



NAK NATIONAL ADAPTATION CENTER
Geological and Geophysical Institute of Hungary

Introduction of the NAGiS Project – Building Partnerships for the Implementation

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National Adaptation Center

Kick Off Meeting
of the
EEA Grants - Adaptation to Climate Change Programme
and
'Establishing a National Adaptation Geo-information System'
Project

14 October 2013



Geological and Geophysical Institute of Hungary



REGIONAL ENVIRONMENTAL CENTER



Project objectives

- **Decision-making support** on climate change adaptation through setting-up and operation of a multifunctional geo-information system
- Development of **methodology for data collection, processing practices, analytical process** and **impact assessment** of climate change and corresponding adaptation methods
- **Web-based “one-stop-shop” information hub** for all stakeholders concerned to obtain reliable objective information, derived and processed data on climate change and other relevant policy areas

Project Promoter:

Geological and Geophysical Institute of Hungary

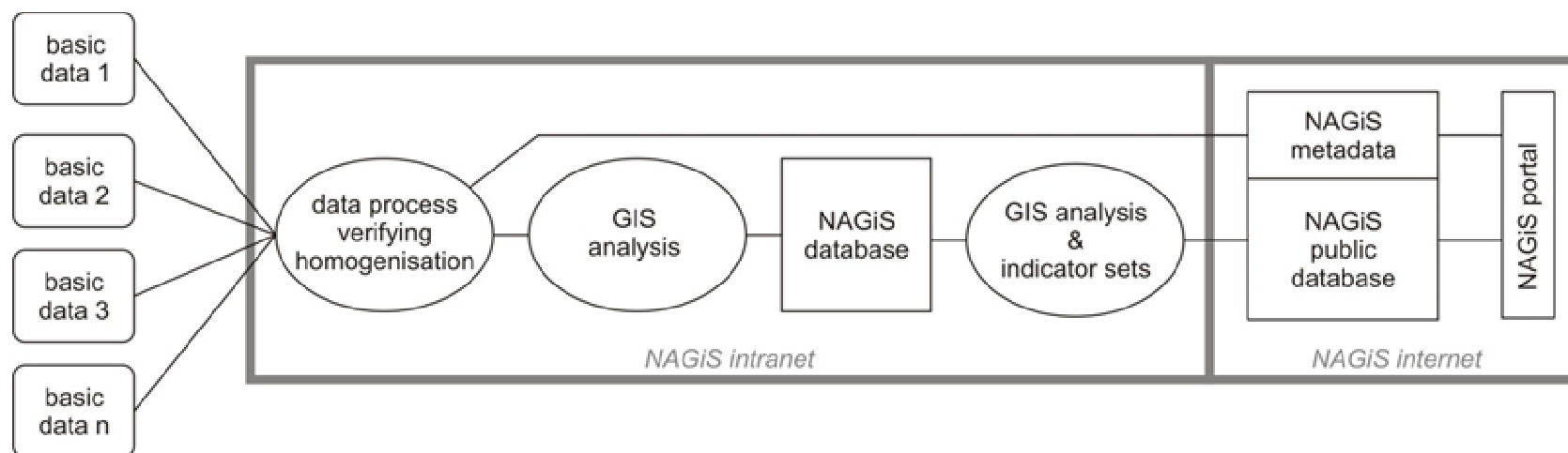
- **Public research institute**
- **Established on 1 April 2012** through the merger of two internationally well-known institutions, namely the former Hungarian Geological Institute (est. in 1869) and the former Eötvös Loránd Geophysical Institute (est. in 1907)
- The Institute has been designated by the **Government of Hungary** in 2012 as a public body **responsible for the assessment of possible impacts of climate change** on Hungary, thus **contributing to the** design of an appropriate **climate adaptation strategy**.
- The **National Adaptation Center** will be responsible for the implementation of the NAGiS Project within GGIH.





Work packages

- **WP1** – Establishment of the **legal and IT** operational background for the project
- **WP2** – Establishment and configuration of **hardware environment** for NAGiS
- **WP3** – **Software development** and fine-tuning of NAGiS methodological settings
- **WP4** – **Methodological developments** (indicators), R+D, background studies for national strategies
- **WP5** – **Dissemination** of information and results of the NAGiS projects
- **WP6** – **Project management**



WP1 tasks

Description of NAGiS operational model and manual

WP	Deliverable	Deliverable name	Type	Number	Format	Language	Target groups	Month of completion
WP1	D1.1	NAGiS system set up – database system plan (part of handbook)	handbook	1	printed /electronic	hungarian, english	system administrators, research community, NAGiS users	2014 I. period
WP1	D1.2	NAGiS manual (part of handbook)	handbook	1	printed /electronic	hungarian, english	system administrators, research community, NAGiS users	2016 I. period

WP2 tasks

Establishment and configuration of hardware environment for NAGiS

- **WP2.1 Hardware investment, installation and configuration**
- **WP2.2 Hardware system test and operation**

WP	Deliverable	Deliverable name	Type	Number	Format	Language	Target groups	Month of completion
WP2	D2.1	Hardware investment	project report	1	electronic	english	MFGI, research community	2014 II. period
WP2	D2.2	Hardware system test and operation	project report	1	electronic	english	research community	2016 I. period

WP3 tasks

Software development and fine-tuning of NAGiS methodological settings

WP	Deliverable	Deliverable name	Type	Number	Format	Language	Target groups	Month of completion
WP3	D3.1	Software environment	project report	1	electronic	english	research community	2014 I. period
WP3	D3.2	Application development	project report	1	electronic	english	research community, NAGiS users	2014 III. period
WP3	D3.3	NAGiS interface	web application project report	1	electronic	hungarian, english	NAGiS users	2016 I. period
WP3	D3.4	Test report of NAGiS	project report	1	electronic	english	research community	2016 I. period

WP4 tasks

Methodological developments (indicators), R+D, background studies for national strategies

WP	Deliverable	Deliverable name	Type	Number	Format	Language	Target groups	Month of completion
WP4	D4.1	NAGiS meta-database	web content, project report	1	electronic	english, hungarian	research community, NAGiS users	2015 II. period
WP4	D4.2	Data acquisition, quality check, homogenisation	project report	1	electronic	english, hungarian	research community, NAGiS users	2015 I. period
WP4	D4.3	Developing of groundwater monitoring system	project report	1	electronic	english, hungarian	research community,	2014 II. period

WP4 tasks

WP	Deliverable	Deliverable name	Type	Number	Format	Language	Target groups	Month of completion
WP4	D4.4	flashflood risk analysis (indicator set)	project report	1	electronic	english	research community	2015 II. period
WP4	D4.5	river regime analysis (indicator set)	project report	1	electronic	english	research community	2015 II. period
WP4	D4.6	groundwater level mapping (indicator set)	project report	1	electronic	english	research community	2015 II. period
WP4	D4.7	landcover change mapping (indicator set)	project report	1	electronic	english	research community	2015 II. period
WP4	D4.8	shallow drill dataset and soil map integration	project report	1	electronic	english	research community	2015 II. period
WP4	D4.9	natural habitat dataset integration	project report	1	electronic	english	research community	2015 II. period

WP4 tasks

Methodological developments (indicators), R+D, background studies for national strategies

WP 4.3 Preparation of research and decision support studies on each focus area

WP	Deliverable	Deliverable name	Type	Number	Format	Language	Target groups	Month of completion
WP4	D4.10	Climate impact on flashflood risk	research study	1	electronic	english, hungarian	research community, NAGiS users	2015 III. period
WP4	D4.11	Climate impact on river regime	research study	1	electronic	english, hungarian	research community, NAGiS users	2015 III. period
WP4	D4.12	Climate impact on groundwater level	research study	1	electronic	english, hungarian	research community, NAGiS users	2015 III. period
WP4	D4.13	Climate impact on DWPA's	research study	1	electronic	english, hungarian	research community, NAGiS users	2015 III. period
WP4	D4.14	Climate impact on biomass production	research study	1	electronic	english, hungarian	research community, NAGiS users	2015 III. period
WP4	D4.15	Climate impact on land use and forestry	research study	1	electronic	english, hungarian	research community, NAGiS users	2015 III. period
WP4	D4.16	Climate impact on natural habitats	research study	1	electronic	english, hungarian	research community, NAGiS users	2015 III. period

WP4 tasks

Methodological developments (indicators), R+D, background studies for national strategies

WP 4.3 Preparation of research and decision support studies on each focus area

WP	Deliverable	Deliverable name	Type	Number	Format	Language	Target groups	Month of completion
WP4	D4.17	Climate impact on water management	decision support study	1	electronic	hungarian	stakeholders	2016 I. period
WP4	D4.18	Climate impact on forestry	decision support study	1	electronic	hungarian	stakeholders	2016 I. period
WP4	D4.19	Climate impact on land use	decision support study	1	electronic	hungarian	stakeholders	2016 I. period
WP4	D4.20	Climate impact on natural habitats	decision support study	1	electronic	hungarian	stakeholders	2016 I. period
WP4	D4.21	Impact summary report	decision support study	1	eletronic	hungarian	stakeholders	2016 I. period

WP4 tasks

Methodological developments (indicators), R+D, background studies for national strategies

WP4.4 Upload of database to the public NAGiS interface

WP	Deliverable	Deliverable name	Type	Number	Format	Language	Target groups	Responsible	Month of completion
WP4	D4.22	NAGiS database	web content	1	electronic	english, hungarian	research community, NAGiS users	MFGE	2016 I. period

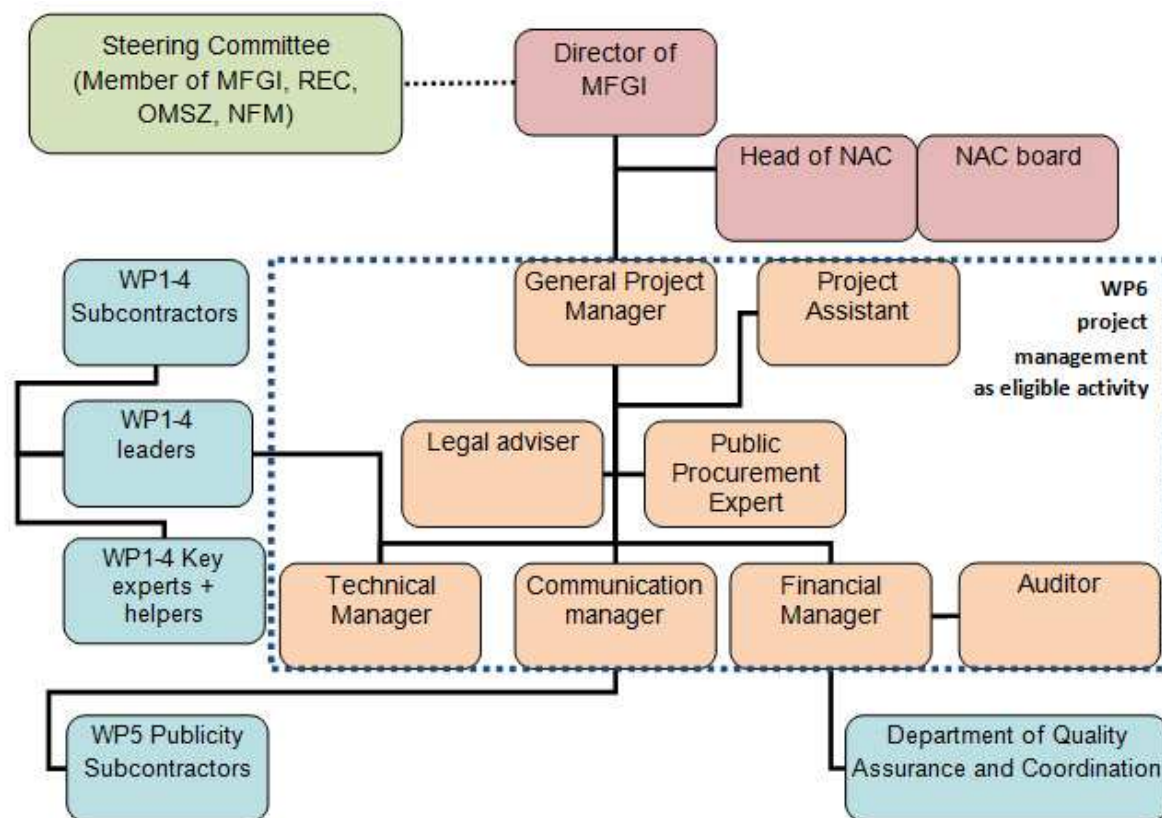
WP5 tasks

Dissemination of information and results of the NAGiS projects

WP	Deliverable	Deliverable name	Type	Number	Format	Language	Target groups	Responsible	Month of completion
WP5	D5.1	publications	paper	12	electronic, printed	english, hungarian	research community, NAGiS users	MFGI	2016 I. period
WP5	D5.2	workshop material	workshop	4	electronic, printed	hungarian	research community, NAGiS users	MFGI	2016 I. period

WP6

Project management



Project activities implemented by the Project Promoter

- Establishment of the **legal and IT operational background** for the project
- Establishment and configuration of **hardware environment** for NAGiS
- Software development and fine-tuning of the NAGiS **methodological settings**
- Development of **software applications (metadata and database)**
- Development of **NAGiS public interface**
- **Acquisition, quality check, homogenisation** of input data and preparation of a **meta database**
- Evaluation of **groundwater level** change due to climatic impact
- Climate change related sensitivity analysis of **drinking water bodies**
- Analysis of climate change impact on **biomass production**



Building partnerships

Scientific project activities (partly) implemented by subcontractors

- Creating meta datasets for **meteorological** and **climatological** datasets, preparing climatological research studies and indicator sets
- Evaluation of **river regime** change due to climatic impact
- Climate change related sensitivity analysis of **natural habitats**
- Analysis of climate change impact on **land use**
- Building up and further development of a specific database of **socio-economic** and **territorial indicators**



Building partnerships

Subcontractors and data providers

- **Subcontracted project** activities for which the Project Promoter will conclude a specific **cooperation agreement** will be signed,
- laying down the **concrete set of activities** required for the smooth implementation of the project.
- The **concrete names** of experts provided by subcontractors can be concretised **after a tendering procedure** for each separate task identified.
- However, the **data provider** institutions and **planned subcontractors** **have already gone through a pre-selection phase** and their active involvement of the project requires full support from their part,
- with **special regard to delegate experts** with high expertise for the project activities that will fall under their responsibility.



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Thank you for your kind attention!