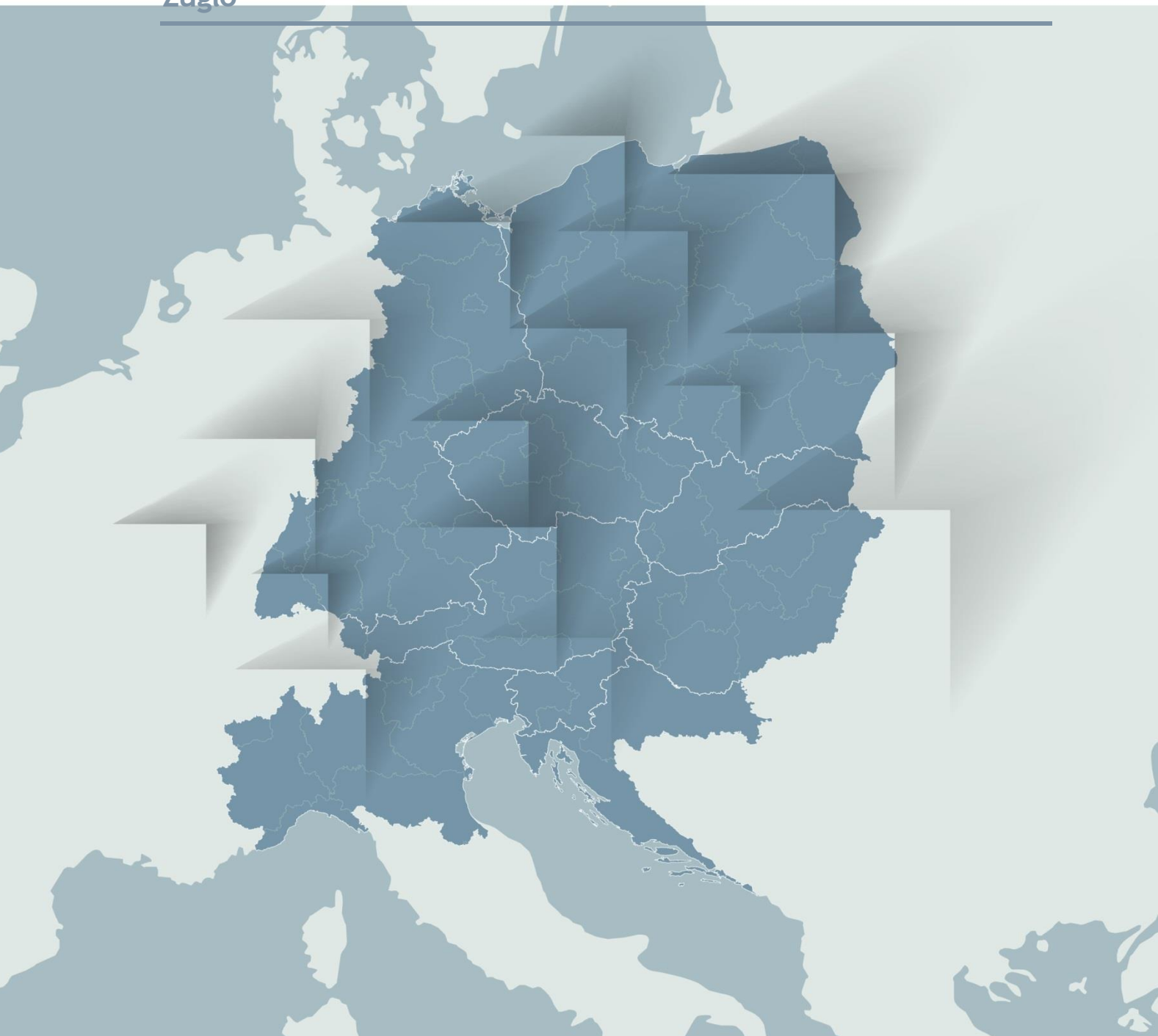

D2.2.3

Summary report of the technological pilot test Zuglo



Pilot action 5. Temporary air quality measure station in Zugló

1.1.1.1. Aim: Better knowledge of air quality during the winter in Zugló. The Hungarian Air Quality Monitoring Network (Országos Légszennyezettségi Mérőhálózat -OLM) doesn't have a permanent measure station in Zugló. As a part of AWAIR program we will establish two temporary measure station for 2+2 weeks to measure air quality during the winter months with the technology used by the capital as well. The data from the permanent measure stations will be comparable in every level with those coming from the temporary ones thus giving us a clearer picture on air quality in the area. We will get the data every 15 minutes. On our website we will show the graphs based on the data every 15 minutes and we will have charts from the daily averages compared to the limit values.

Pilot action 6. Gathering and summary of emission data, emission estimation based on the data in the FUA and in Zugló

Aim: Description of existing emission inventories, their unification and the creation of a database for updating the air pollution forecasting model. Emission estimation based on the data in the area of FUA. Emission from transport can be estimated based on the traffic model of the strategical noise map and there is an innovative alternative to try and use the data of Waze or Google Maps to estimate the emission. The effect on air quality of residential heating is even harder to estimate. The GIS of the municipality could help because it shows where the district-heating areas, the gas boilers or the unique heating systems are. The chimney sweep company of the capital could also have a database that can help in estimating residential heating. The definition of both emission factors needs meticulous research but a detailed and exact emission database could be the basis for a better forecasting system. We need to make the emission (point, line and diffuse sources) databases of the Budapest, Functional Urban Area and especially Zugló more accurate and prepare a database for the air pollution model.

Pilot action 7: Writing daily messages for the in-development application especially for the vulnerable target groups

1.1.1.2. Aim: Increasing the knowledge of the residents on chronic respiratory diseases and raising awareness. The writing of the messages in the AWAIR application in case of SAPE. Part of the international AWAIR program is to create an application that gives daily information when needed on air quality to the vulnerable groups. With the involvement of the National Public Health Centre and the Clean Air Action Group, the application currently in development will give a daily rating on the current state of air environment and, especially in SAPE situations, will give advice for the

vulnerable groups (people with asthma or allergies, seniors, babies). Actions: Development of the application with Zugló and the writing of articulate, Hungarian messages then its promotion.

Pilot action 8: 4.4. Information for the residents about the good ways of heating, the consequences of litter incineration, educational lectures and written materials in the local media about chronic respiratory diseases and the health risks

Aim: Increasing the knowledge of the residents and raising awareness in the topic of residential litter incineration and the health risks. In the recent years Zugló opened a health promotion office (ZEFI), that can help in prevention, screening and consultation while it starts health promotion programs for groups. We will start an informative, awareness raising program series with the help of AWAIR program and ZEFI. The program series will teach with creative communication techniques about air quality, about the causes of poor air quality situations, about what to do in case of smog alert and especially about chronic respiratory diseases.

Actions

Analysis and planning: Gathering and analyzing the communication aspects of awareness raising programs by futsokosankampany.hu, the National Public Health Centre (NNK), the Clean Air Action Group and organizations. Creation of a communication campaign plan (containing content and results).

Heat smart! residential campaign: Sharing the content of futsokosan.hu with the residents in FUA via social media, promotion of these material on social media in the area of FUA

Appearance in the website and media platforms of FUA municipalities: Sharing the content of futsokosan.hu in the area of FUA in the print and other media outlets of municipalities, alliances and other organizations.

Evaluation of air quality data on the website of Zugló: The Hungarian Weather Service will measure air quality with mobile measure stations in Zugló during the winter of early 2019. The data must be shared in a commonly understandable way on charts with short explanations on a subsite of zuglo.hu.

Pilot action 9: Informing the vulnerable groups in case of poor air quality with the involvement of kindergartens and nurseries in Zugló

Aim: Informing and harm reduction in case of poor air quality with 25 kindergartens and 13 nurseries in Zugló. As part of the AWAIR program, the Municipality of Zugló gives special attention to the respiratory diseases caused by poor air quality and its most vulnerable group: children. In order to prevent children in kindergartens to be affected by poor air quality, Zugló will provide support for the institutions in three areas within the AWAIR program.

Actions:

1. **Questionnaire survey:** The survey will show the current actions, knowledge and needs of the institutions regarding air quality/air pollution and adaptation/harm reduction. We will ask if they take any action in case of poor air quality in the institution and who orders it the institution has some kind of informational or awareness raising communication regarding

air quality the institution informs the parents and how they need more information regarding air quality.

2. **Information:** The lectures are for the leaders of the institution and for kindergartners and nurses. In an open day they will get informational materials and will participate in lectures.
3. **Tools:** The municipality gives communication devices (display, board, poster, flyers) and tools to improve internal air quality (measuring device, plants) to the institutions.
4. **Follow-up:** Follow-up of the project will be via questionnaires and personal interviews. We will speak with at least 5 leaders about the effects of the lectures, the success of the communication and the utilization of the application and other channels