

44MPA - Urban Adaptation Plans for 44 largest cities in Poland

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Climate changes in Poland



2015 - SEVERE DROUGHT IN POLAND





May 2015



August 2015





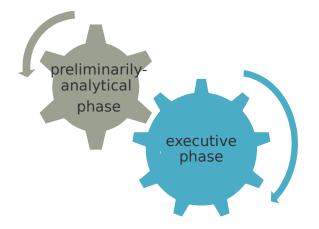


May 2018 – Łódź...



National Adaptation Strategy 2020 (NAS) background

- Vulnerable sectors
- Climate change scenarios
- Goals and actions





Costruction



Water management Forestry



Agriculture



Health



Biodiversity



Coastal zone



Turism



Energy



Mountain





Transport



indicators for monitoring and evaluation



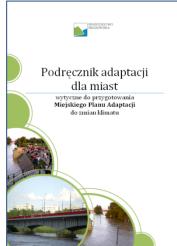






Guidelines and methodology for MPA Project

- Introduction
- Diagnosis justification of the need to develop an adaptation plan for the city, summary and conclusions of the analysis (figures, maps),
 - vulnerability assesment conclusions from comprehensive vulnerability assessment
 - risk assesment conclusions from the analysis of the potential opportunities and risks
- Adaptation actions on the basis of adaptation options,
- Implementation of MPA timetable for implementation of adaptation measures, bodies responsible for implementation,
- Monitoring
- Financing
- Attachments (consultation raports, maps, projects lists)













DEVELOPMENT OF URBAN ADAPTATION PLANS FOR CITIES WITH MORE THAN 100,000 INHABITANTS IN POLAND







Development of Urban Adaptation Plans for cities

with more than 100,000 inhabitants in

Polandate: January 2017

Completion date: June 2019

Project Beneficiary: Polish Ministry of the Environment

Project partners: 44 largest cities

 The project is financed by the European Union from the Cohesion Fund under the Operational Program Infrastructure and Environment and from the state budget









Consortium of contractors











- Institute for Environmental Protection National Research Institute
- Institute for Ecology of Industrial Areas
- Institute of Meteorology and Water Management National Research Institute
- ARCADIS Poland







44 MPA project: Adaptation plans for cities with more than 100 000 inhabitants

objectives:

- to determine vulnerability to climate change of the largest cities in Pl (risk identification, risk assesment)
- 44 cities => 30% population
- to develope adaptation actions at local level (intr. adaptation options)
- to raise awareness of climate change and adaptation

Integrated project means:

- common methodology
- NAS objectives to be achieved



44 MPA project:

Adaptation plans for cities with more than 100 000

inhabitants Cooperation MoE -

cities

Engagement of the cities:

- establishing of the interdisciplinary team, including the leader in each city,
- cooperation with the contractor (selected by MoE),
- public

Comprehensive

Tailor solutions













Project schedule



team creation. assumption development, stakeholder identification

ASSESSMENT

data collection, determination of region adaptability

definition of prospective opportunities and hazards, attaching significance to hazards

DEVELOPMENT

indication of detailed objectives and priority areas for MPA

AND SELECTION

analysis of adaptation options, evaluation methods and adaptation option evaluation

PREPARATION

development of the final MPA version, strategic environmental impact assessment (SOOS)

Vulnerability assessment

- ✓ Analysis of <u>existing</u> strategic and planning documents
- Determination of the city's exposure to climate impacts
- ✓ Assessment of the climate impacts on the city
- ✓ Recognition of sensitive elements of the city
- ✓ Identifying the adaptive potential of the city

=

Vulnerability assessment









Vulnerabilities and impacts - sectors and areas

Water and wastewater management extreme temperatures, rainfall, drought, floods, sea level rise	44 cities
Public Health extreme temperatures, icing, floods, storms, wind	42 cities
Transport extreme temperatures, precipitation, icing, extreme snowfall, floods	36 cities
Energy thermics, drought	14 cities
Spatial planning floods, heat waves, airing the city	15 cities
Areas with high building intensity extreme temperatures, icing, floods, storms, wind	13 cities
Biodiversity extreme temperatures, drought, sea level rise, wind	9 cities
Tourism floods, extreme temperatures, icing, wind and storms	3 cities
Cultural heritage landslides, floods, extreme temperatures, icing, wind and storms	2 cities





- •Option I
- •* Measure 2
- •* Measure 8
- •* Measure 14
- •* Measure 26
- Option II
- •* Measure 1
- •* Measure 18
- •* Measure 24
- •* Measure 31
- Option III
- •* Measure 4
- •* Measure 9

MCA



- * Measure 1
- * Measure 18
- * Measure 24
- * Measure 31

CBA

Option II

- * Measure 1
- * Measure 18
- * Measure 31







Criteria

Adaptation criteria

- Effectiveness
- Reliability
- Flexibility
- Synergies

Social and environmental

- Side effects
- Acceptability
- Sustainable character

Time

- Time / period of implementati on
- The deadline for achieving results

Economic

- Koszty
- Korzyści









Economic benefits (...):

- Reducing the costs of damage or loss;
- ✓ Effective spending of funds;
- ✓ Investment profitability;
- ▼ The possibility of co-financing adaptation activities.

(...) And Lot's more:

- ✓ Blue-green infrastructure development;
- ✓ Improving infrastructure management;
- ✓ Improving water management;
- ✓ Improving cooperation between cities;
- ✓ Building resilience of solety and economy

✓ Climate change awareness raising = Smart decision making process

EU CCA Strategy: "1 euro

invested in CCA is equal to 4

Lessons Lerned

- Awareness raising on local level
- ✓ New dedicated units in partner cities
- ✓ Policy cycle: local government authorities (every 4 years)
- ✓ Importance of social aspects of adaptation on local level.
 - ✓ In 42 out of 44 cities participating in the project, the public health sector was selected as the most sensitive to climate change, the main element being sensitive groups.
- ✓ Promotion of Urban Adaptation Guidelines









44 MPA PROJECT = FIRST STEP

NOT A SINGLE INITIATIVE



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Thank you for your attention Piotr Czarnocki

Ministry of the

Environment

Poland





