INSPIRE Network Services with deegree

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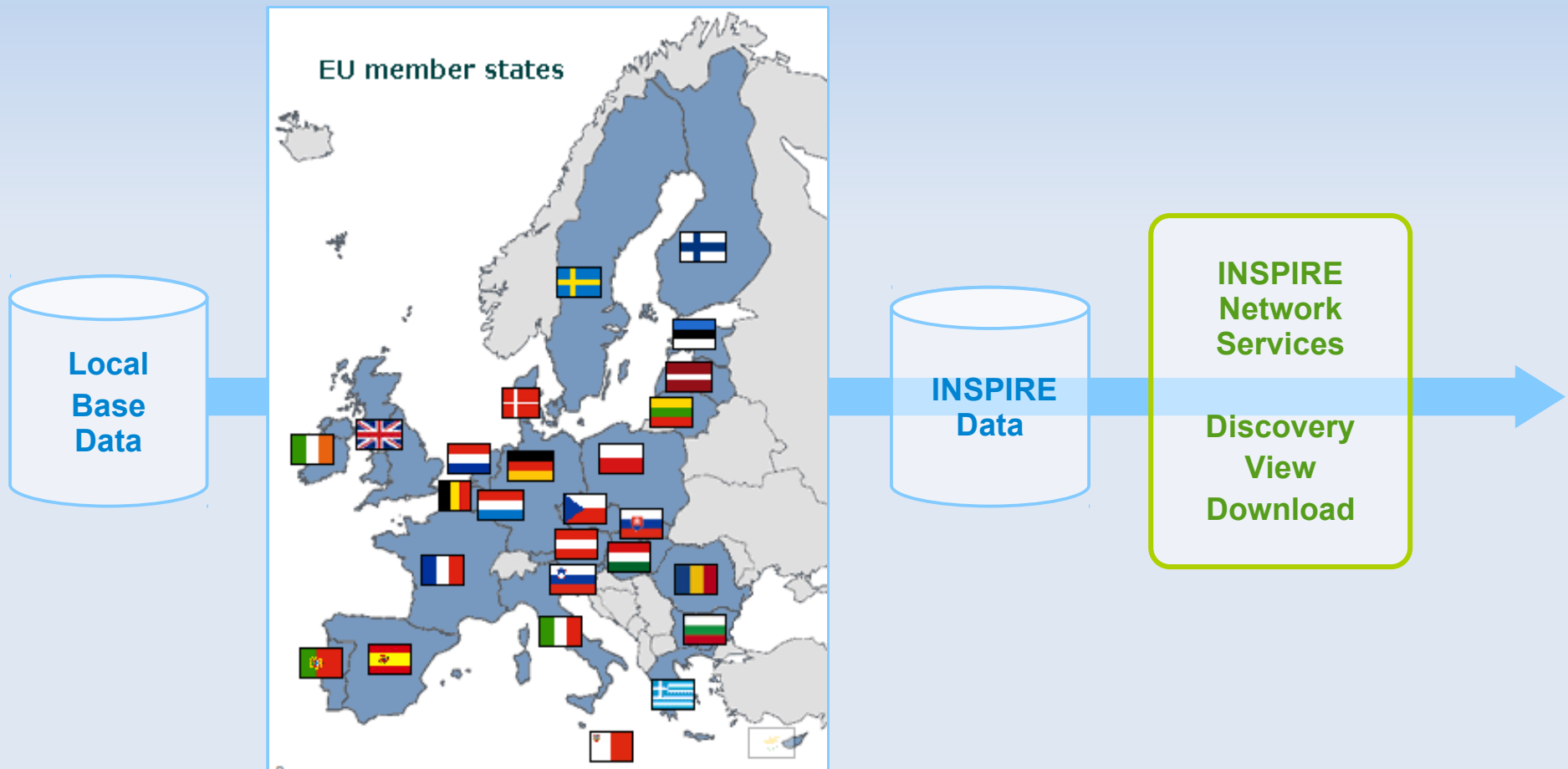(haftungsbeschränkt)

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Outline

- Implementing INSPIRE: A technical perspective

- INSPIRE Network Services offered by deegree

  - Discovery Service

  - View Service

  - **Download Service**

  - Transformation Services
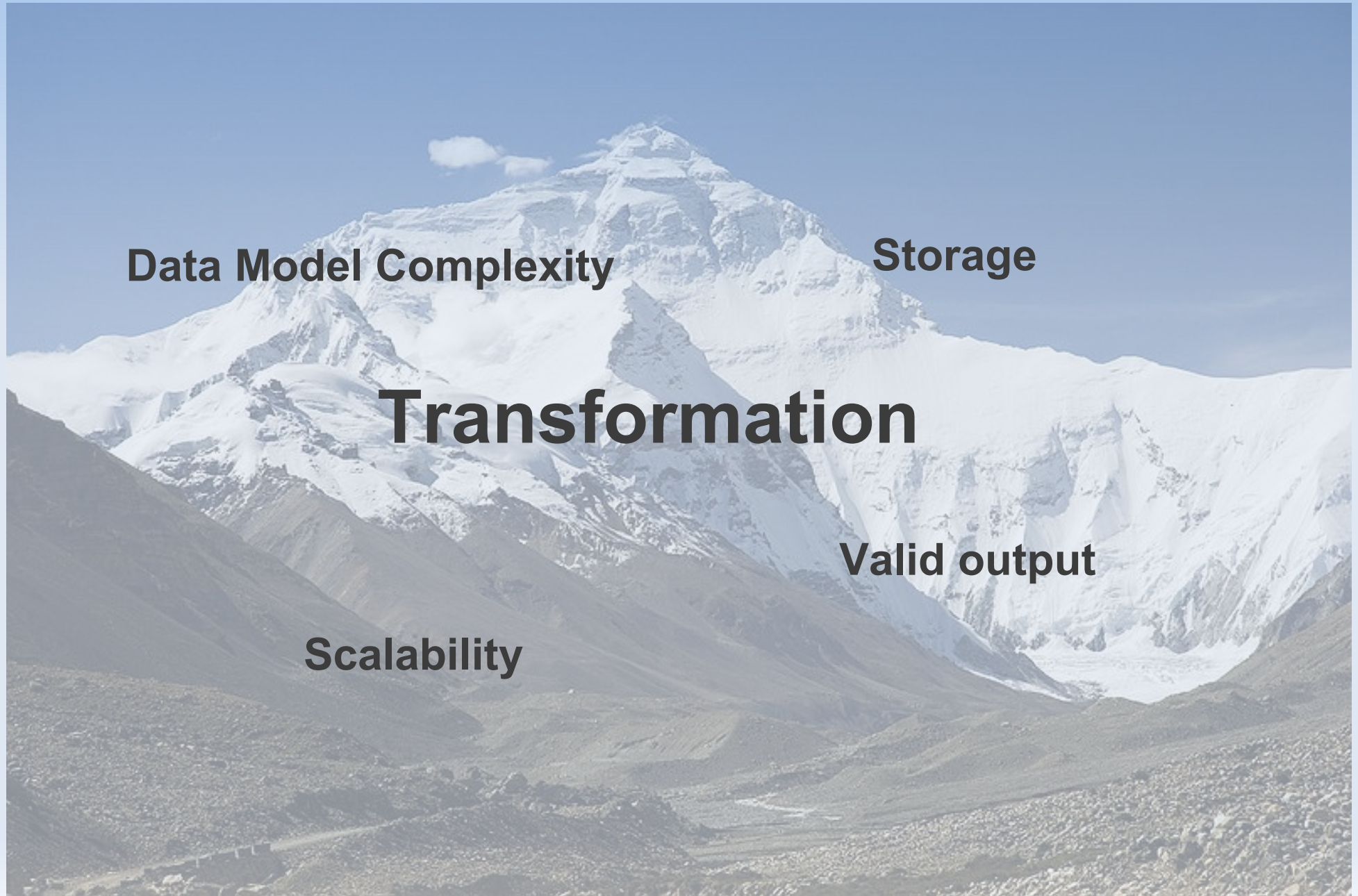
- Getting started

Implementing INSPIRE Services

Technical implementation tasks

- Make your base data INSPIRE compliant

- Create INSPIRE Network Service infrastructure

  - Compliance

  - Scalability

  - Reliability

The Download Service Challenge

About deegree

- Open Source Framework

  - Geospatial applications and webservices

  - deegree 3 is designed for INSPIRE

- Example deegree INSPIRE deployments

  - Successfully used in ESDIN

  - Base technology for the JRC INSPIRE portal

  - Dutch Provinces
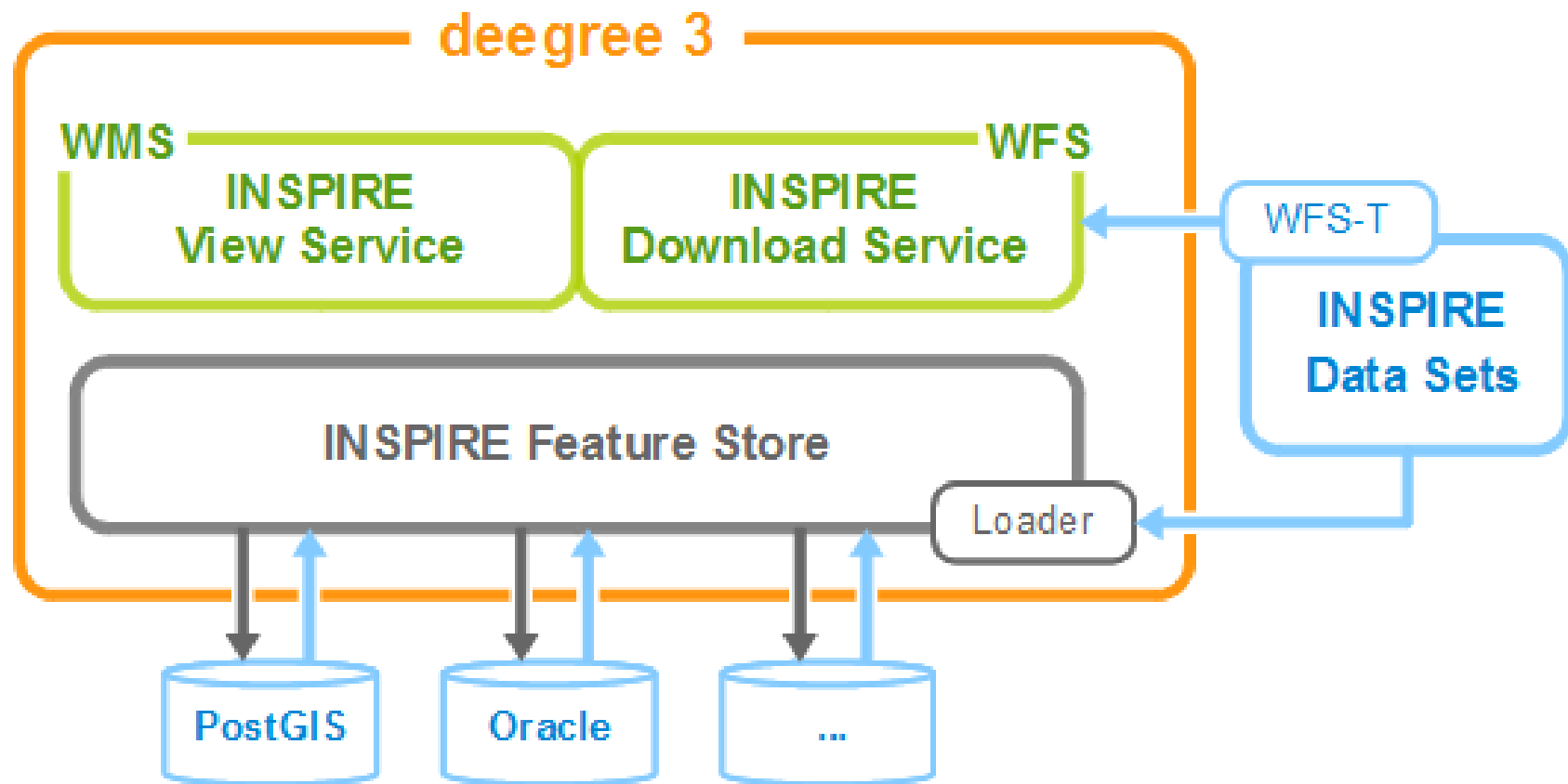
deegree INSPIRE services

- Available as "turn-key" solutions

  - INSPIRE Discovery Service 3.0 / 3.1

  - INSPIRE View Service 3.0 / 3.1

  - **INSPIRE Download Service 2.0**

- Additionally (via generic WPS processes)

  - INSPIRE Transformation Services
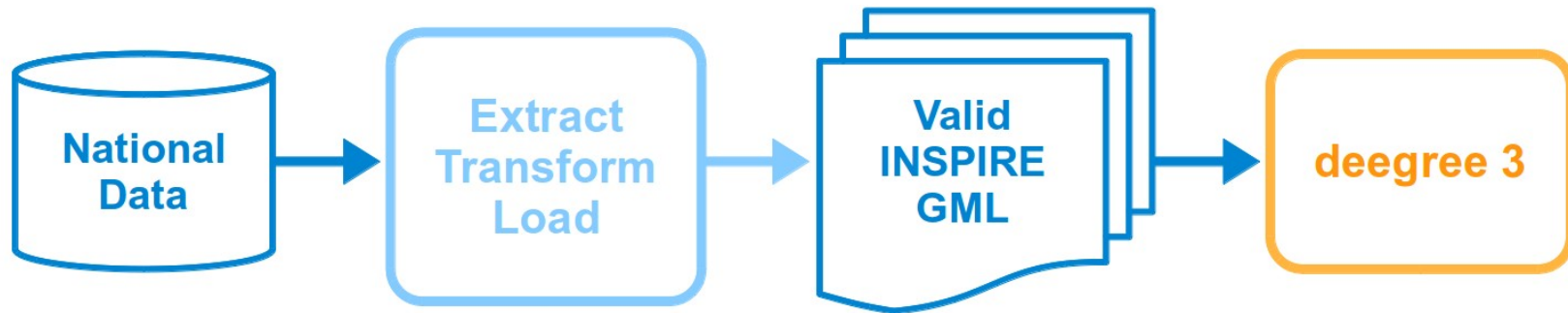
deegree: Download Service

- Full protocol support (incl. WFS 2.0.0)

- Compliant INSPIRE/GML 3.2.1 output

- Streaming architecture

- Sophisticated storage options

  - Oracle Spatial / PostGIS / (MSSQL*)

  - Relational Mapping / BLOB storage

*adapter available as closed-source from lat/lon

Architecture
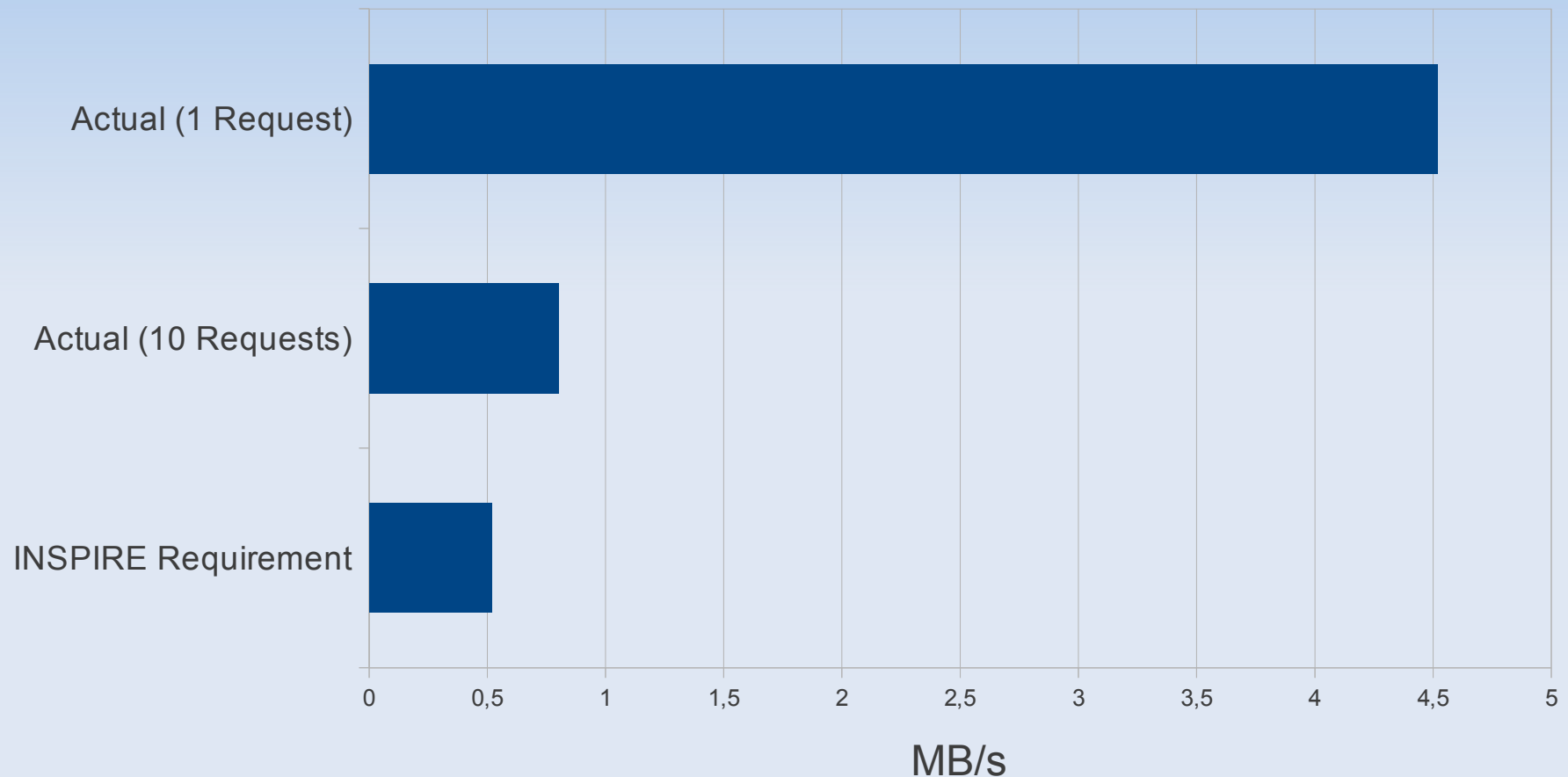
How to add your data: Option 1

- Transform data to INSPIRE GML first

- Possible tools: FME, XSL, Java, ...

- Insert via WFS-T request or Loader

How to add your data: Option 2

- Create a mapping configuration
- Using deegree's powerful mapping language

Download speed example

INSPIRE Protected Sites (69377 datasets), deegree 3.1.2, PostGIS 8.4, Lenovo Thinkpad

Getting started

- Visit deegree.org (just relaunched)

- Download deegree web services package

- Activate INSPIRE ”workspace”

- Consult deegree web services handbook

- Feedback welcome!

Need help?

- Community support (mailing lists)

- Commercial support / data transformation

  - Occam Labs: www.occamlabs.de

  - lat/lon: www.lat-lon.de

  - IDgis: www.idgis.nl

Thank you for your attention!

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(haftungsbeschränkt)

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