

## Output factsheet: Strategies and action plans

Version 1

Project index number and acronym	CE69 INAIRO
Lead partner	National Public Health Center
Output number and title	Output O.T3.3 - Indoor Air Quality Action Plans
Responsible partner (PP name and number)	National Public Health Center / NPHC - LP
Project website	<a href="http://www.interreg-central.eu/Content.Node/InAirQ/InAirQ.html">http://www.interreg-central.eu/Content.Node/InAirQ/InAirQ.html</a>
Delivery date	August 2019

### Summary description of the strategy/action plan (developed and/or implemented)

Indoor air quality (IAQ) in primary school buildings is of great importance as children spend approximately 6-8 hours daily in the school environment. Several indoor air quality measurements performed in the frame of international projects in the partner countries. The previous projects and investigations proved the lack of adequate knowledge of the vulnerable group of people (teachers, schoolchildren and parents) and bottom-up long-term plans to manage the health challenges are still missing.

In order to solve indoor air quality related problems related to primary school buildings, a national action plans decided to be elaborated. The Hungarian action plan records the national recent situation on indoor air quality in schools, draft the potential health risks and formulate activities that affect the improvement of indoor air and environment quality through the sustainable use, management and maintenance of the schools. The aim is to create a healthier indoor environment by improving indoor air quality through reducing or eliminating the sources of air pollutants and setting rules or preventive measures.

The preparation of the national action plan is based on the Joint Transnational Strategy for Indoor Air Quality Action Plans developed within the InAirQ project. Integral parts of each action plan are the vulnerability assessment, the SWOT analysis and the environmental and health surveillance methods. Based on the methods applied for baselining and the results of the indoor air quality monitoring campaigns, recommendations and some cases technical state-of-the-arts solutions presented. The document elaborated also includes the recommendations and comment of the local environment quality forums organised five times in Várpalota.

The extent of air pollution inside the school building depends on the interaction between the building and its external environment, as well as the way the building was built, what kind of building material were used, how it is equipped and how it is used. Thus, the Hungarian (as the other) IAQ action plan has paid special attention on different target groups including policy makers, national bodies responsible for the maintenance of the school, teacher, parents and architects.

The national adaption action plan prepared has followed a common methodology and structure set together by the project partners. Thus each action plans are comparable, which helps improvement the action and activities drafted and fosters future collaboration on common bases.

To sustain the most effective understanding the problem of indoor air quality in school and promote the implementation of the Hungarian action plan capacity building courses were organised in Várpalota, which backbone is the action plan itself.

### NUTS region(s) concerned by the strategy/action plan (relevant NUTS level)

The adaption action plan covers  
NUTS 1 level: HU1, HU2  
NUTS 2 level: HU11, HU21

### Expected impact and benefits of the strategy/action plan for the concerned territories and target groups

The adaption action plan provides and presents reliable, objective and comprehensive information about the recent indoor air quality situation in schools thus, it is expected that the implementation of the recommendation in the school environments will be easier. Furthermore, increased awareness of indoor air and environment quality is expected among the teachers, school maintainers and municipal officers who are the target readers and future participants of the capacity building courses.

The successful implementation of the action plan will improve the indoor air quality situation in other school buildings over Hungary and it will have a positive impact on children's health, productivity and well-being. The national action plans are available online in Hungarian on the Transnational Environment Quality Forum, and accessible free of charge.

### Sustainability of the developed or implemented strategy/action plan and its transferability to other territories and stakeholders

The Hungarian indoor air quality action plan based on past national survey and recent analyses thus ones can be applicable in wider national scale. The action plan presents state-of-the arts solution in improvements of IAQ in details, which can be applied or adapt. As the project partners' adaption plans follow similar structure, other countries' proposals and suggestion may be available to adapt and implement. In other words, an adaption plan is excellent source of cross-fertilization of the ideas and good practices.

### Lessons learned from the development/implementation process of the strategy/action plan and added value of transnational cooperation

The development of the national plan was mostly based on the joint work the NPHC and the municipality of Várpalota and the local schools involved. During the development and improvement of the document, the joint methodology and strategy were used.

The most important lesson learnt from the development of the action plans is that transnational cooperation is useful activity to explore and add all relevant methods to the implementation plans.

References to relevant deliverables and web-links  
If applicable, pictures or images to be provided as annex

The Hungarian adaption action plan is available

on the project official website: <https://www.interreg-central.eu/Content.Node/InAirQ.html> and

on the lead partners website: <https://www.nnk.gov.hu/index.php/transnational-environment-quality-forum>