

Esri-jeva rješenja za NIPP sukladna zahtjevima INSPIRE-a i iskustvima GISDATE u implementaciji

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3rd Croatian NSDI and INSPIRE Day, Split, September 14, 2011

Sadržaj

- ArcGIS for INSPIRE
- GISDATA iskustva implementacije



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Uvod

- Direktiva INSPIRE postavila je osnove za infrastrukturu prostornih informacija EU
 - Metapodaci, Usluge Pronalaženja i Pogleda, Specifikacije tema iz Dodatka I
- Rokovi za implementaciju
- Esri pruža sveobuhvatnu platformu za IPP općenito
- Esri Geoportal Server
 - Besplatni proizvod otvorenog koda
 - Uspostava geoportala radi uspostave i upravljanja katalozima prostornim metapodataka

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Uvod

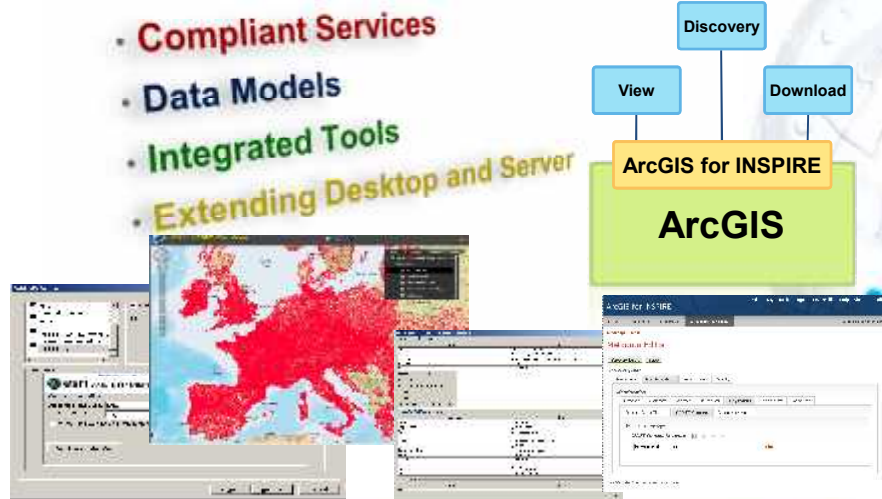
- Novi proizvod *ArcGIS for INSPIRE*
 - Osigurava sukladnost sa zahtjevima INSPIRE-a kroz potporu za skupove podataka, usluge i metapodatke
 - INSPIRE usluge pogleda (*view*), preuzimanja (*download*) i pronalaženja (*discovery*)
 - Modeli podataka za teme iz Dodatka I
- Dodaci za *ArcGIS for INSPIRE* - con terra sdi.suite:
 - securityManager – kontrola pristupa, sigurnost, jedinstvena prijava (*single sign-on*)
 - licenseManager – eTrgovina i eLicenciranje za INSPIRE
 - serviceMonitor za monitoring i izvješćivanje
 - proširuju *ArcGIS for INSPIRE* funkcionalnost na neobvezujuće, ali stvarno potrebne funkcije

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ArcGIS for INSPIRE

Extends ArcGIS with Discovery, View and Download Services, Metadata, Data Models

- **Compliant Services**
- **Data Models**
- **Integrated Tools**
- **Extending Desktop and Server**



Compliance, data sharing and discovery throughout Europe using ArcGIS for INSPIRE

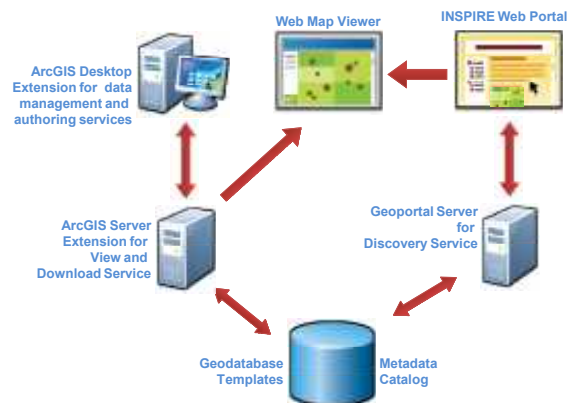
ArcGIS for INSPIRE

Discovery Services, View Services, Download Services, Metadata, Data Models

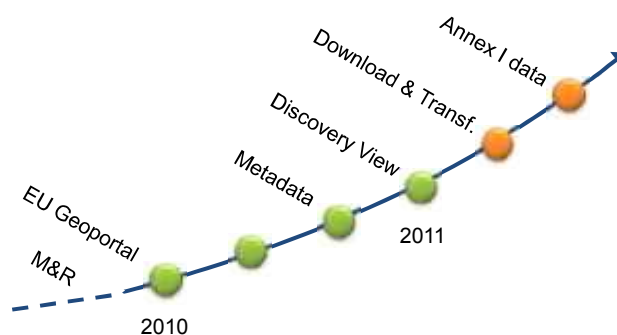


Compliance, data sharing and discovery throughout Europe using ArcGIS for INSPIRE

ArcGIS for INSPIRE: what's included

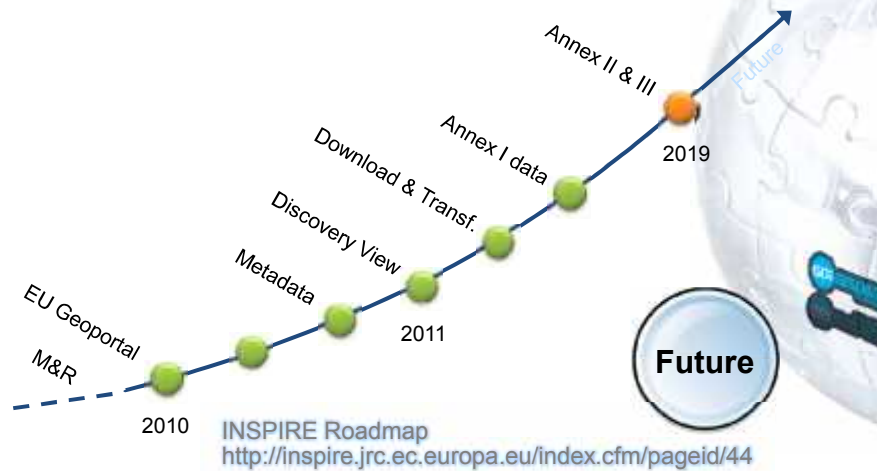


Meet INSPIRE compliance in a timely manner



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Meet INSPIRE compliance in a timely manner



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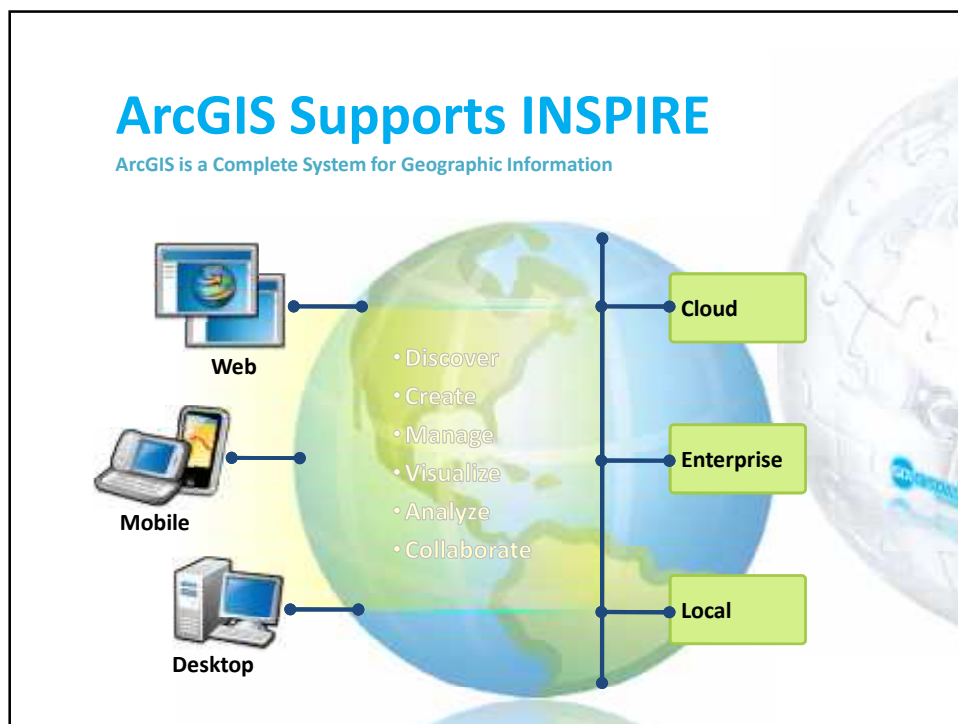
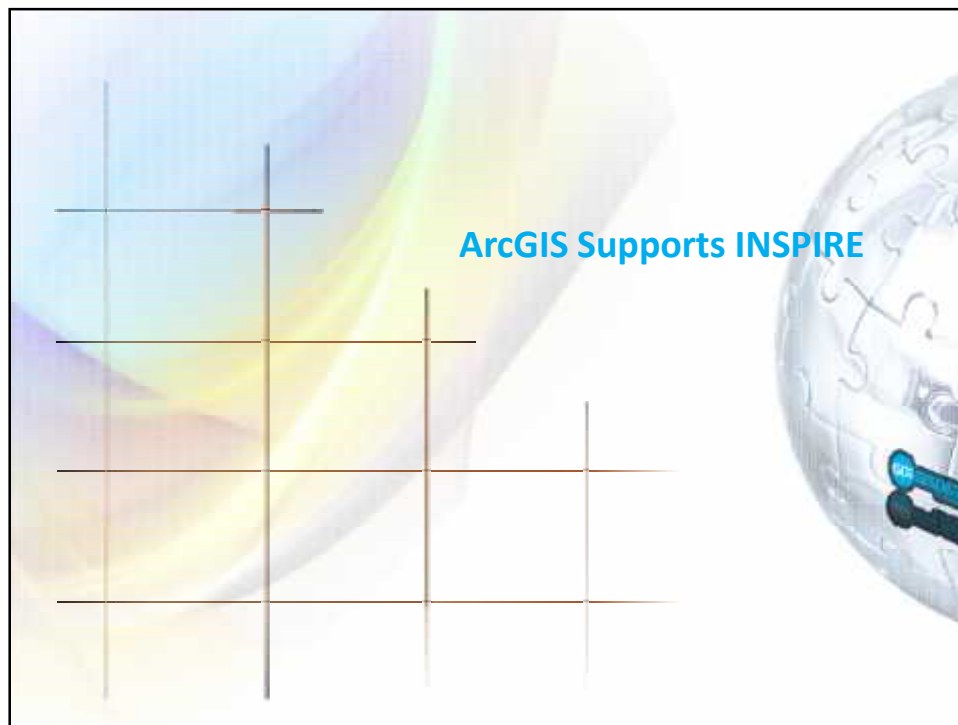
INSPIRE Compliance

Meet INSPIRE requirements in a timely manner

1.0

INSPIRE Implementing Rule	Technical Guidance implemented in Version 1.0
Regulation on INSPIRE Network Services - INSPIRE View Service	Technical Guidance for the implementation of INSPIRE View Services 2.12 (with Service Pack 3.0)
Regulation on INSPIRE Network Services -INSPIRE Download Service	Draft Technical Guidance Download Services 1.0
Regulation on INSPIRE Network Services -INSPIRE Discovery Service	Technical Guidance for the implementation of INSPIRE Discovery Service 2.12 (with Service Pack 3.0)
Regulation on INSPIRE Metadata	Technical Guidelines based on EN ISO 19115 and EN ISO 19119 (Version 1.2)
Regulation on interoperability of spatial data sets and services	Technical Guidance on Annex I data themes (Administrative Units, Cadastral Parcels, Geographical Names, Hydrography, Protected Sites, Transport Networks, Addresses, Coordinate Reference Systems, Geographical Grid Systems) 3.0.1

Service Pack supports TG 3.0 for Discovery and View



Data Sharing for a better understanding and participation

Move from Data Sharing – to Creating Shared Services



ESRI Is Committed To Supporting SDI

Providing A Complete Platform

- Strong Server Technology
- Data Compilation, Management, and Analysis
- Free Web & Mobile Clients
- Open Use of Basemaps
- Open Standards Support
- Open Sourced GeoPortal
- Public REST and File Geodatabase Specifications
- INSPIRE Solution
- Ongoing Commitment

- (Team, Engineering Resources, Support...)





Implementing an INSPIRE node

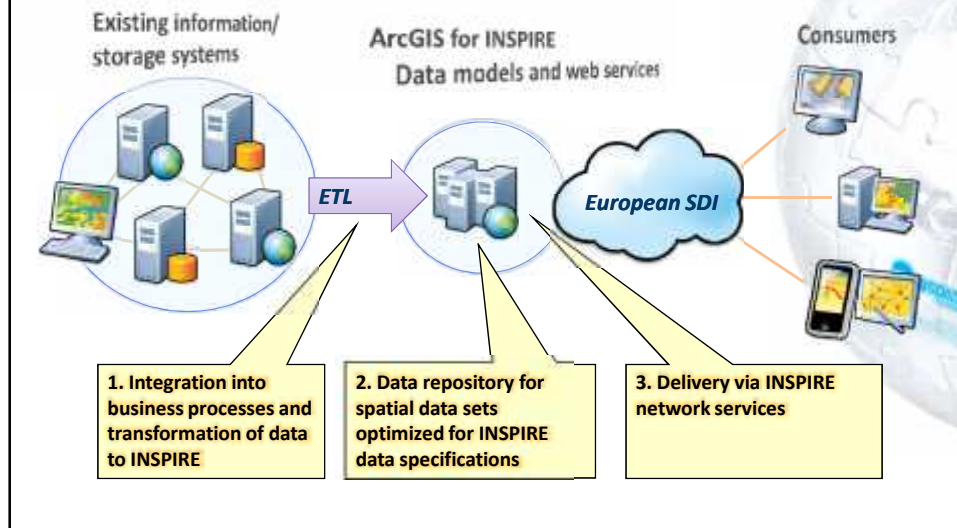


ArcGIS for INSPIRE is a complete solution

With ArcGIS for INSPIRE you can:

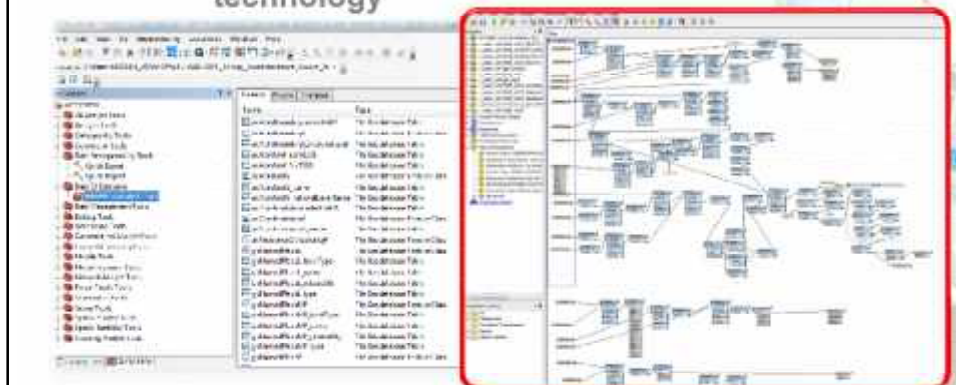
- Manage INSPIRE Data
- Manage INSPIRE Metadata
- Author INSPIRE Network Services
- Deploy INSPIRE View & Feature Download Services
- Deploy INSPIRE Discovery Services
- Create INSPIRE compliant datasets using the geodatabase templates for INSPIRE Annex data themes

ArcGIS for INSPIRE implementation pattern



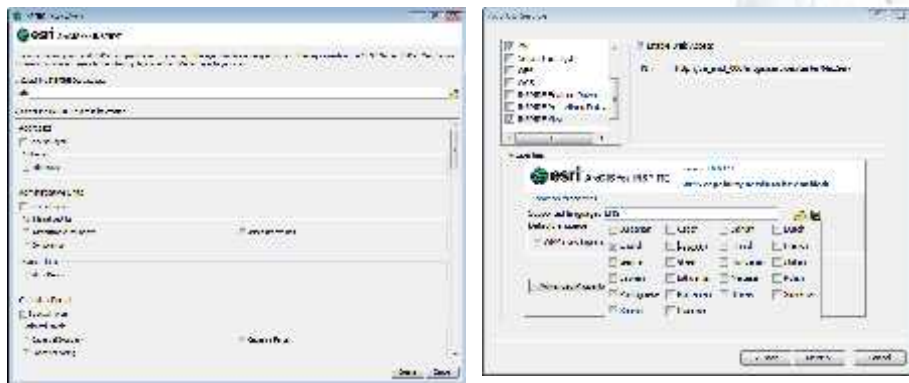
Transform existing data into INSPIRE datasets

1. Data Interoperability Extension Integrated in ArcGIS Geoprocessing Environment
2. ArcGIS Extension based on FME technology



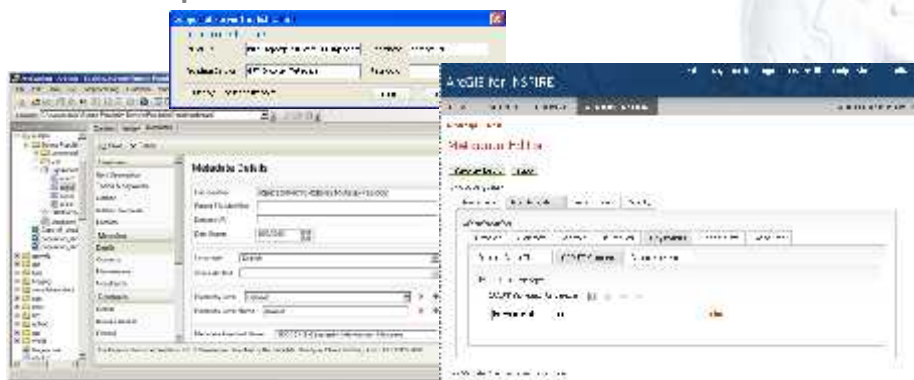
Create INSPIRE maps and services

1. Create maps in ArcMap using “Add INSPIRE Layers” desktop tool: allows loading INSPIRE specific data themes and feature types
2. Create INSPIRE View, Feature Download and Predefined Feature Download services using ArcCatalog



Create and publish metadata

1. Create INSPIRE metadata by using the desktop editor or the Geoportal Web editor
2. Publish metadata from desktop to Geoportal with publish tool



Discover and consume resources

1. Discover and consume INSPIRE resources using Geoportal Server



ArcGIS for INSPIRE Enables Data Discovery

INSPIRE
Discovery Services

INSPIRE Geoportal

Consumers



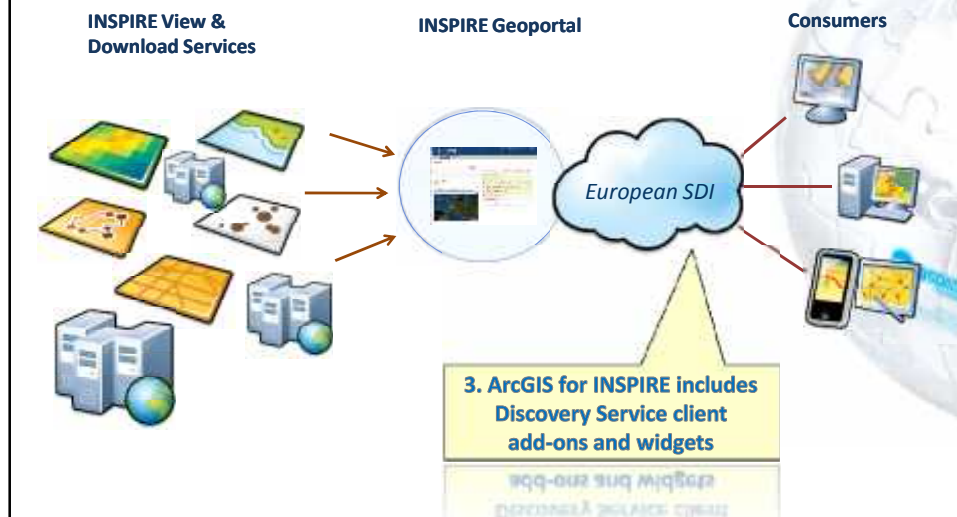
1. Multiple Discovery Services.
ArcGIS for INSPIRE supports
harvesting or federate searches



**2. ArcGIS for INSPIRE includes
INSPIRE Discovery Services**

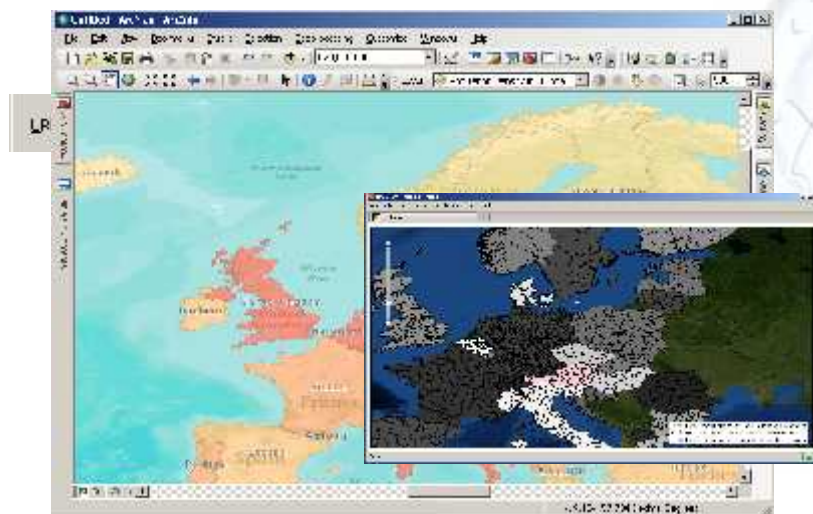


ArcGIS for INSPIRE Connects Producers and Users



ArcGIS for INSPIRE Consumes INSPIRE Services

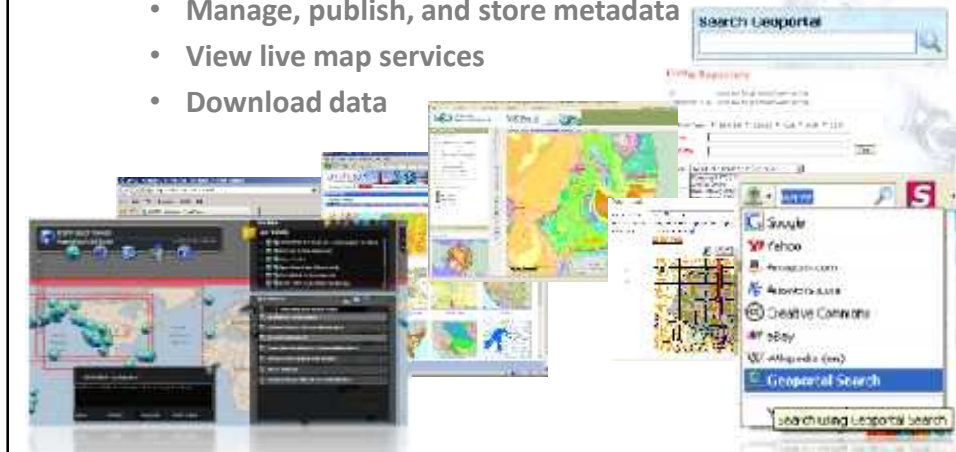
View INSPIRE Services in ArcMap and Web Clients



Esri Geoportal Server

Enabling discovery and use of geospatial resources in heterogeneous environments

- Search and view geospatial resources
- Manage, publish, and store metadata
- View live map services
- Download data



Geoportal Server interfaces

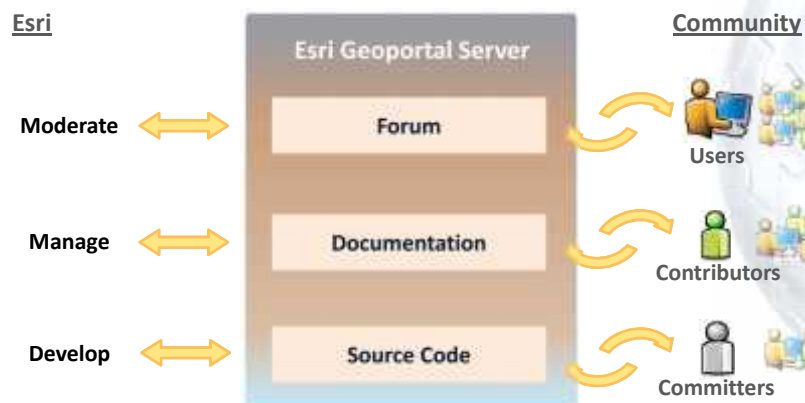


Open Source Geoportal Server

- <http://esriurl.com/geoportal>



Community Contributions Welcome



ArcGIS for INSPIRE add-ons

- con terra's sdi.suite add-ons for ArcGIS for INSPIRE

- **sdi.suite securityManager:** access control, security, single sign on
- **sdi.suite licenseManager:** eCommerce and eLicensing for INSPIRE
- **sdi.suite serviceMonitor:** Monitoring & Reporting



How to get further information

- ArcGIS for INSPIRE product website:
www.esri.com/inspire
 - Flyer, Product description, White papers
- ArcGIS for INSPIRE Resource center:
<http://resources.arcgis.com/content/arcgis-inspire/1.0/about>
 - Geodatabase templates, Forum, Code gallery
- SDI & INSPIRE user stories:
<http://www.esri.com/industries/map-chart-dataproduction/spatial-data-infrastructure/europe.html>

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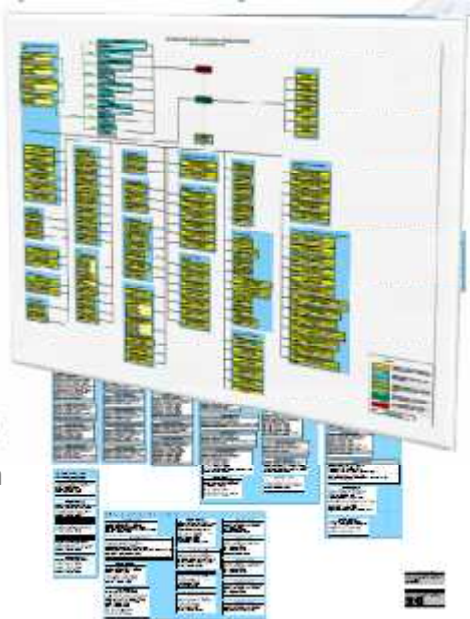
Iskustva GISDATE u implementaciji NSDI

- **Geoportal**
Državne
geodetske uprave
(DGU), Hrvatska
- **Geoportal Uprave**
za nekretnine,
Crna Gora



Iskustva GISDATE u implementaciji NSDI

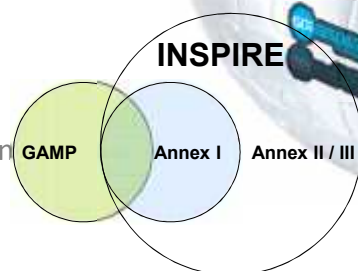
- **ISPRS – GAMP**
 - oblikovanje modela podataka proširenjem predloženog GAMP-a
 - baziran na standardiziranom ESRI geodatabase modelu
 - izrađen sukladno međunarodnom standardu ISO 19109:2005
 - aplikacijska shema opisana formalnim UML jezikom (ISO 19501:2005)



Iskustva GISDATE u implementaciji NSDI

- **ISPRS – GAMP + INSPIRE Annex I**

- Oblikovanje modela podataka ISPRS izvršeno je preklapanjem predloženog proširenog GAMP-a s INSPIRE Annex I modelom baze podataka
- Teme i slojevi koji su identificirani kao zajednički u oba modela nastavno su dizajnirani prema INSPIRE Annex I application shemi, a svi ostali prema međunarodnim standardima na kojima počiva dizajn GAMP-a (ISO 19109:2005 i ISO 19501:2005).



Školovanje za Geoportal ekstenziju

- **Novo:**
Implementacija ArcGIS Geoportal Ekstenzije
 - 2 dana
 - instalacija, konfiguriranje, administracija
 - Korištenje web sučelja, kao i korištenje ArcGIS Desktop klijenata za objavljivanje metapodataka
- Redovni tečaj na rasporedu GISDATE

Esri-jeva rješenja za NIPP sukladna zahtjevima INSPIRE-a i iskustvima GISDATE u implementaciji

ivica.skender@gisdata.com

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Provjereno učinkovita rješenja za stvaranje, upravljanje i razmjenu prostornih informacija

Infrastruktura prostornih podataka

Prikupljanje, obrada, geopodaci

Web-based consulting

Hazardi

Edukacija

Istraživanje

Potpora

Navedena verzija je elastičnog ESRI softvera, a:

ArcGIS 10

"Imagery"

- Geopodaci i medijaci s CAD-om
- GIS na webu, datumi i aplikacije
- Povećana produktivnost
- Mobilni GIS
- Proizvodnja analize, geoproceniranja
- Infrastruktura prostornih podataka

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