

EuroGeoNames Workshop 2

Information model

Objectives:

Agree on the

- Types of features the business user wants names for
- Data quality
- Attribute information necessary
- Kind of questions we allow to be asked by
 - intermediate users
 - end users
- discuss whether we allow for phased approaches or regional approaches

Data Sourcing

- Is it the role of the NMCAs to provide the geographical names information?
- If they are not competitive yet, the EGN project will be an incentive for NMCAs to extend their names databases
- In doing this, e.g. public private partnerships might be called for
- EGN will act as catalyst here
- If we go for a simple names model now, should it allow for extensions later?

Lowest common denominator approach:

- Source: 1:250 000
- Feature categorization
- Feature co-ordinates (11 countries) or name coordinates (7)
- No other attributes in common by all 15 countries,
 - feature object ID: 12
 - statistical classification (8)
 - name status (7)

So,

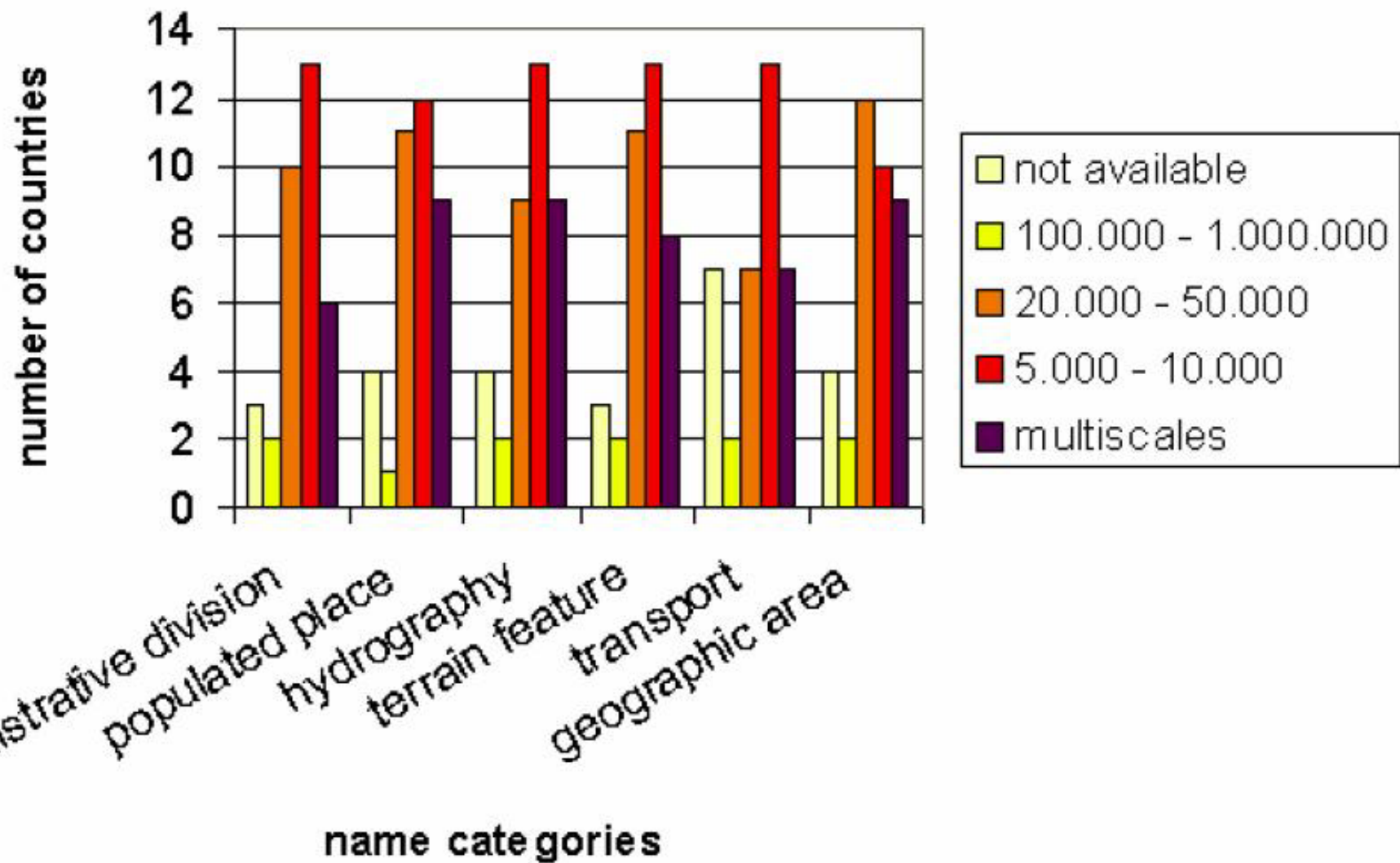
- If we go for lowest common denominator, we will not attract any customers
- Some NMCAs will want to show there is more possible with their database, so
- Should we allow for inhomogeneous, regionally differentiated coverage?
- Counting on the fact that more countries will upgrade their databases?
- Or go for simple homogeneous model and extend it later?

Types of features the business user wants names for:

Name categories

-Place names

- River names/hydrography
- Mountain names/terrain features
- Points of interest names
- Road names/Transport feature names
- Street names ?
- Field names
- Names of buildings
- names of physical regions, islands
- names of protected areas



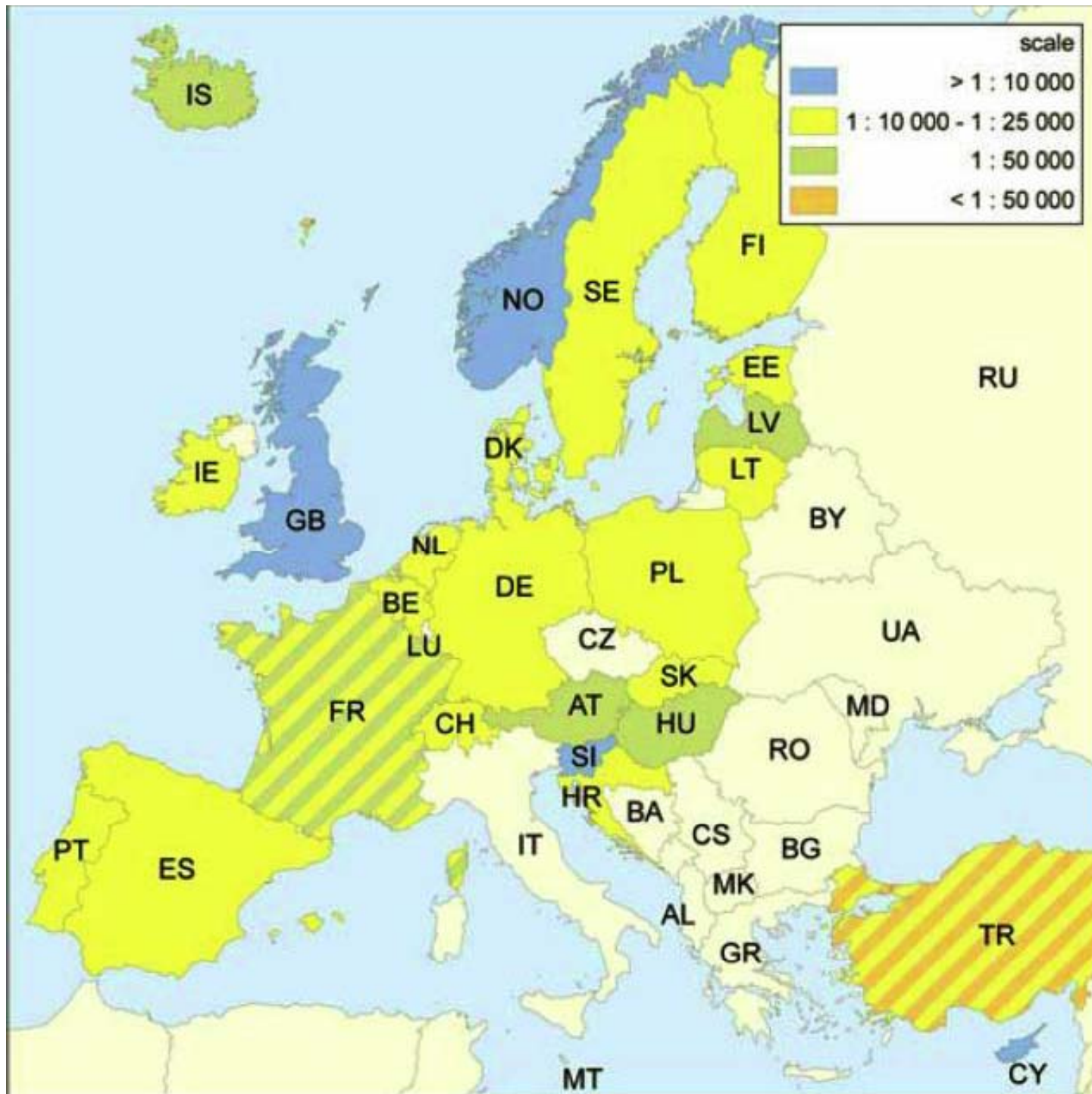
Availability of name categories

Proposed feature categorisation?

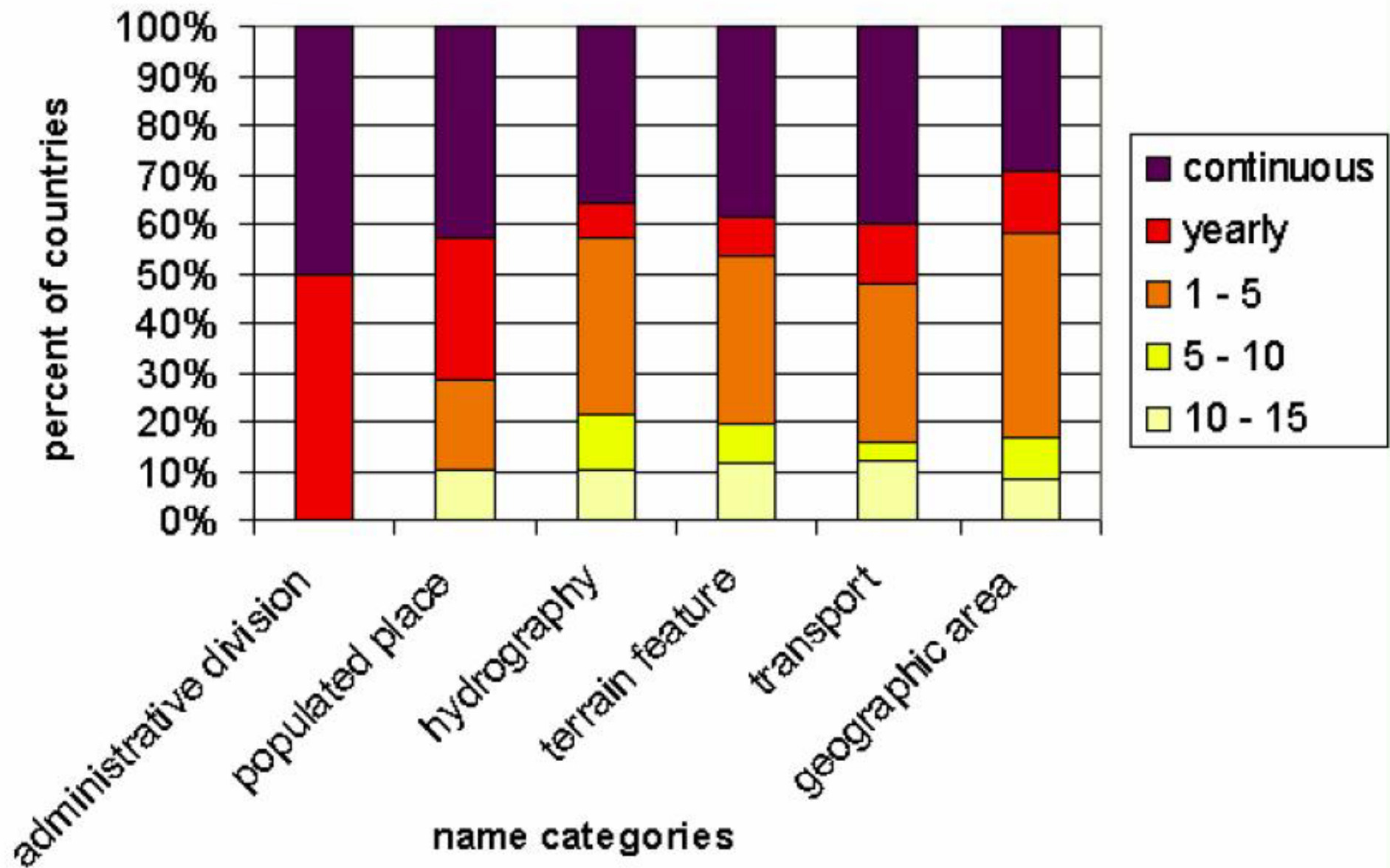
- Settlement names
- Names of Administrative regions
- Hydrographic names
- Orographic names
- **Traffic feature names**
- (Area feature names)

Quality needs

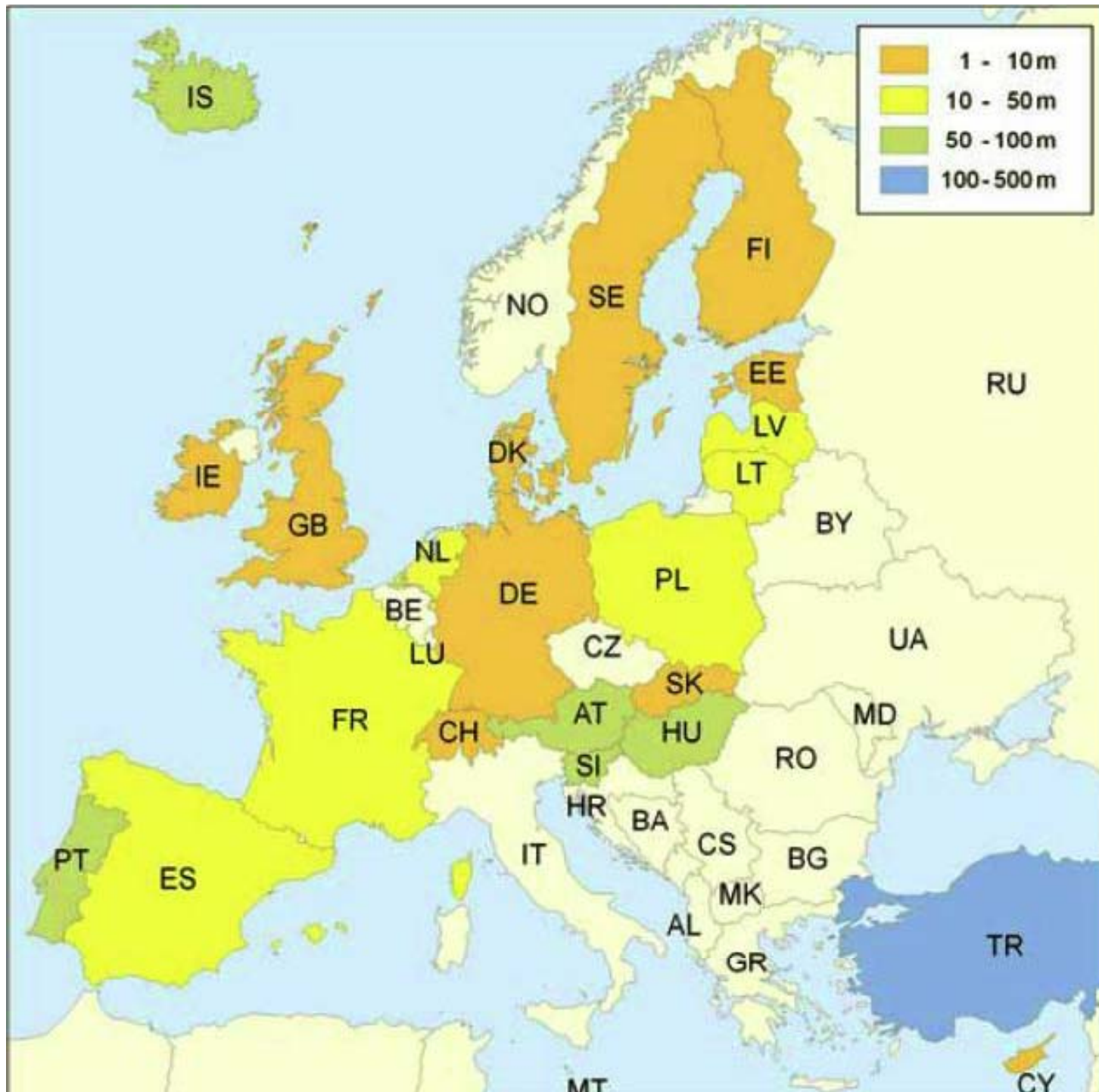
- Completeness/homogeneous coverage (see scale of source documents)
- Up-to-dateness
- Geometric precision
- Orthographic correctness



Scale of source documents



Updating frequency



Coordinate precision

Orthographic correctness

- Character sets used?

Quality needs?

- Completeness/homogeneous coverage (see scale of source documents) > 1:50.000?
- Up-to-date-ness \geq 1 year
- Geometric precision \geq 50 m
- Orthographic correctness > allow for all relevant ISO codes, Unicode (16)

Attribute needs for **official names**

- Variant names
- Translated names (exonyms)
- **Feature Coordinates WX84**
- **Lat/long/decimal**
- Coordinates of name
- Textual Description (adm.region)/narrative
- Height (point features)
- Population number (for settlements)
- Name source
- Unabbreviated names
- Pronunciation
- Gender
- Language/script
- Postcodes
- Administrative codes
- **Object ID**
- Name status
- **Feature category**
- Feature status/condition
- Time frame/histor.names
- Scale reference

Functionality needed: what questions do we allow to be asked?

Server should allow us to find features

- On the basis of their **name**
- On the basis of their co-ordinates
- On the basis of wrongly spelled names/wildcards
- On the basis of their exonyms
- On the basis of first letter combinations

Functionality needed

Server should allow us to find attribute information on named objects/features

- Number of inhabitants
- Lengths of rivers, heights of point objects
- pronunciation
- Synonyms/variant names/exonyms
- **Coordinates, postcodes**
- Feature Ids
- Name status, gender, definiteness
- Map sheet where name occurs

Functionality needed

Server should allow us to find all names:

- of specific object category
- Within specific bounding box, area or map sheet
- From specific language
- All exonyms from specific language
- That answer to combination of attribute criteria
- Within given distance of specific feature

Functionality needed

- Server should be operational 24/7
- Server should allow us to see the names we queried for on the map
- Server should allow us to find the name of an object
- Should there be different user classes with different rights? Anonymous users with restricted use rights (single requests), registered users more extended use rights (batch requests)?

Decision on functionality?

- Query by object name (also variant name, exonym)
- Query by object type/feature type
- Query by bounding box (defined rectangle) or adm area
- Query by coordinates (names>coordinates and vv)
- Query by combinations (feature type+area)