

About the course

- Z8210 Introduction to spatial data infrastructures in Europe
- · Language: English
- · Extent and intensity: 2/0, 5 credits
- Type of Completion: k (colloquium)
 - an academic seminar
 - · theory as well as practice
 - · broad discussion
 - each student will present one topic (from the list advertised by the teacher) during the course

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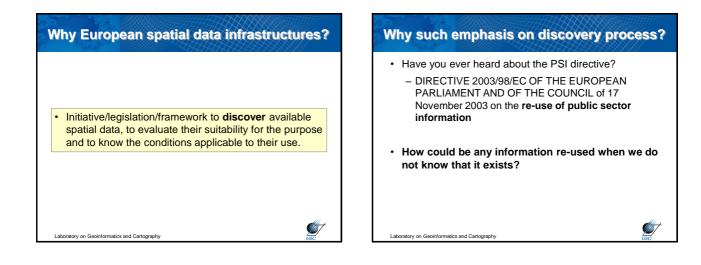
About the course Syllabus Motivations and benefits of the European spatial data · Assessment methods 1. infrastructures (ESDI). - assessment of student's presentation; 2. Metadata as the founding stone for linking between ESDI - assessment of student's activity during discussion components. throughout the semester. 3. Discovery processes, searching for spatial data and Web services. 4. View processes, preview of discovered spatial data. 5. Download processes, ordering and download of desired data. Data models, understanding the UML diagrams and other 6. formalised descriptions 7. Map compositions on the Web, OGC Web Map Context. 8. Data sharing, use limitations and other licensing issues. **©**7 atory on Geoinformatics and Cartography Lab tory on Geoinformatics and Cartography

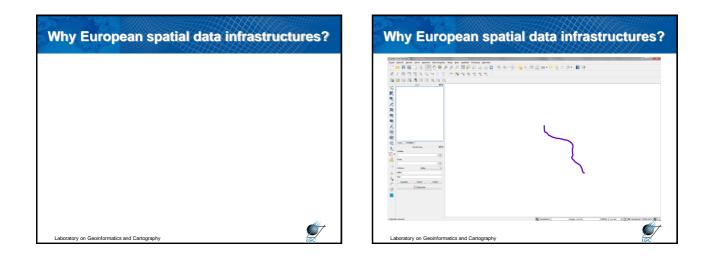
Literature

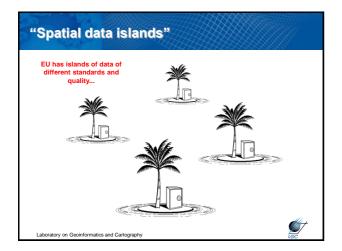
required literature

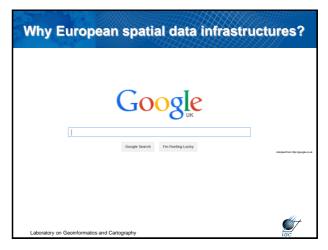
- CRAGLIA, M. et al. 2012. Digital Earth 2020: towards the vision for the next decade. In International Journal of Digital Earth, Volume 5, Issue 1. 20 pages.
- http://inspire.ec.europa.eu
- NOGUERAS-ISO J.,MURO-MEDRANO P.R.,ZARAZAGA-SORIA F.J. Geographic information metadata for spatial data infrastructures :resources, interoperability and information retrieval. 1st ed. New York: Springer, 2005. xxi, 263 p. ISBN 3-540-24464-6.
- recommended literature
 - ANNONI A, CRAGLIA M, EHLERS M, GEORGIADOU Y, GIACOMELLI A, KONEČNÝ, M, OSTLAENDER N, REMETEY-FULOPP G, RHIND D, SMITS P, SCHADE S. A European perspective on Digital Earth. *International Journal of Digital Earth*, Abingdon, Oxon, UK: Taylor and Francis. 2011, July 2011, 4/4, p. 271-284. ISSN 1753-8947. doi:10.1080/17538947.2011.582888.
 - UML modeling languages and applications :UML 2004 Satellite Activities, Lisbon, Portugal, October 11-15, 2004 : revised selected papers. Edited by Nuno Jardim Nunes. 1st ed. New York, NY: Springer-Verlag Berlin Heidelberg, 2005. xiv, 294 s. ISBN 3-540-25081-6.
- KAMBA V. Tvorba systémů a komponent podle specifikace UML. Brno, 2002. 61

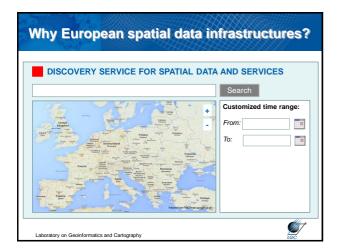
1. MOTIVATIONS AND BENEFITS OF THE EUROPEAN SPATIAL DATA INFRASTRUCTURES

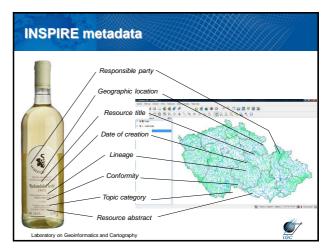


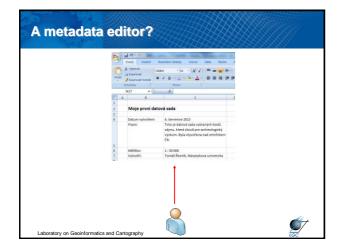


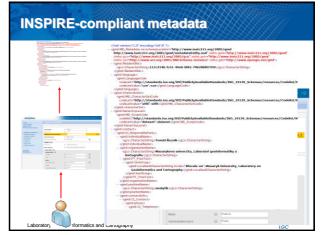


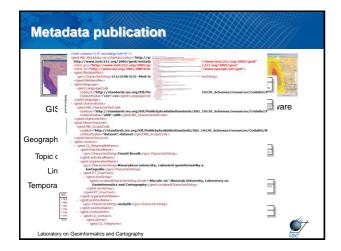


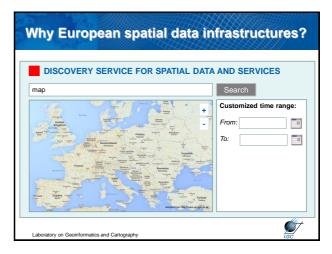


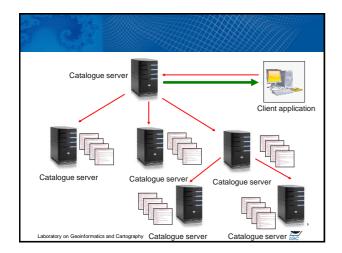


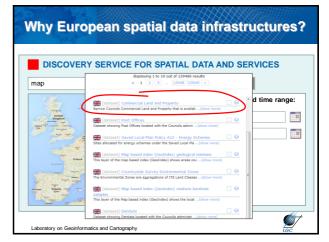


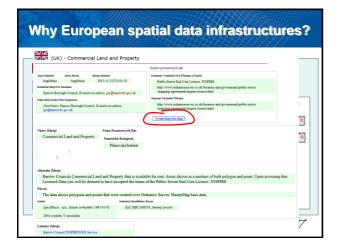


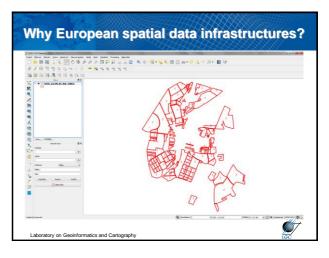


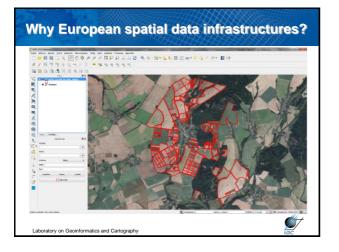


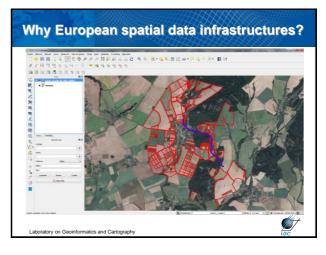


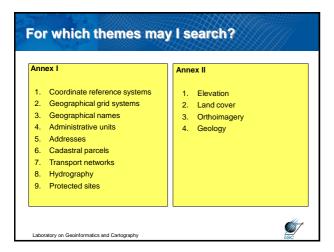






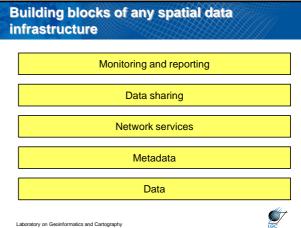






Annex III	11 Area
 Statistical units Buildings Soil Land use Human health and safety Utility and governmental services Environmental monitoring facilities Production and industrial facilities Agricultural and aquaculture facilities Population distribution — demography 	 Area management/restriction/regulati on zones and reporting units Natural risk zones Atmospheric conditions Meteorological geographical features Ceeanographic geographical features Sea regions Bio-geographical regions Habitats and biotopes Species distribution Energy resources Meteoral regions

INSPIRE spatial data themes	Buildi infras
 Exactly those themes that any student should choose and present its content to the audience. 	
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Who is obliged to create such SDI building blocks in the European Member States?

- So-called Legally Mandated Organisations (LMOs)
- Generally defined by the European directive 2007/2/EC

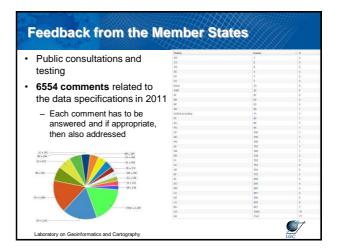
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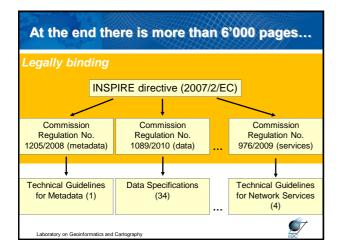
- English version: <u>http://eur-lex.europa.eu/legal-</u> content/EN/TXT/HTML/?uri=CELEX:32007L0002&fro <u>m=EN</u>
- Versions for all 24 official European languages: <u>http://eur-lex.europa.eu/legal-</u> content/EN/ALL/?uri=CELEX:32007L0002
- In detail written in the appropriate legislation of each Member State, such as Zákon č. 123/1998 Sb. (CZ) or Zákon č. 3/2010 Z.z.(SK)

Which data shall be published under INSPIRE?

- Fulfilling the following conditions (see Article 4)
 - they relate to an area where a Member State has and/or exercises jurisdictional rights;
 - they are in electronic format;
 - they are held by or on behalf of any of the following:
 - (i) a public authority, having been produced or received by a public authority, or being managed or updated by that authority and falling within the scope of its public tasks;
 - (ii)a third party to whom the network has been made available in accordance with Article 12;
 - they relate to one or more of the themes listed in Annex I, II or III.

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Implementation		
Milestone date	Article	Description
15-May-2000	2151 2152	Implementation of provisions for monitoring and reporting
03-Dec-2010	0(a)	Hetaclate evalable for spatial data sets and services corresponding to Annex I and II
09-May-2011	16	Hember States shall provide the Discovery and View Services with initial operating capability
30-3an-2011	15	The EC establishes and runs a peo-portal at Community level
19-Oct-2013	17(8)	Implementation of Regulation as regards the access to spatial data sets and services of the Hember States by Community institutions and bodies under harmonised conditions for new arrangementa
09-Nev-2011	10	Discovery and view services operational
28-3an-2013	16	Number States shall provide the Download Services with initial operating capability
28-3un-2012	14	Hember States shall provide the Transformation Services with initial operating capability
23-Nov-2012	7§3, 9(a)	Imstementation of Commission Regulation (EU) No 1094/2010 of 23 November 2010 imstementing Directive 2007/2010 of the European Relament and of the Council as regards intercombiblity of spatial data sets and services for Newly collected and advantmetry restructure Annex 1 apaled data sets available
25-Dec-2012	16	Download services operational
28-Dec-2012	16	Transformation services operational
04-Feb-2013	7§3, 9(a)	Implementation of Commission Reputation (EU) No 1922/ED1 of 4 February 2011 amenting Reputation (EU) No 1999/2010 Implementing Diverse 2010/2020 C of the Evropean Refutment and of the Council as regardle interropendibility of spatial data sats and services for newly collected and extensively restructured Annex 1 apatial data sate
19-0d-2013	17(0)	Implementation of Regulation as regards the access to spatial data sets and services of the Hember States by Community institutions and bodies under harmonised conditions for existing arrangements.
63-Dec-2013	6(b)	Metadata available for spatial data sets and services corresponding to Annex III
21-Oct-2015	753, 9(b)	Newly collected and extensively restructured Armox II and III spatial data sets available
23-Nov-2017	7§3, 9(a)	Instamentation of Commission Reputation (BU) No 1092/2010 of 23 November 2010 Implementing Directive 2007/2010 of the European Revisement and of the Council as regards intercoensbility of spatial data sets and services for other Annex 1 spatiol data sets still in use of the date of adoption
04-Fab-2018	7\$3, 9(a)	Insternentation of Commission Regulation (EU) No. 102/2011 of 4 Hebmany 2011 amending Regulation (EU) No. 1050/2010 implementing Directive 3007/2/PC of the Duragean Parliament and of the Council as regards interogenable/of a spatial deals sets and envices for ather Annos 1 spatial data sets still in use at the date of adoption
	753, 9(b)	Other Joney II and III statial data sets available in accordance with IRs for Joney II and III











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