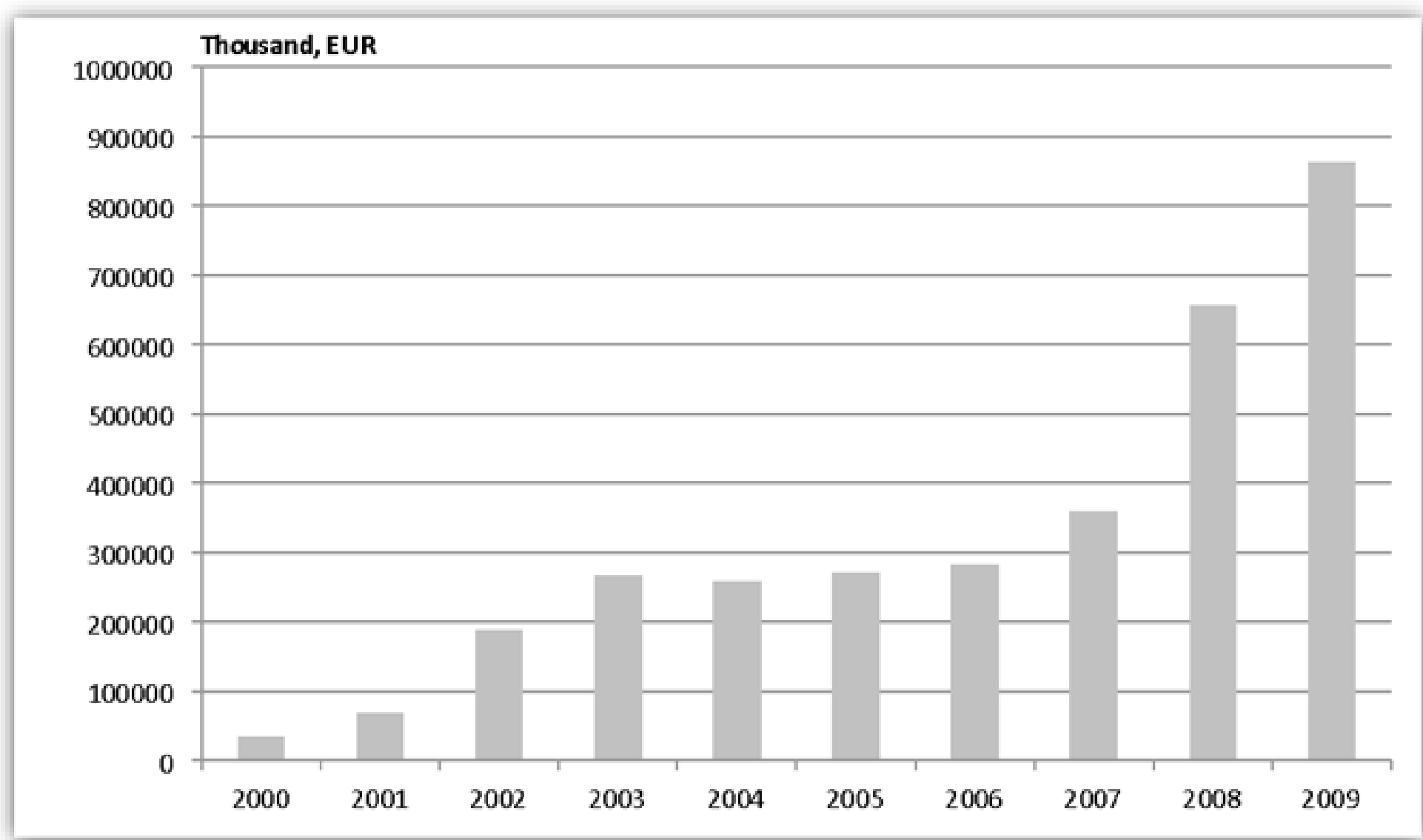


JOINT AND OPEN RESEARCH PROGRAMMES (JOREP) DATABASE

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Total budget of joint R&D programmes for the period 2000-2009 (ESA excluded)

BASIC CHARACTERISTICS

Joint and Open REsearch Programme (JOREP) Database provides a quantitative basis for the monitoring of investments in joint R&D programmes in the countries belonging to the European Research Area.

JOREP collects descriptive information on the characteristics of trans-national coordinated research programmes, on the volume of funding channelled through these programmes; it also allows to understand and interpret the strategies adopted by the different actors involved in joint R&D programmes in terms of the underlying logics which frame their behaviour and decisions concerning if and how to establish joint programmes, how to manage and implement it, linking the findings with broader conceptions of how European integration in the field of S&T policies should take place.

Currently, JOREP database stores data on 97 joint R&D programmes, where at least one country involved in the JOREP project – the Czech Republic, Denmark, France, Germany, Italy, the Netherlands, Norway, Poland, Switzerland, Spain, and the United Kingdom – participates. Funding data cover the period 2000-2009. The database is located at CERIS CNR located in Rome (Italy).

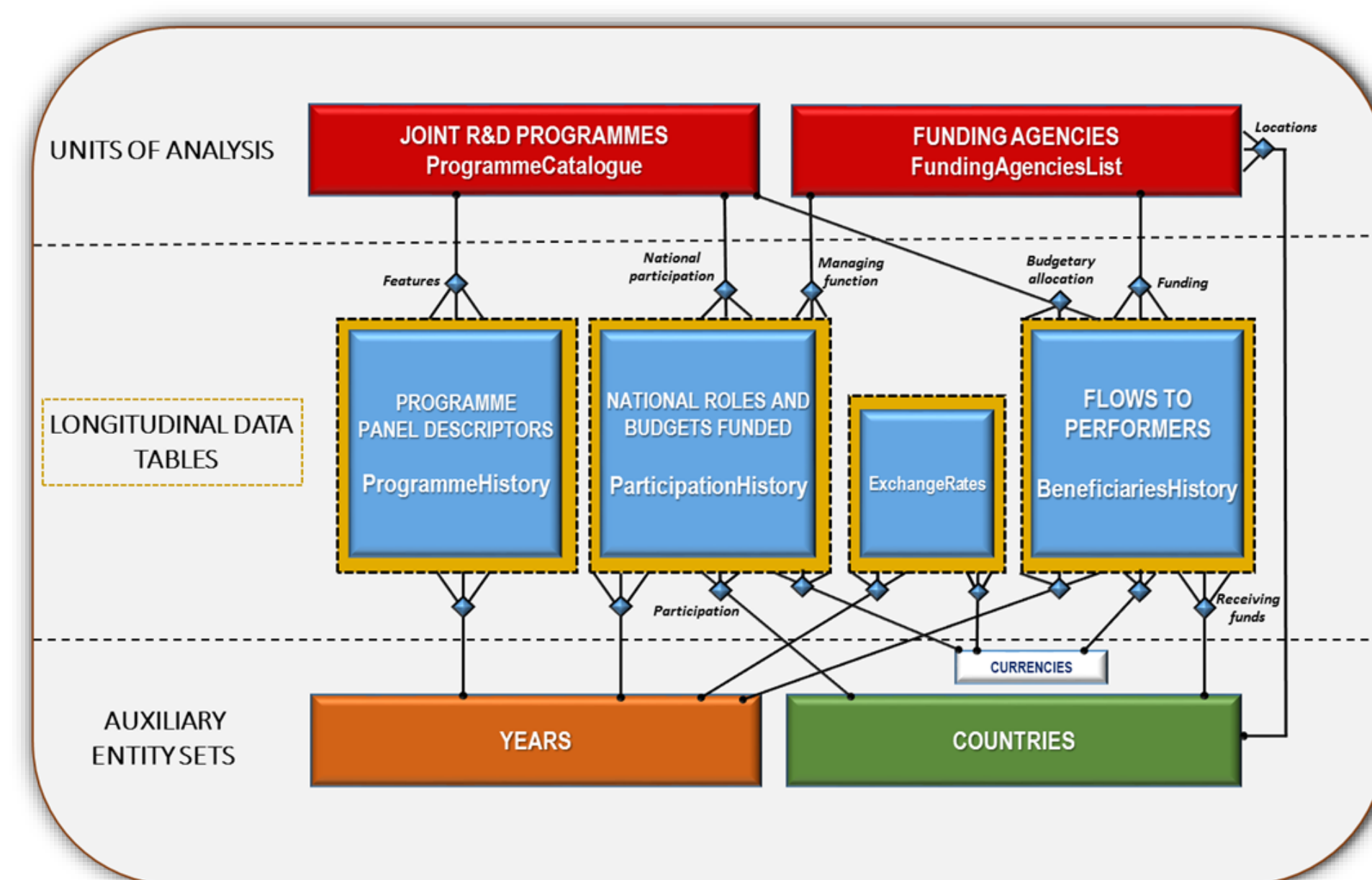
INFORMATION ON SUBSTANTIVE CONTENT OF JOREP

Data sources:

A combination of sources has been used for the data collection including joint R&D programme websites; joint R&D programme activity reports and evaluation reports; joint R&D programme leaflets; calls for proposal; funding agency websites. Nevertheless, some information has been collected directly from ministries or funding agencies. Other approved sources have been national statistical offices and GBAORD. Estimations for not-available data, if applicable, and assessment data have been produced by national expert and validated by JOREP core team.

Data processing:

JOREP national experts collected data for each country, while NIFU STEP collected European-level data centrally. Data were validated by the JOREP core team, checked for inconsistencies together with national experts and, then, integrated into a relational structure. The original relational dataset has been subject to a re-engineering process in order to better manage the great amount of data to be collected in future updates as well as to adapt to potential end-user demands for temporal analysis.



The relational structure of JOREP database

Integration of the programme functions		Integration of the funding resources	Type of programme	
Integration	Submission	Funding		
Agency	Single-entry point	Real common pot	➤ Integrated programme with integration of funding	Integrated programmes
Agency	Single-entry point	National pot	➤ Integrated programme without integration of funding	
Coordination	Single-entry point	Real common pot	➤ Coordinated programme with integration of funding	Coordinated programmes
Coordination	Single-entry point	National pot	➤ Coordinated programme without integration of funding	
Delegation	Single-entry point	National pot	➤ Collaborative programme with delegation	Collaborative programmes
Coordination	Parallel	National pot	➤ Collaborative programme – parallel programme	
Independent	Parallel	National pot	➤ Collaborative programme – independent programme	

Classification of joint R&D programmes by type

Information on all variables/indicators:

JOREP dataset includes variables dealing with the two main units of analysis that characterize the joint R&D programmes dynamic: programmes and funding agencies. The new relational model have been studied both in order to register the demography of the programmes and in order to follow the history of the programmes by year, pointing out the significant internal changes (at the programme-level) and the peculiar features that distinguish the participation and allocation dynamics (at the participation-level and beneficiaries-level).

At programme level, JOREP hosts descriptors like Programme start year; Establishing authority; Programme duration; Research topics; Funding model; Partner countries; Mode of integration; Programme type.

At participation level, JOREP stores data on the national participation to the joint R&D programmes. The dynamic of participation points out the funding agency executing at least one of the programme function (if applicable), including also the budget allocated to the programme by the agency or by only the Country (if applicable).

At beneficiary level, JOREP collects budget transferred from each funding agencies to the performers. Data are collected by the countries of the performing organization and disaggregated by funding agency managing resources for the programme.

JOREP includes also a basic set of descriptors of the funding agencies participating to the joint R&D programmes.

LEGAL ISSUES ENCOUNTERED AND ACCESS CONDITIONS

The European Commission is the owner of the JOREP database since it has been developed under a specific EC contract (Contract No. RTD/DirC/C3/2010/SI2.561034).

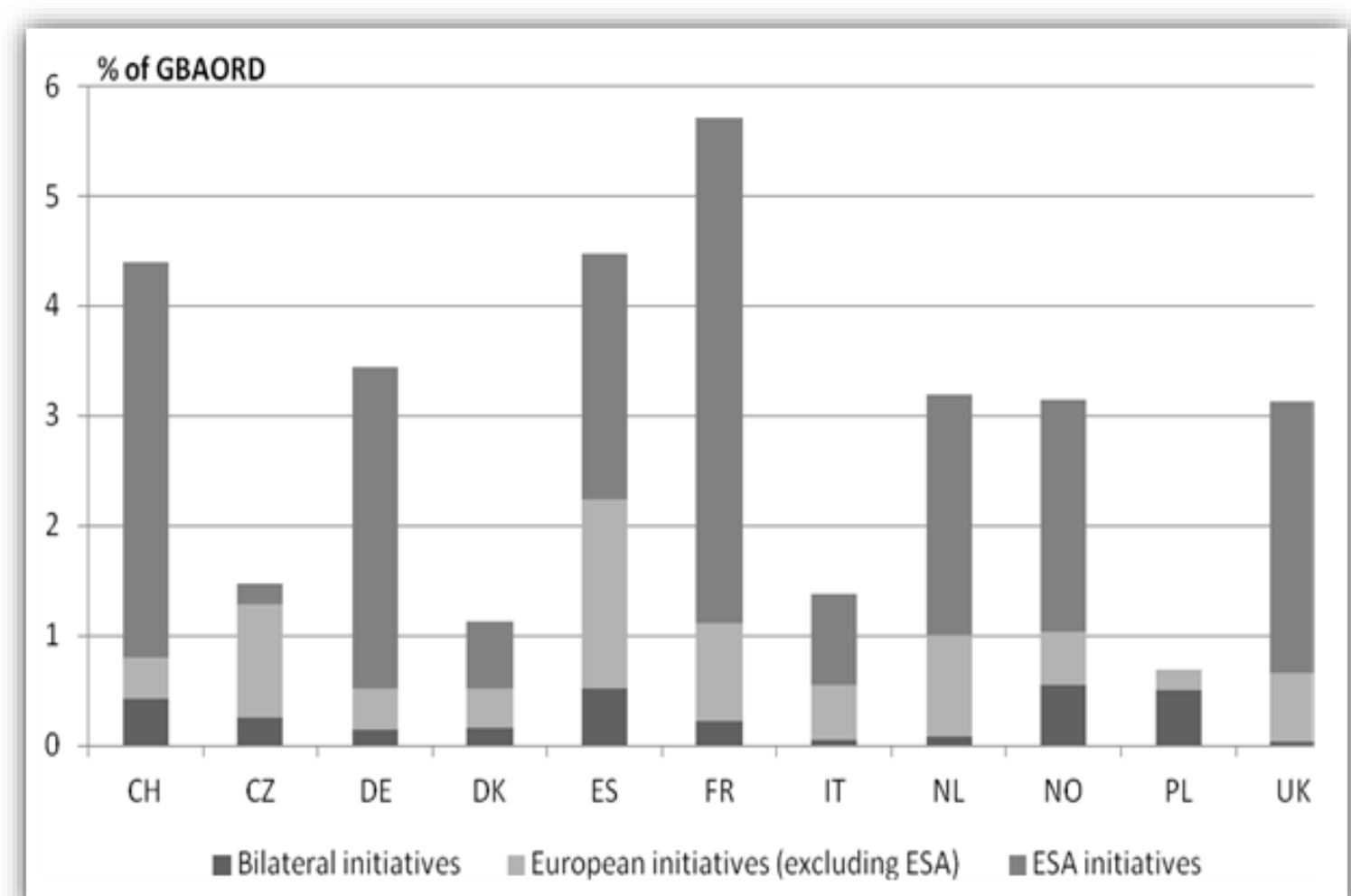
According to the RISIS legal specificities, EC databases can be fully exploited under the EUPF7 RISIS activities for the aims of the project (opening of the infrastructure to external users for research purposes, integration of the infrastructure with other similar).

INFORMATION ON THE DATABASE SYSTEM

Data are implemented in MS Access 2013

RESULT – FUNDING TO JOINT R&D PROGRAMMES

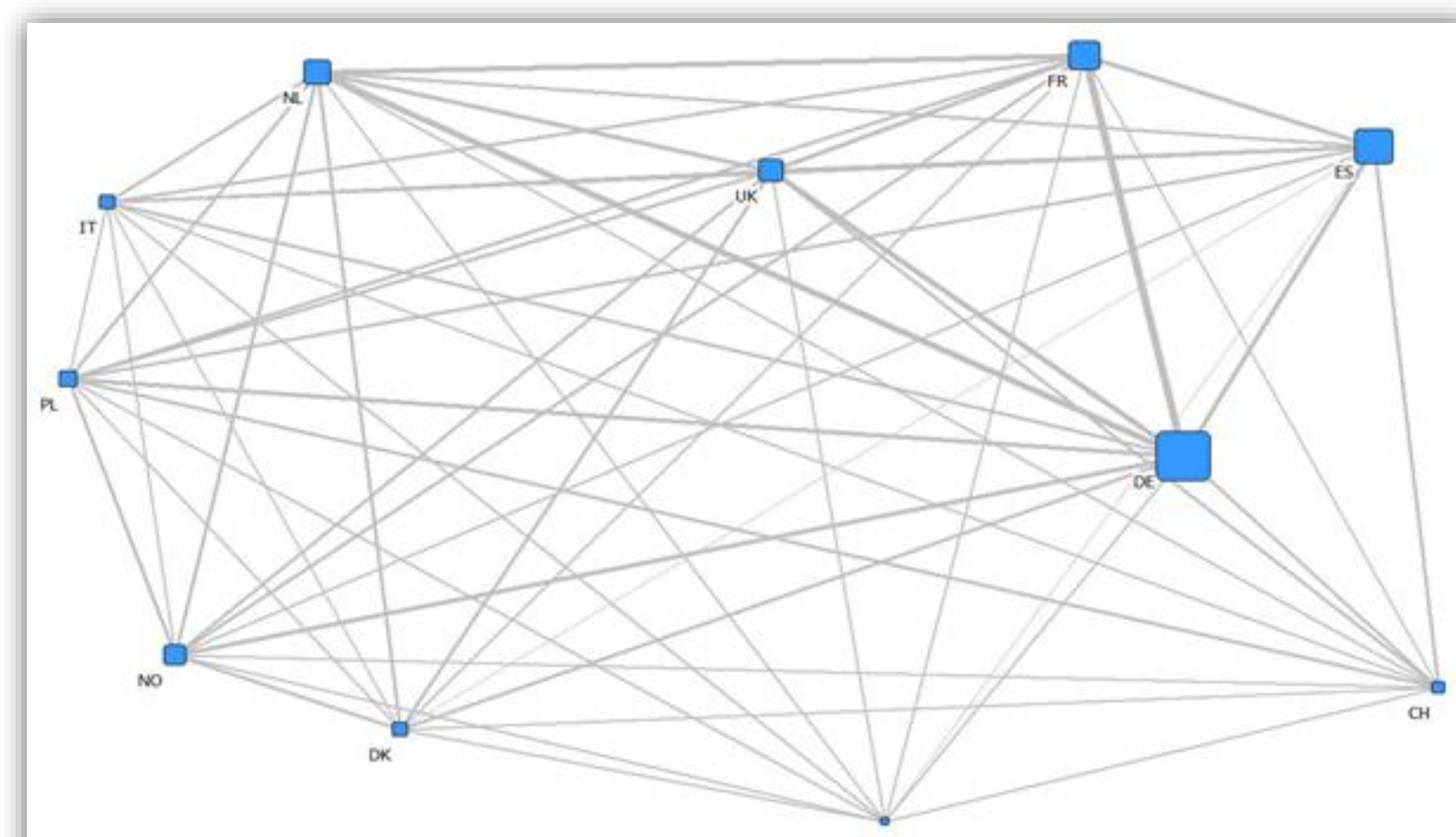
The average investments in joint R&D programmes as percentage of GBAORD by smaller JOREP countries (CZ, CH, DK, NL, NO) are equivalent to the average investments by the largest JOREP countries (DE, ES, FR, IT, PL, UK). It can be noted that the share of participation in bilateral vs. European initiatives differs from country to country.



Total funding volume to joint R&D programmes by country as a percentage of GBAORD

RESULT – THE NETWORK OF COMMON PARTICIPATIONS

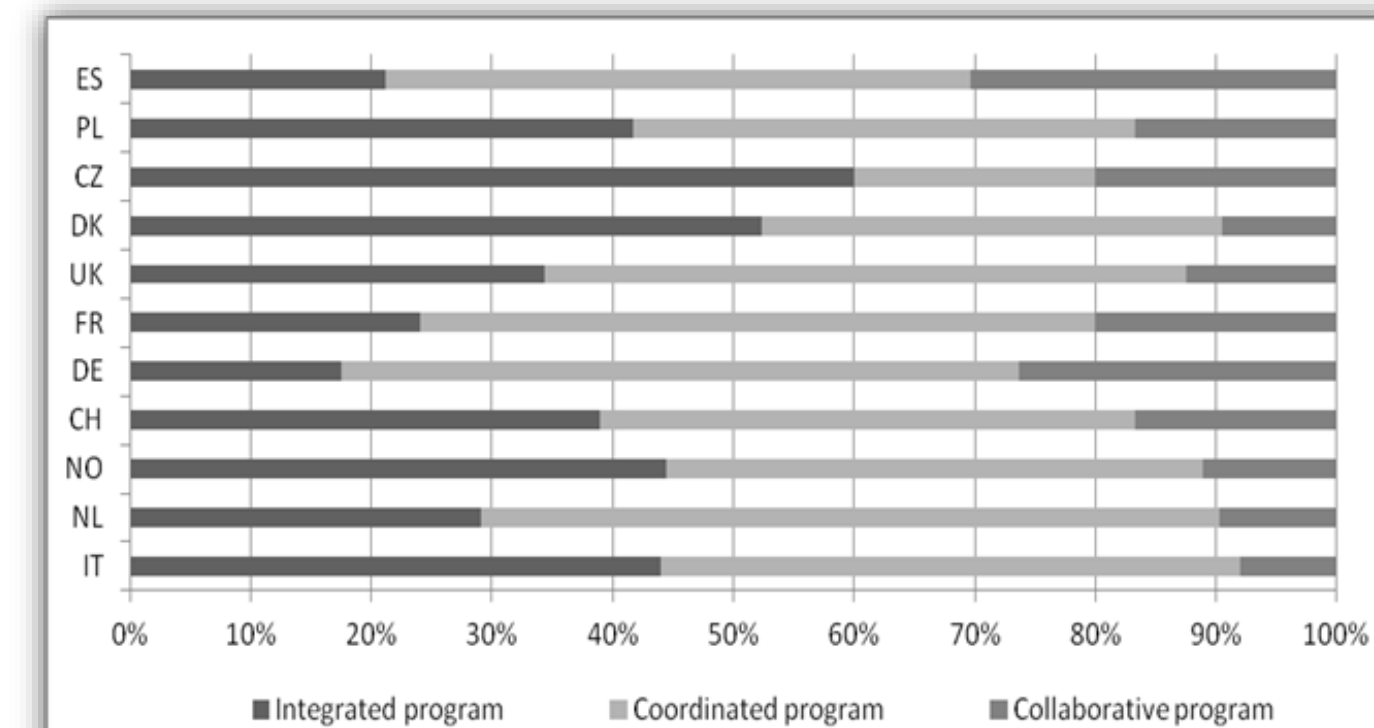
European initiatives and bilateral programmes play two different functions in the internationalisation of research systems. The former help build a strong and relatively homogeneous network among ERA countries, integrating the less central countries around a core constituted by Germany, France, the UK, and the Netherlands; the latter link individual ERA countries with the rest of the world.



Network of common participations to joint R&D programmes among JOREP countries

RESULT – NATIONAL PARTICIPATION TO THE PROGRAMMES

Differences in participation emerge. Most of the countries are involved in coordinated programmes. On the contrary, the share of collaborative programmes is relatively low. Integrated programmes represent a significant share of the Danish and Czech involvement in joint programmes.



Participation of countries to joint R&D programmes, depending on their type