



INSPIRE Shared Service

Creation and operation out of the box



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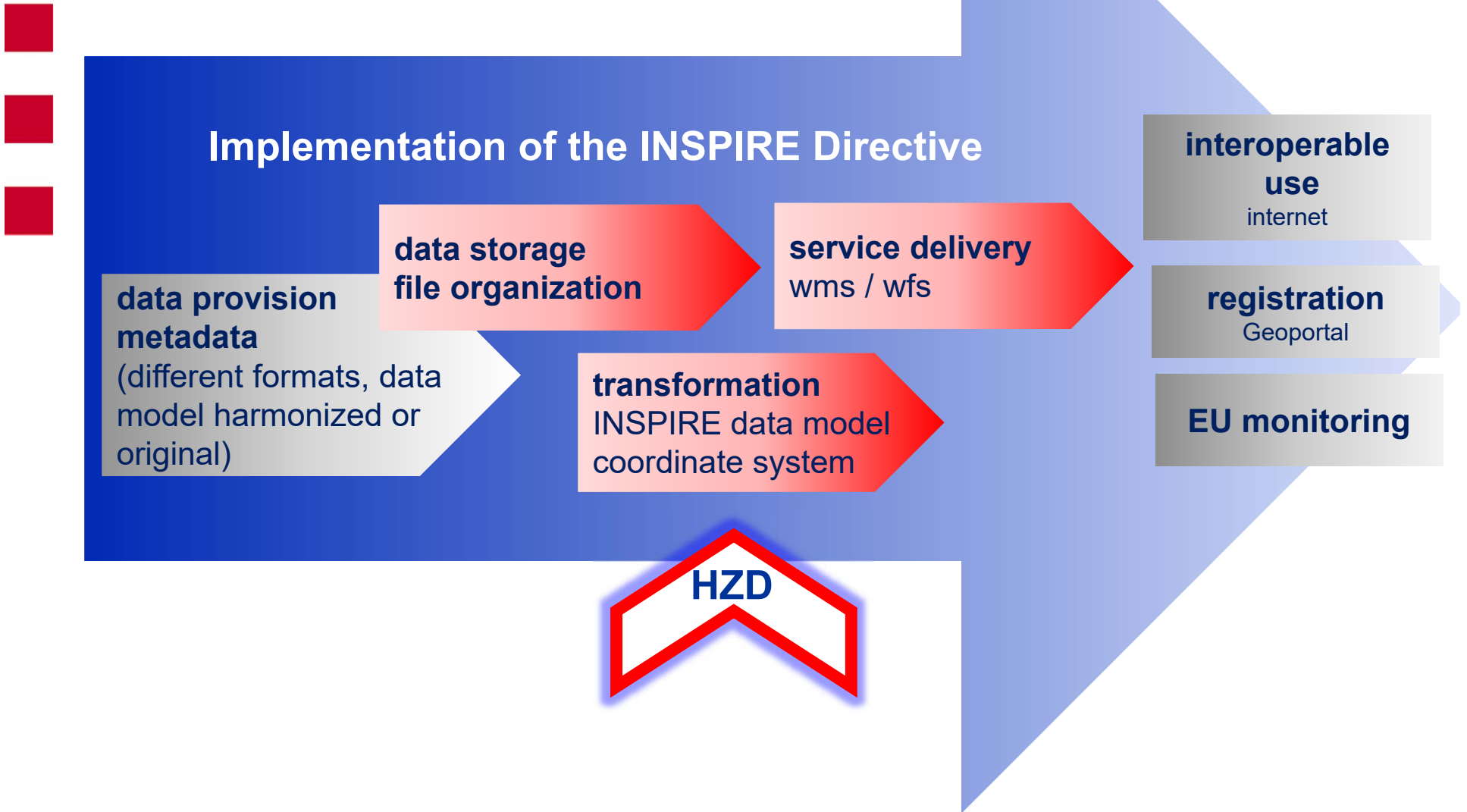
Agenda

- HZD backbone for a geodata infrastructure
- Implementing INSPIRE Shared Service (IIS)
- HZD INSPIRE Solution
- Current projects
- How does HZD expand and use INSPIRE?

HZD - backbone for a geodata infrastructure

- Hessian Center of Data Processing (HZD)
 - More than 45 years a reliable partner of the Hessian state administration and other IT-co-operations.
 - 2017 > 800 people in the staff
 - Bundling key IT know-how
 - HZD stands for innovative, high-quality and competitive IT system development and operation (e.g. Data Center, HessenPC, IT-Fabrik, Hessian wide-network, IT-Security, ...)
 - The HZD strength is the professional, quality-assured IT service from one source
 - HZD operates as a provider for geodata infrastructure in Hesse and ensures customer-, operational- and support-oriented solutions around the topic of geoinformation

Implementing INSPIRE Shared Service (IIS)



Implementing INSPIRE Shared Service (IIS)

■ **High profitability**

- Avoiding high investment costs for decentralized IT technology
- Retrieval of centrally held special GIS know-how

■ **High operating safety**

- Use of all the advantages of the modern data center HZD
- Secure data storage - no data transfer to uncertain data-clouds

■ **High availability**

- Securing the INSPIRE requirements regarding availability and performance
- 99% availability (7/24), max. 15 minutes of failure, etc.

■ **High level service**

- Unified, annual basic package for the use of the ISS – including the costs for: Server, DB, licenses, updates, monitoring, IT-security, ticket system, ...)

Implementing INSPIRE Shared Service (IIS)

5 steps to put your geodata services into operation

1. Contact

Call/E-Mail
the HZD

2. Content

Specify your
issue:
Harmonization
Data format
Data volume ...

3. Contract

Assignment
with simple
pricing:
a. for the
service
b. for the initial
creation

4. Creation

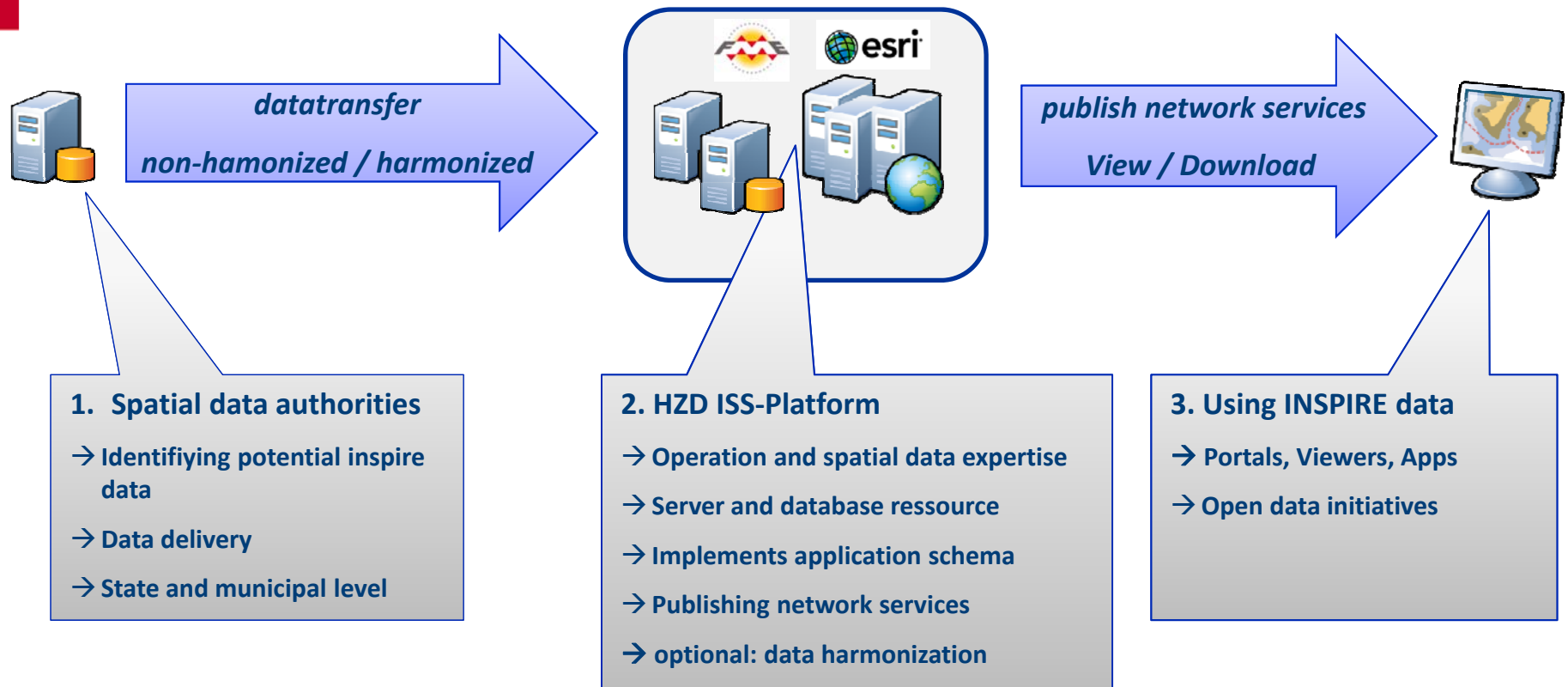
Implementation of
Service wms/wfs
on the ISS test-
platform
in tight
consultation
with the
customer

5. Operation

Provision and
operation
wms/wfs on
the ISS
production
platform

HZD INSPIRE Solution

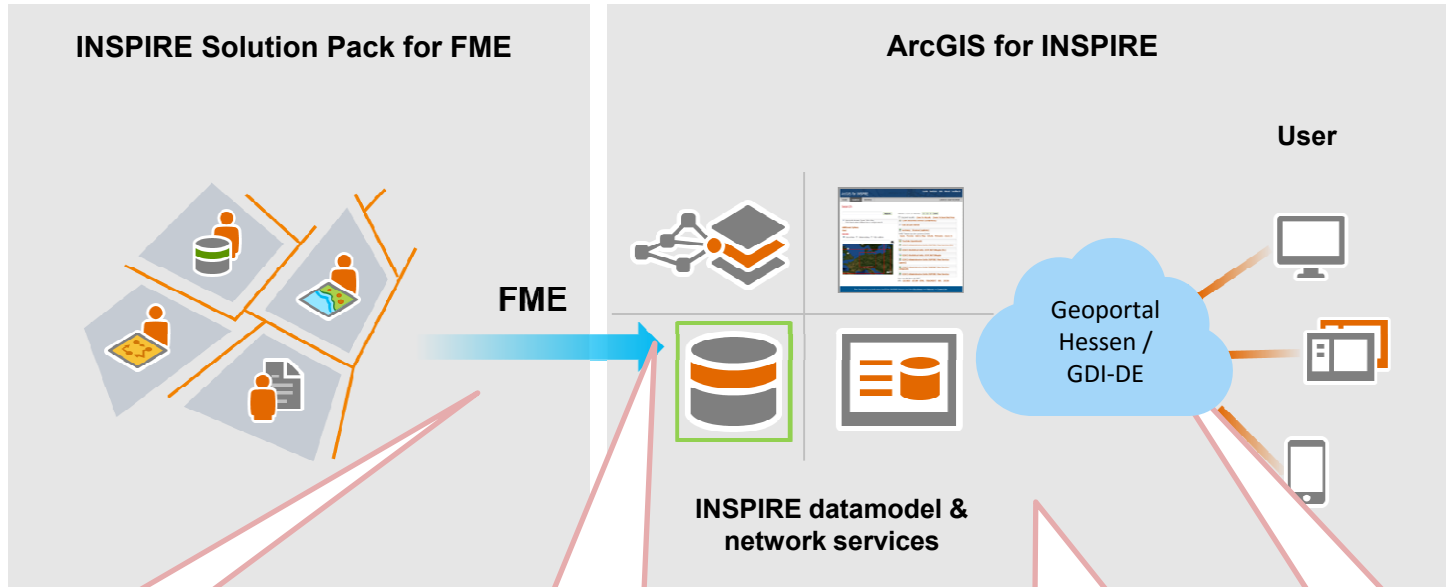
INSPIRE Shared Service (ISS)



HZD INSPIRE Solution



■ Technical workflow within the ISS Solution



1. Data harmonization

2. Storing non harmonized and harmonized data in geodatabases which implements the application schema

3. Publishing View (WMS) and Download Services (WFS)

4. Creating metadata via external Discovery Services e.g. Geoportal Hessen



HZD INSPIRE Solution



■ INSPIRE Solution Pack for FME

- Making the harmonization process as easy as possible
- Using FME standard functionality (ETL)
- Extending FME with INSPIRE specific information and functionality

HZD INSPIRE Solution



■ INSPIRE Solution Pack for FME



Original data model
Meta Informatio
Data history
Data quality
Expertise

INSPIRE Solution Pack 

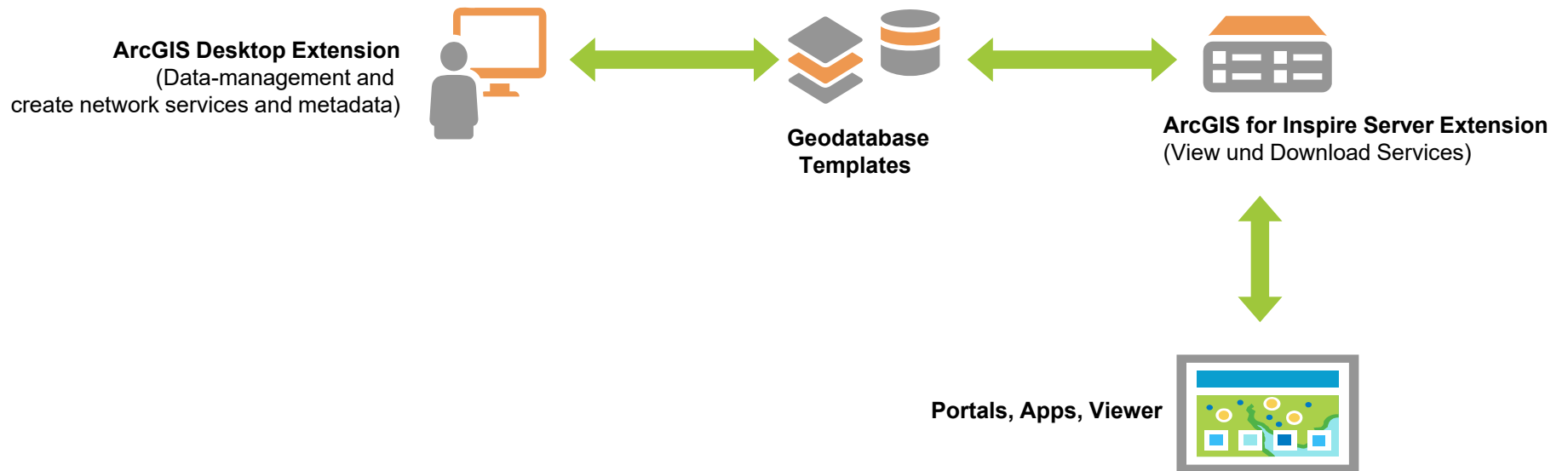


INSPIRE Specification
INSPIRE directive
INSPIRE requirements
Know-How (Annex I, II, III)

HZD INSPIRE Solution

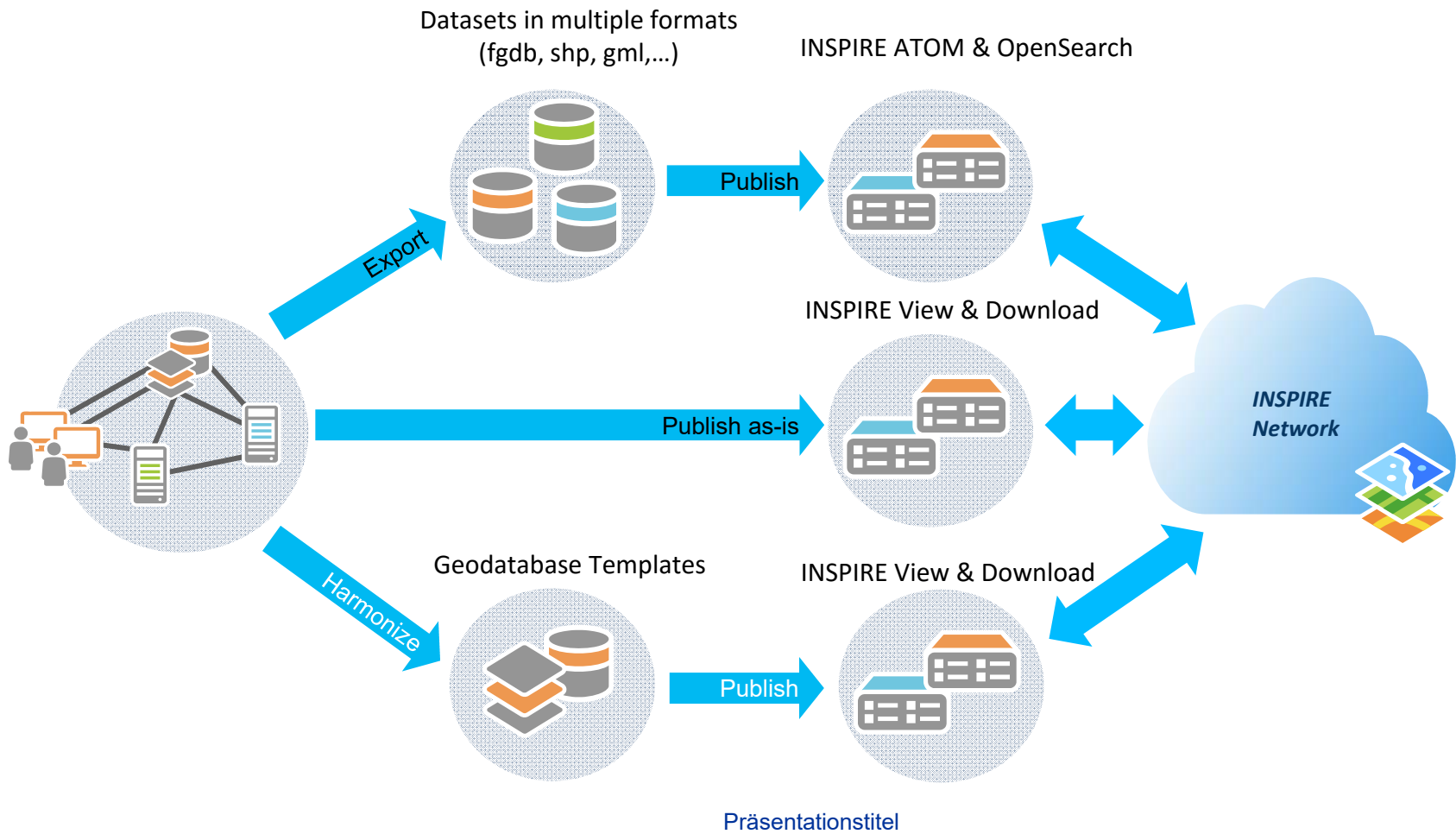


ArcGIS for INSPIRE

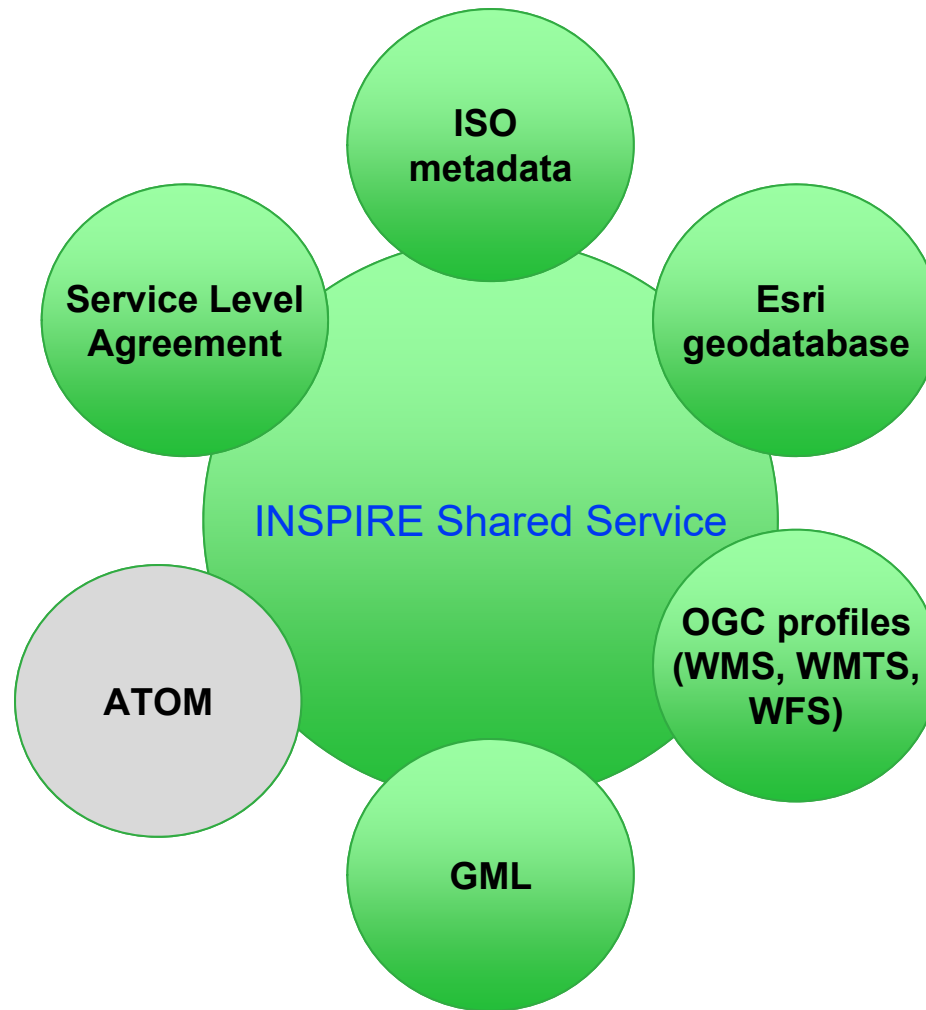


HZD INSPIRE Solution

Options for implementation



HZD INSPIRE Solution



Current projects

Topics of the first stage of the ISS development:

- Hessian State Office for Regional Planning
 - Regional development plan and others
- Hessian State Office for the Preservation of Monuments
 - Complete facilities, individual cultural monuments, natural monuments
- Hessen Mobil (road and traffic management)
 - Road network, network nodes, etc.
- Hessian State Office for Land Management and Geo-Information
 - ALKIS, BasisDLM, DLM50, etc.

- *In progress: ISS for the municipalities*

How does the HZD expand and use the INSPIRE Shared Service?

- Increase the benefits for geodata-providers and -users
 - Expanding **highly available geodata** from administrative geodata-providers as a potential for “Open-Geodata”
 - Geodata provision for the optimization of **open (government) data** (environment, transport, statistics ...) and as a base for **mobile apps** in Hesse
 - Geodata integration into **application-specific theme portals** (e.g. "Basisauftritt Land Hessen" , see <https://landesplanung.hessen.de/lep-hessen-0>)
 - **ISS as a service not limited** on Hesse and open for municipalities
 - **ISS-geodata-partnership** - the HZD has a long history in IT co-operation with municipalities and other federal states. Sharing IT processes, IT infrastructure and resources, reduces single costs and the public budgets are relieved.



HZD

Hessische Zentrale für Datenverarbeitung



Thank you for your attention!

More information about the HZD
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