

EuroBoundaries

The project of EuroGeographics for up-dating the
European Boundaries Network

heinz.koenig@bev.gv.at

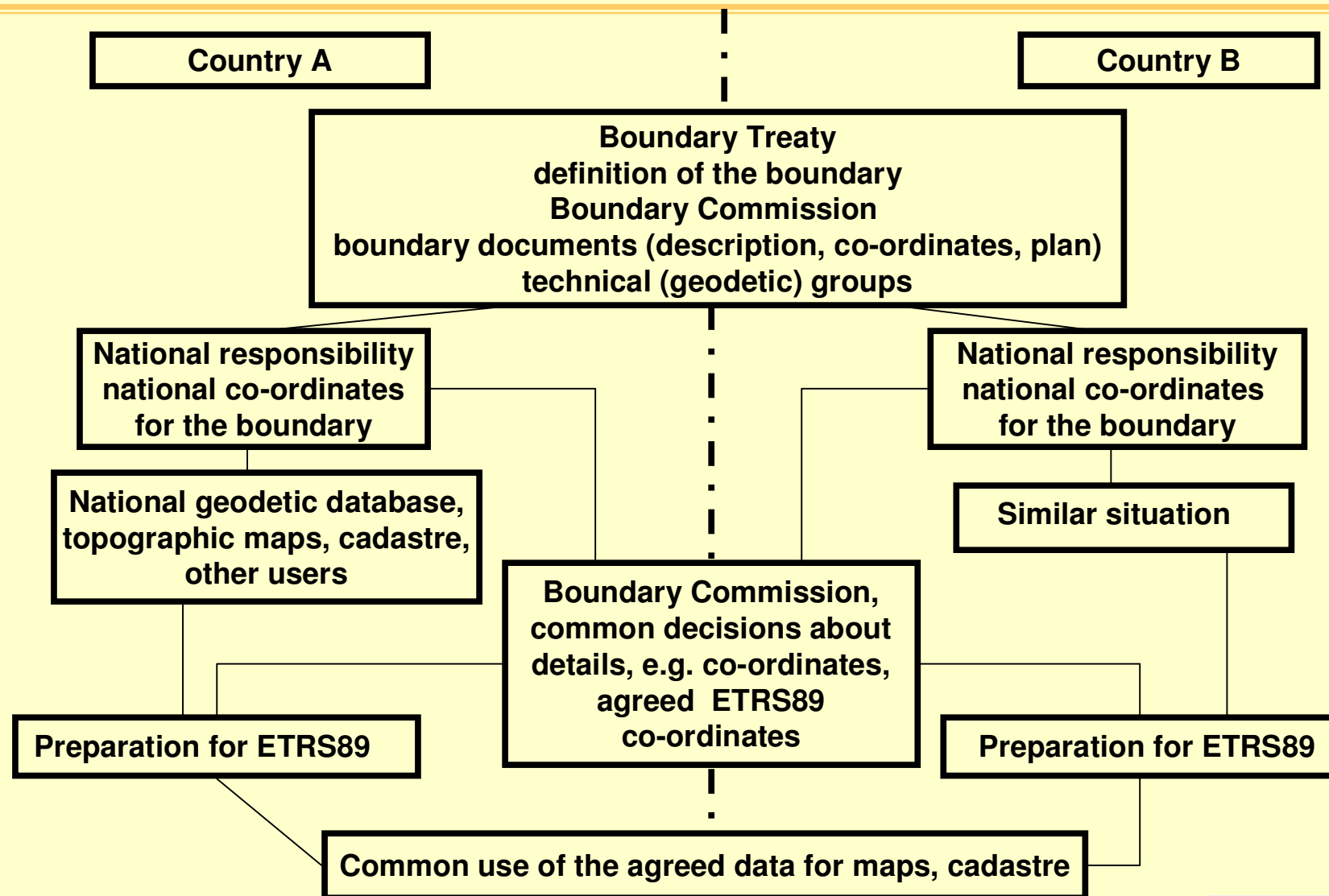
Situation and Facts

- **Topographic aspects**
 - EuroRegionalMap
 - Neighbouring topographic maps
 - Traffic lines of neighbouring countries
 - Hydrography
- **Geodetic aspects**
 - EUREF, ETRS89
- **Administrative frame**
 - EuroSpec
 - SABE
- **Legal frame required for boundaries**
 - National regulations (responsibilities, legal framework, database)
 - Bilateral regulations (boundary treaty, definition, documents)
 - International regulations (European, EuroGeographics)

Assumptions and Analysis

- **Existence of a state is based on three main elements (International Law):**
 - **the state's territory** (including the national boundaries)
 - **the state's people**
 - **the state's own constitution and authority**
- **National boundaries as administrative boundaries**
 - **Administrative part** (international, national, other regulations)
 - **Boundary as technical and geodetic task** (geodetic measurements, documentation, maintenance, identical datasets for other products)
- **Two Working Groups:**
 - **Data Model Working Group** (DMWG), headed by Robert Balanche, swisstopo
 - **Administrative Issues Working Group** (AIWG), headed by Francois Chirié, IGN-France

Boundary Treaty, Commission, Documents, Use



Administrative Issues Working Group (AIWG), headed by Francois Chirié, IGN-France

Administrative issues means a lot of national, bilateral and international **regulations, laws** or **projects** that have to be taken into consideration:

• National regulations:

- **Who is responsible** for the national (bilateral) boundaries, for the boundary commission?
- **Link** to topographic and cadastral **maps** !
- **Dissemination** of boundary data

• Bilateral regulations:

- boundary treaty; agreed boundary documents; common boundary commission

• International projects:

- Co-operation with the other EG projects (EuroSpec, ERM, EGM, SABE, EUREF), ExGroups, influence of INSPIRE?

Data Model Working Group (DMWG), headed by Robert Balanche, swisstopo

The target is to create a EB data model:

- Management of the **current** legal status of the boundary
- Information about the **accuracy**, the **validity** and **reliability** of each point and the definition of each boundary.
- The co-ordinate system must be **ETRS89**
- The EB-DMWG must define the data model **description language** and the **data transfer format**
- The data model description must be **system and software independent**
- The EB data model will represent the **minimum requirement** that each country has to achieve; they will be free to extend this EB data model for their own requirements

The Project Plan

- **The following Working Packages are provided**
 - **WP1: Project Management**
 - **WP2: Scope and Strategy** (on the base of a questionnaire)
 - **WP3: EBDB Technical Definition** (develop a data model, catalogue of features and attributes, data)
 - **WP4: EBDB Prototype** (testing with actual boundary data)
 - **WP5: Proof of the Concept** (testing with other EG projects, end of phase 1 of the project by the end of 2006)
 - **WP6: Implementation Plan** (beginning of phase 2 offers the tested tools of EB to the European countries)