## Catalogue of measures

Measures and principles for creating air quality plans

Helena Lundström, helena.lundstrom@ivl.se

## Agenda

- Background
- About the report
- How to select measures
- Catalogue of measures- selected parts


## Background

- Air pollution - cause for serious concerns
- Western Balkans struggle with air quality standards
- Many initiatives going on- more needs to be done
- Catalogue of Measures- A project Funded by the Swedish Environmental Protection Agency


## About the report

－A source of inspiration for creating air quality plans
－Provides a theoretical framework for selecting measures（more of this later）
－It is a start but not the solution
－Think about local context
－Target group：municipalities
－Based on air quality plans and air quality management reports from the region
（ 9．Albania＿AAQ Strategy Draft Final＿Eng．pdf
준 10．BiH Plan kvaliteta vazduha，februar 2021．English．pdf

12．BiH＿Zenica＿Akcioni plan za smanjenej zagađenja zraka 30－04－2020．pdf
⿴囗⿱一𧰨⿵冂⿱一口䒑寸 13．BiH＿Zenica＿Akcioni plan za smanjenej zagađenja zraka 30－04－2020＿compressed．pdf

略 15．Kosovo＿Gjilan＿Local Action Plan for Air Quality＿19 June＿2023＿N．H1．docx

17．Montenegro＿Pljevlja＿Kratkoroni－akcioni－plan＿2017．pdf
（2027．18．Montenegro＿Pljevlja＿Plan＋kvaliteta＋vazduha＿2013．pdf
19．Montenegro＿Podgorica＿Plan＋kvaliteta＋vazduha．pdf
20．North Macedonia＿Kavadarci Plan－za－vozduh＿2022．pdf
21．North Macedonia＿Kumanovo＿Plan－za－vozduh＿2022．pdf
22．North Macedonia＿Skopje AQ Plan＿2017．pdf
23．Serbia Plan kvaliteta vazduha Kraljevo＿maj＿2023．pdf


## Structure of the report



## One measure won't do- package of measures gives best effect

- How to avoid unwanted effects
- Importance of systems perspective
- Synergistic effects of multiple measures
- Not all measure will suit all municipalitiescontext matters


## The dialogue staircase

- Information- one-way
- Consultation- exchange of experience and knowledge
- Dialogue- participation on equal terms
- Cooperation- both parties contribute
- Participation- all parties involved, equal premises


## How to select measures...

- A four-step approach for measure selection



## ...How to select measures

- Vulnerable groups:
- Children, women, elderly
- Financial constraints- most bang for the buck
- Time frame


## Sectors of interest

- Residential heating
- Transport and urban planning
- Electricity and heat supply
- Industry

Catalogue of Measures

## Structure of the catalogue

- Brief description
- Pollutants
- Administrative level
- Owner
- Socio-economic effects
- Impact on children and gender
- Where information is available:
- Costs
- Time scale etc.



## Residential heating- Rethink Prevent heat leakage

- Subsidy and/or information campaign
- Relatively quick measure
- Reduces the energy demand
- Positive economic effects on households
- (Connects to the youth manifesto we heard about before lunch)
4.1.7 Encourage replacing seals to prevent heat leakage|
ned with information campaiens directed ohouseholds aimed to encourage replacing seals to revent heat leakage from buildings. The measure is improved comfort, readuced emissions of PMM and NOX and erhanced durability of building systems.
wiilding extent of seends on factor such as size of
The primary cost is the material including sealing mede. such as weatherstripping caulking, sealants, and insulation Installation of sealing strips around windows dditional laborar costs simple and does not require additional labor costs. Time scale for implementing subsidies, information and
as a result achieving replaced seals of houses is
$\qquad$



Owner: nancing of subsidies and/or campaign Munidipality
he primary effect is energy cost savings due to lower ails bills tor homeowners and tenants. Reduced energy.
mproved insulation of houses prevent heat leakage and thus reduced energy consumption. If the heat is generated Irough domestic bumning of fuels, improvement in this will benefit children who typically spend a lot of time in The home. If coal is the primary energy source, improved issulation contributest to decrease the dependence of coal people. mproved issulation of housesp prevent hear leakage and hrough domestic bunning of fuels, improvement in this will benefit women who typically spend a lot of time in the
line home.

## Transport and urban planning- Rethink Car parking policy

- Creates incentives to use other modes of transport
- Have significant effects on number of car trips
- Can be implemented relatively quickly
- Municipality has ownership



## Electricity and heat supply- New construction Solar panels

- Solar panels on municipal buildings- leading by example
- Embody a principle of sustainable energy
- Municipalities have control over their own buildings- good place to start
- Apply for funding is a possibility for financial support



## Industry- Rebuild Paving roads used by heavy vehicles

- A way to reduce emissions
- Less generation of dust particles
- Lower fuel consumption
- Important for roads used by coal industry



## Industry- Rethink Polluters pays fees

- Polluters pays fees and environmental inspections
- Polluters- financially accountable
- Encourage adoption of cleaner technologies
- Creates incentives to reduce emissions!
- Equity and fairness



## Miscellaneous- Optimize Remediate illegal waste dumps

- Strengthen legislation and enforcement
- Provide proper waste management infrastructure
- Inspections
- Requires collaboration
- (Our youth representatives from BiH mentioned waste management as an important area)



## What's next?

Last updates will be made before final publication
Possibility to update and further develop this catalogue

Thank you!
Don't hesitate to reach out

