

IMPLEMENTATION OF A PLATFORM FOR MONITORING INDUSTRIAL POLLUTION

PILOT PROJECT



AIR QUALITY PLAN

THE AQP WAS APPROVED
BY THE MALOPOLSKA
REGIONAL PARLIAMENT ON
28 SEPTEMBER 2020

The pilot platform for monitoring industrial pollution was developed, tested and conducted as part of Siscode project carried out by the Krakow Technology Park (KPT) from the funds of the Horizon 2020 European programme. At the regional level, the Krakow Technology Park joined the process of consulting the Air Quality Plan (AQP) developed by the Marshal's Office of Malopolska Region. The platform for monitoring industrial pollution is important part of the action plan written in AQP.

Coordinator



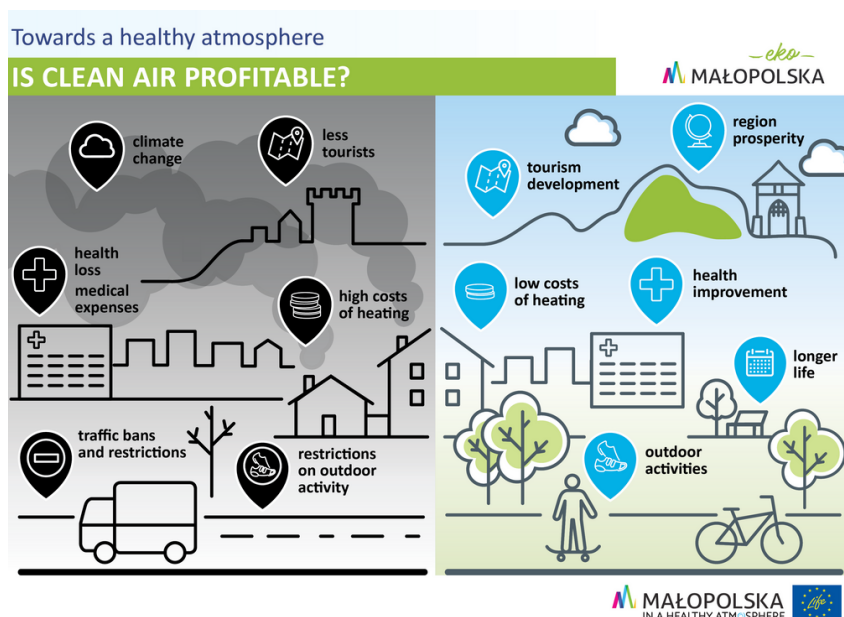
Partners



THE SCOPE OF THE PILOT PROJECT

One of the main courses of action in protecting air quality listed in the Air Quality Plan is the reduction of industrial emissions to the environment and ecological education of the residents. The participants of the workshops conducted by KPT – representatives of the administration, business, academia, non-governmental organisations, and the residents – emphasized that regulations and control of air quality must be extended to the industrial sector, and especially to small and medium-sized enterprises.

To make implementation of some recommendations resulting from the conducted workshops possible, the Krakow Technology Park joined the organisation of Smogathon 2019 hackathon. A special implementation prize was awarded at the event to Qubit team, whose project deals with monitoring of industrial pollution, one of the priorities of the new AQP.



THE PILOT PROJECT CONSISTED OF TWO ELEMENTS:

- AN ONLINE PLATFORM ADDRESSED TO THE LOCALS AND BUSINESSES OPERATING IN SKAWINA COUNTY
- CONDUCTING A VISUAL MONITORING OF A REPORTED AIR POLLUTION INCIDENTS CAUSED BY AN INDUSTRIAL FACILITY




The Industrial Zone

STAGES OF THE PILOT PROJECT

THE PILOT PROJECT CONSISTED OF TWO STAGES:

 DEVELOPING THE PROTOTYPE PLATFORM FOR MONITORING INDUSTRIAL POLLUTION IN COOPERATION WITH REPRESENTATIVES OF THE MARSHAL'S OFFICE OF MALOPOLSKA REGION, REGIONAL INSPECTORATE FOR ENVIRONMENTAL PROTECTION, AND THE COUNTY OF SKAWINA

 TESTS OF THE PLATFORM WITH END USERS: RESIDENTS OF SKAWINA COUNTY AND REPRESENTATIVES OF BUSINESSES

PLATFORM TESTS

TARGET GROUP: RESIDENTS OF SKAWINA COUNTY AND REPRESENTATIVES OF BUSINESSES



1ST PHASE OF TESTING



INTERNAL TESTING OF THE PROJECT TEAM

2ND PHASE OF TESTING

TESTS AMONG THE STAFF OF THE KPT AND THE OFFICE OF THE MARSHAL (13 PEOPLE)

3RD PHASE OF TESTING

INTERVIEWS WITH INDIVIDUALS (20) AND BUSINESSES (5)



AN ONLINE QUESTIONNAIRE (16 RESPONDENTS)

SUMMARY



FULL IMPLEMENTATION OF A PILOT PLATFORM FOR MONITORING INDUSTRIAL POLLUTION WAS CONDUCTED.



THE TEAM MANAGING THE PILOT PROJECT COLLECTED PLENTY OF VALUABLE COMMENTS ON THE OPERATION OF THE PLATFORM, DATA QUALITY, AND POTENTIAL ADDITIONAL TASKS.

Project results:

- complex evaluation of the prototype conducted on the reference group of residents and businesses
- definition of strengths and weaknesses of the platform, with recommendations for improvements and modifications
- augmented knowledge and awareness of industrial pollution in local communities
- a helpful tool for building a positive company brand among the locals
- a solution scalable to the remaining communities of the Malopolska region

