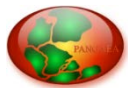


German Federation for Biological Data

Michael Diepenbroek

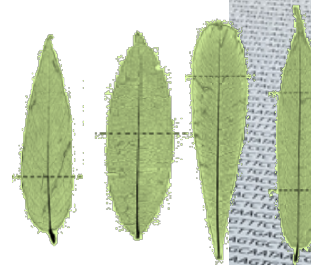


PANGAEA, MARUM – University Bremen

GEO-BON, Leipzig 2015-10-29

Overall goal

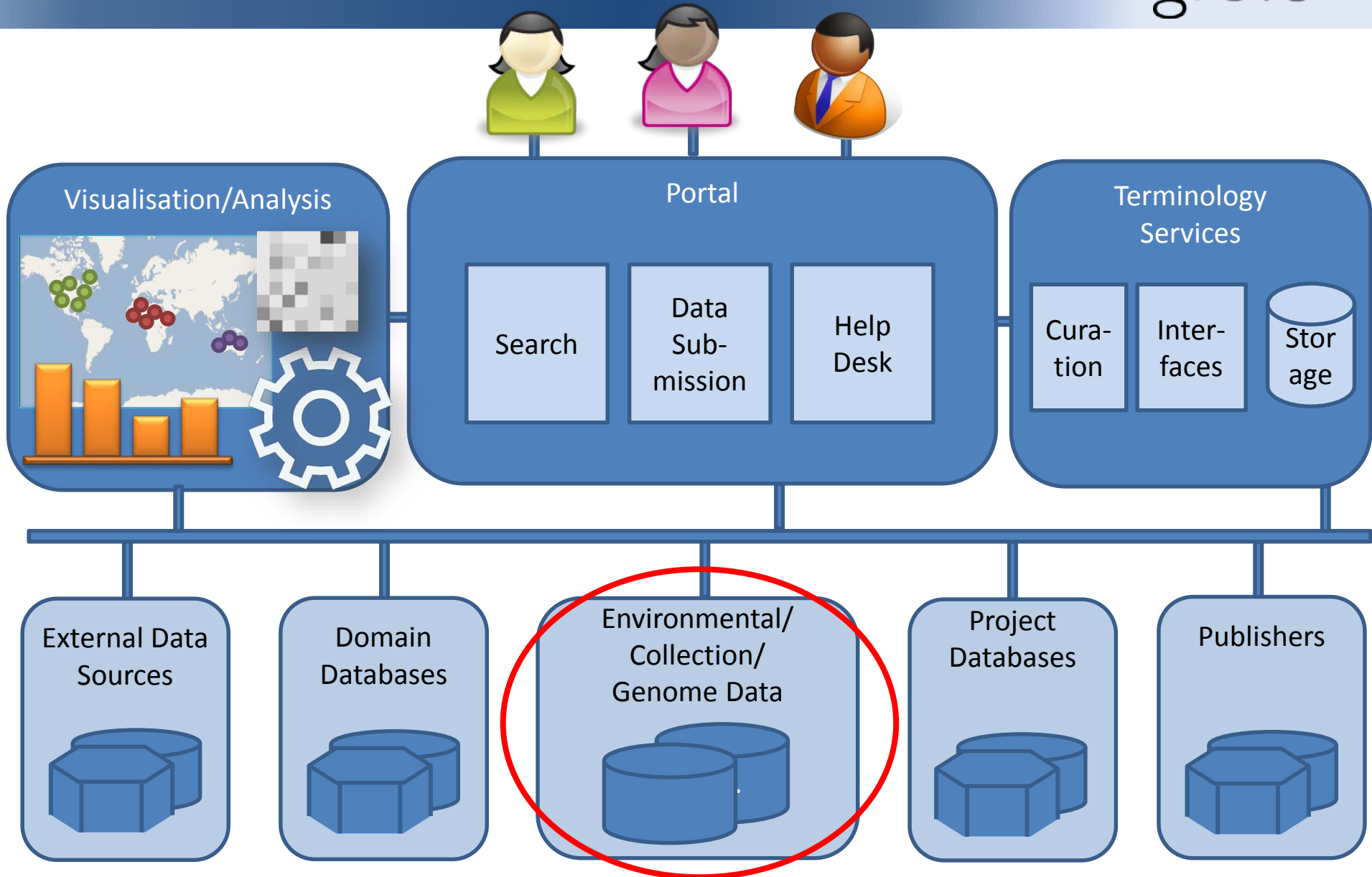
- Sustainable, service oriented, national data infrastructure facilitating data sharing & usage of biological and environmental research



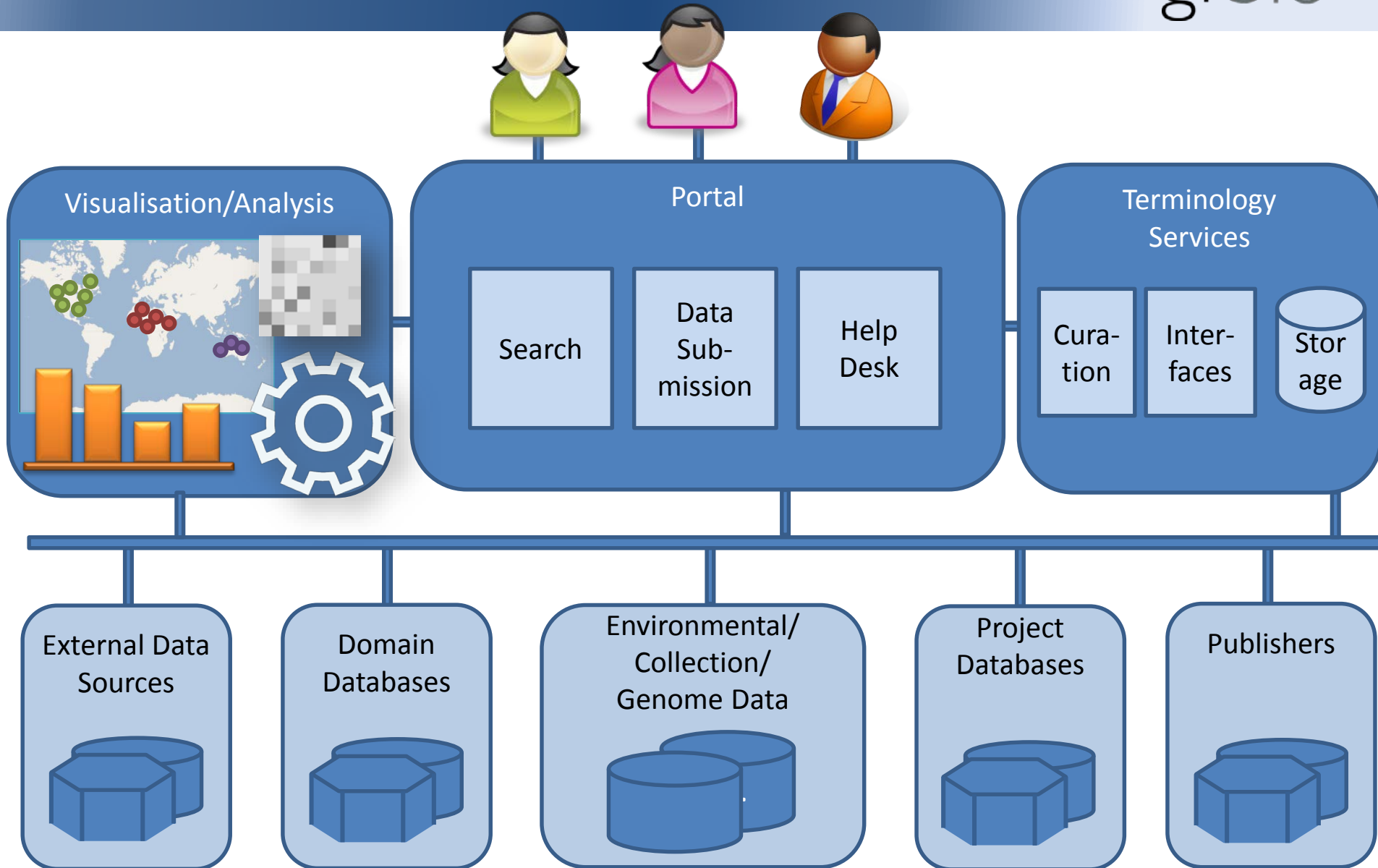
- **Data intensive science**

- Long term data preservation – the archive backbone
- Interoperability & standards
- Data discovery & access
- Data integration & (analysis)
- Data management as integral part of research !
- Management & sustainability

Long term preservation – the archive backbone



Interoperability & standards



Interoperability & standards

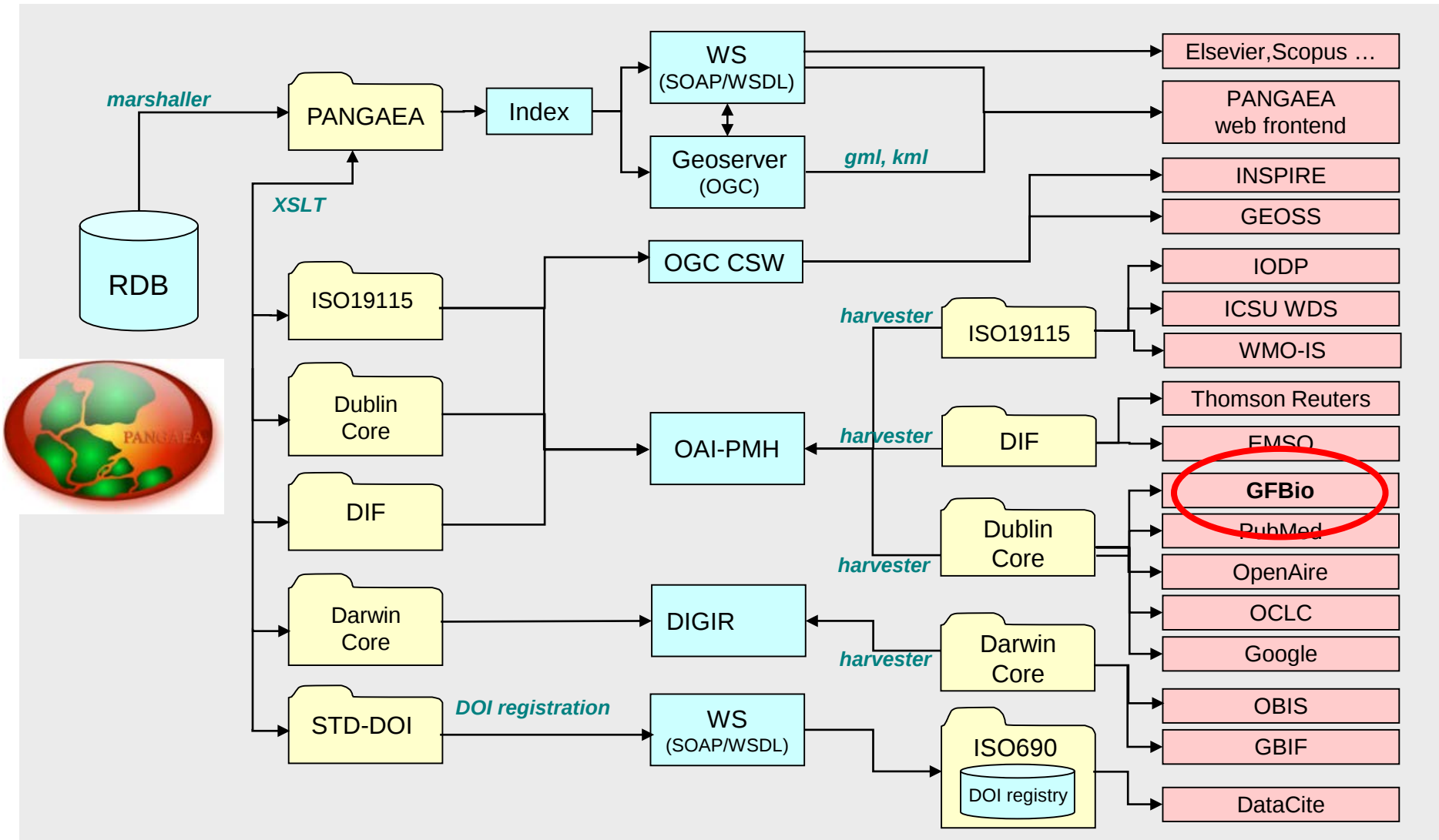
data management &
longterm archiving

catalogues

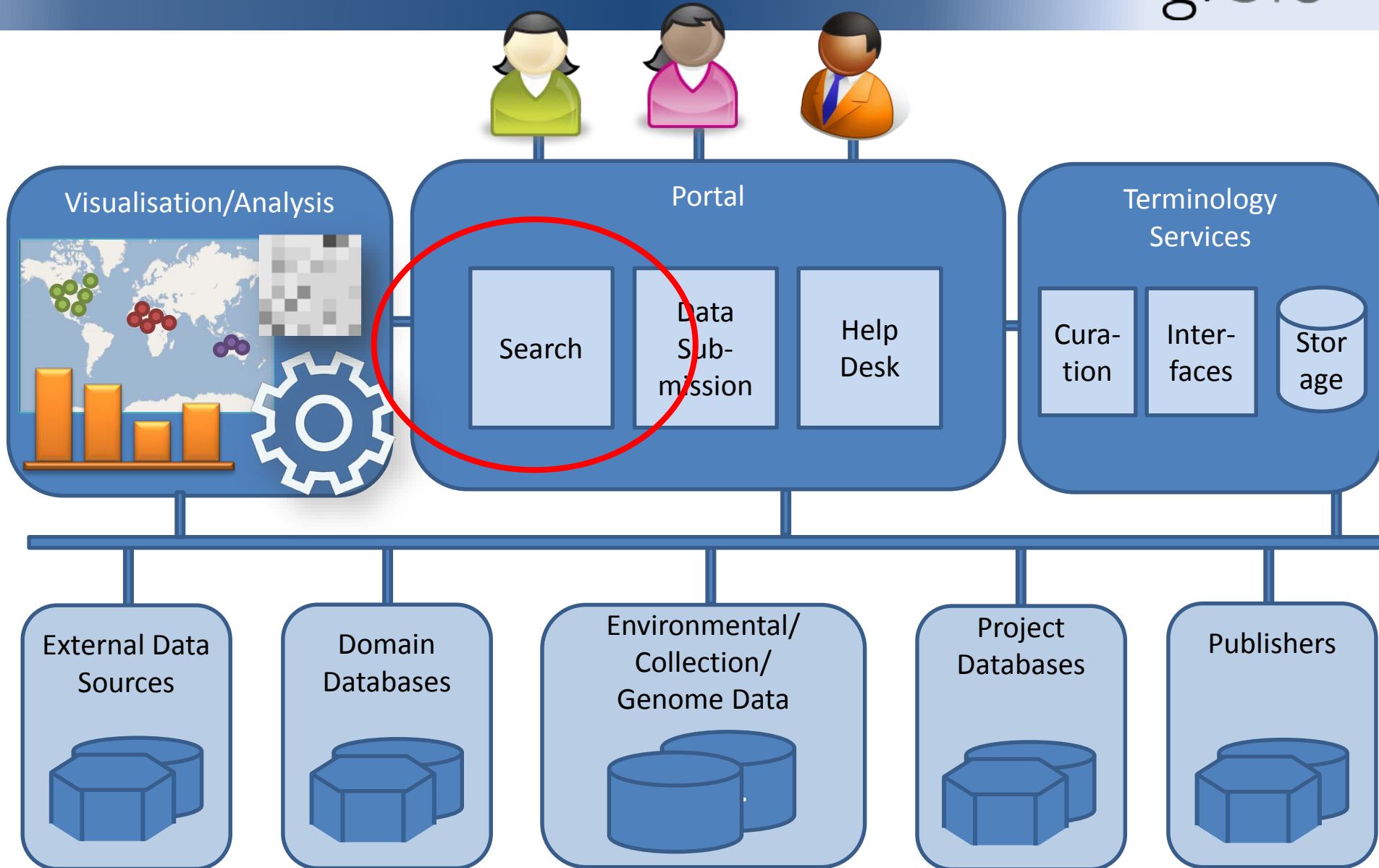
protocols

catalogues

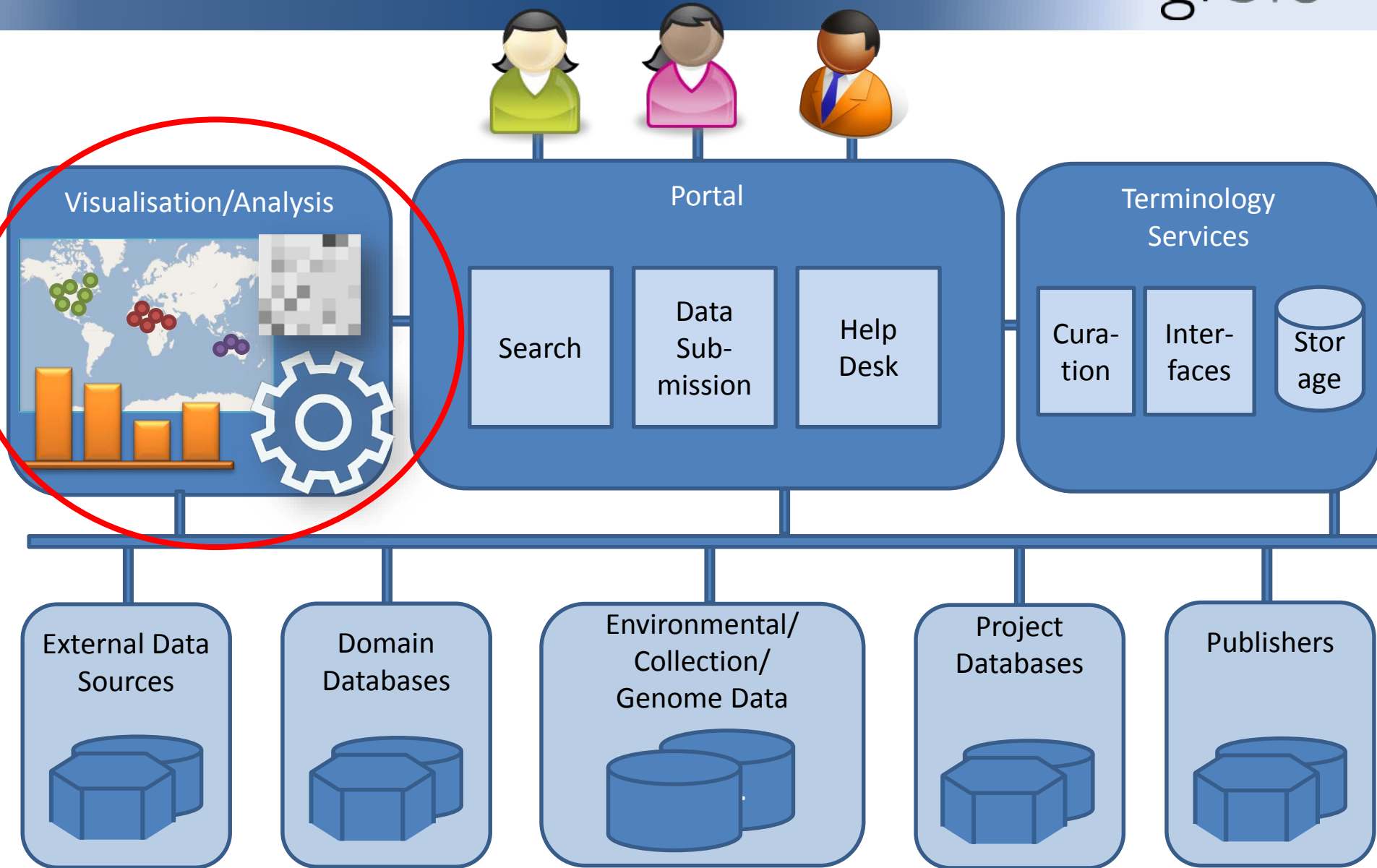
Frontends /
portals

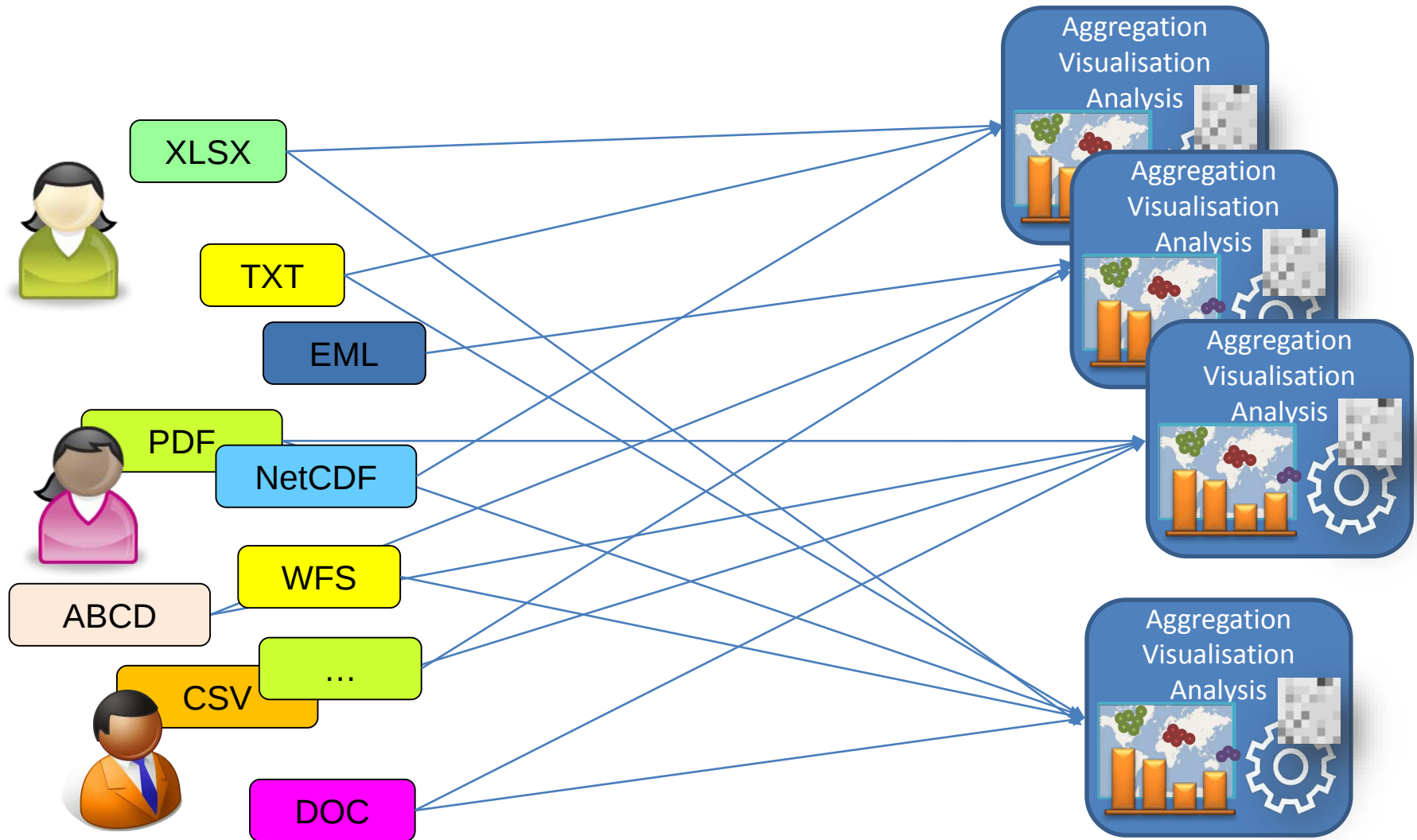


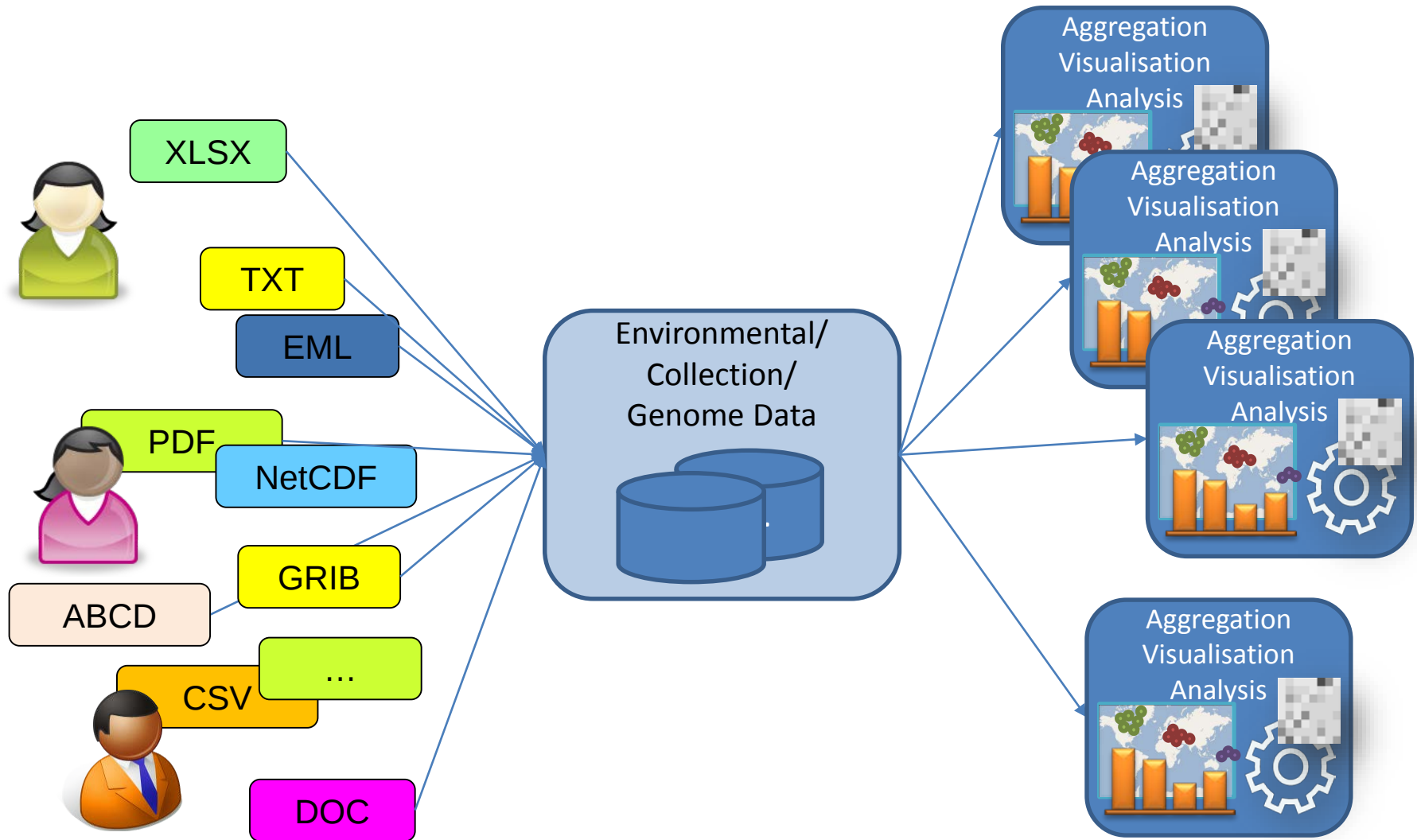
Data discovery & access

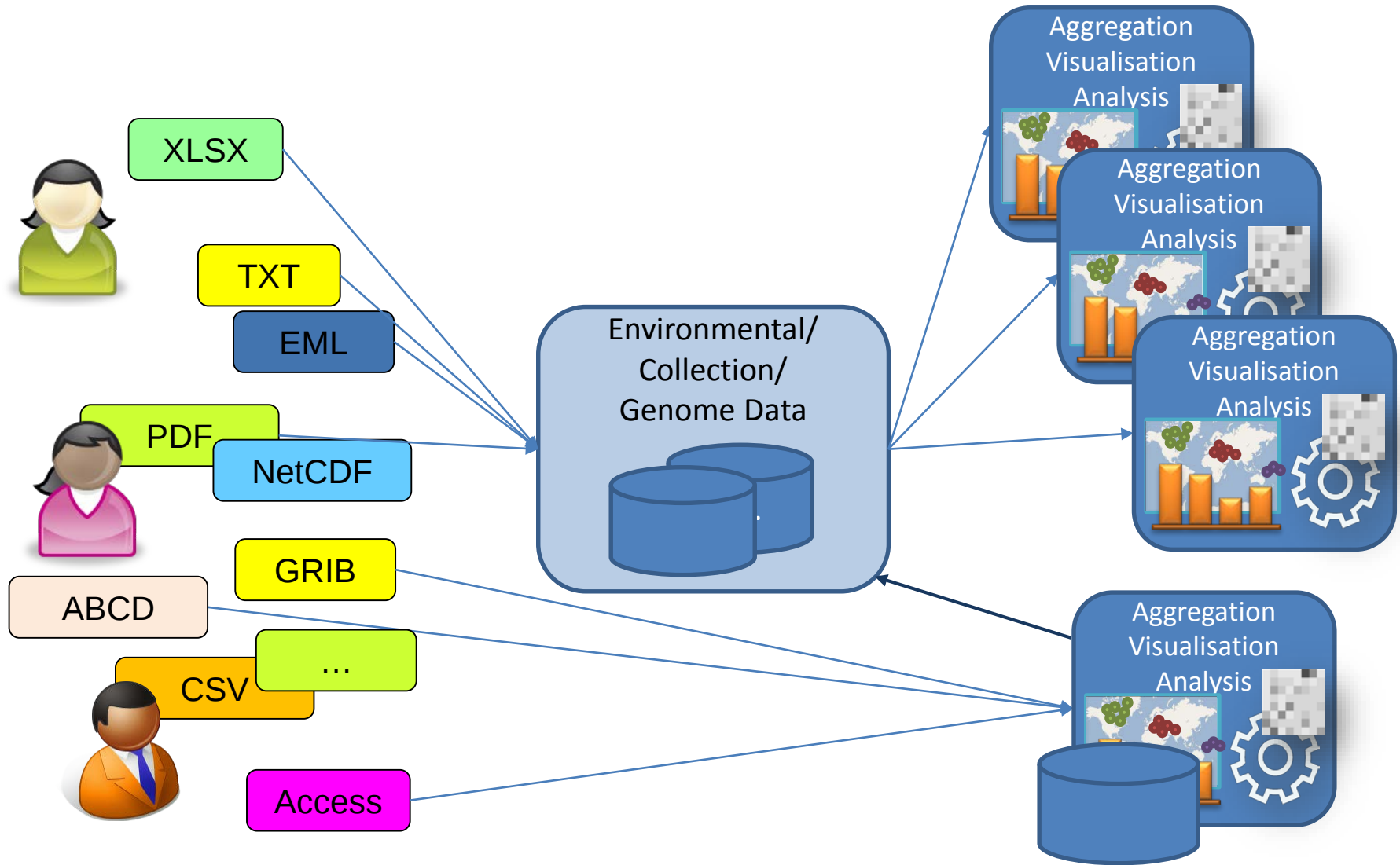


Data integration

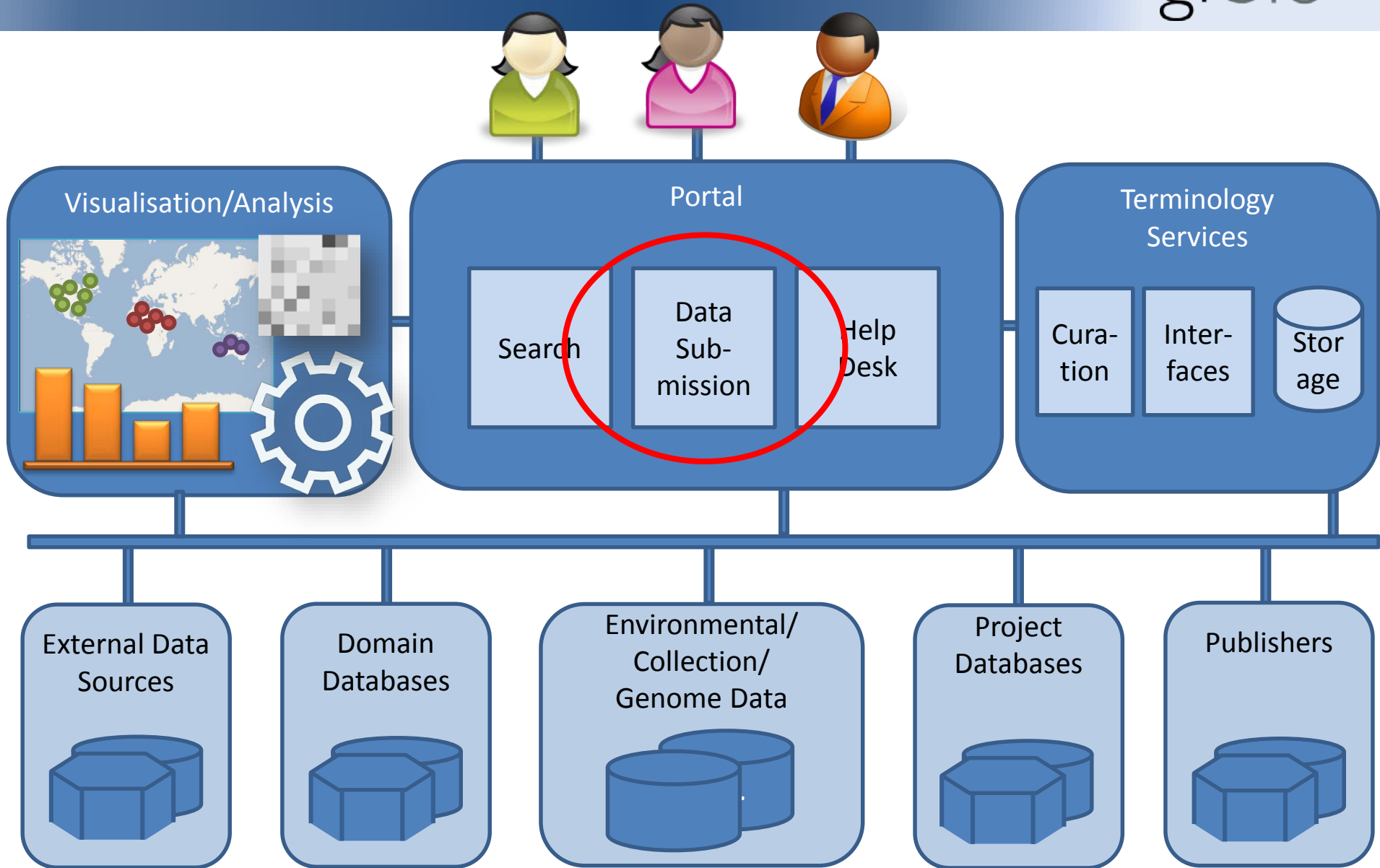


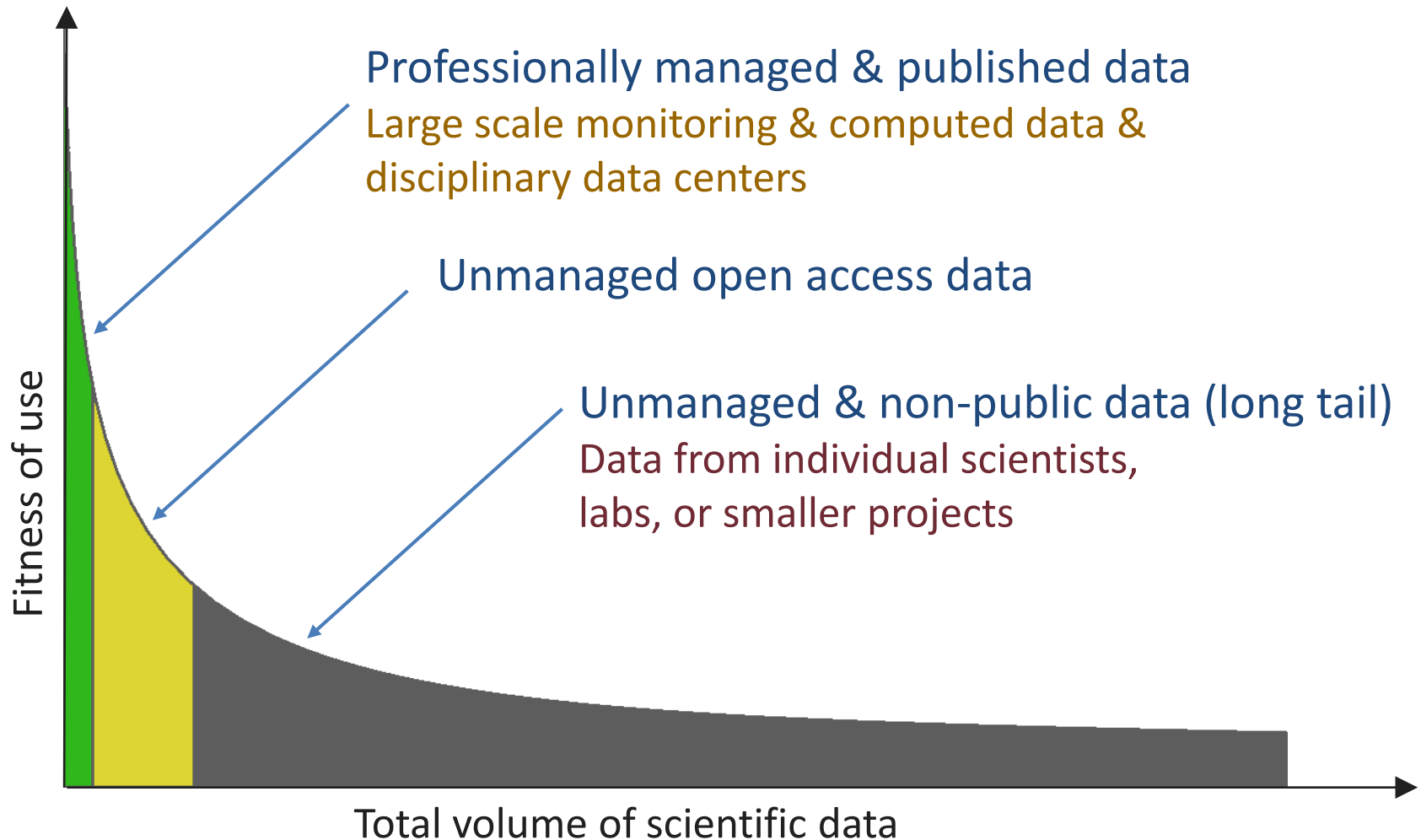






Data management as integral part of research





Data Publishing – Cross-referencing

Modern environmental con x

www.sciencedirect.com/science/article/pii/S0377839807000679

SciVerse ScienceDirect

Hub ScienceDirect Scopus Applications

Uwe Schindler Logout Go to SciVal Suite

Home + Recent Actions Browse Search My settings My alerts

Export citation PDF (1953 K) More options...

Search ScienceDirect Search

Show thumbnails in outline

Abstract

Keywords

1. Introduction



2. Regional setting

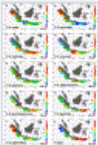
3. Materials and methods

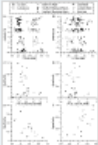
Table 1.

Table 2.

4. Results

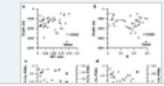
Table 3.





5. Discussion

5.1. Effect of dissolution





Marine Micropaleontology

Volume 65, Issues 1–2, 29 October 2007, Pages 96–112

Modern environmental conditions recorded in surface sediment samples off W and SW Indonesia: Planktonic foraminifera and biogenic compounds analyses

Mahyar Mohtadi^{a, b}, Lars Max^b, Dierk Hebbeln^{a, b}, Anne Baumgart^c, Nils Krüick^c, Tim Jennerjahn^c

^a Center for Marine Environmental Sciences (MARUM), University of Bremen, 28359 Bremen, Germany
^b Geosciences Department, University of Bremen, 28359 Bremen, Germany
^c Center for Tropical Marine Ecology (ZMT), Fahrenheitstr. 6, 28359 Bremen, Germany

Received 23 April 2007. Revised 19 June 2007. Accepted 20 June 2007. Available online 6 July 2007.

<http://dx.doi.org/10.1016/j.marmicro.2007.06.004>, How to Cite or Link Using DOI

Permissions & Reprints

Abstract

A total of 69 surface sediment samples from several fore-arc basins located west and southwest of the Indonesian Archipelago was analyzed with respect to the faunal composition of planktonic foraminifera, the stable oxygen and carbon isotopic signal of a surface-dwelling (*Globigerinoides ruber*) and a thermocline-dwelling (*Neoglobobulimina dutertrei*) species, and the opal and CaCO₃ contents in bulk sediment. Our results show that the distribution pattern of opal in surface sediments corresponds well to the upwelling-induced chlorophyll concentration in the upper water column and thus, represents a reliable proxy for marine productivity in the coastal upwelling area off S and SW Indonesia. Present-day oceanography and marine productivity are also reflected in the tropical to subtropical and upwelling assemblages of planktonic

PANGAEA® – Related Data

Surface sediment samples from several fore-arc basins located west and southwest of the Indonesian Archipelago. CaCO₃ contents in bulk sediment.



POWERED BY Google Earth imagery ©2011, Map data ©2011 - Terms of Use

Related articles

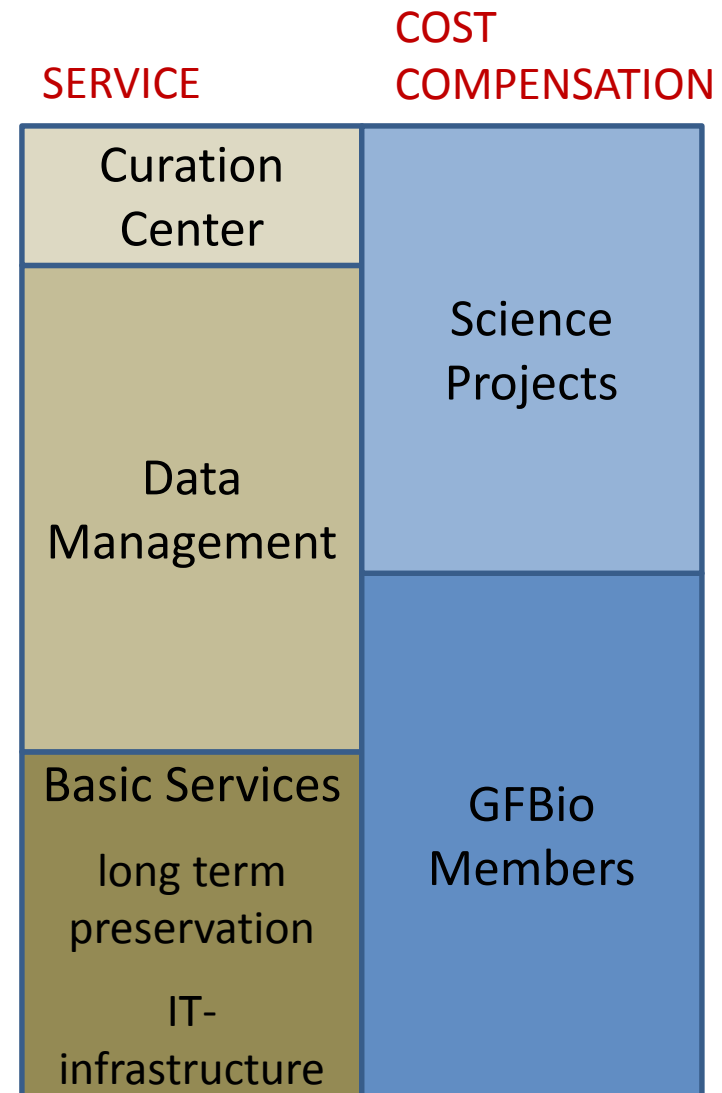
- Direct evidence for nitrogen isotope discrimination in planktonic foraminifera. *Organic Geochemistry*
- Stable isotopes of planktonic foraminifera from the Gulf of Thailand. *Marine Micropaleontology*
- Comparison of the Compositional, Microbiological and Geochemical Data from the Gulf of Thailand. *Journal of Dairy Science*
- A quadra-directional decomposition heuristic for the analysis of planktonic foraminifera. *Computers & Operations Research*
- Development of a 1H NMR structural-reporter for the analysis of planktonic foraminifera. *Carbohydrate Research*

View more related articles

Share

Facebook Twitter LinkedIn

- Legal framework
 - INSPIRE
 - Nagoya Protocol
 - Umweltinformationsgesetz
- Policy support
 - National (funding provisions)
 - International (Belmont)
- Consortial data management
- Lean IT-infrastructure
- Flexible membership & services
- Self-interest of members



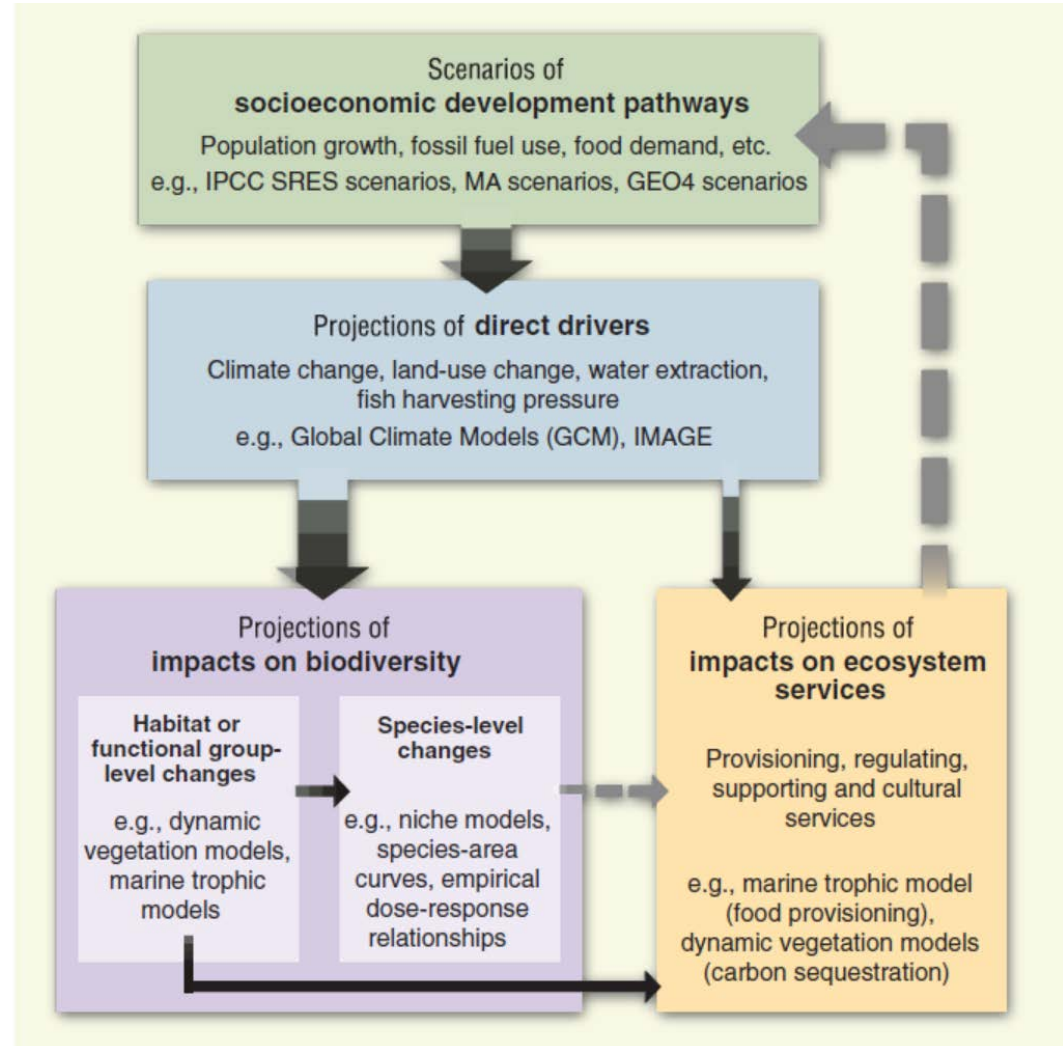
ScenNet Framework

Management

- Promotion of data management

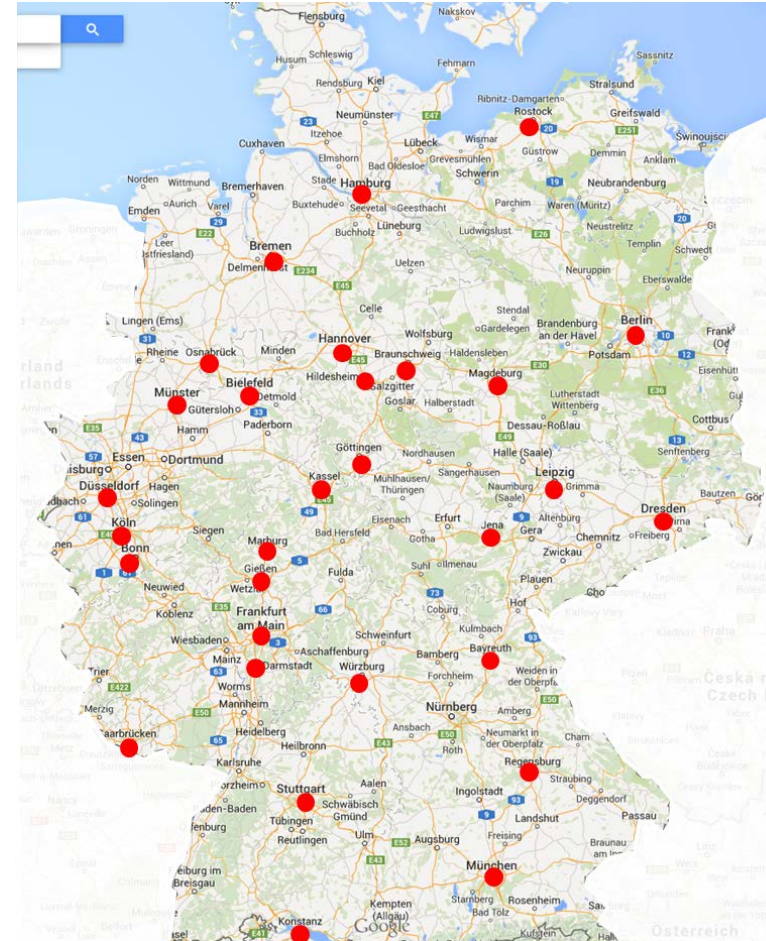
Pereira et al. (2010) Science

Fig. 1: Overview of methods and models commonly used for constructing biodiversity scenarios



- Large scale distributed project
- 19 partner institutions
- 81 participants (funded & in kind)
- Multidisciplinary consortium

Goal: Operational infrastructure



Sustainability !

