

Working Group on Environmental Monitoring and Assessment

Twenty-fourth session

Geneva, 11 and 12 April 2022

PROGRESS IN ENVIRONMENTAL MONITORING AND ASSESSMENT – North Macedonia



Katerina Nikolovska

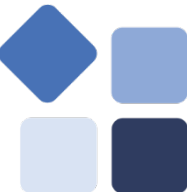
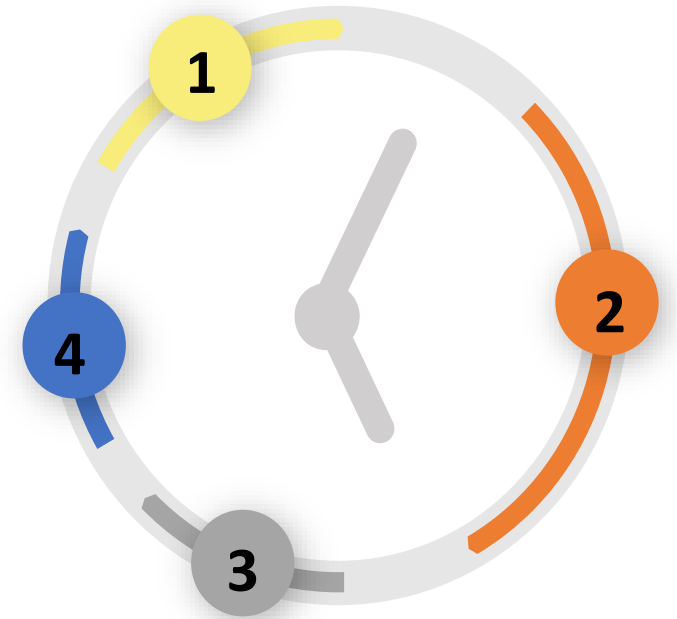
Deputy Head of Macedonian Environmental Information Center

Ministry of Environment and Physical Planning

Republic of North Macedonia

AGENDA:

- 1 Environmental reporting
- 2 The modernization and upgrading of Air quality monitoring
- 3 Improvements in NEIS and NEMN
- 4 The Challenges

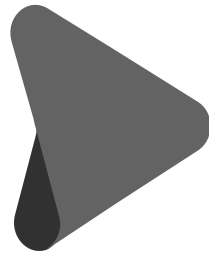


1

Environmental reporting



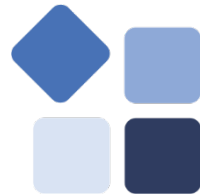
Annual Report – Quality of the Environment 2020



Environmental Indicators 2021



Environmental Statistics 2021



1

Environmental reporting - improvement

Ongoing Project

"Strengthening the participation of the Western Balkans in the work of the European Environment Agency 2020- 2021, Pilot activity North Macedonia"

THE MAIN ACHIEVEMENT

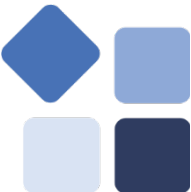
- Is the development of a national Foresight chapter for water as part of our State of Environment Report

THE MAIN GOAL

- To examine several GMT's and their potential implications on the national Water thematic aspects
- By applying foresight methodologies

THE MAIN BENEFITS

- Capacity building activities together with the European Environment Agency



2

The modernization and upgrading of Air quality monitoring



1998 - 2020

2021

TOTAL

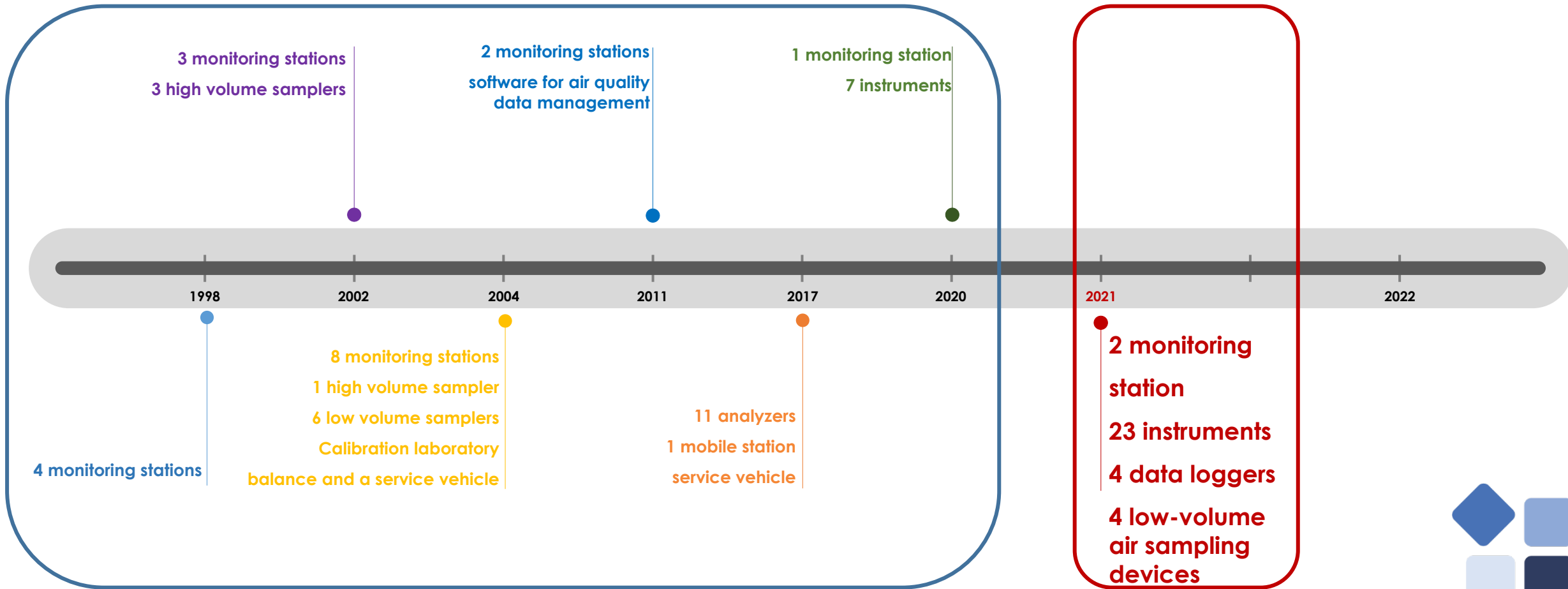
18 fixed stations
1 mobile station

+

2 fixed stations

=

20 fixed stations
1 mobile station



2

The modernization and upgrading of Air quality monitoring

Air Quality Portal

Квалитет на воздух во Република Северна Македонија
Министерство за животна средина и просторно планирање

Квалитет на воздух Информации Надминувања Извештаи Новости Контакт

Препораки во случај на надминување на прагот на информирање за суспендирани честички со големина до 10 микрометри PM10 (2 последователни дена со среднодневни концентрации над 100 µg/m³)

Северна Македонија Загадувачка супстанца со највисока концентрација

Информациите се базираат на невалидирани часовни податоци на загадувачка супстанција со највисока концентрација.

New stations



Berovo



Prilep

New instruments



3

Improvements in NEIS and NEMN - DIGITALIZATION

Ongoing Project - Development of Environmental Monitoring and Information System

Component I: Development of National Environmental Information System (NEIS)

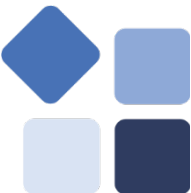
Developed fully functional NEIS

Component II: Development of National Environmental Monitoring Network (NEMN)

National Environmental Monitoring Strategy with Action Plan prepared
National Environmental Monitoring Programme prepared

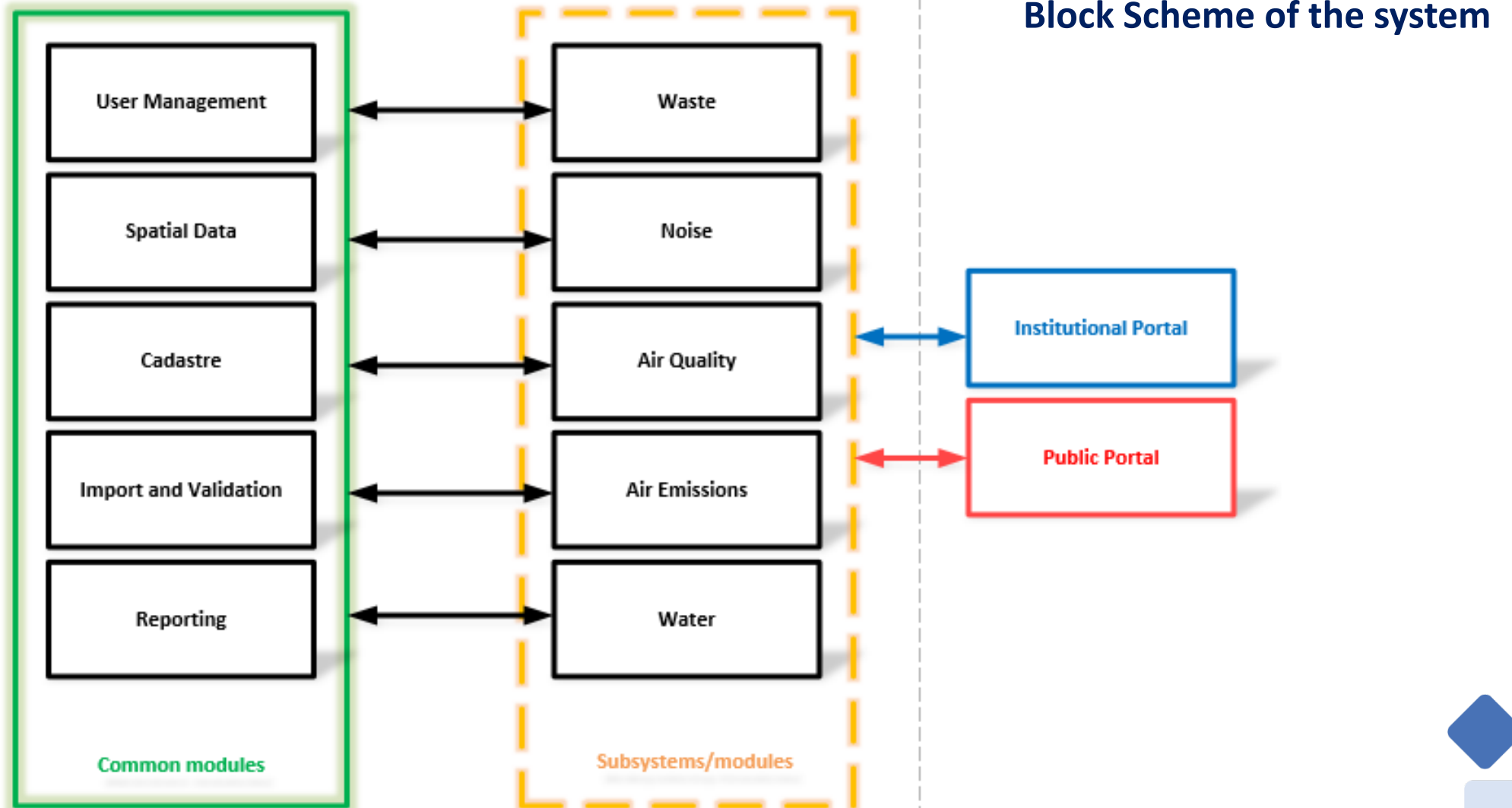
Component III: Strengthening administrative & technical capacities

Functional analysis of the tasks and obligations of relevant institutions
Institutional Plan for Strengthening the Capacity for Implementation of NEIS and NEMN



3

Fully functional NEIS





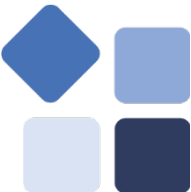
SUPPLY OF IT EQUIPMENT for Information System

- Hardware
- Software



SUPPLY OF AIR QUALITY EQUIPMENT for Environmental Monitoring Network

- Automatic analyzers
 - PM10, PM2.5, SO₂, NO - NO₂ – NOX, CO, O₃
- Low Volume Samplers
- Low High Samplers
- Data acquisition system
- Meteorological equipment/sensors



4

The Challenges



Monitoring

- Fully developed monitoring network for all environmental media
- Secure sustainable national funding and budget allocations

Data Quality – accuracy

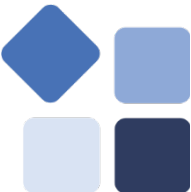
- Standardized methodologies for calculations & data validation

Human resources

- Secure human capacities and capacity building in relevant institutions

Funding – reporting & communication

- Sustainable national financial allocations for external experts/consulting in SOER development (ex. Energy, Scenarios etc.)





Thank you!

