IASON

D4.1 Funding Organizations and Institutes Database

IASON: Fostering sustainability and uptake of research results through Networking activities in Black Sea & Mediterranean areas

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Authors	Petros Patias, Charalampos Georgiadis (AUTH)
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[1] **R** = Report, **P** = Prototype, **D** = Demonstrator, **O** = Other

[2] **PU** = Public, **PP** = Restricted to other programme participants (including the Commission Services), **RE** = Restricted to a group specified by the consortium (including the Commission Services), **CO** = Confidential, only for members of the consortium (including the Commission Services).

IASON CONSORTIUM

Aristotle University of Thessaloniki (AUTH) Greece

National Research Council of Italy (CNR-IIA) Italy

Univerzitet u Novom Sadu (UNS) Serbia

University of Geneva (UNIGE) Switzerland

HCP International (HCP) The Netherlands

GeoImaging (GEO) Cyprus

Instituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA) Italy

International Centre on Environmental Monitoring (CIMA) Italy Albanian Branch

Centre Regional Africain des Sciences et Technologie de l' Espace en Langue Francaise, affilié à l'ONU (CRASTE-LF) Morocco

University of Split (UNIST) Croatia

Ekinoks Surveying Software Engineering Ltd (EKINOKS) Turkey

Geographic GIS&RS Consulting Center (GEOGRAPHIC) Georgia

Technical University of Cluj-Napoca (UTC) Romania

Coastal Protection Agency (APAL) Tunisia

ABBREVIATIONS

Term	Explanation
APR	Annual Progress Report
BCR	Bi-monthly Control Report
BS	Black Sea region
CA	Consortium Agreement
CB	Capacity Building
CIP	Cooperative Information Portal
CSW	Catalogue Service for the Web
DB	Database
EC	European Commission
EC-GA	European Commission Grant Agreement
EC-PO	European Commission Project Officer
EO	Earth Observation
FP7	European Union Seventh Framework Programme
FPR	Final Project Report
GEO	Group on Earth Observation
GEOSS	Global Earth Observation System of Systems
GUI	Graphical User Interface
MED	Mediterranean region
PCC	Project Coordination Committee
PM	Project Manager
PNF	Permanent Networking Facility
PPR	Periodic Project Report
PR	Partner Representative
SoS	System of Systems
TL	Task Leader
WP	Work Package
WPL	Work Package Leader

Contents

EXECUTIVE SUMMARY

This document describes the structure of the IASON Funding Organizations and Institutes Database. The scope of D4.1 is to collect information and contact details about funding organizations and institutes focusing on Earth Observation in the Mediterranean and Black Sea Region. The objective of D4.1 is to categorize and record all relevant information of funding organizations and institutes into a common reference database platform. The IASON funding organizations database is build on the structure of the PNF database and IASON Capacity Building Database.

1. INTRODUCTION

The present document is a report that describes the content of the deliverable D4.1 "Funding Organizations and Institutes Database" of the IASON Project. It provides a description of the IASON Funding Organization and Institutes database, its structure, information collection, and database population.

The structure of IASON Funding Organizations and Institutes DB is the one developed in the framework of the BalkanGEONet project and implemented into the Permanent Network Facility (PNF http://balkangeonet.unist.hr). In addition the structure of the DB is also combatable with the one developed for deliverable D2.5 IASON stakeholders and Initiatives database. Even though the structure of IASON and PNF database is similar and completely interoperable, the information contained into the two databases (PNF and IASON) are slightly different for two reasons:

1. IASON covers the entire Mediterranean and Black Sea region while the PNF is focused on the Balkans

2. IASON covers three specific pillars, namely (climate change action, resource efficiency and raw material, societal challenge 5 of the next programme Horizon 2020) while PNF is focused on all activities covering Earth Observations

The first section of the report is dedicated to definitions, the second describes the structure of the IASON Funding and Institutes DB and the last section is dedicated to the methodology used to collect the information.

2. DEFINITIONS

2.1 Funding Organizations & Institutes and Funding Programmes

For the purposes of the present document two concepts have been preliminarily defined:

Funding Organizations & Institutes	Every Organization and Institute that provides funding for Research and Cooperation as part of a strategic plan that has been initiated by a National ,Regional, or European administrative structure.

Funding Programmes	Funding programme is the mean that a funding organization is using to provide funding for research or cooperation.

2.2   Mediterranean and Black Sea regions

As it was already mentioned in [IASON D2.5] deliverable an open discussion about the definition of BS and MED countries for the purposes of the IASON project was held during the IASON Project Meeting held in Novi Sad on September 2013, and it was decided to consider: a) as Mediterranean Countries all the Countries of the United Nations Environment Programme – Mediterranean Action Plan (UNEP/MAP) world and, b) as Black Sea Countries, all those that are part of the BS Region including those in the Danube Basin for their strong environmental and economic impact across the region. The table below lists the MED and BS countries.

UNEP MAP (Med) Contracting Parties	Black Sea Countries (BS) (including Danube Basin)	Black Sea Region (as per COM(2008) 391 final[3])
1. Albania	1. Albania	1. Armenia
2. Algeria	2. Armenia	2. Azerbaijan
3. Bosnia & Herzegovina	3. Austria	3. Bulgaria
4. Croatia	4. Azerbaijan	4. Georgia
5. Cyprus	5. Belarus	5. Greece
6. European Union	6. Bosnia & Herzegovina	6. Moldova
7. Egypt	7. Bulgaria	7. Romania
8. France	8. Croatia	8. Russian Federation
9. Greece	9. Czech Republic	9. Turkey
10. Israel	11. Georgia	10. Ukraine
11. Italy	12. Germany	
12. Lebanon	13. Greece	
13. Libya	14. Hungary	
14. Malta	15. FYROM	
15. Monaco	16. Moldova	
16. Montenegro	17. Montenegro	
17. Morocco	18. Romania	

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[3] See references [Black Sea Strategy]

18. Slovenia	19. Russian Federation	
19. Spain	20. Serbia	
20. Syria	21. Slovakia	
21. Tunisia	22. Slovenia	
22. Turkey	23. Turkey	
Palestinian Authority (as observer)	24. Ukraine	

As specified in the Report on the First Year of Implementation of the Black Sea Synergy [Black Sea Synergy], though Armenia, Azerbaijan, Moldova and Greece are not littoral states of the BS, but history, proximity and close ties make them natural regional actors.

From the merging of these three groups, the final list of the Med and BS Countries for IASON is composed by 38 countries, as follow (countries belonging only of the Danube Basin are in red):

MED & BS Countries	
1. Albania	20. Lebanon
2. Algeria	21. Libya
3. Armenia	22. Former Yugoslav Republic of Macedonia (FYROM)
4. Austria	23. Malta
5. Azerbaijan	24. Moldova
6. Belarus	25. Monaco
7. Bosnia & Herzegovina	26. Montenegro
8. Bulgaria	27. Morocco
9. Croatia	28. Palestinian Authority
10. Cyprus	29. Romania
11. Czech Republic	30. Russian Federation
12. Egypt	31. Serbia
13. France	32. Slovakia
14. Georgia	33. Slovenia
15. Germany	34. Spain
16. Greece	35. Syria
17. Hungary	36. Tunisia

18. Israel	37. Turkey
19. Italy	38. Ukraine

Additionally for the Funding Organizations and Institutes database the Country field was enriched with the remaining EU countries, since they can also provide funding for the Mediterranean and Black Sea region. The final list of countries included in the Funding organizations and institutes database is presented in the following table.

country_ID	Country	country_ID	Country
1	Albania	27	Morocco
2	Algeria	28	Palestinian Authority
3	Armenia	29	Romania
4	Austria	30	Russian Federation
5	Azerbaijan	31	Serbia
6	Belarus	32	Slovakia
7	Bosnia&Herzegovina	33	Slovenia
8	Bulgaria	34	Spain
9	Croatia	35	Syria
10	Cyprus	36	Tunisia
11	Czech Rebuplic	37	Turkey
12	Egypt	38	Ukraine
13	France	39	Estonia
14	Georgia	40	Finland
15	Germany	41	Ireland
16	Greece	42	Latvia
17	Hungary	43	Lithuania
18	Israel	44	Luxembourg
19	Italy	45	Netherlands
20	Lebanon	46	Poland
21	Libya	47	Portugal
22	F.Y.R.O.M.	48	Sweden
23	Malta	49	United Kingdom
24	Moldova	50	Switzerland
25	Monaco	51	Iceland
26	Montenegro	52	Belgium
		53	Denmark

Table 1 IASON funding organizations and institutes pre-defined countries

3. THE FUNDING ORGANIZATIONS AND INSTITUTES COMPONENT OF THE IASON PNF

Identifying funding organizations and funding programmes is a crucial task for IASON, not only for the needs of the project, but also for other future actions and networking beyond the project boundaries and life time. The collection of information regarding funding is a fundamental action for capacity building and sustainability activities in the Mediterranean and Black Sea regions. The ability of accessing an existing database of funding organizations and institutes along with ability to enter information in the database would great facilitate these actions. Therefore it was decided to build a funding organizations and programmes component in the IASON PNF.

This component is composed of two parts: the funding organizations and institutes DB and the component GUI. The funding organizations and institutes is a database containing all the information about funding organizations and institutes and programmes relevant to the three pillars of the Horizon 2020 challenge 5: climate action, resource efficiency, and raw materials with respect to Earth Observation applications, covering not only the two geographical regions (Mediterranean and Black Sea) addressed by IASON but also funding organizations that are active globally, in the Balkan region, and Europe. Under this perspective the DB can be considered as an element of a more general Capacity building and sustainable funding system.

According to [IASON D2.5] it is noteworthy that, being aware of similar initiatives carried out by projects running in parallel and with different objectives (such as EOPOWER) or covering different geographical regions (such as SUSTAIN EU-ASEAN for South-East Asia, and ENSOCIO-LA for Latin America), the IASON project decided to take into account the need of interoperability between different Capacity Building systems. A specific Technical Note [IASON TN1] was internally released to document the interoperability approach, and a joint activity with EOPOWER has been initiated in order to define the technical interoperability architecture based on a brokered architecture and on the GEONetCab ISO19115 metadata profile for capacity building resources. The interoperability of Capacity Building systems will allow to enhance search capabilities enabling users to perform queries on wider geographical areas, and to solve replication issues (for example inclusion of Balkan stakeholders which are already included in the BalkanGeoNet PNF and should also be part of the IASON PNF).

The second macro-component of the IASON PNF is the Graphical User Interface (GUI) that, similarly to the BalkanGeoNet PNF GUI, will enable users to create, modify, delete and visualize the PNF entries. It is an essential component to keep the PNF active and up-to-date during all the duration of the project and possibly beyond.

The effort in building the IASON PNF is shared between multiple IASON WPs. In particular WP4 implemented the Funding Organizations and Institutes DB, providing also the initial content based on Microsoft Access GUI, while WP5 will implement the GUI. IASON and EOPOWER will jointly implement the interoperability system for information sharing between existing or planned Capacity Building systems.

3.1   The Funding Organizations and Institutes DB

The structure of the PNF database is reported in Figure 1. Two tables of PNF structures are the more relevant to IASON, namely: Player and Activity tables. The third attribute table of PNF is completely dedicated to GEOSS component and will not be used for IASON CB database; information on GEO component are directly included into the ACTIVITY table. IASON Funding Organizations and Institutes DB structure is based on two tables:

- The Funding Organizations table dedicated to organizations and institutes details;

- and the Funding Programmes table, dedicated to funding programmes details.

The two tables are linked through the unique organization ID.
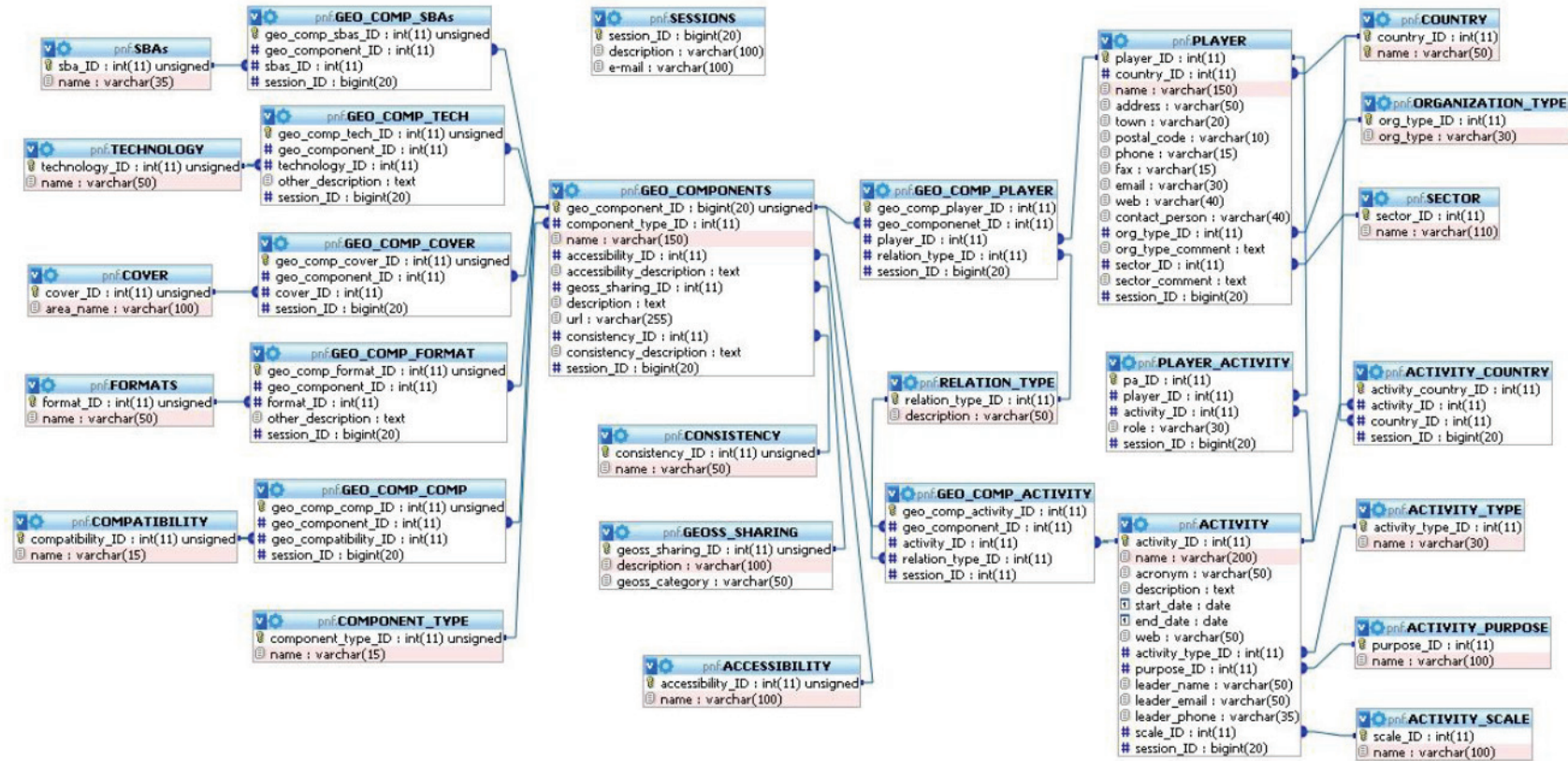
Figure 1: PNF database model and table relations

The first implementation of the IASON funding organizations and institutes database was done using Microsoft Access 2007.

The final structure of the IASON funding organizations and institutes database is represented in Figure 2, two main tables Funding Organizations and Funding Programmes are the core of data structure. Several tables containing pre-defined values have been create in order to homogenize the data and attributes of the DB.

The Funding Organizations table contains information of a specific organization, such as: organization name, the region that is based, organization type, the region that it covers, contact details, website, funding type, and comments.

The Funding Programmes table contains information on specific programmes: Funding programme name, Funding type, themes covered, annual budget, type of eligible applicants, types of projects, project scale, website, and comments.
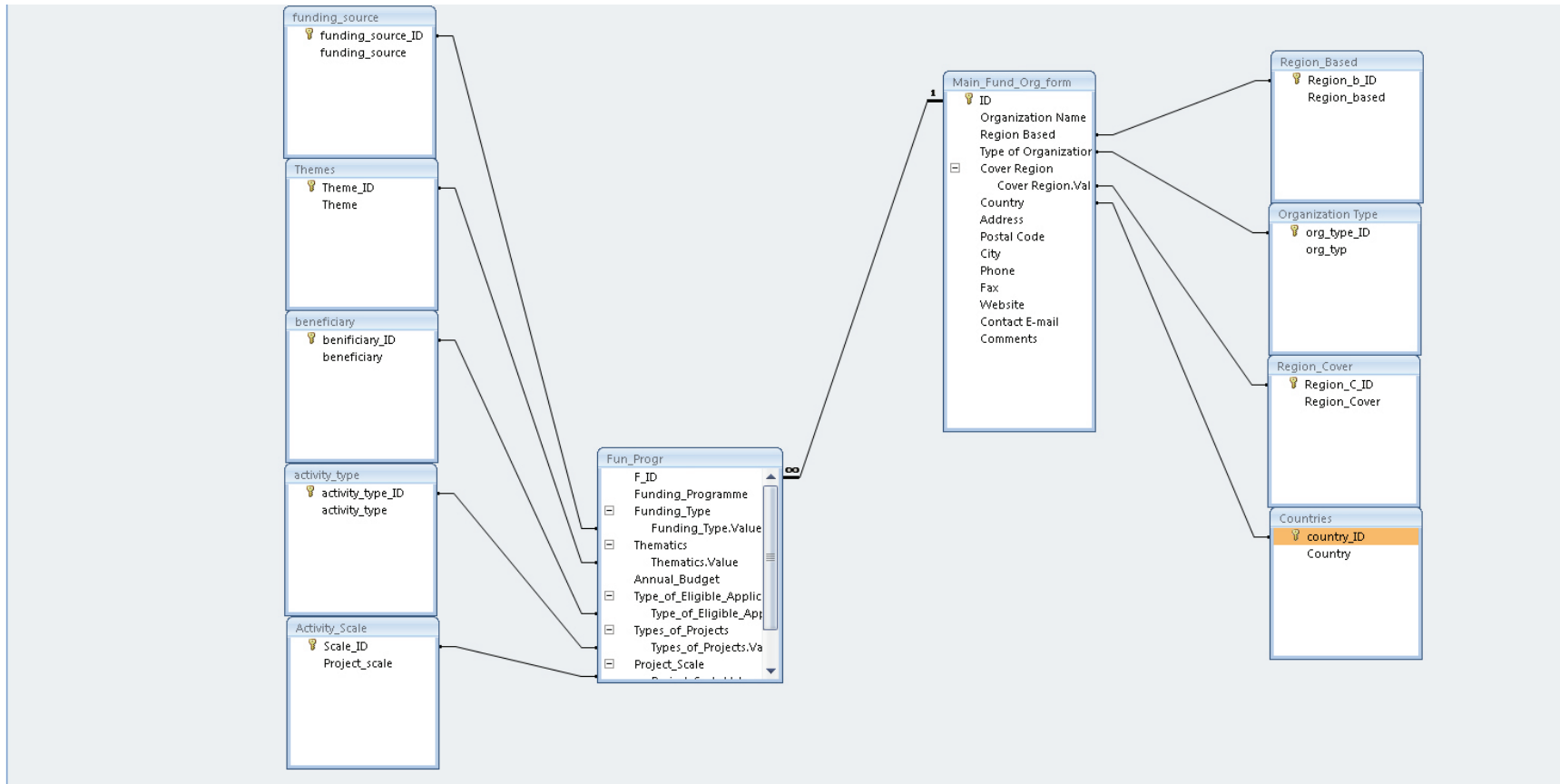
Figure 2: IASON Funding Organizations and Programmes DB structure

3.1.1 The Funding Organizations and Institutes Database Design

The primary database was designed using Microsoft Access. Two main tables were created containing fields about Funding Organizations and Institutes and funding Programmes. In addition various auxiliary tables were created containing predefined selections inserted in the database.

The two main tables created are the Funding Organization table and the Funding Programme table. For each table a special form was designed to assist database population.

3.1.1.1 The Funding Organization Table

The Funding organization structure (fields) is presented in Table 2. Most attributes can be determined by the user with free text, while some of the fields provide a list of pre-defined options. In the case of pre-defined option fields, the user can either have a single or multiple selections for the field.

Field	Type	Links to
ID	Long Integer	
Organization Name	Text (150)	
Region Based	Long Integer	Region_Based → Region_b_ID
Type of Organization	Long Integer	Org_Type → org_type_ID
Cover Region	Long Integer	Region_Cover → Region_C_ID
Country	Long Integer	Country → country_ID
Address	Text (50)	
Postal Code	Text (10)	
City	Text (20)	
Phone	Text (15)	
Fax	Text (15)	
Website	Text (40)	
Contact E-mail	Text (30)	
Comments	Text (255)	

Table 2 Funding Organization Table structure

The field Region_Based (Table 3) has five pre-defined values from which the user can choose only one.

Region_b_ID	Region_based
0	Black Sea Region
1	Mediterranean Region
2	Balkan Region
3	European Region
4	Global

Table 3 Pre-defined values for Region Based

The field Type of Organization (Table 4) has 9 pre-defined values from which the user can use only one.

org_type_ID	org_typ
1	Governmental
2	Commercial (private)
3	Public Company (state)
4	Academic
5	Scientific research
6	NGO
7	International
8	Other

Table 4 Pre-defined values for Organization Type

The field Cover Region (Table 5) has five pre-defined values, and the user is allowed to have multiple selections.

Region_C_ID	Region_Cover
0	Black Sea Region
1	Mediterranean Region
2	Balkan Region
3	European Region
4	Global

Table 5 Pre-defined values for Cover Region

3.1.1.2 The Funding Programmes table

The Funding programmes structure (fields) is presented in (Table 6). Most attributes can be selected from a list of pre-defined values, while some of the fields can be populated by the user using free text. In the case of pre-defined option fields, the user can either have a single or multiple selections for the field.

Field	Type	Links to
F_ID	Long Integer	Funding_Organization_ID
Funding Programme	Text (255)	
Funding Type	Long Integer	Funding_source → Funding_source _ID
Thematics	Long Integer	Theme → Theme_ID
Annual Budget	Currency (Euro)	
Type of Eligible Applicants	Long Integer	beneficiary → beneficiary_ID
Types of Projects	Long Integer	Activity_type → Activity_type _ID
Project Scale	Long Integer	Project_scale → Scale_ID
Programme Website	Text (255)	
Comments	Text (255)	

Table 6 Funding Programmes Table Structure

The filed Funding type (Table 7) has 5 pre-defined values and the user is allowed to have multiple selections.

funding_source_ID	funding_source
1	European Research Funds
2	Other European Funds
3	National
4	Regional
5	International Bilateral/Multilateral Donors

Table 7 Pre-defined values for Funding Type

The filed Thematics (Table 8) has 4 pre-defined values and the user is allowed to have multiple selections.

Theme_ID	Theme
0	Climate Change Action
1	Resource Efficiency
2	Raw Material
3	Others

Table 8 Pre-defined values for Thematics

The filed beneficiary (Table 9) has 6 pre-defined values and the user and is allowed to have multiple selections.

benificiary_ID	beneficiary
0	Researchers
1	Policy-makers
2	SMEs
3	Citizens
4	Others
5	Academia

Table 9 Pre-defined values for Beneficiary

The field activity type (Table 10) has 6 pre-defined values and the user is allowed to have multiple selections.

activity_type_ID	activity_type
1	Research
2	Networking
3	Research And Networking
4	Education
5	Coordination & Support
6	Capacity Building

Table 10 Pre-defined values for activity type

The field project scale which refers to programme scale (Table 11) has 4 pre-defined values and the user is allowed to have multiple selections.

Scale_ID	Project_scale
1	National
2	Regional
3	European
4	Global

Table 11 Pre-defined values for project scale

3.1.2   Cross-linking table Funding Organizations and Funding Programmes

The link between the Funding Programmes and Funding Organization is made through the F-ID field in the Funding Programmes table that links to the ID of the Funding Organization through a one to many relation.

3.1.3   IASON Funding Organizations GUI

For the first collection stage a Graphical User Interface was created in Microsoft Access 2007 Environment. Two forms were created for the IASON Funding Organizations and Programmes:

1. The Funding Organizations Form (Figure 3) linked to the Funding Organizations table;

2. and the Funding Programmes Form (Figure 4) linked to Funding Programmes table.

The Funding Programmes form was used as a sub-form in the Funding Organization Form.

Figure 3 Funding Organizations GUI

F_ID:	22
Funding_Programme:	Excellence with Impact
Funding_Type:	National
Thematics:	Climate Change Action, Resource Efficiency, Raw Material, Others
Annual_Budget:	$100,000,000.00
Type_of_Eligible_Applicants:	Researchers, Policy-makers, SMEs, Citizens, Others, Academia
Types_of_Projects:	Research, Research And Networking
Project_Scale:	Global
Programm_Website:	
Comments:	PNR National Programme of Research (2014-2020)

Figure 4 Funding Programmes GUI

4. INFORMATION COLLECTION

In order to collect information about funding organizations and programmes a Microsoft Access 2007 file was circulated to all partners and then returned to AUTH. The final global file was produced by merging the individual partner's files. The current database contains 58 funding organizations and 67 funding programmes.

In the following figures some basic statistics regarding the Funding Organizations are presented.
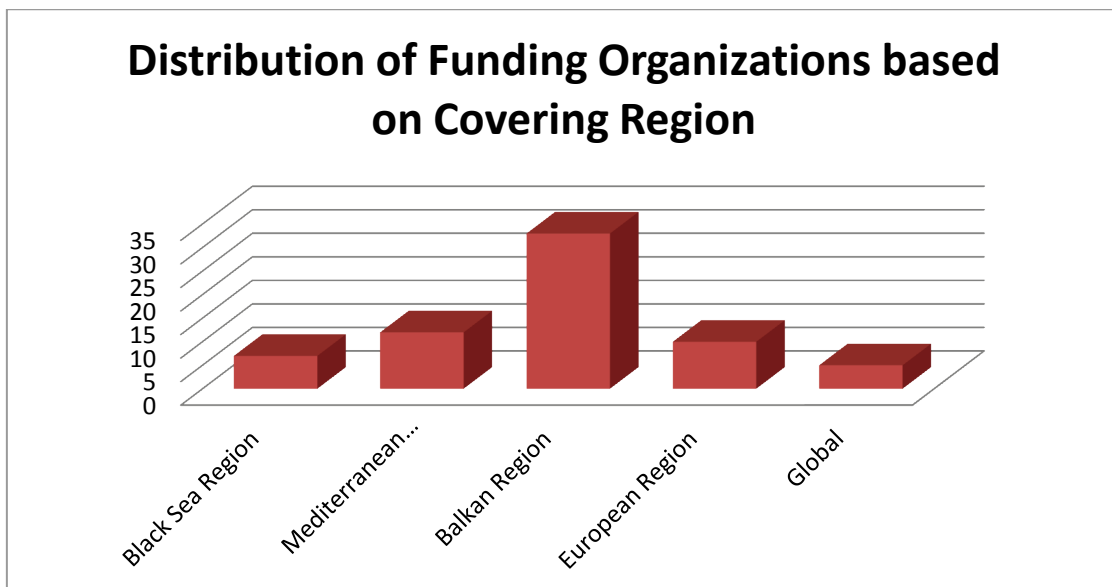
Figure 5 Distribution of Funding Organizations Based on Covering Region

Distribution of Funding Organizations based on Region Based
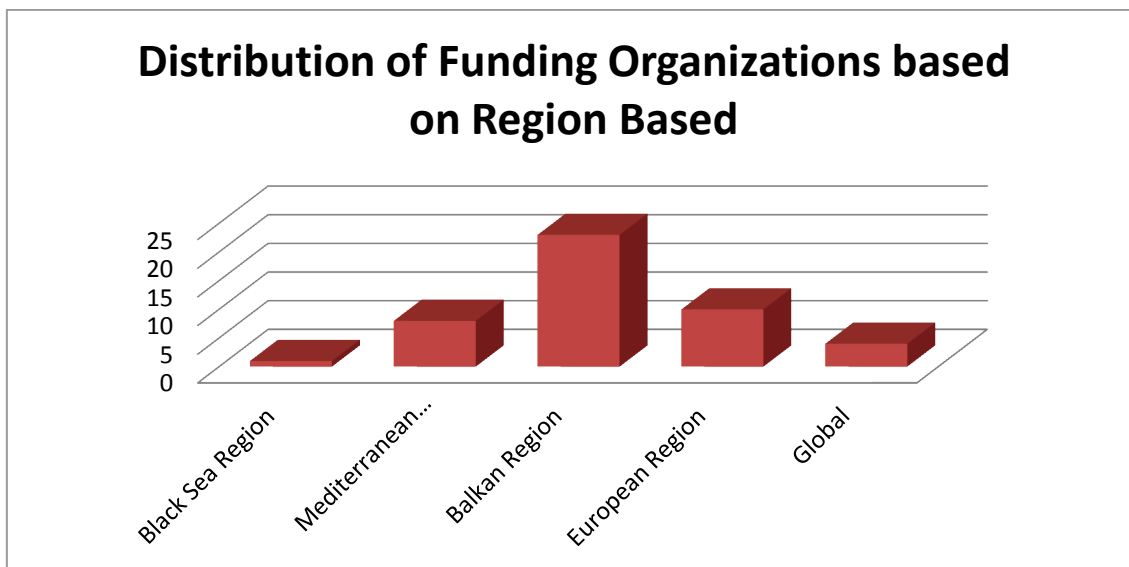
Figure 6 Distribution of Funding Organization based on the Organizations Region

Distribution of Funding Organizations based on Type of Organization
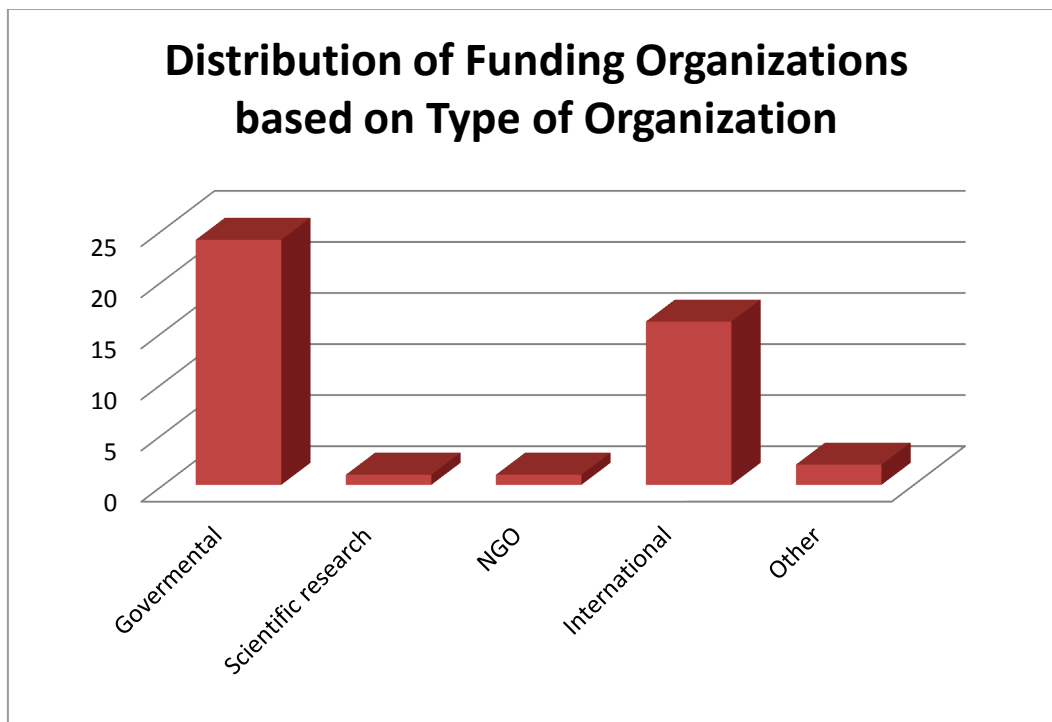
Figure 7 Distribution of Organization based on the type of Organization

While in the following figures some basic statistics regarding the Funding Programmes are presented.

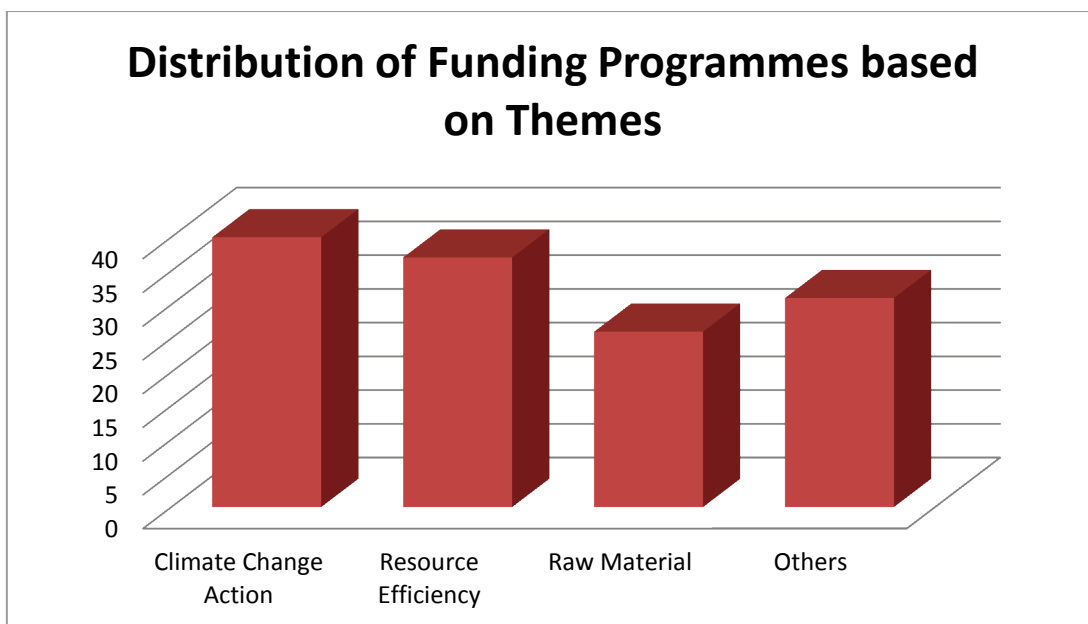## Distribution of Funding Programmes based on Funding Source
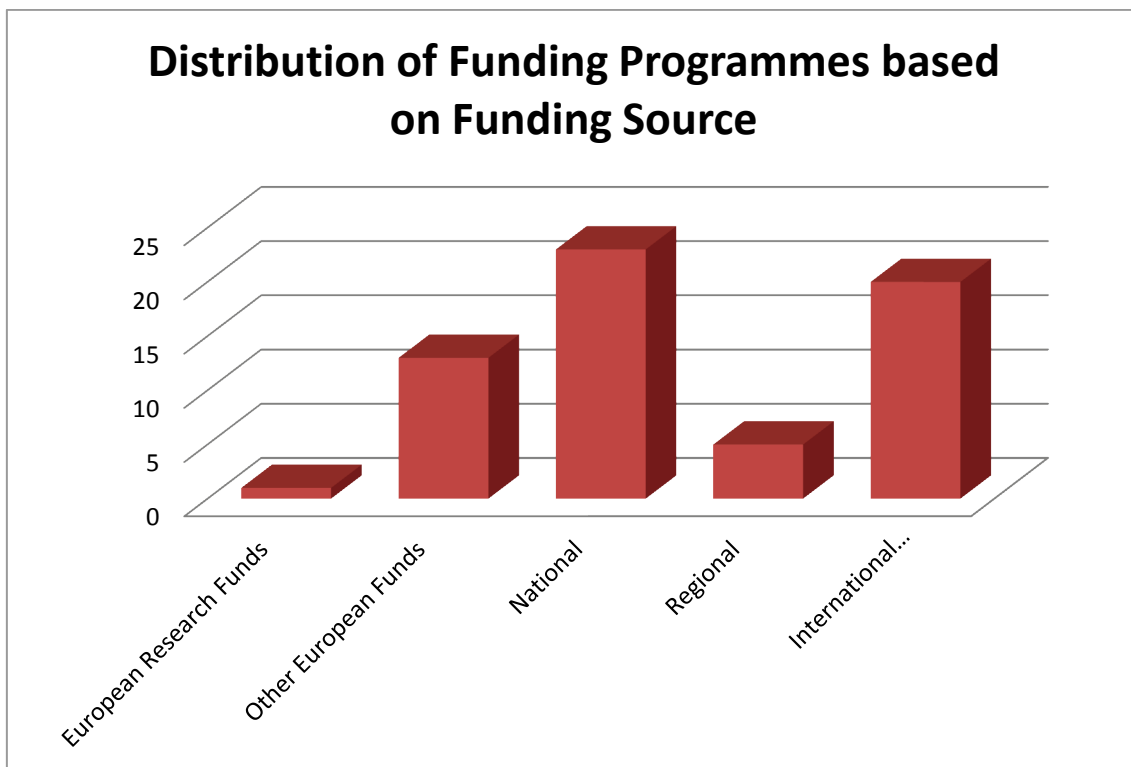
Figure 8 Distribution of Funding Programmes base on Funds Source

Distribution of Funding Programmes based on Themes

Figure 9 Distribution of Funding Programmes based on project Themes
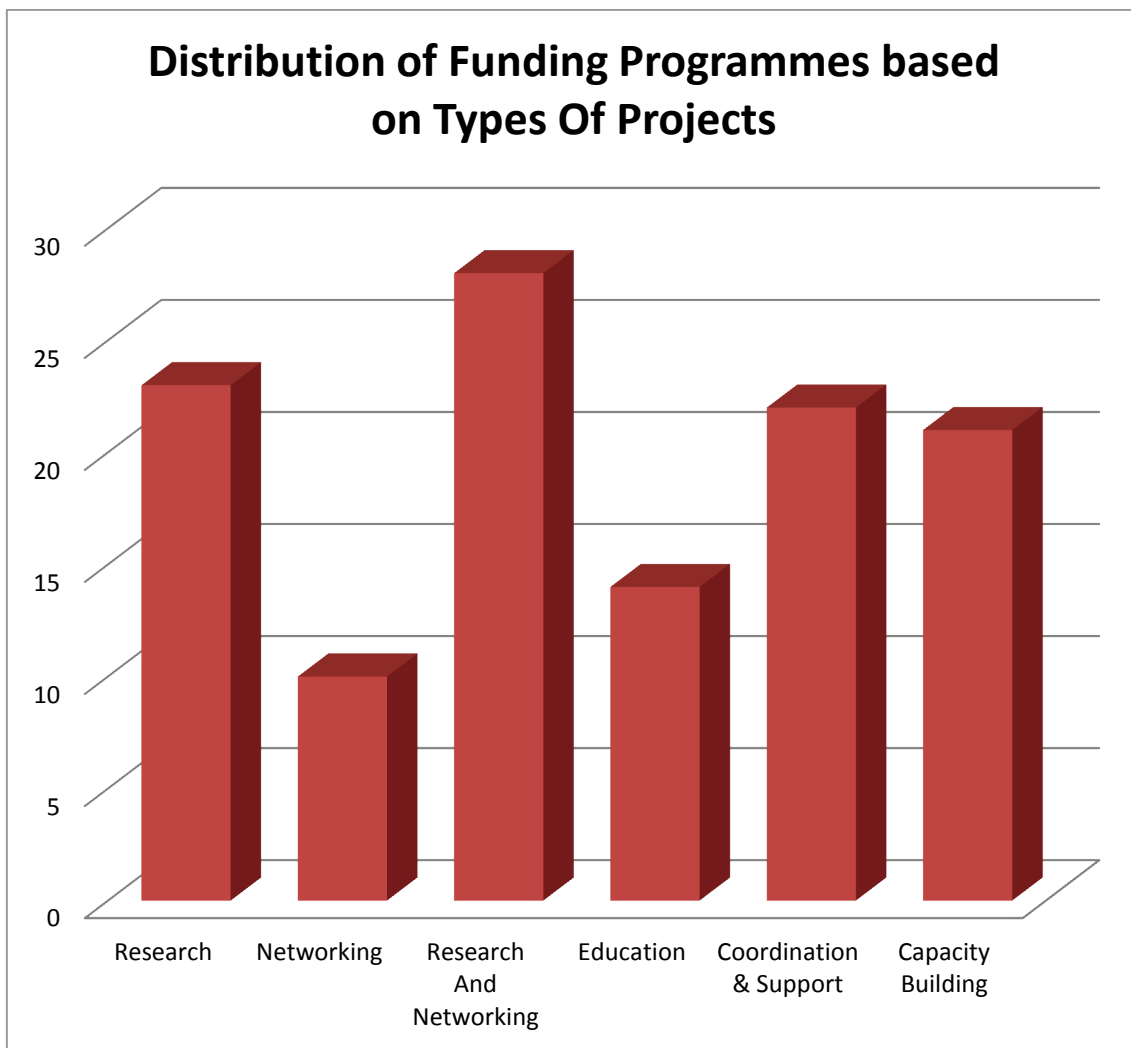
Figure 10 Distribution of Funding Programmes based on Types of Projects
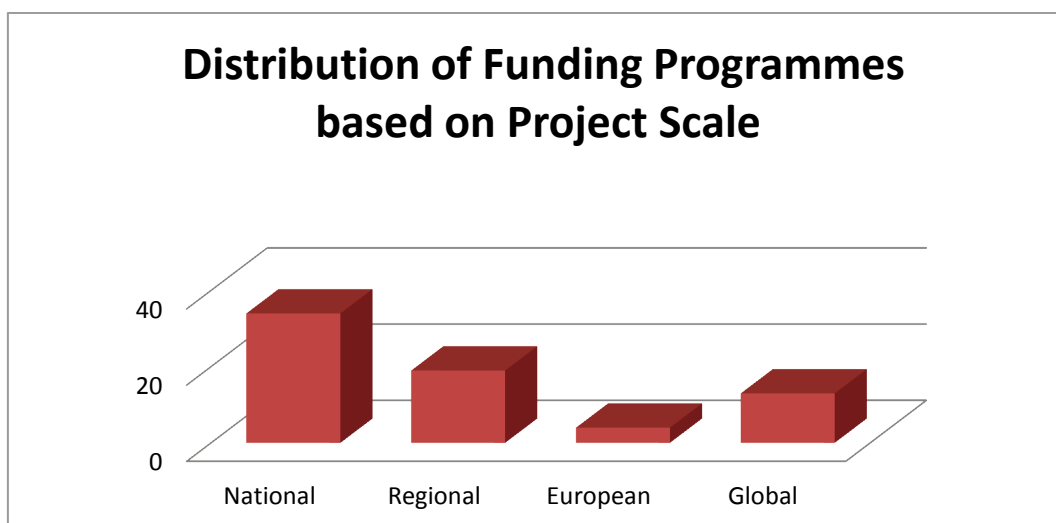
Figure 11 Distribution of Funding Programmes based on Project Scale

5. CONCLUSIONS

The IASON Funding Organizations and Institutes database has been created based on the existing PNF structure. The database contains information on funding organizations and programmes that can provide funding in the regions that are active in the three thematic pillars of IASON (Climate Change, Resource efficiency and raw material), in the two project's regions, the Mediterranean and the Black Sea Region.

The database has been developed in Microsoft Access 2007 and has been populated with the input provided by the IASON consortium members. The DB currently contains 58 funding organizations and 67 funding programmes. However the DB will be implemented in the IASON PNF and the IASON consortium will continue to update and insert new information during the project's lifetime.

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6. TABLE OF FIGURES

7. LIST OF TABLES