NAIAD

DEMONSTRATE THE ROLE THAT NATURE BASED SOLUTIONS CAN PLAY AS AN INSURANCE SYSTEM AGAINST THE IMPACTS FROM CLIMATE CHANGE.

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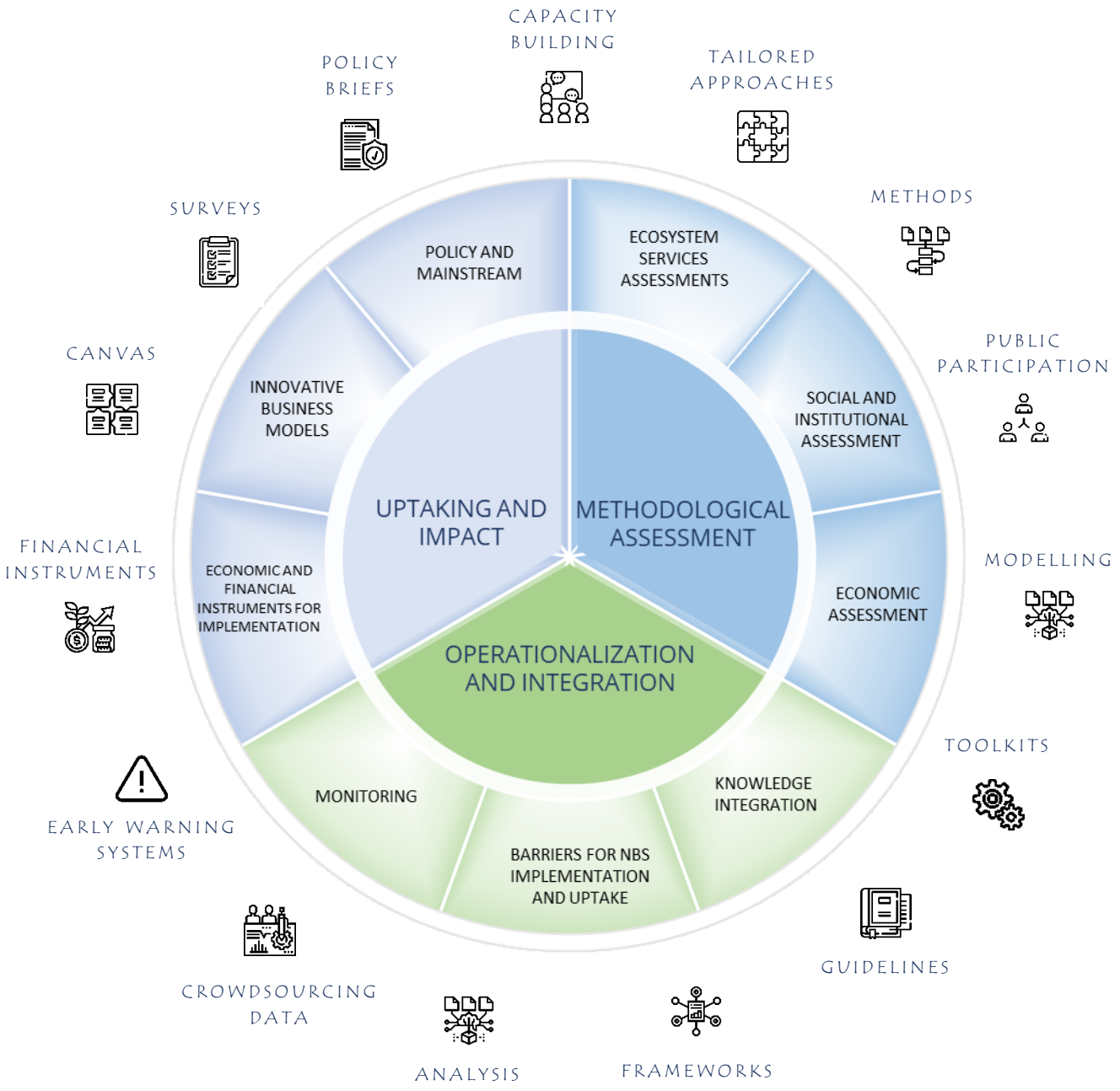
NAIAD FRAMEWORK

NAIAD aims to operationalise the insurance value of ecosystems to reduce the human and economic cost of risks associated with water (floods and drought) by developing and testing - with key stakeholders– the concepts, tools, applications and instruments (business models) necessary for its mainstreaming. The assumption is that Natural Assurance Schemes can reduce risk, especially to drought and flooding, and this risk reduction can be assessed and incorporated within insurance schemes.



NAIAD E-guide

Navigate through NAIAD results

NAIAD Demonstration Sites

NAIAD adapted and implemented the methods developed in the project to the 9 DEMO cases to assess the insurance value of ecosystems and NBS in real world situations. Based on this assessment, NAIAD explored and showcased how the insurance value can be identified and integrated in the management of risks, either by end users directly or by insurance companies or equivalent institutions, who may invest in ecosystems to reduce potential damages.

NATURE-BASED SOLUTIONS

≠HAZARDS

≠GEOGRAPHICAL SETTINGS

≠SCALES

Micro 0.5ha
Meso
Large >250Km

UNITED KINGDOM

THAMES BASIN

NBS

Retention ponds landscaped, change in soil tillage

HAZARDS

Storm surges, urban drainage flooding, fluvial flooding

DENMARK

CITY OF COPENHAGEN

NBS

Green/Blue Infrastructures, LAR (SUDS)

HAZARDS

Pluvial floods, sea level rise, rising water tables

POLAND

CITY OF LODZ

NBS

Bio filters, Buffer zones, Retention basins

HAZARDS

Water shortages, heat weaves, pluvial flooding, water quality

FRANCE

LEZ BASIN

NBS

Active management of the aquifer, City de-proofing, bio swales, sludge, ditches, retention basins, Green roofs

HAZARDS

Floods, Severe droughts

SLOVENIA

GLINSCICA CATCHMENT

NBS

Large retention areas, re-meandering, re-vegetation

HAZARDS

Flooding, biodiversity loss, poor water quality, GW depletion

ROMANIA

LOWER DANUBE

NBS

Retention areas, forest windbreak, buffer zones, Smart sediment management, river reconnection

HAZARDS

Floods, desertification, riverbed erosion and silting, poor water quality

SPAIN

MEDINA AQUIFER

NBS

Wetlands restoration, MAR

HAZARDS

GW pollution, aquatic ecosystems degradation, floods, droughts

THE NETHERLANDS

CITY OF ROTTERDAM

NBS

Bio filtration, buffer retention, aquifer storage

HAZARDS

Cloudbursts, floods, droughts

FRANCE

LA BRAGUE BASIN

NBS

Riparian Forest, opening natural floodplains

HAZARDS

Floods (torrential floods)

NAIAD DEMOs

Meet our Demonstration Sites

NAIAD LEGACY

Several frameworks, models, methods, approaches, guidelines, handbooks, training courses, etc. were developed or adapted to achieve NAIAD objectives at the 9 Demonstration sites. Also, the knowledge gathered was integrated through different means to make it accessible to NAIAD stakeholders and EU citizens in general.

This is NAIAD LEGACY

METHODOLOGICAL ASSESSMENT

Ecosystem Services Assessment

Tools And Approaches

Social and Institutional Assessment

Problem definition, risk perception and risk management behaviour

Institutional analysis

Economic Assessment

General Methodological Framework

Co-benefits Valuation And Cost Effectiveness

Insurance Value Of Ecosystems

Economic Damage Costs

Life Cycle Costs Methodology

OPERATIONALIZATION AND INTEGRATION

Knowledge Integration

Integrate Scientific Knowledge into Society

Integrate Societal Knowledge into Science

Integrate different disciplines within each other and into each other

Monitoring

Designing and using indicators to assess the efficacy (effectiveness) of NBS

Community-based system for NBS monitoring and assessment

FreeStations

Barriers for NBS Implementation

Policy briefs

Stakeholders' perception, co-benefits definition and trade-offs assessment

Participatory modelling for networking interventions in NBS design and implementation

Integrative system dynamics model to assess the long-term effectiveness of NBS strategies under different climate change scenarios

Integrative fuzzy cognitive map model for trade-off identification

An operationalize classification of nature based solution

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NAIAD LEGACY

UPTAKING AND IMPACT

Economic and Financial Instruments

Natural Capital Market Integration Portrait: From Climate Finance To Insurance

Handbook For The Implementation Of Nature-based Solutions For Water Security: Guidelines For Designing An Implementation And Financing

Innovative Business Models

Natural Assurance Schemes (NAS) Canvas And Successful Business Model Examples

International Good practices in financing and funding nature restoration

Policy and Mainstream

Policy briefs

Policy mainstreaming of NBS for climate change adaptation and DDR

Insurance Value of Ecosystems (IVE) SURVEY

Natural Hazard Schemes

NAIAD CAPACITY BUILDING

MOOC

Training course on the contribution of NBS in risk reduction to water related hazards

Stakeholders Engagement

The 9 NAIAD DEMOs developed 3 series of Workshops with Local Staked Holders

Street level guidelines on the insurance value of ecosystems for target audiences

Guideline material on the concept of insurance value of NBS and the way this can be integrated in environmental planning and infrastructure investment

NAIAD National Roundtables

Allies For Climate: 7 National Roundtables Celebrated In Spain, Denmark, Sweden, France, Rumania And Slovakia.

NAIAD White Paper

COMMUNICATION OF THE PROJECT

Website: www.naiad2020.eu
Twitter: @NAIAD2020
Facebook:
NAIAD - NAture Insurance value: Assessment and Demonstration
LinkedIn: Project NAIAD

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NAIAD CONSORTIUM

23 Partners:

Public Authorities, Research Institutes, SMEs, Insurances Company, NGOs

11 Participating Countries:

France, Spain, The Netherlands, Italy, Rumania, Germany, Belgium, United Kingdom, Sweden, Denmark, Poland