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H<sub>2</sub>O Map

H<sub>2</sub>O Map: Innovative learning by hydraulic heritage mapping

# E-LEARNING COURSE FOR TEACHERS: *Innovative Educational Tools for Assessment of the Hydraulic Heritage with by ICT Tools.*

## MODULE IV (Part 2): INNOVATIVE EDUCATIONAL TOOLS IN SCHOOL



# Part 2:

## Geotechnologies, an attractive way of ICT

### Module IV: Innovative educational tools in school

1. Geographic data in the *Information Age*
2. Web 2.0 and Web Mapping
3. Geotechnologies and *Neogeography*
4. *New Geography* and *Iceberg Theory*

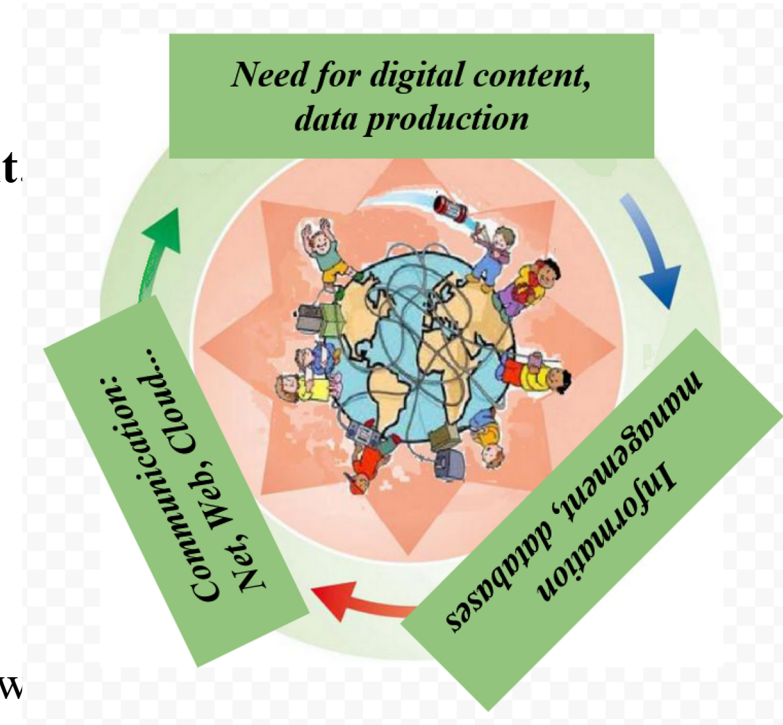
# 1. Geodata in “Inf-Tech” Age

1

The Information Society is characterized by:

- Creation and **generation** of an enormous amount of **digital content**.
- Use of tools to **manage** and **process** them (databases).
- Need to **communicate** and disseminate them (WEB).

Many of these contents have a **spatial or geographic dimension** and **Cartography has had to adapt** to the digital era in order to produce, process and disseminate geographic information as required by the new times.



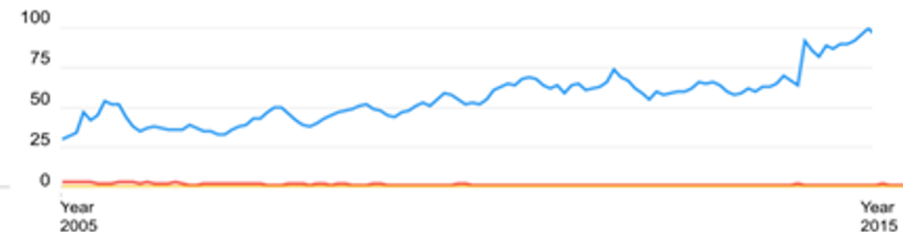
Google search terms:

- maps
- geography
- cartography

Related queries:

- 1 google earth maps
- 2 google earth
- 3 maps bing
- 4 google maps street view
- 5 google street view

Popularity level of search terms in Google (from 0 to 100)



Leading countries:

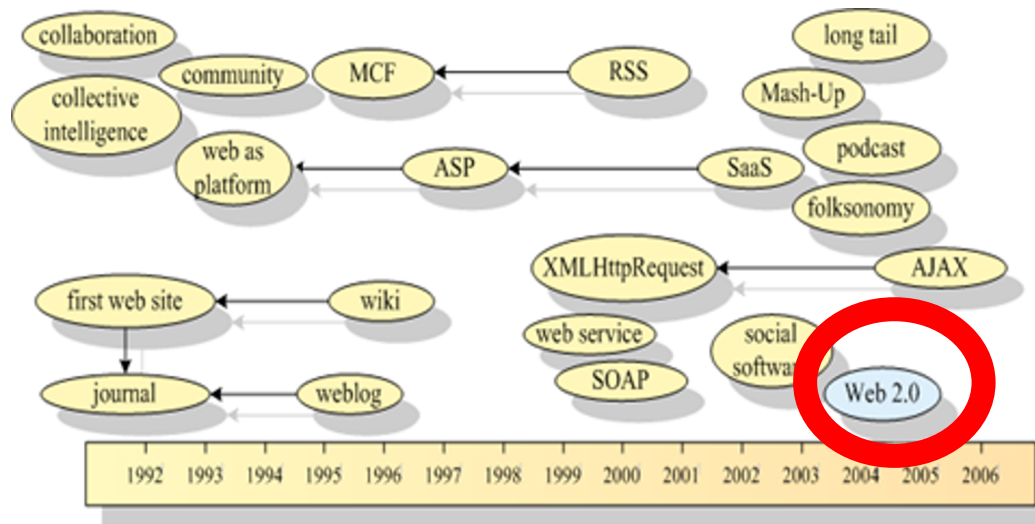


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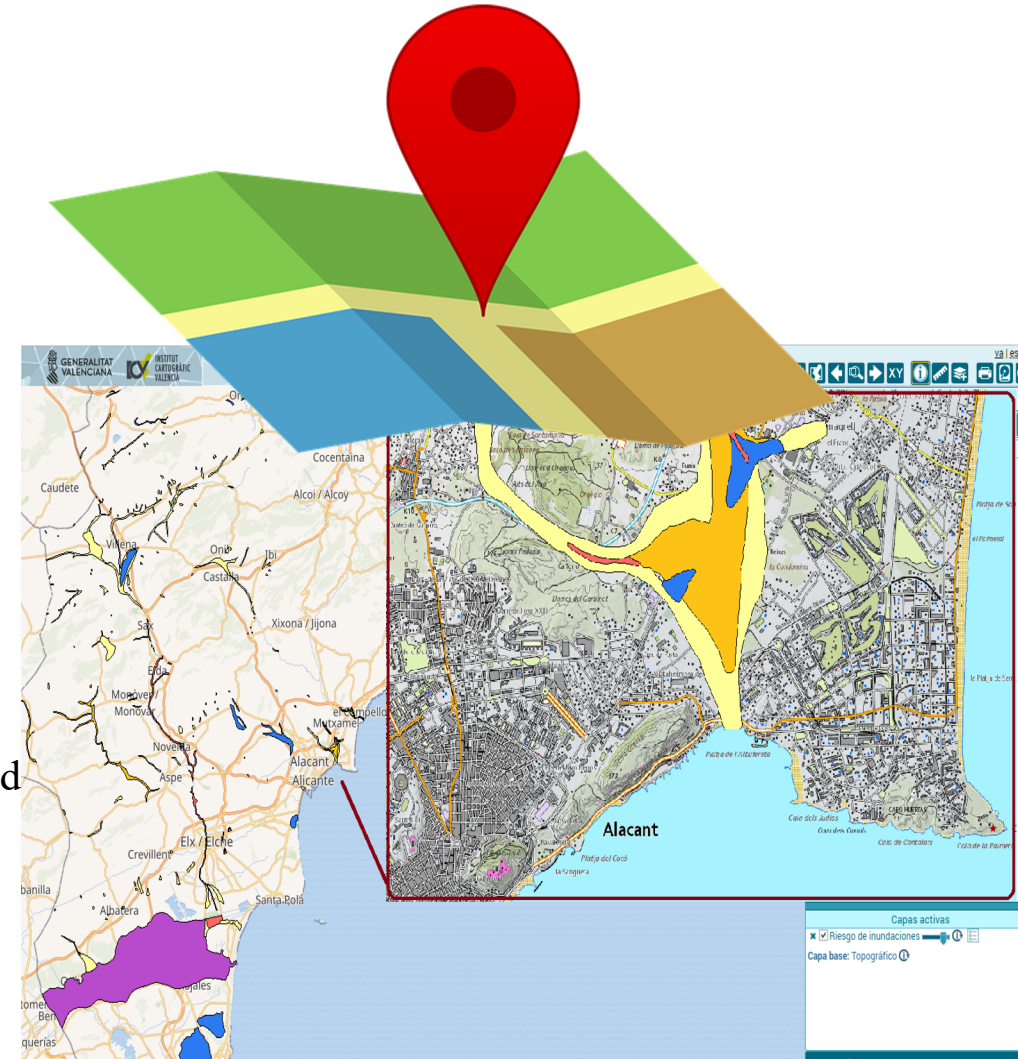
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# 2. Web 2.0 & Web Mapping



**Web 2.0** or **Social Web**, refers to websites that emphasize user-generated content, ease of use, participatory culture and interoperability

**Geographic information** has adapted to this process and has turned paper maps into new **digital dynamic maps**, in which users can easily enter, consult and share information.



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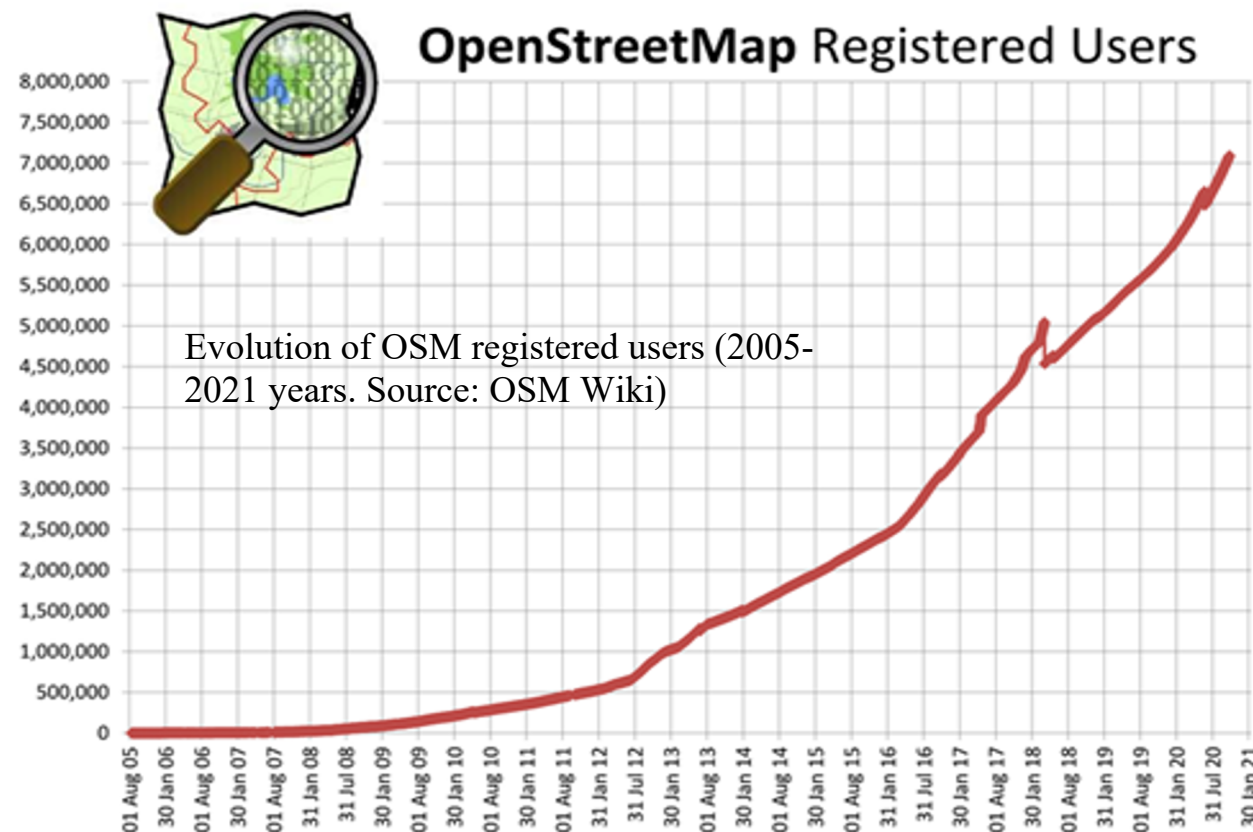
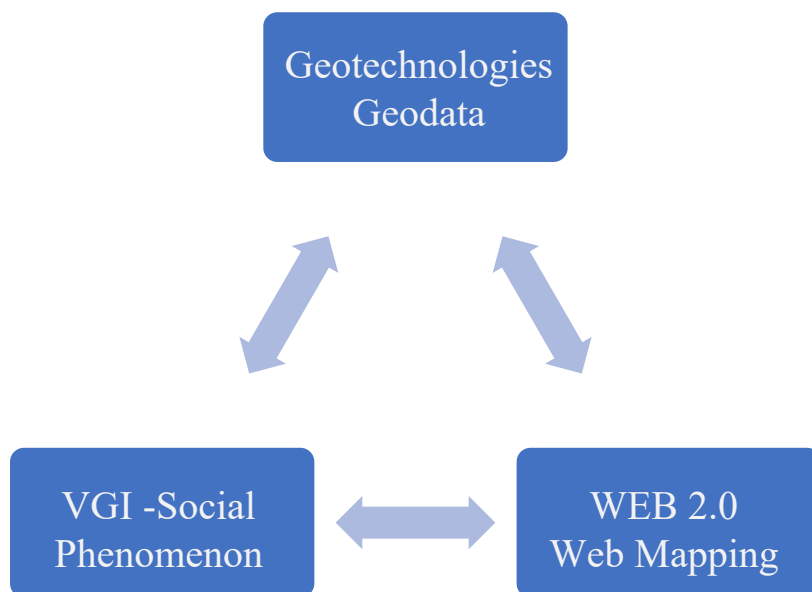
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# 3. Geotech and *Neogeography*

Geotechnologies evolution and WEB 2.0 has generated a *Neogeography*. This *New Geography* is not only a technological issue, it is a **social phenomenon**, characterized by *user-generated content*.

People to play a more active role in activities such as urban planning and mapping. This is also known as **voluntary geographic information (VGI)** or the leveraging of tech tools to create, assemble and disseminate voluntarily provided geograph

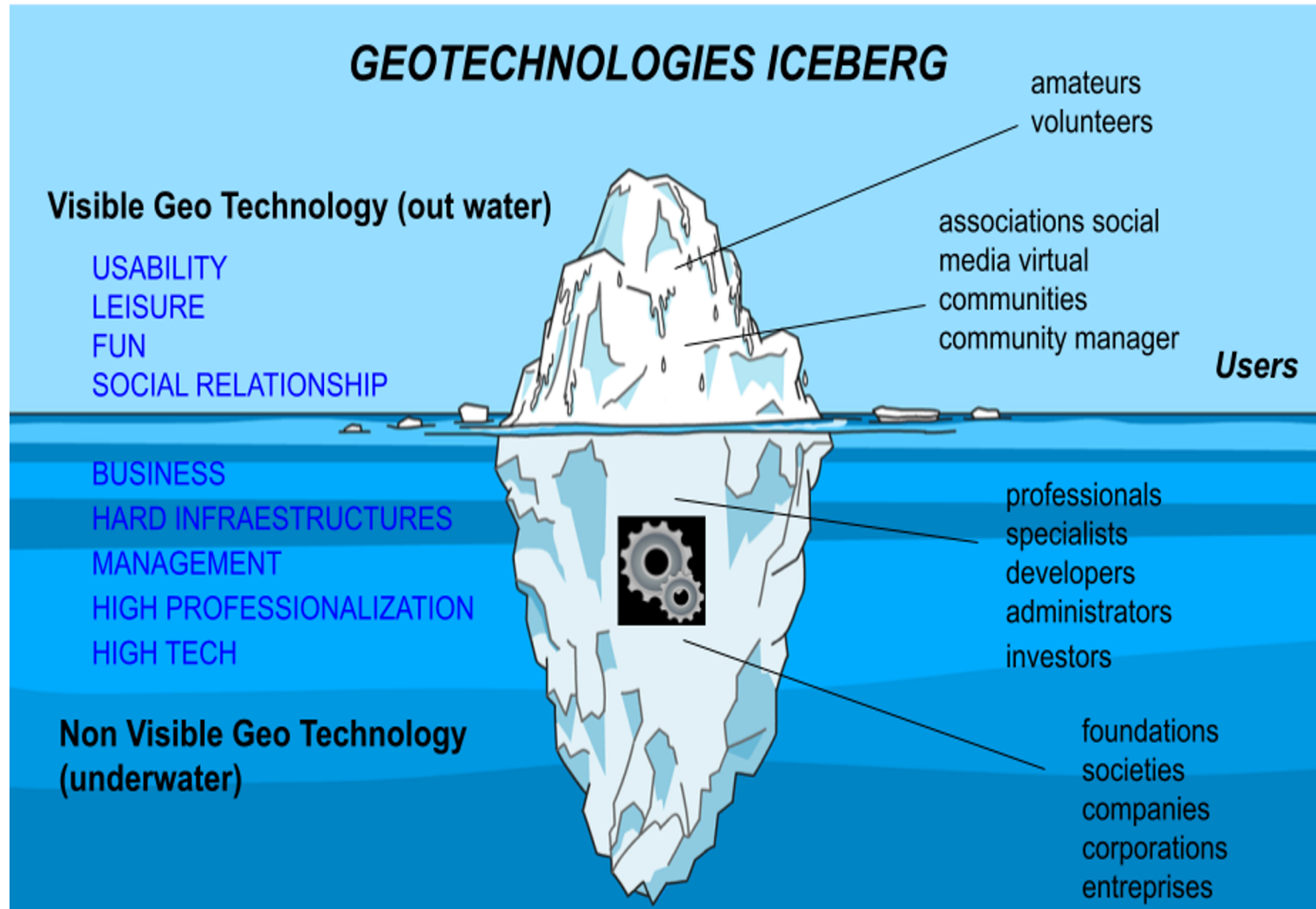


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# 4. New Geography & Iceberg Theory



Hydrological  
heritage with:

G.P.S.

Remote  
Sensing

G.I.S.

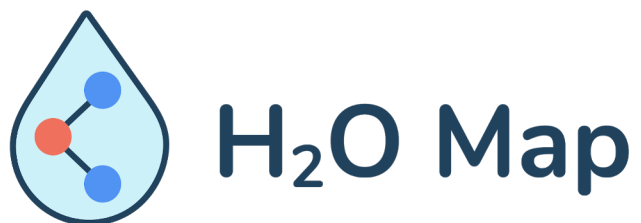
Web  
Mapping



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