

Concept for the implementation of transnational data exchange within D4D

Status report of „GIS Forum Danube“ WP1 and WP2

Presentation of : *via donau*

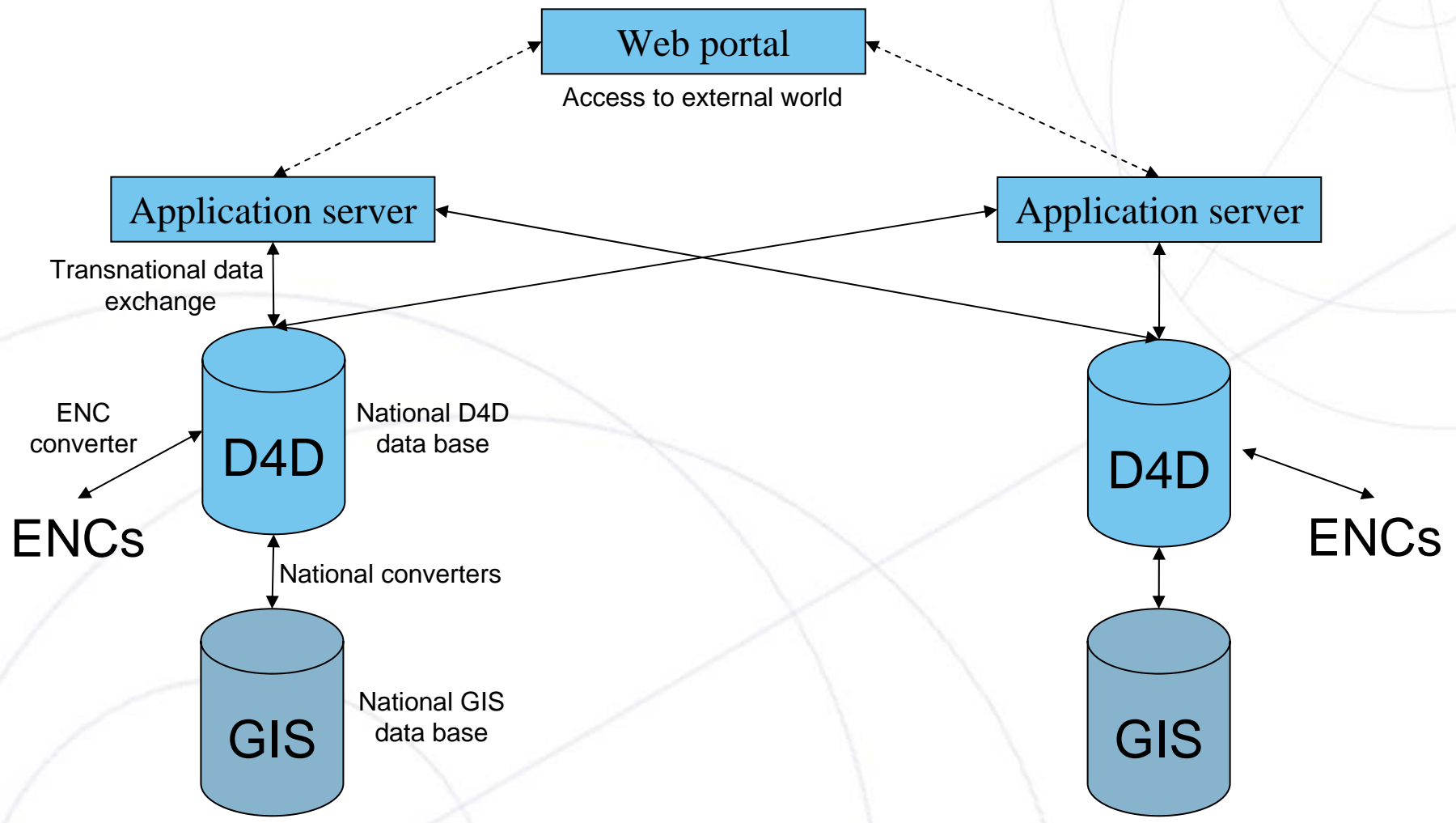
via donau

Dieter Hintenaus, September 16, 2004

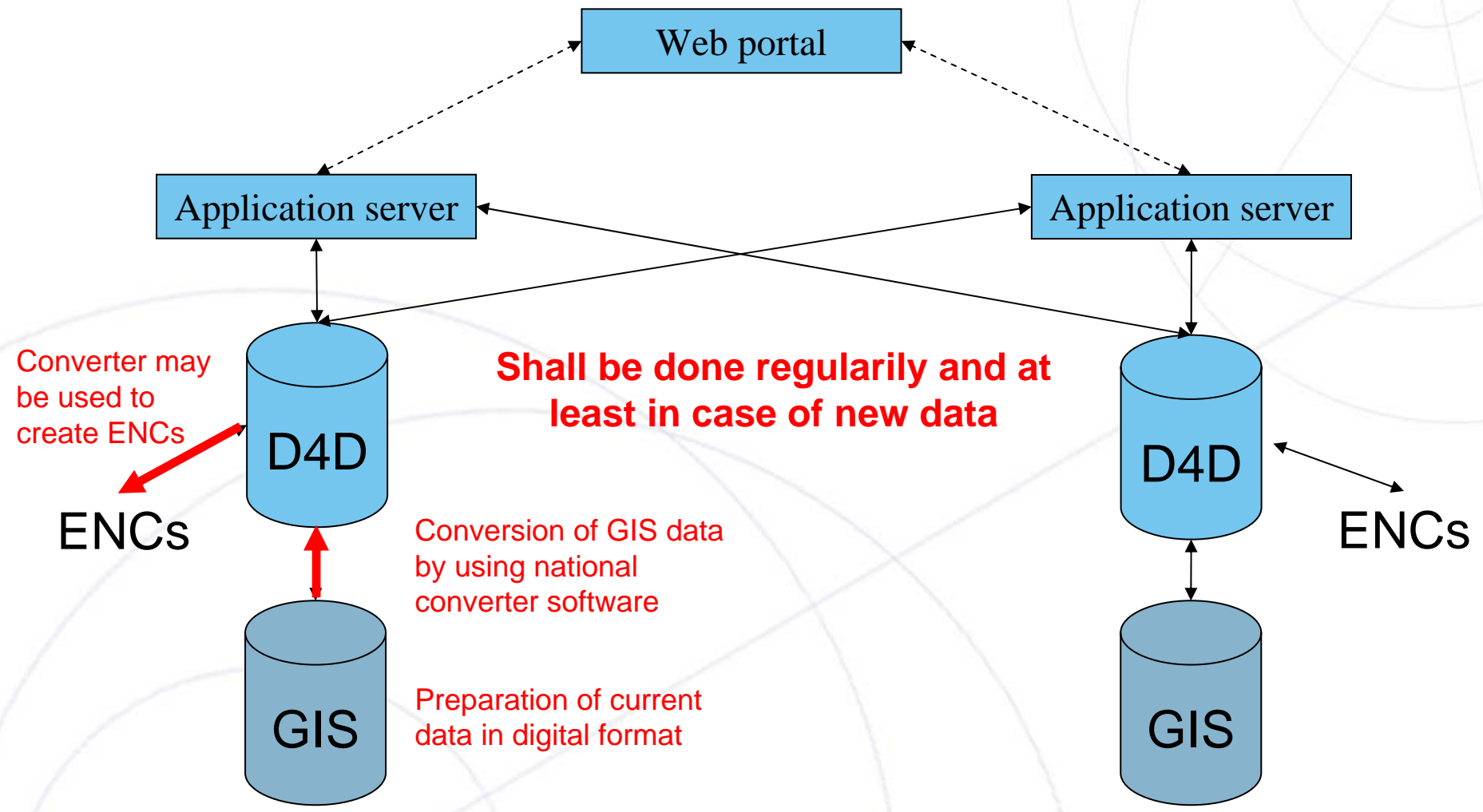
Introduction

- Concept was worked out by SAG, subcontracted by German partners
- Discussions in Vienna in June 2004 led to additional results
- Concept has been provided in written form by via donau
- Main decision by the „GIS Forum Danube“:
Implementation as a distributed data base network
 - no complicated agreements among participating countries
 - clear separation of responsibilities for maintenance and provision of data.

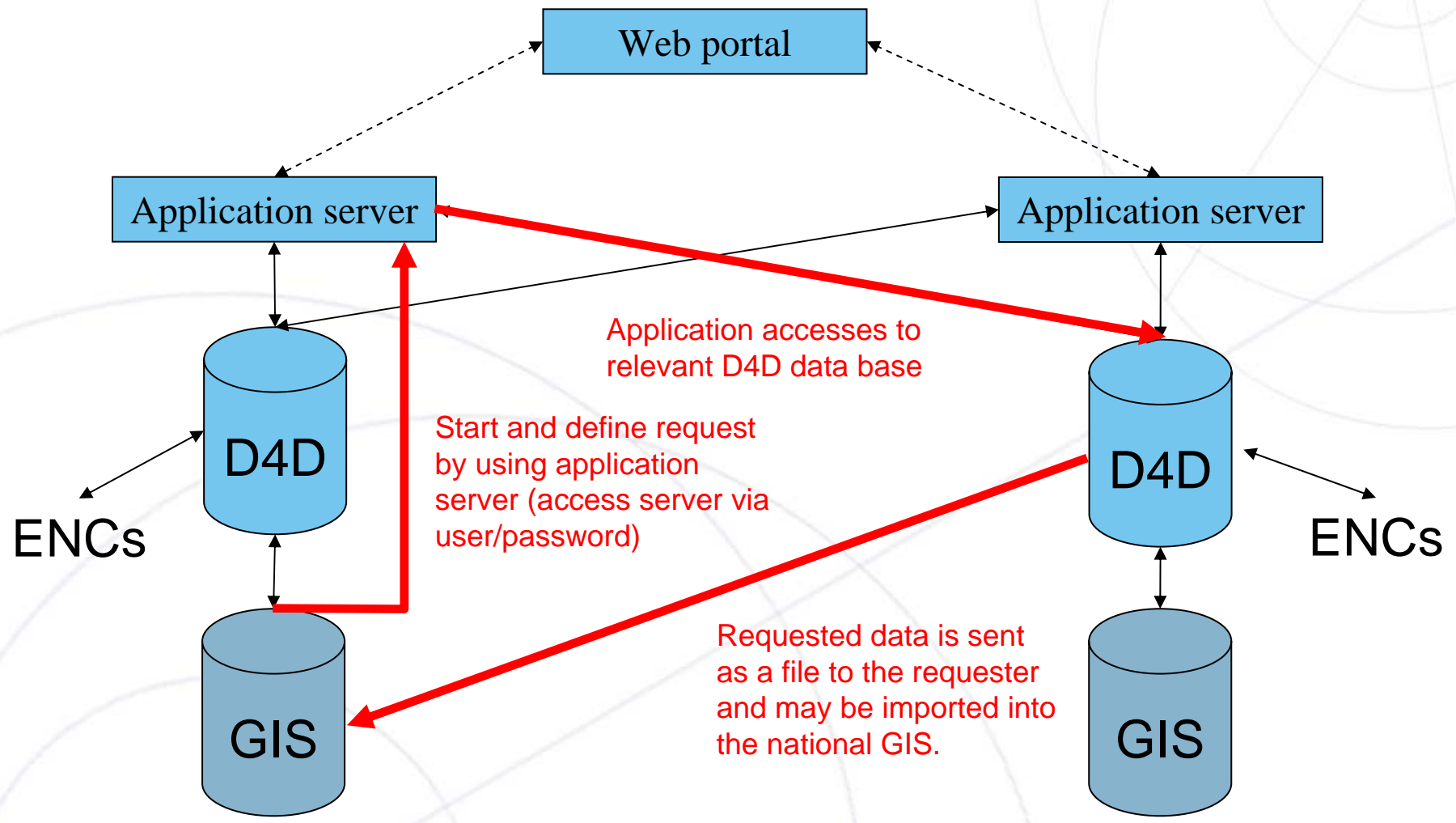
Concept overview



Work flow – Provision of data



Work flow – Data exchange

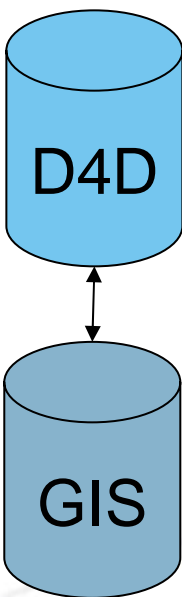




National data base

- National GIS shall remain as they are (as much as possible)
- National GIS data shall be prepared in order to be able to be converted into the D4D format
- Basis shall be the D4D object catalogue (including clear definition, which data is mandatory)

National converters



- Conversion of national GIS data into D4D format
- Shall be done fully automatically
- **High priority:** All countries shall check their conversions of national geodetic systems into WGS84
- Additional technical specifications have been defined within WP1

D4D data base



D4D

- Basis for data format is the D4D object catalogue
 - worked out within WP2
 - maintained by via donau (for the time being)
- Common geodetic system is WGS84 as in Inland ECDIS
- Possible solutions are discussed in WP1

Application server

Application server

- Handles the connection between the national D4D data bases
- Forwards queries to the relevant D4D data base and returns requested data
- Provides restricted password access
- Additional security via
 - Firewalls
 - SSL (secure data transfer)
 - VPN (will be too expensive)

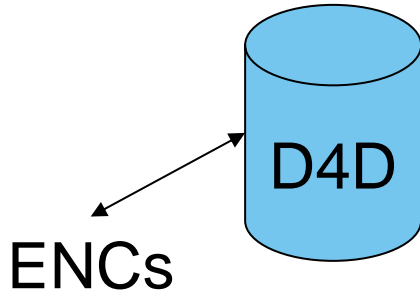
Web portal

Not to be implemented for the time being. Data exchange is meant to be an internal exchange.

Each country may provide only own data to external world.

May be a task for upcoming future.

ENC converter



- Development subcontracted by German partners
- Equal for all countries and provided to all partners of the GIS Forum