

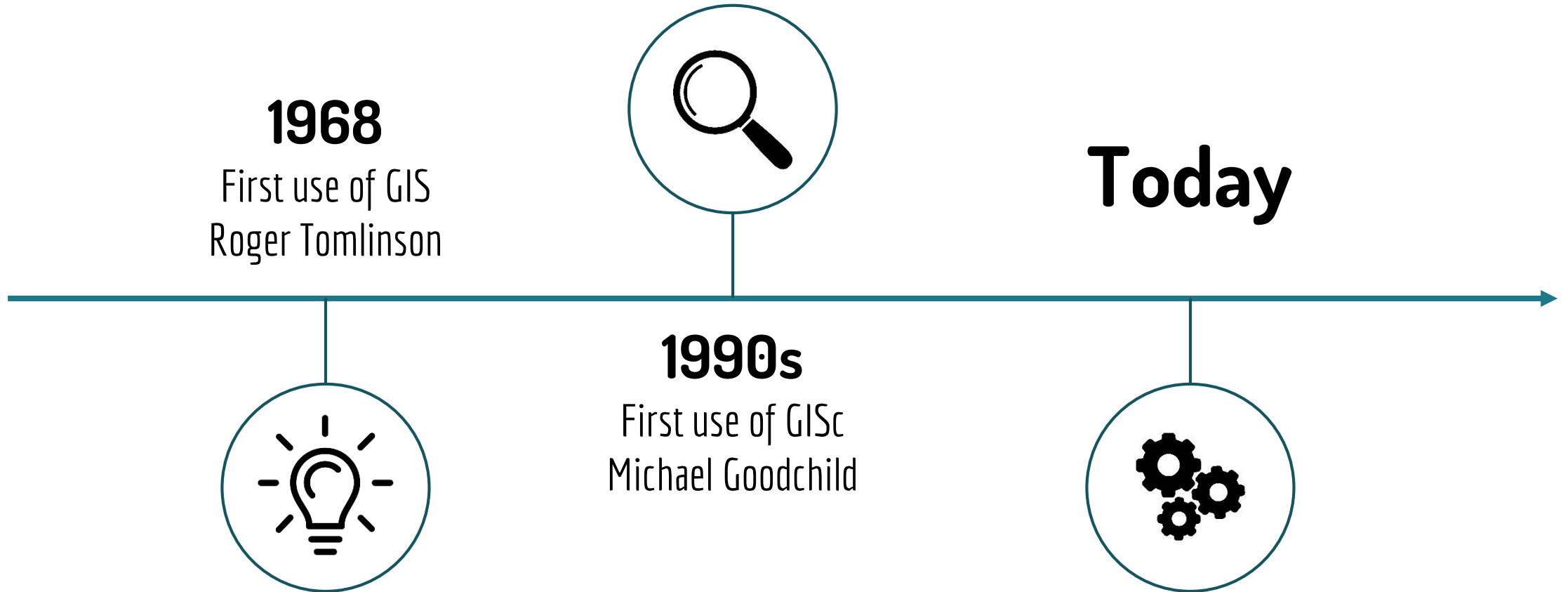
GIS 3.0

Towards a new generation of
Geographic Information Systems

BEGEO2019

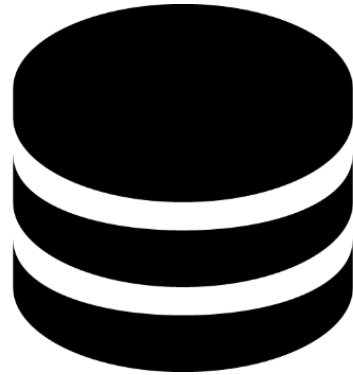
BRUSSELS

19/03/2019

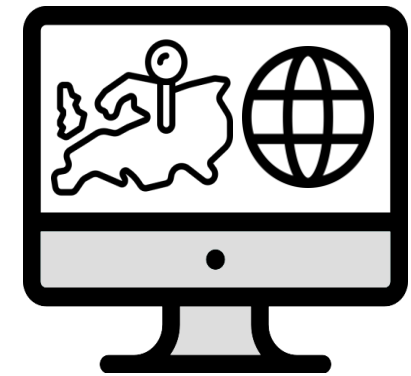




Dataset
Raw source



Storage
Relational solutions



Application
Analysis and visualisation

Are traditional solutions ready
for the next step?

No.

Volume
ariety
elocity
eracity

XML

```
<key1>  
  <key2>  
  </key2>  
</key1>
```

JSON

```
{key1:  
  {key2:  
  }  
}
```

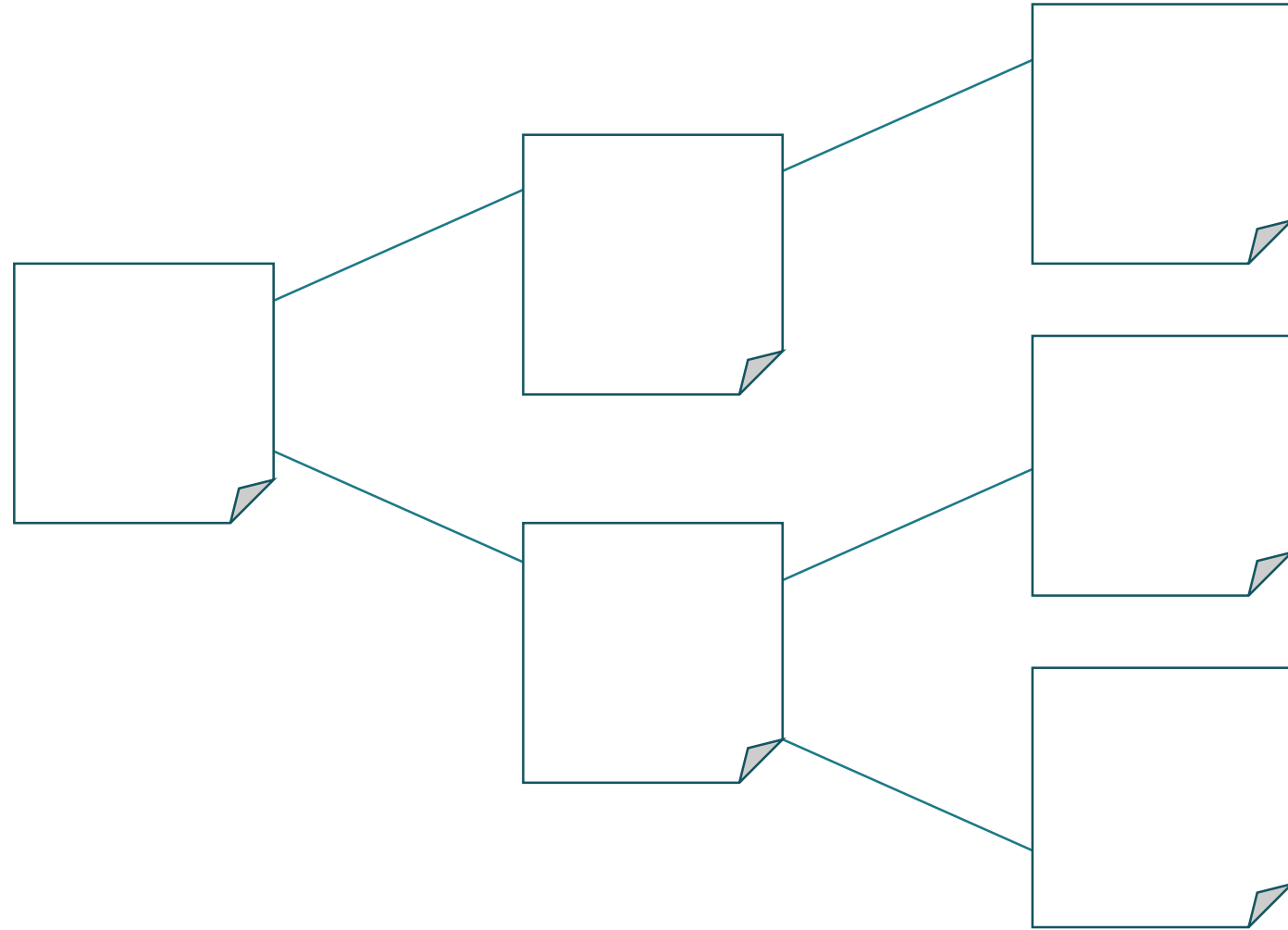


Need of common structure
Geospatial Standards

Variety

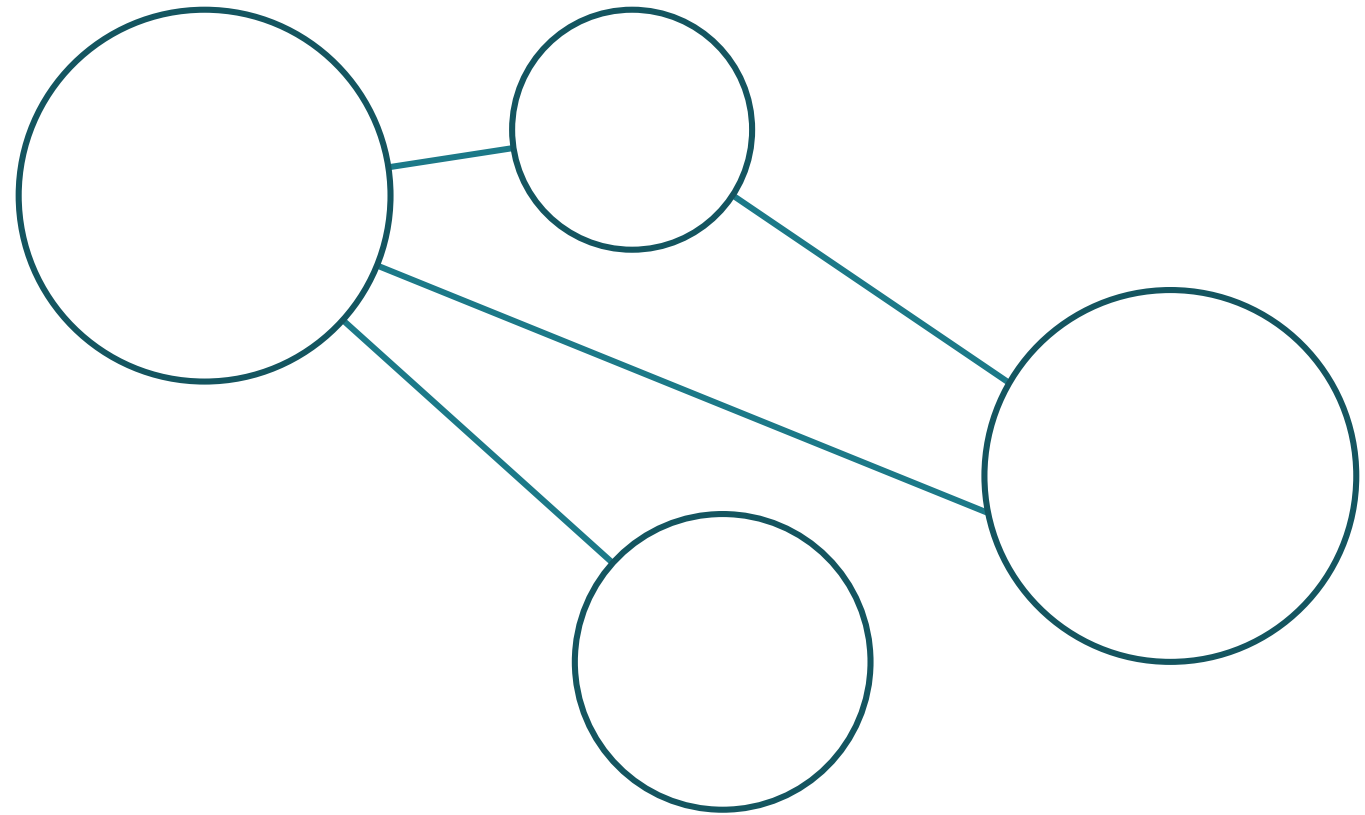
NoSQL

New paradigm for data storage and retrieval



BSON

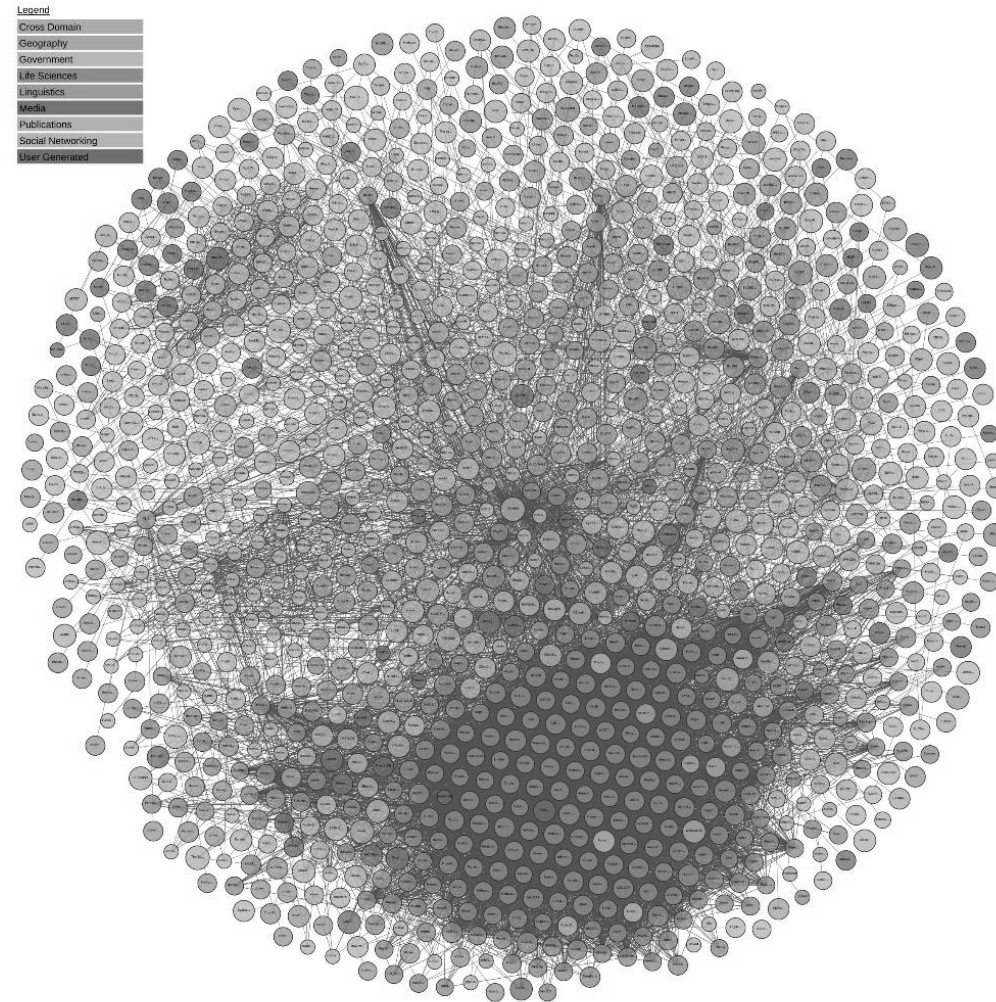
Light exchanges



Intuitive

Many applications are graph-structured

Semantic Web



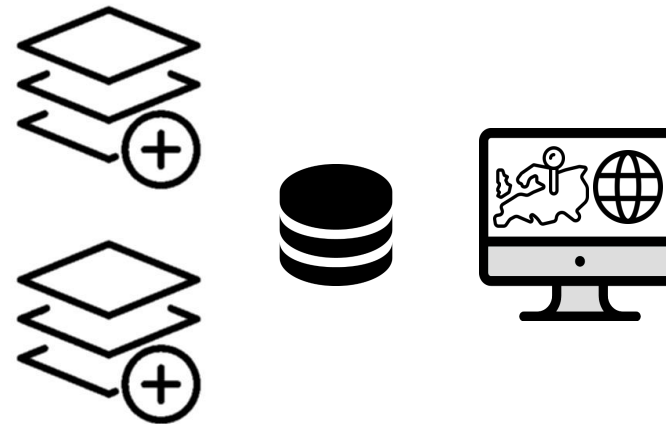
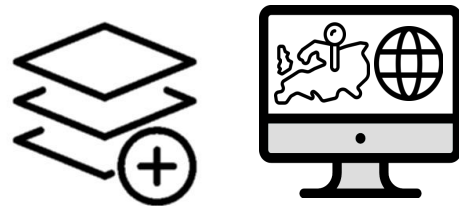
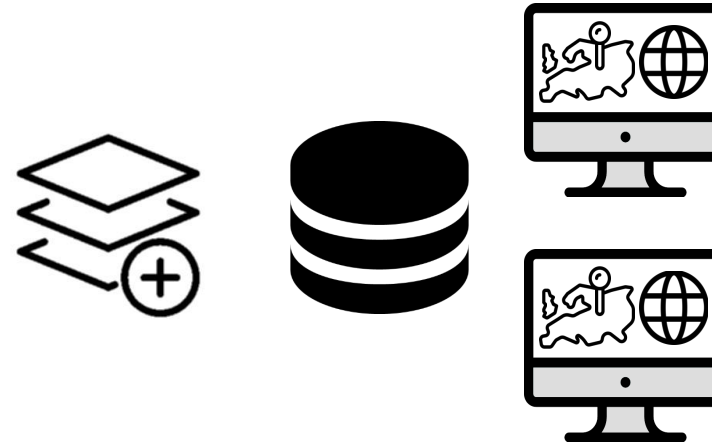
The Linked Open Data Cloud from kardinal.net

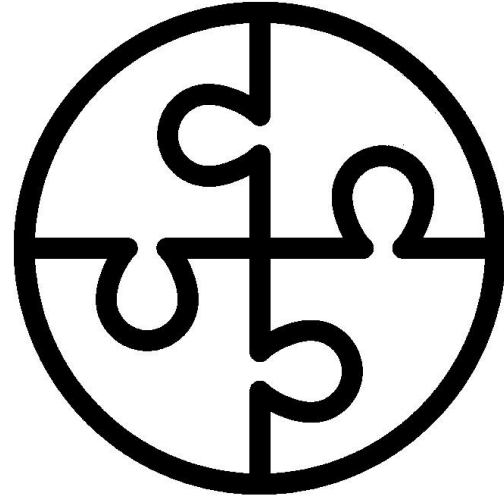


OnLine Analytical Processing



New Challenges





Service Oriented Architecture
Interoperability and Modularity

Volume
ariety
elocity
eracity



GIS 3.0

Sensors data management in urban built environment

NoSQL – JSON – OGC Standards

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