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# EKT's Roadmap on Research Information Management in Greece

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## Outline

- Overview of the Greek research ecosystem and metrics
- Current CRIS infrastructure in Greece
- Greek R&D Projects & Funds System as CRIS
- Greek R&D Statistics Management System as CRIS
- Greek CRIS Infrastructure – Next Steps

## Greece Research Metrics - Identity

- R&D Intensity (R&D Expenditure as % GDP): 0.81
- Intramural R&D Expenditure (million EUR): 1,465.7
- R&D Personnel (Head count): 82,684
- R&D Personnel (Full-time equivalent): 42,187.6
- Researchers (Head count): 53,744
- Researchers (Full-time equivalent): 29,228.2
- Source: “Research & Development Expenditure and Personnel in Greece in 2013”, National Documentation Centre, 2015

# Greece Research Metrics - Global Comparison

FIGURE 1-2. R&D Expenditure (in million EUR) in Greece and in other EU28 Member States, 2013

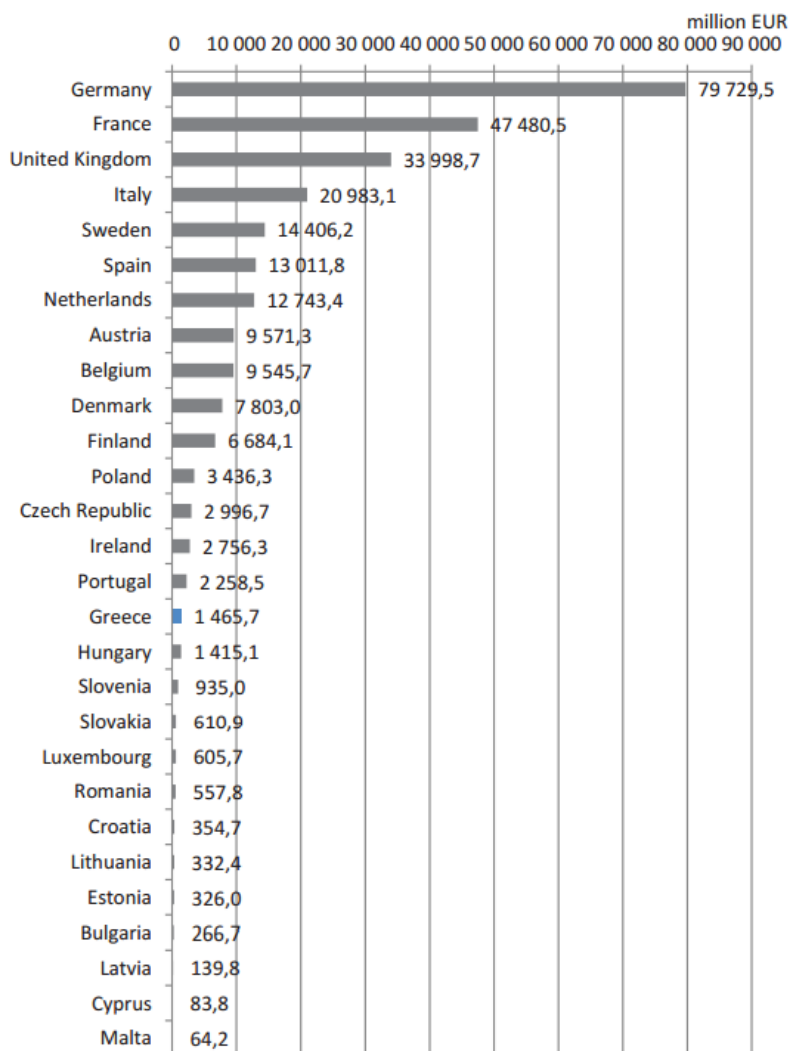
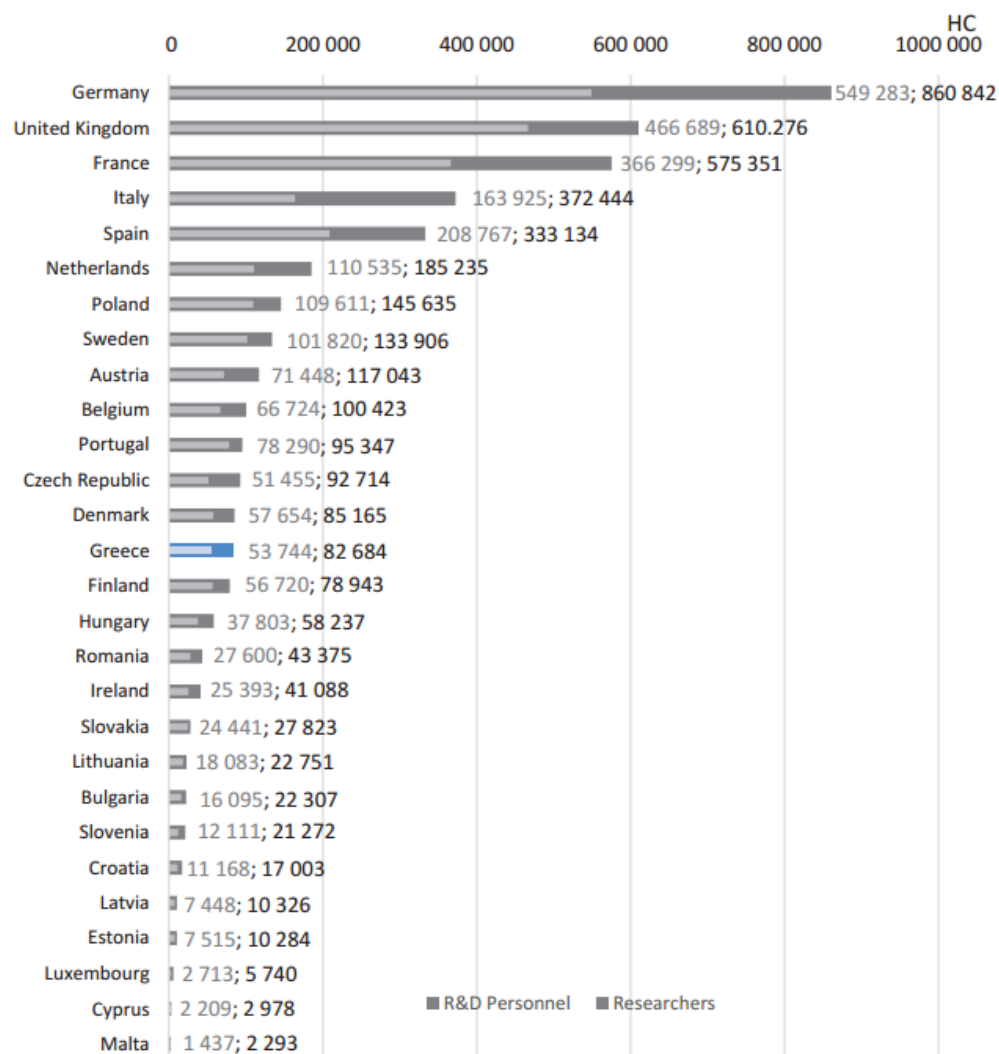


FIGURE 1-3. R&D Personnel and Researchers (in Head counts) in Greece and in other EU28 Member States, 2013



# Greece Research Metrics - Regional Analysis

FIGURE 4-2. R&D Intensity (R&D Expenditure as % of GDP) by NUTS2 regions, 2013

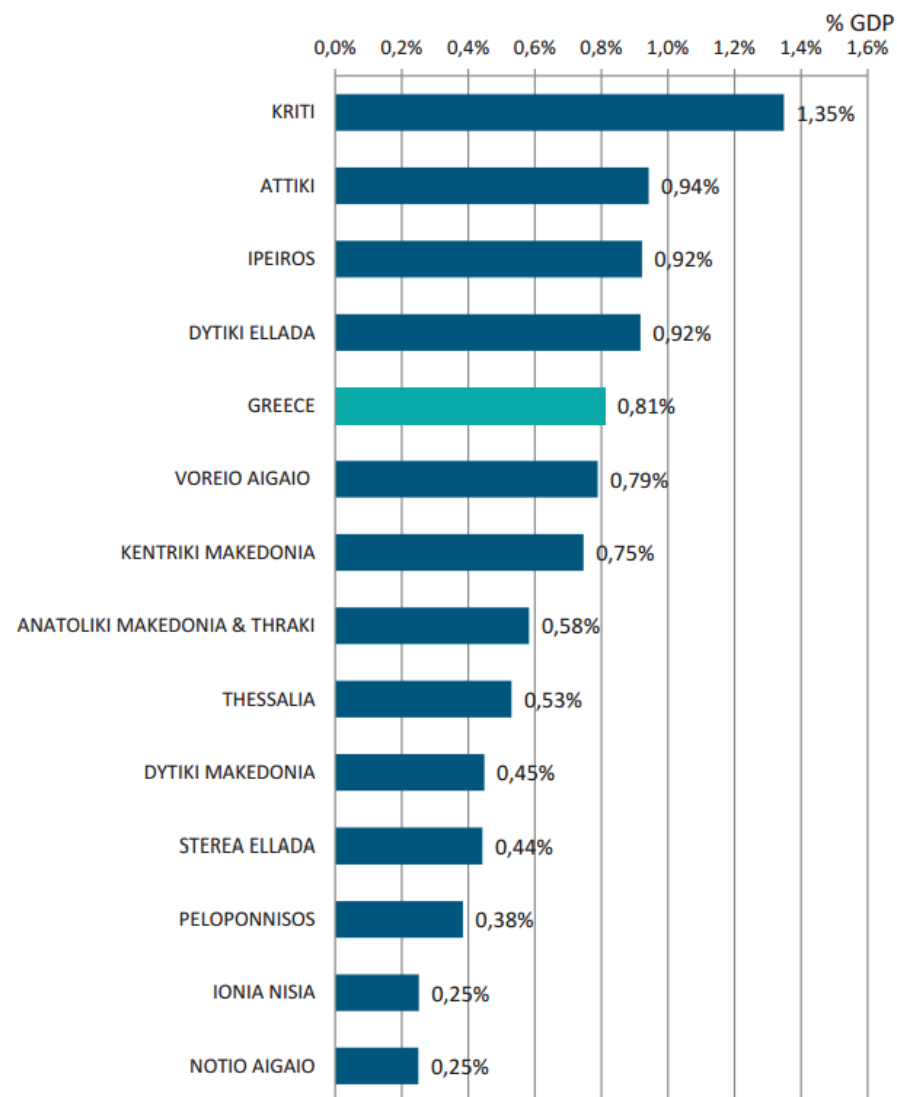
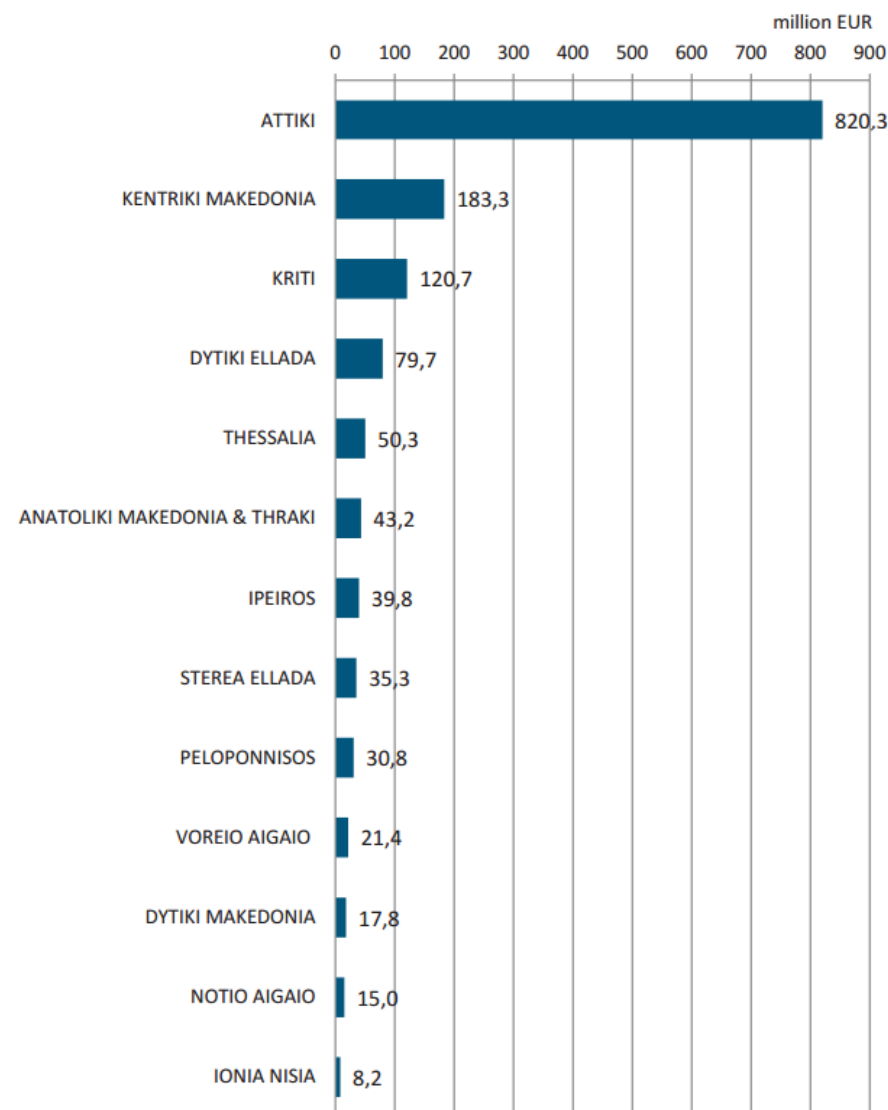
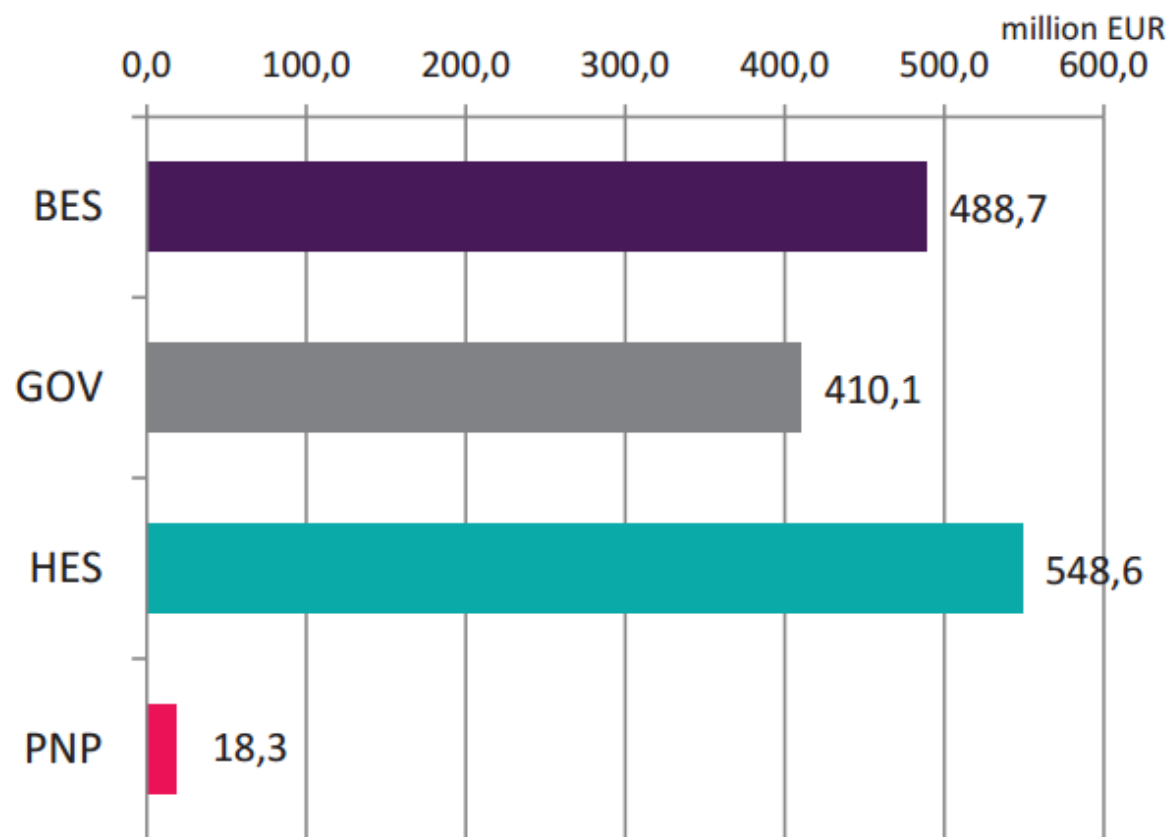


FIGURE 4-1. R&D Expenditure (in million EUR) by NUTS 2 regions, 2013



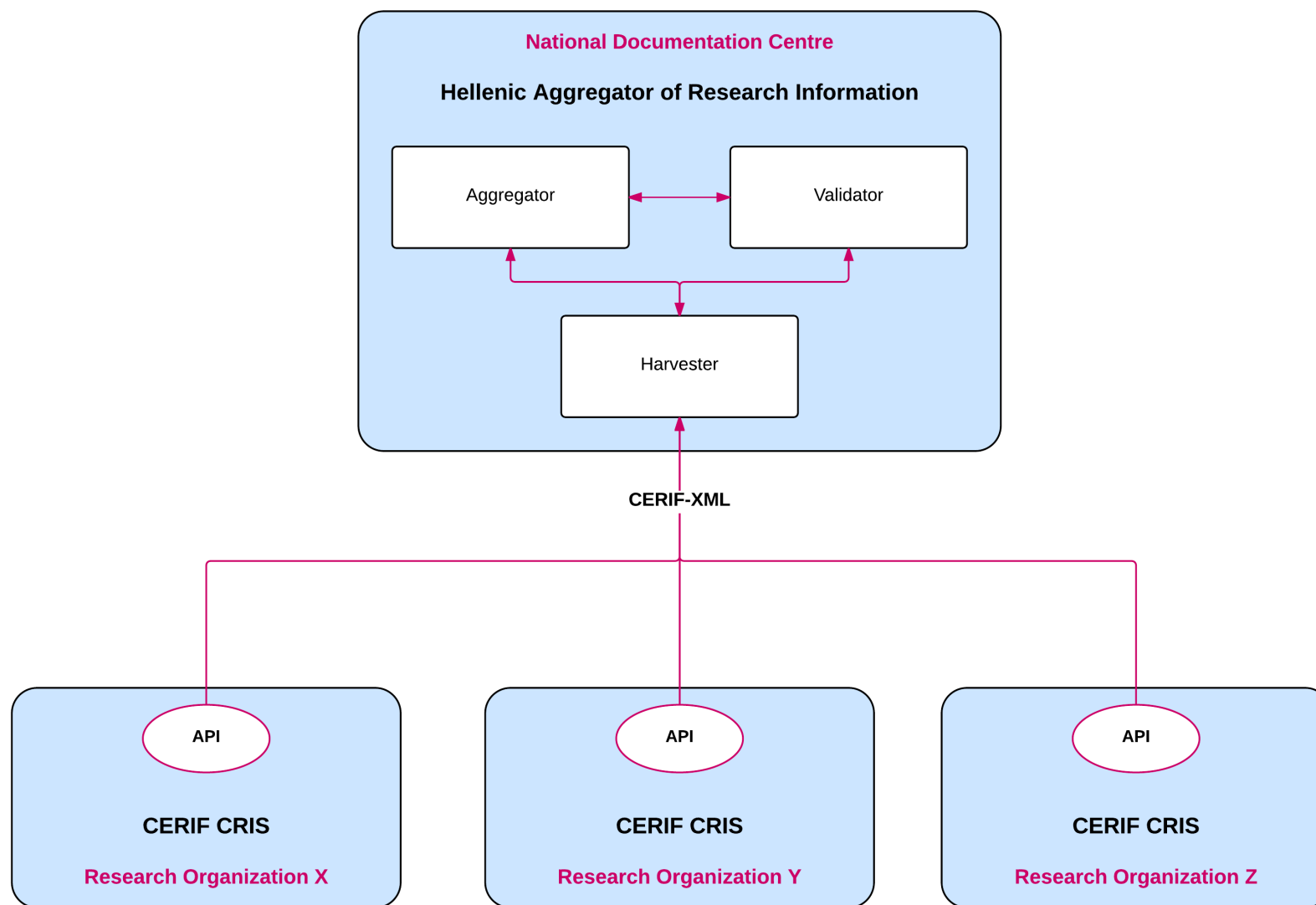
## Greece Research Metrics - Sector Distribution

FIGURE 2-1: R&D Expenditure (in million EUR) by sector of performance, 2013





# Greek CRIS infrastructure – current state



## Greek CRIS infrastructure – current state

- Each organization operates its own institutional CRIS system
  - Policies, procedures and workflows at the institutional level
- All institutional CRIS systems are based on the same CRIS software platform
- CRIS software developed by EKT (CERIF CRIS)
- A central aggregator will provide a unified point of access to the entire information
- CERIF XML/REST is used for interoperability



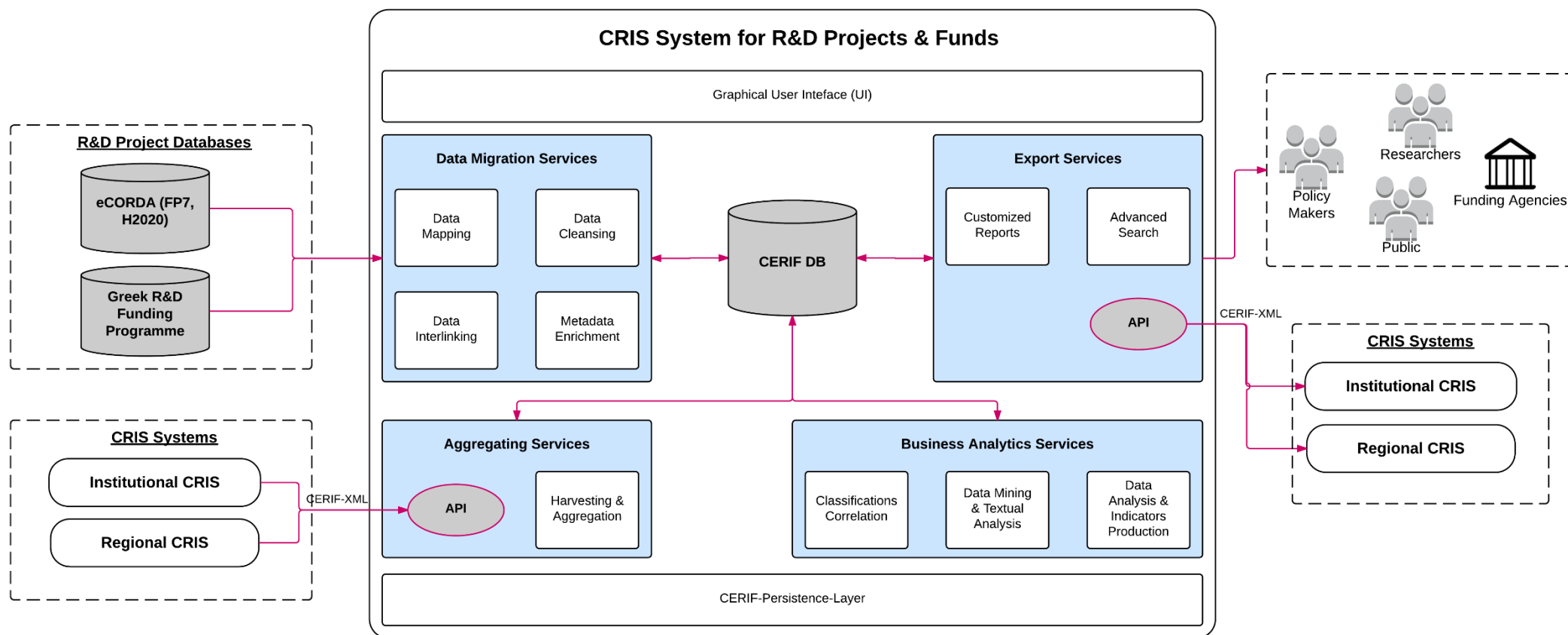
## Greek CRIS infrastructure – current state

- EKT provides support to institutions
  - CRIS software – including documentation for installation, configuration, usage
  - Online helpdesk for support (<http://helpdesk.cris.ekt.gr>)
  - Software distribution system
    - Including certification procedure, notifications for new releases, versioning
  - Semantics – vocabularies
  - Tools for data import to the CERIF database
    - CERIF XML
    - Excel / CSV and Dublin Core through an open source library (Biblio-transformation-engine, BTE)

# Greek R&D Projects & Funds System as CRIS

- Compiled a national registry of R&D Projects based on CERIF standard
  - EC and Greek funded R&D projects included
  - Projects from other funding schemes are managed as well
- Scope
  - Act as the National Registry of R&D projects providing knowledge to policy makers, researchers, businesses and the public
  - Provide smart search capabilities to businesses and researchers to collaborate
  - Used for benchmarking the collected micro-data for the national R&D statistics survey
  - Act as a data hub for automated data retrieval/submission from/to the institutional CRISs
  - Customized reporting for internal and/or external demands
- Data Entities involved
  - Projects, Funding Schemes, Organisations (Funders + R&D Performers), Products
  - Classifications (e.g. FOS, NABS, project types, organisation types, regional metadata, NACE etc.)
  - R&D Indicators (e.g. national R&D expenditure & personnel)

# Greek R&D Projects & Funds System as CRIS



# Greek R&D Statistics Management System as CRIS

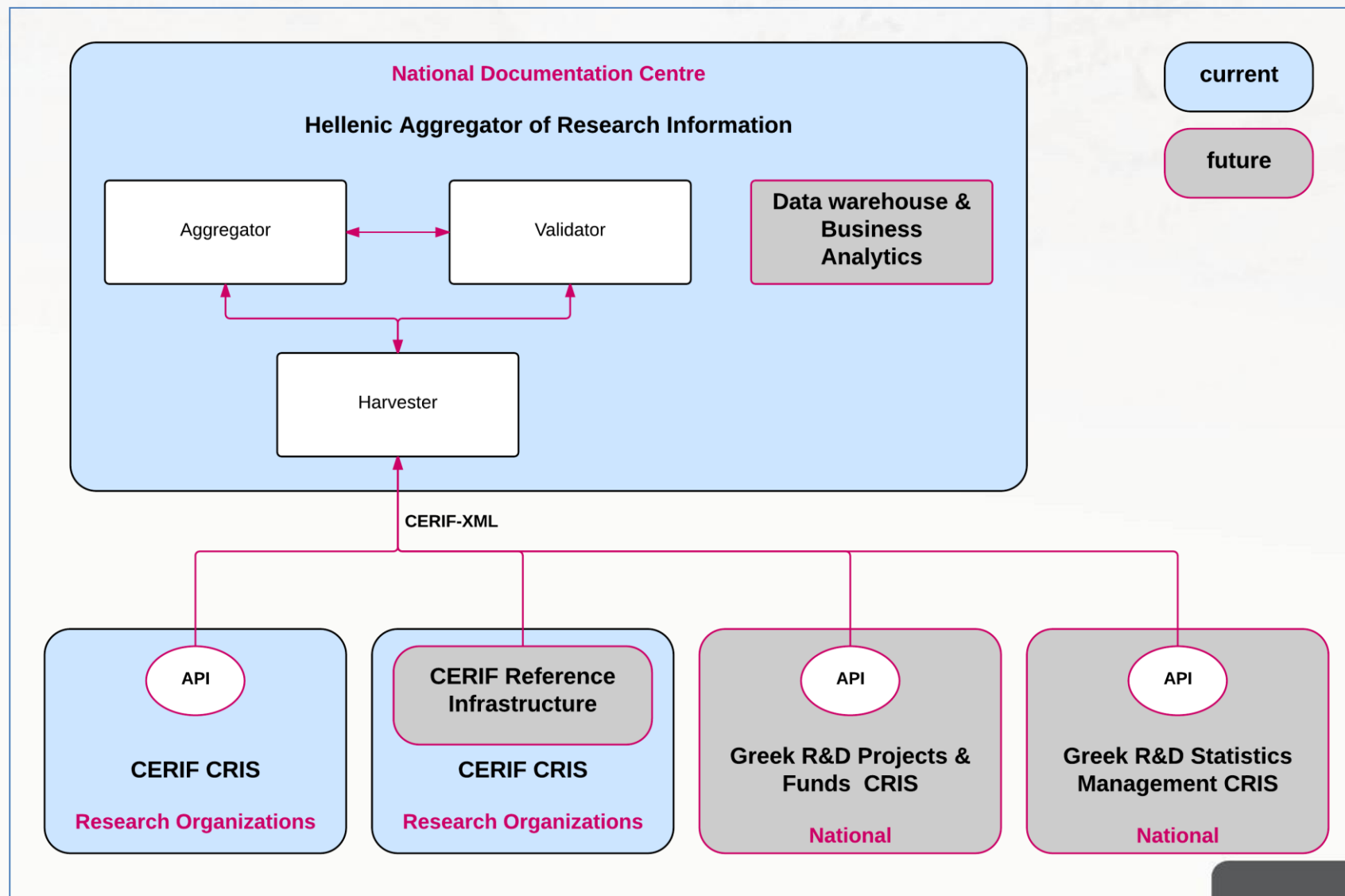
- R&D Data Management System (DMS)
  - Stores, interconnects and manages
    - Greek R&D Expenditure and Personnel data as collected via online data collection system (Eurostat - Commission Regulation 995/2012)
    - Organisations' profiles stored in the RDI national registry
    - Indicators as produced from primitive data
    - External R&D data sources as managed by EKT (e.g. FP7 projects etc.)
  - Goals
    - Single management point
    - Preservation and archiving (time series)
    - Data validation & estimation workflow
    - Benchmarking using external sources
    - Real time automated generation of indicators
    - Data exports (SDMX, CSV, Excel, JSON, CERIF-XML)
    - Reporting



## Greek CRIS Infrastructure – Next Steps

- **Integration Action at Organizational level:** creation of a national research information management board with representatives from ministries / research management addresses, public research financiers, operators with operational / technical expertise and research and academic institutions (Universities , research centers, etc.)
- **Integration Action at Operational level:** establishing common code of operation, adoption of common standards and research information management methodologies
- **Integration Action at Technological level:** developing additional technological infrastructure for seamless integration of all research bodies regardless CRIS system under use

# Greek CRIS Infrastructure – Vision





# Thank you for your attention

## Q&A

- More info:
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