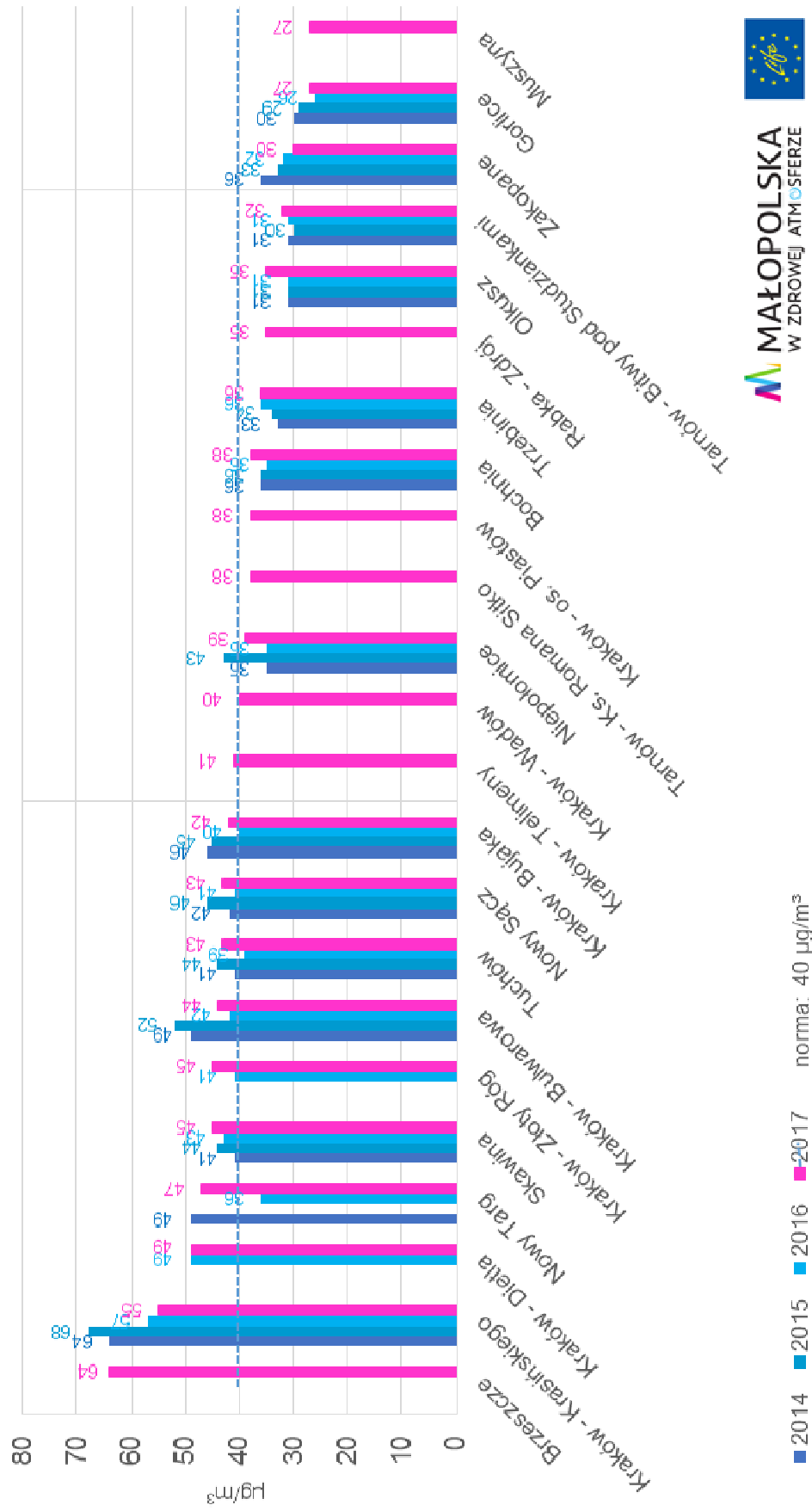
Problems

- Problem with tranche heights (20%)
- Problems with the remuneration of Ecomenagers
- The 2% rule - limiting for municipalities
- Problem with public tenders (regional campaign)



Źródło: Sprawozdania gmin, Baza inwentaryzacji ogrzewania budynków w Małopolsce

Stężenia średnioroczne pyłu PM10 w latach 2014-2017



MAŁOPOLSKA
W ZDROWEJ ATMOSFERZE

Źródło: Wojewódzki Inspektorat Ochrony Środowiska

Decrease of pollution level

Aleja Krasińskiego station		
Year	PM10 annual average concentration [µg/m³]	Number of days with exceedances of the daily limit values for PM10
2006	96	249
2017	55	130
The maximum allowed number of days with exceedances: 35		