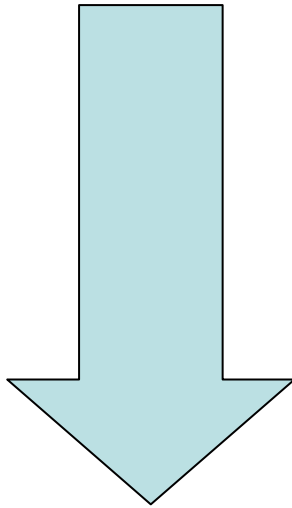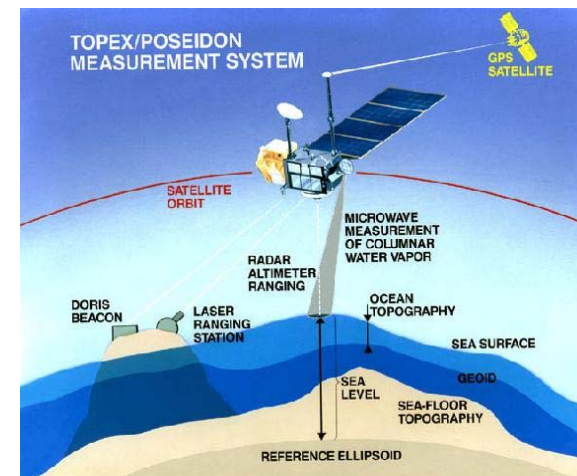# European SEA level Service

ESEAS

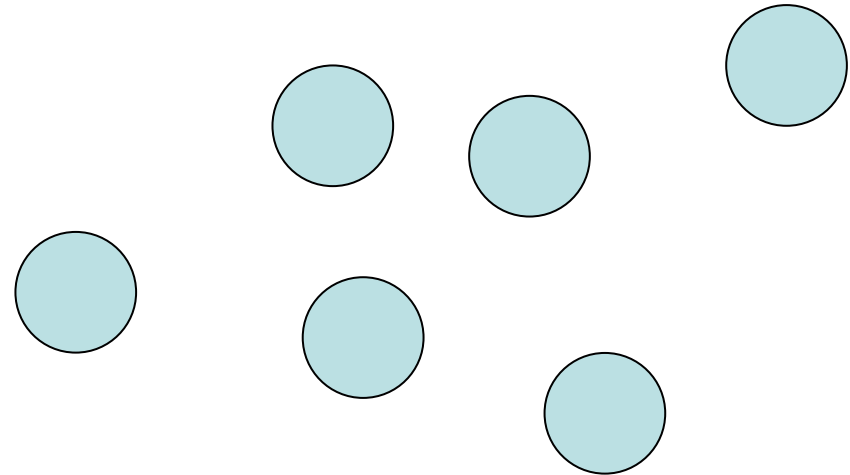a way to European sea level data, information and derived products

The user of sea level data in Europe faced:

Scattered data

Scattered access
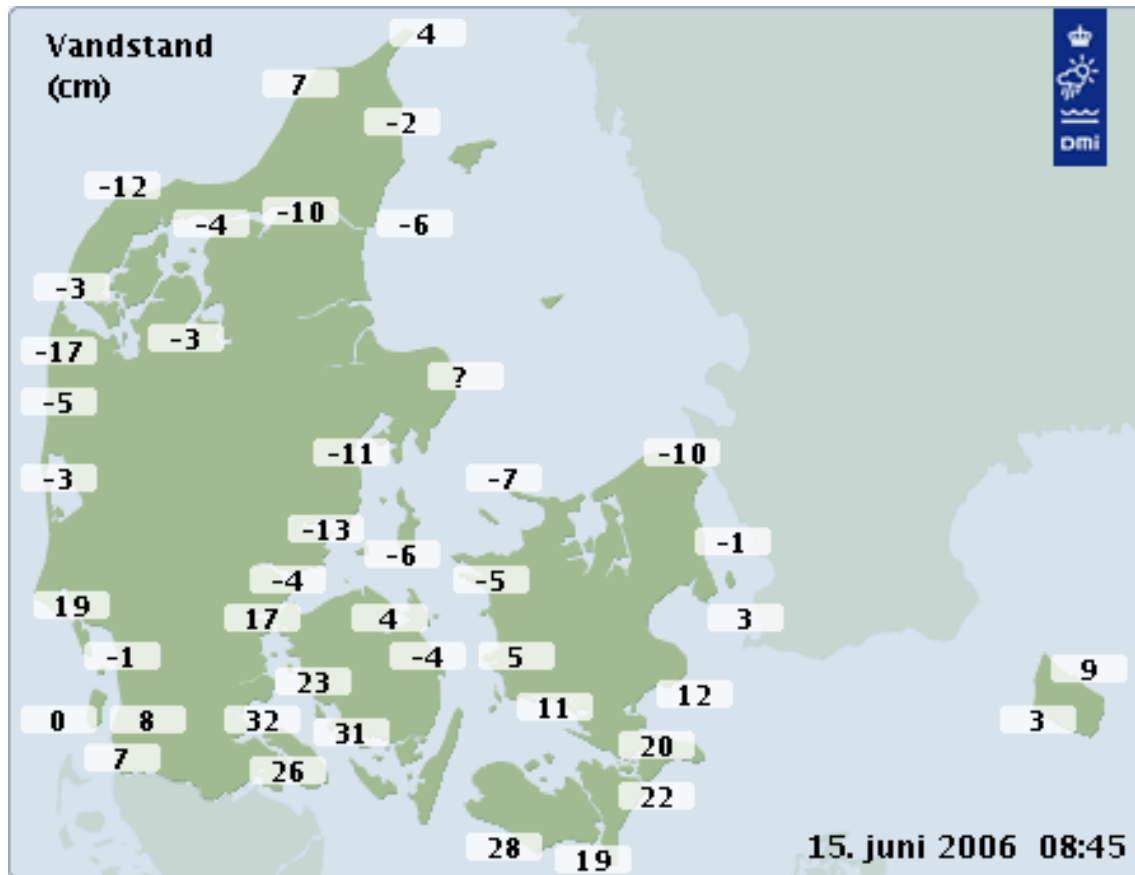
Different formats

No operation standards

No quality assurance standards

No co-ordination of observations

No standards for products and information

Tide gauges in Denmark are operated by different organisations
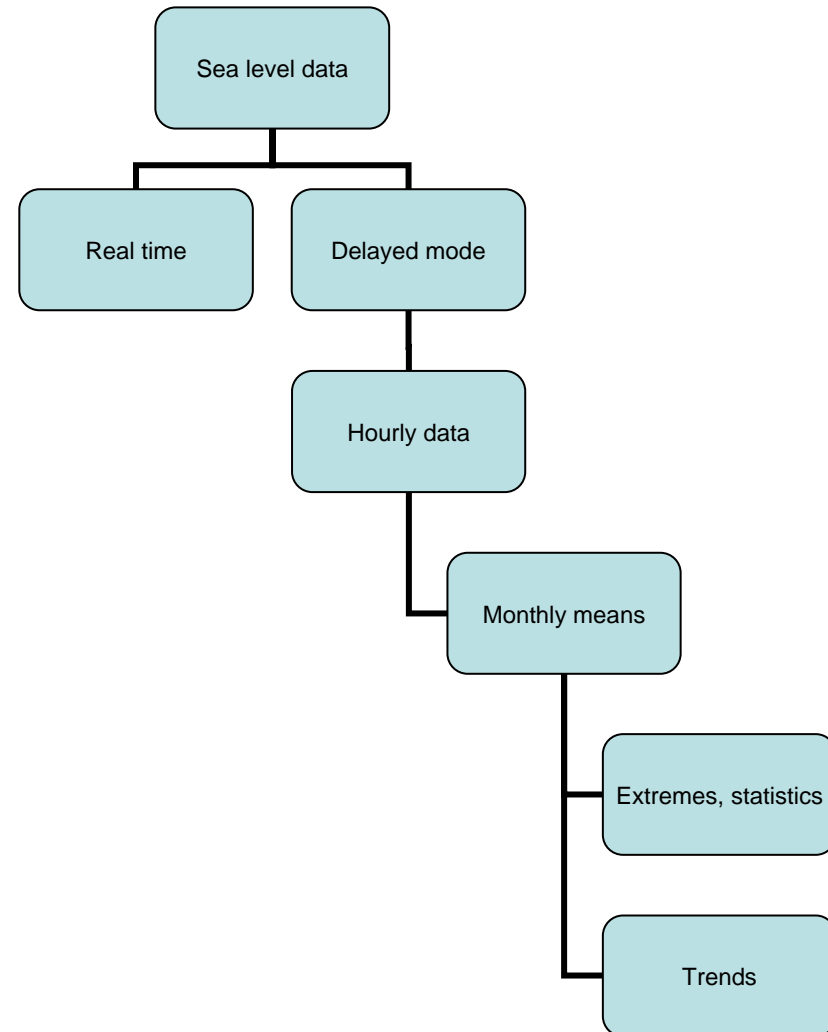
80 tide gauges in

Danish waters

The user of sea level data in Europe needs

- Data overview – meta data
- A data portal for easy access
- Standards for the operation of tide gauges
- Standards for quality assurance
- Co-ordination of observations
- Upgrade of tide gauges
- Standards for products and information
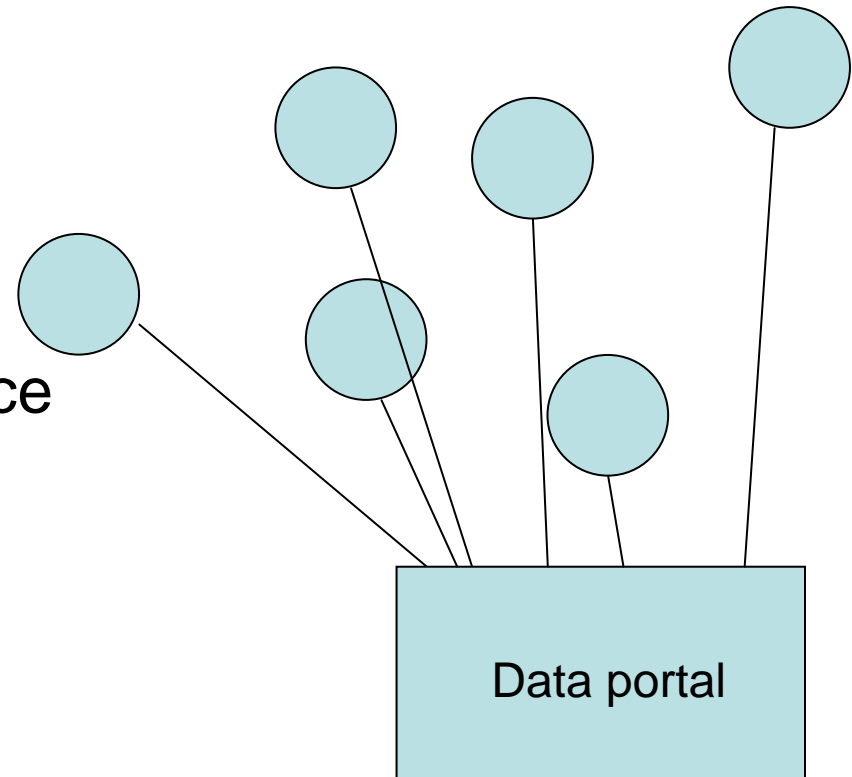
Data portal

ESEAS fulfils the needs for quality assured sea level products

- Near real time access to sea level data via a data portal
- Hourly data sea level data via a data portal
- Monthly means
- Extremes and long term statistics
- Rates of change and long term trends
- Topography maps
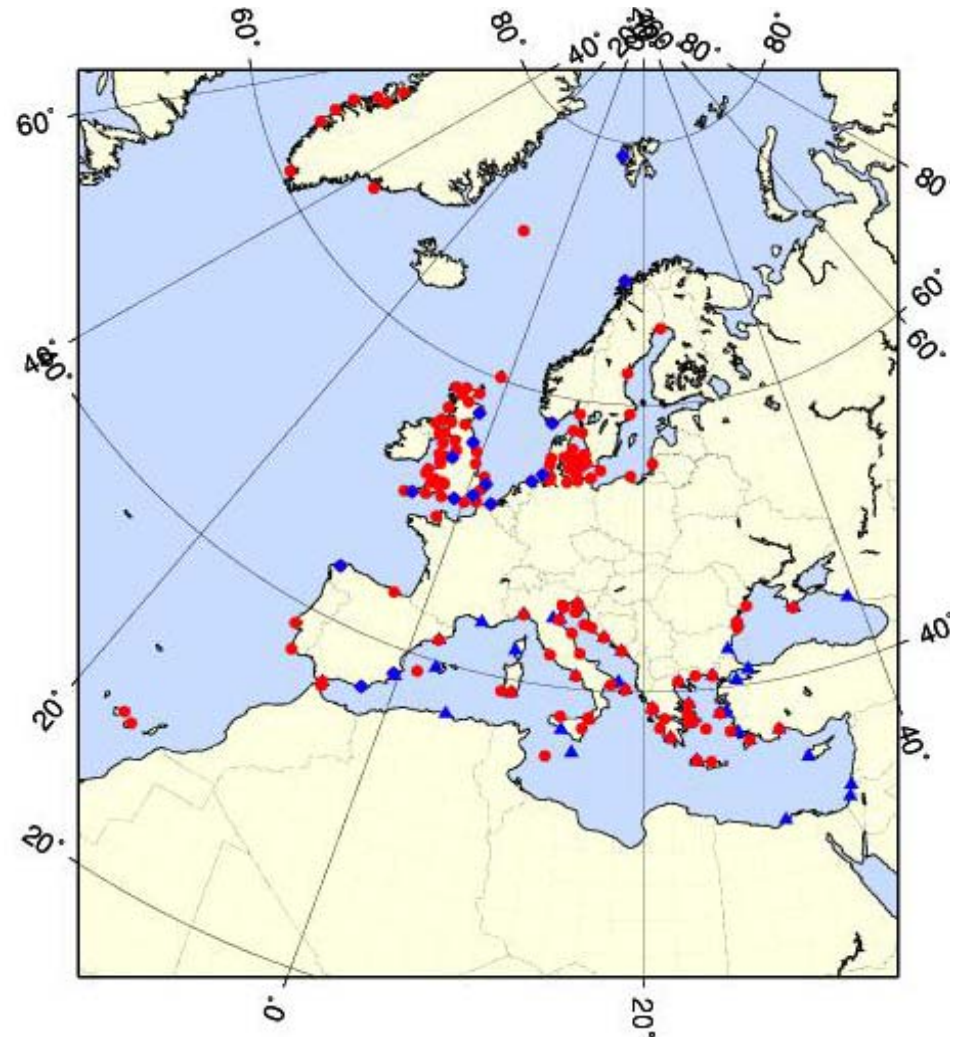- Crustal vertical motions
- Absolute gravity

```
Sea level data
├── Real time
└── Delayed mode
    └── Hourly data
        └── Monthly means
            ├── Extremes, statistics
            └── Trends
```

ESEAS is for
scientists and non-scientific users

Network
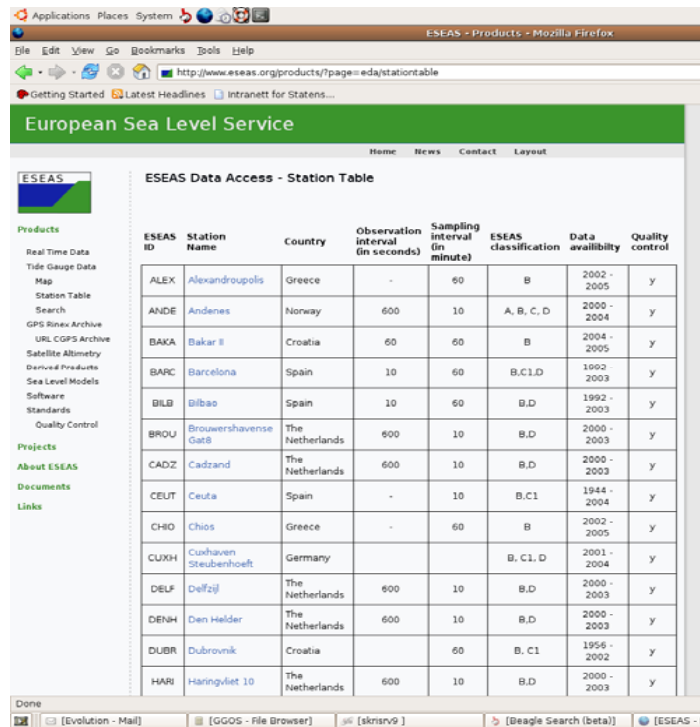
Red: Tide gauges

Blue: w/ GPS
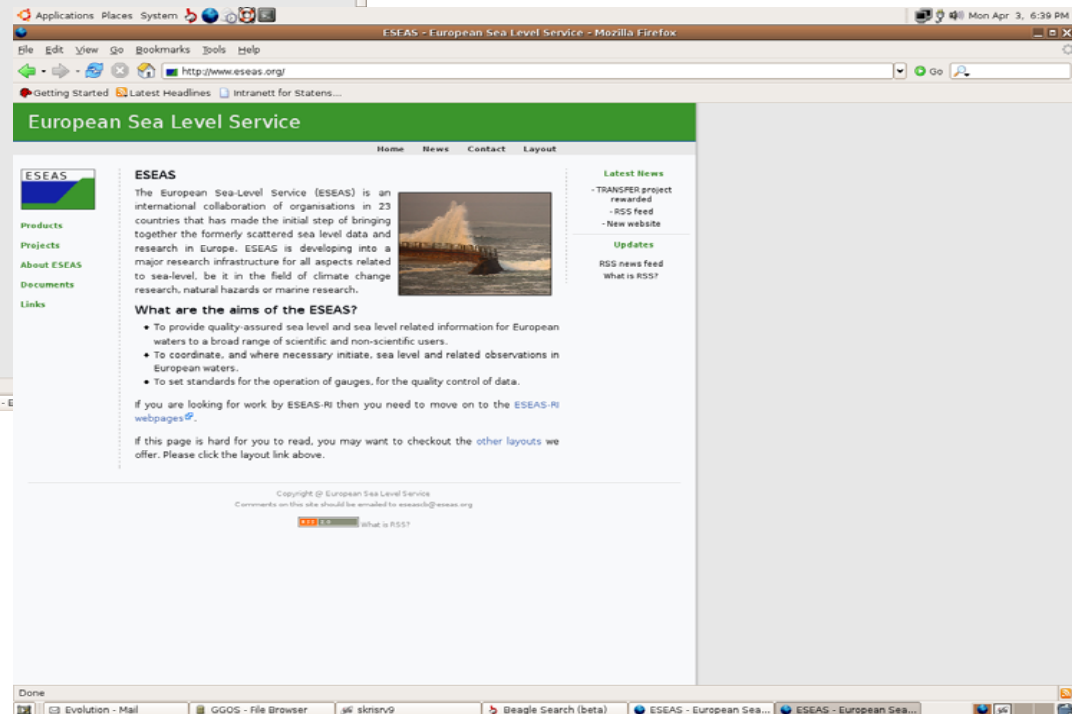
Blue triangles:

MedGLOSS

Data portal gives access to data: www.eseas.org/products

ESEAS data portal
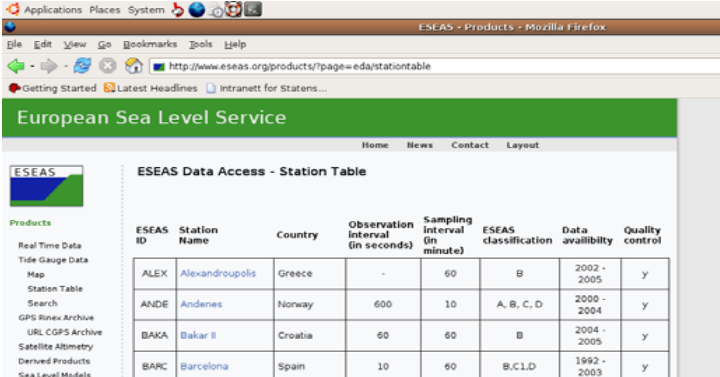
Access to sea levels in real time

Hourly sea levels (45 locations)

GPS archive

(Satellite altimetry data)

Derived trends and extremes

Software: WINTASK
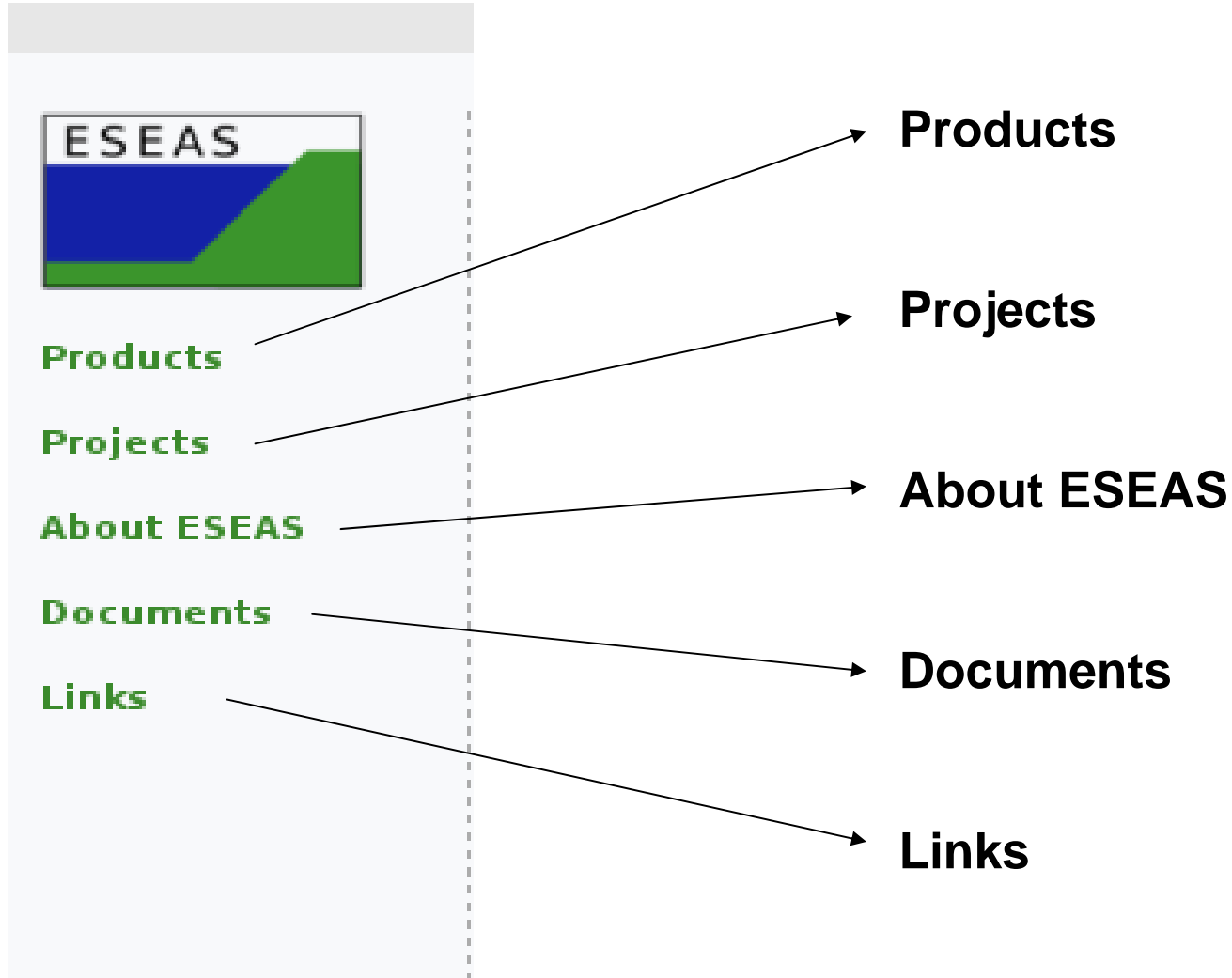
Quality assurance standards

ESEAS history: from a pilot project to a permanent service

2001-2005	Pilot project
2002-2005	Research Infrastructure project
2004 and 2005	Work shops
2005	Involved in tsunamis warning
2005	Preparation for a permanent ESEAS

ESEAS webpage www.eseas.org for information

Products

Projects

About ESEAS

Documents

Links

ESEAS (formed in 2001) and is supported by more than twenty countries

Belgium

Cyprus

Croatia

Denmark

Georgia

Germany

Greece

Italy

Lithuania

Malta

The Netherlands

Norway

Poland

Portugal

Romania

Slovenia

Spain

Sweden

Turkie

Ukraine

UK

_____

EuroGOOS

GLOSS

MedGLOSS

EUREF

ESEAS

www.eseas.org