### 3. DISCOVERY PROCESSES, SEARCHING FOR SPATIAL DATA AND WEB SERVICES

## The concept of discovery in ESDI

• The main ingredients we need to discover relevant spatial data/data series/services/... are:

#### - 1. Metadata describing a resource

(in exchangeable format)

#### - 2. Discovery service



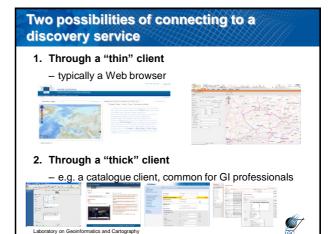
## Designation of the same is different in OGC services and INSPIRE

- · Get used to it!
- Do you know OGC (Open Geospatial Consortium) Catalogue Service for Web?
  - Then you know INSPIRE Discovery service
- Do you know OGC (Open Geospatial Consortium) Web Map Service?

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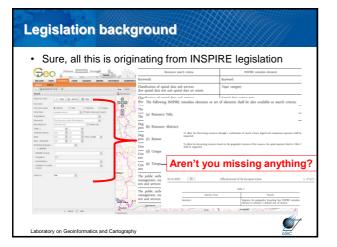
- Then you know INSPIRE View service
- Do you know OGC (Open Geospatial Consortium) Web Feature Service?
  - Then you know INSPIRE download service
- To be continued...

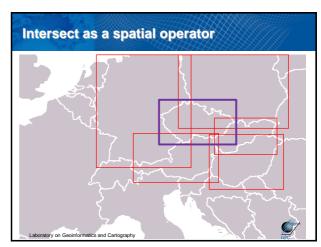
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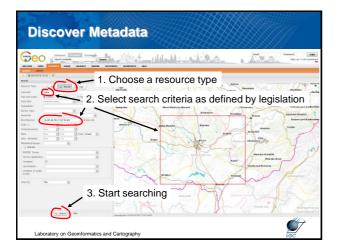




# Operations of an INSPIRE discovery service

- Get Discovery Serve
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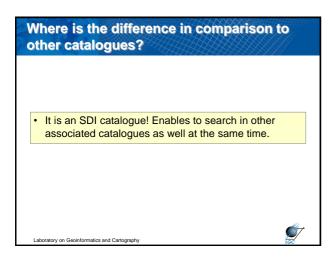
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<ul> <li>Bernstein March (1998)</li> <li>Bernstein March (</li></ul>	Title	Czech Republic INSPIRE metadata catalogue	_
	Service type	INSPIRE Discovery Service (CSW – Catalogue Service for Web according to the OGC)	
	Service version	2.0.2	
	Supported languages	Czech, English	
	Fees	Free of charge	
	Responsible Party	CENIA, Czech Environmental Information Agency	
	E-mail	info@cenia.cz	
	Supported operations	Get Discovery Service Metadata	
		Discover Metadata	
		Publish metadata	
	 pportal.gov.cz/p	Link Discovery service	
SERVIC	E=CSW&REQL	JEST=GetCapabilities client	
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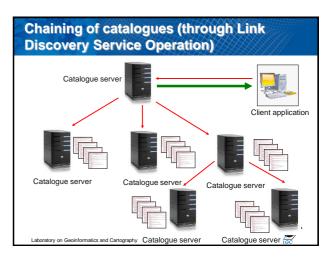


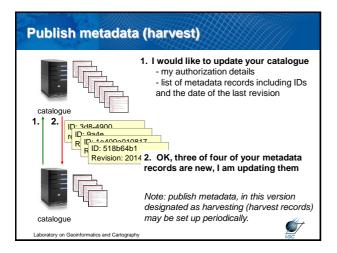


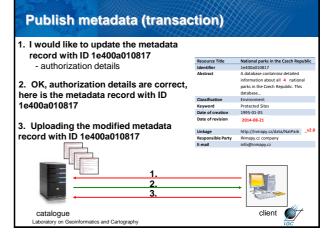
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### **Quality of service**

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- · Again defined in legislation
- The response time for sending the initial response to a Discovery service request shall be **maximum 3** seconds in normal situation. Normal situation represents periods out of peak load. It is set at 90 % of the time.
- The minimum number of served simultaneous requests to a discovery service according to the performance quality of service shall be **30 per second**.
- The probability of a Network Service to be available shall be 99 % of the time.

**Quality of service** Uptime [%] Maximum downtime Per month Per week Per year 36.00 hours 8.4 hours 18.25 days 95 08 14.40 hour 2.4 hour 7.30 day 1.7 hours 7.27 hours 3.63 days 99 10 minutes 99.9 0.73 hours 8.76 hours <u>Ø</u>7 atory on Geoinformatics and Cartography