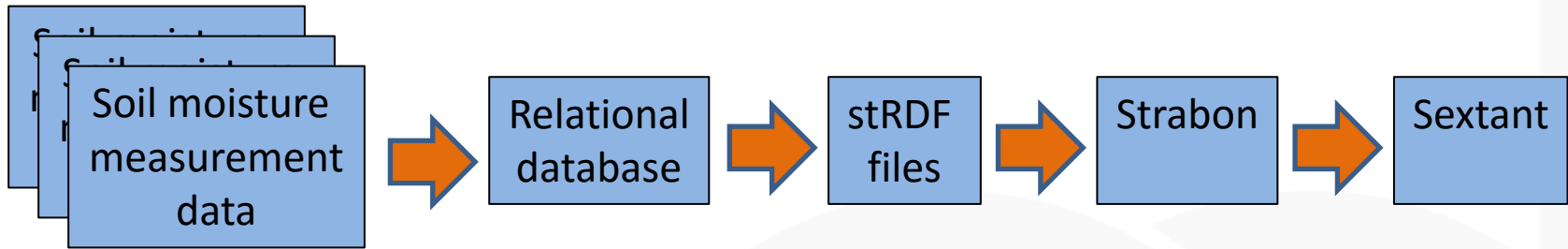


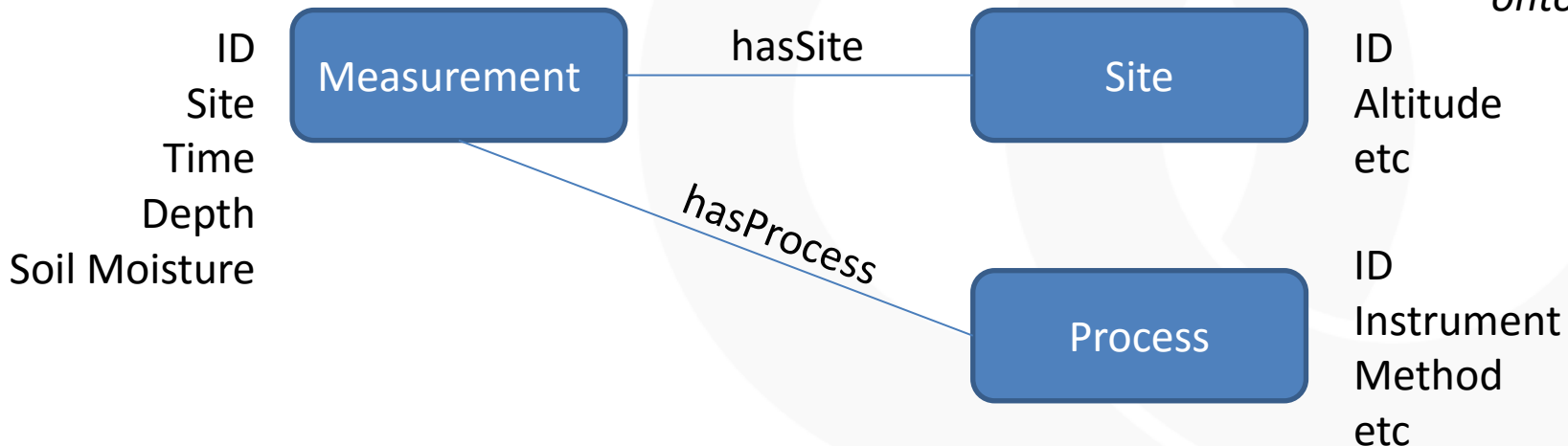
WP3 – Improving emission inventories with EO

WP3 – Soil Moisture

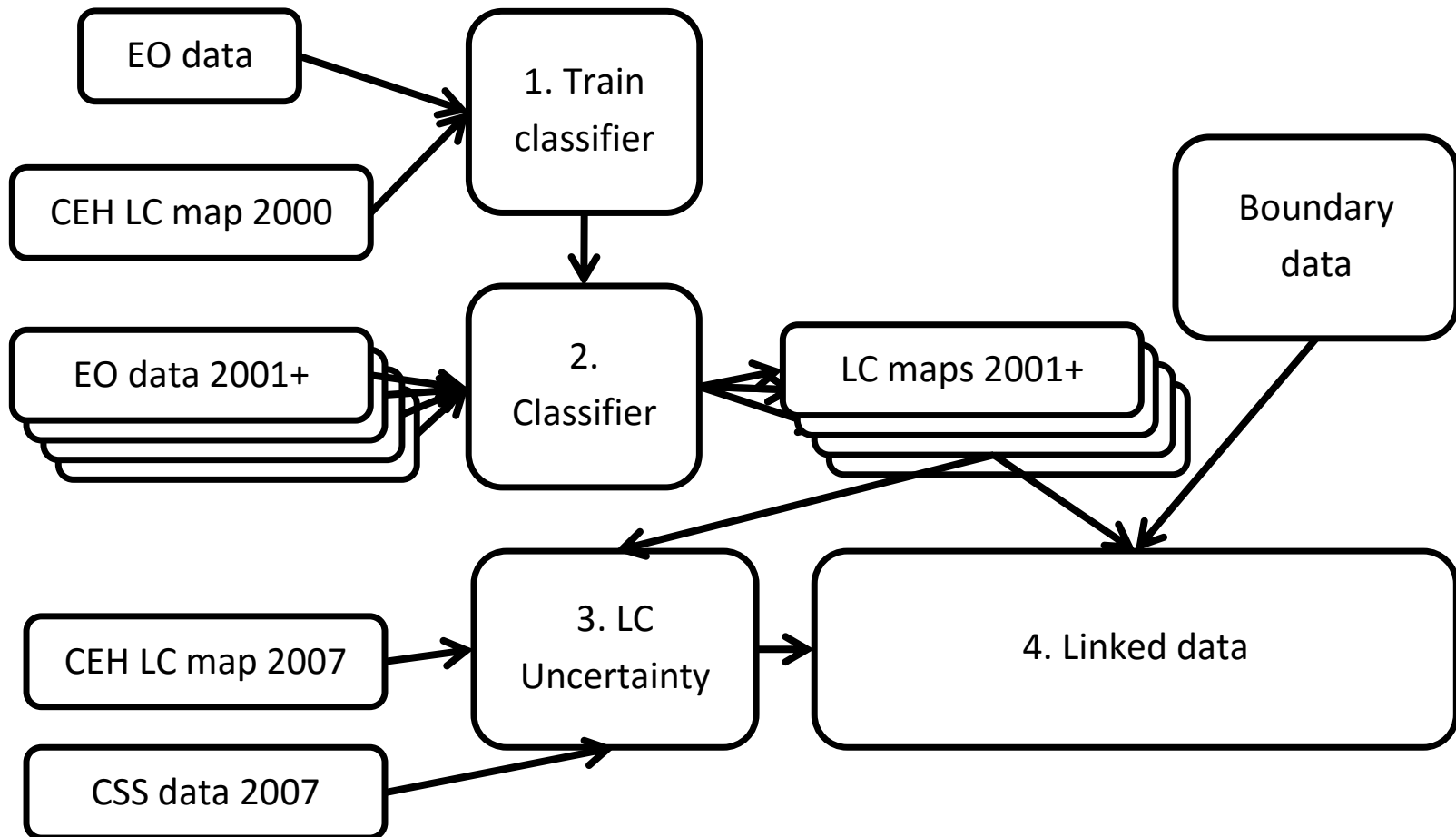


Very diverse collection of historic & current sites!

(Observations and measurements ontology?)



WP3 – proposed work/data flow



WP3 – EO for Emission Inventories

- CEH and Terradue liaising on a virtual machine supplied to run Strabon and Sextant (April)
- UAthens and CEH liaising on soil moisture and land cover ontologies
- UReading and Terradue liaising on setting up the processing algorithms for testing on parallel architecture later in the project (later in project – tbc)

Screenshot of Sextant showing CEH Land Cover (grassland) with soil moisture sites

The screenshot shows the Sextant web application interface. The browser window title is "Sextant" and the URL is test.strabon.di.uoa.gr/sexant/?map=mr3inlhdktnfr39_. The interface is divided into several sections:

- Endpoints:** A section for defining the data source.
- Layers:** A section for managing map layers.
- Query:** A section for defining the SPARQL query used to retrieve data.
- Map:** The main map area showing a heatmap of soil moisture sites overlaid on a map of Wales. The map includes labels for various locations such as Holyhead, Caernarfon, Barmouth, Tywyn, and Aberystwyth. A legend on the left indicates soil moisture levels from 0 (blue) to 100 (red).

Query:

```
PREFIX geo:
<http://www.opengis.net/ont/geosparql#>

select ?g ?code ?al
where
{
  ?site
  <http://melodiesproject.eu/uread/ontology#hasCode> ?code .
  ?site
  <http://melodiesproject.eu/uread/ontology#hasAltitude> ?al .
  ?site geo:hasGeometry ?geo .
  ?geo geo:asWKT ?g .
}
```

Endpoint: <http://godel.di.uoa.gr:8080/strabon->

Current Polygon: "POLYGON((-01.26 51.49,-06.45 51.49,-06.45 53.59,-01.26 53.59,-01.26 51.49))"

Reference System: <http://www.opengis.net/def/crs/EPSC/0/4326>