

TRAIN THE TRAINERS

Setup of a training facility/NSDI
Lab

OUTLINE

Stack

Delivery

ETL (Extract Translate Load)

Data store

Services

Proxy

Usage

Scalability

AGILE

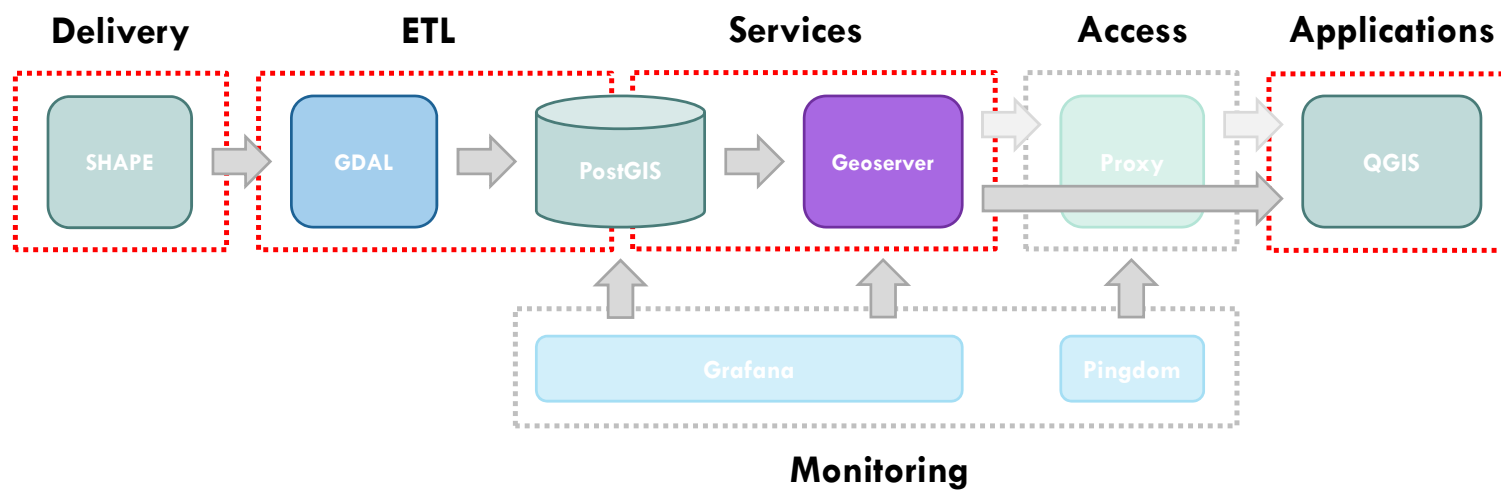
Think big, start small, move fast

I first started using this expression 5 years ago, after I heard it at the Clinton Global Initiatives summit

It has proven to be an effective and powerful way to understand how to get change started

Why?
What does it really mean?

STACK



STACK - COMMUNICATION

Let's document our knowledge and tools for further training purposes

Let's create a communication channel

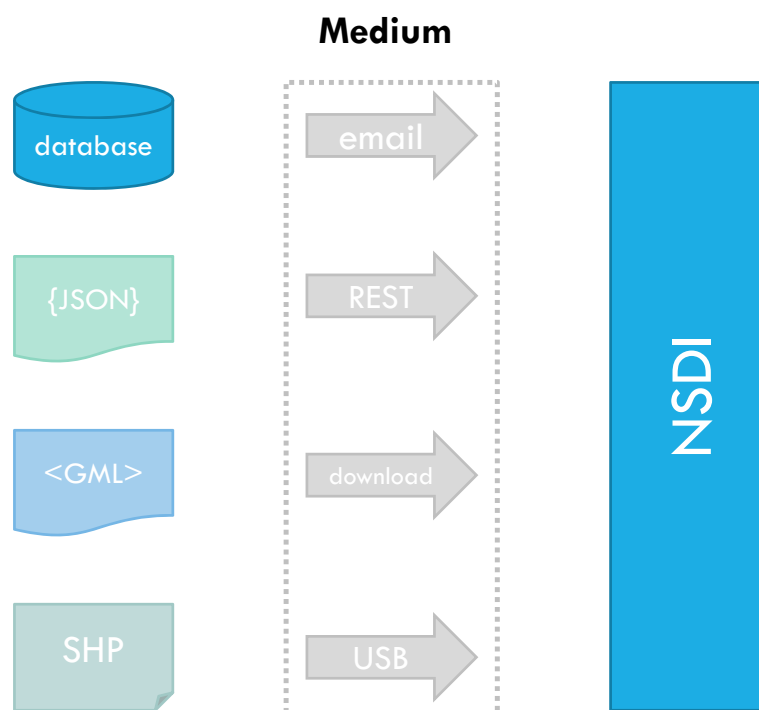
GitHub



STACK

GDAL	http://www.gdal.org
Postgresql	https://www.postgresql.org
Geoserver	http://geoserver.org
Pingdom	https://www.pingdom.com
Grafana	https://grafana.com
QGIS	https://www.qgis.org
Github	https://github.com
Slack	https://slack.com

DELIVERY



DELIVERY

Datatype

- SHP, Geopackage, GML, JSON, FGDB, Raster, ...

Size

- 1TB of GeoTIFF, 1MB Shape

Amount

- 10.000.000 features, 10 features

Frequency

- Once a year, multiple times a day

Standardization

- Always the same format

ETL



ETL

GDAL

- QGIS
- Commandline

FME

ESRI toolbox

Custom applications

- jts (java topology suite)

Transformations

- constructing new features

(re)projections

- epsg:3909 -> epsg:4258

DATA STORE

Data structure

- Tables

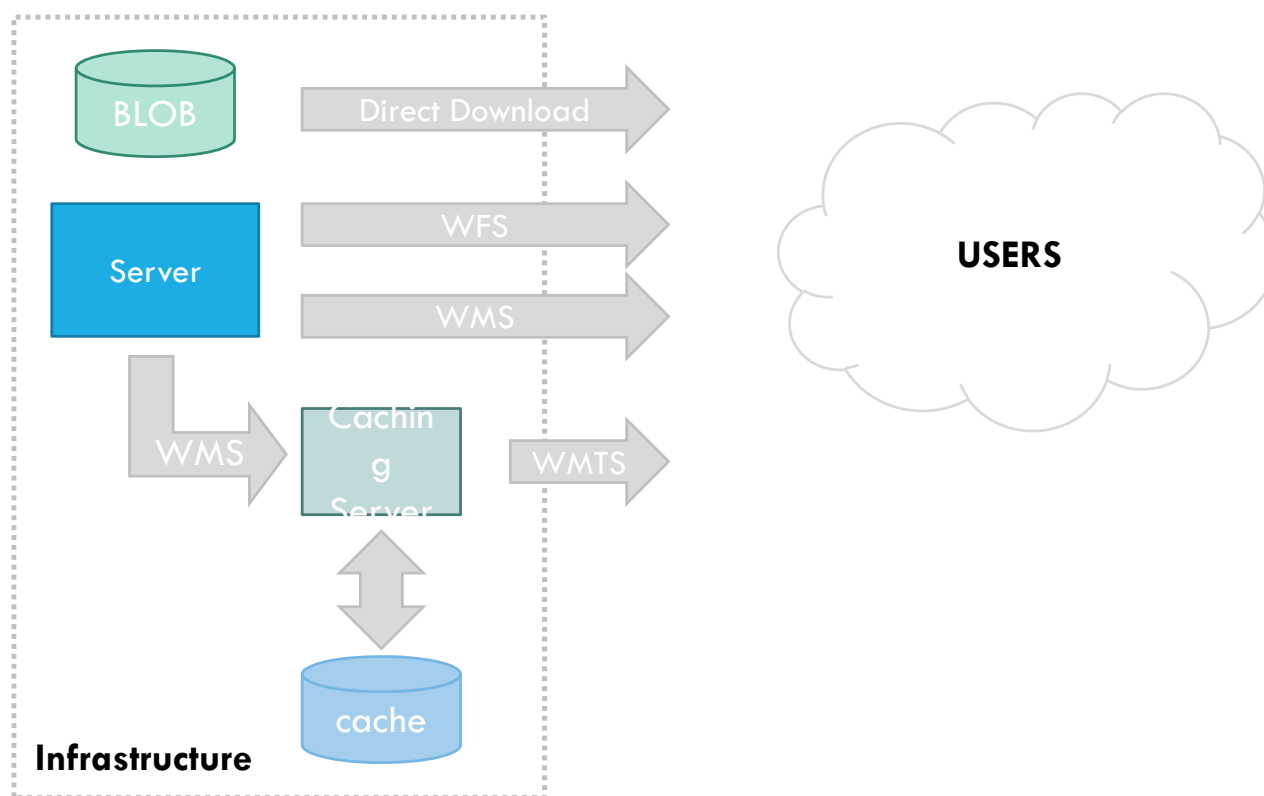
Performance

- Indexes
- Tuning

Type

- Postgis
- Oracle
- SDE
- MongoDB
- CouchDB

SERVICES



SERVICES

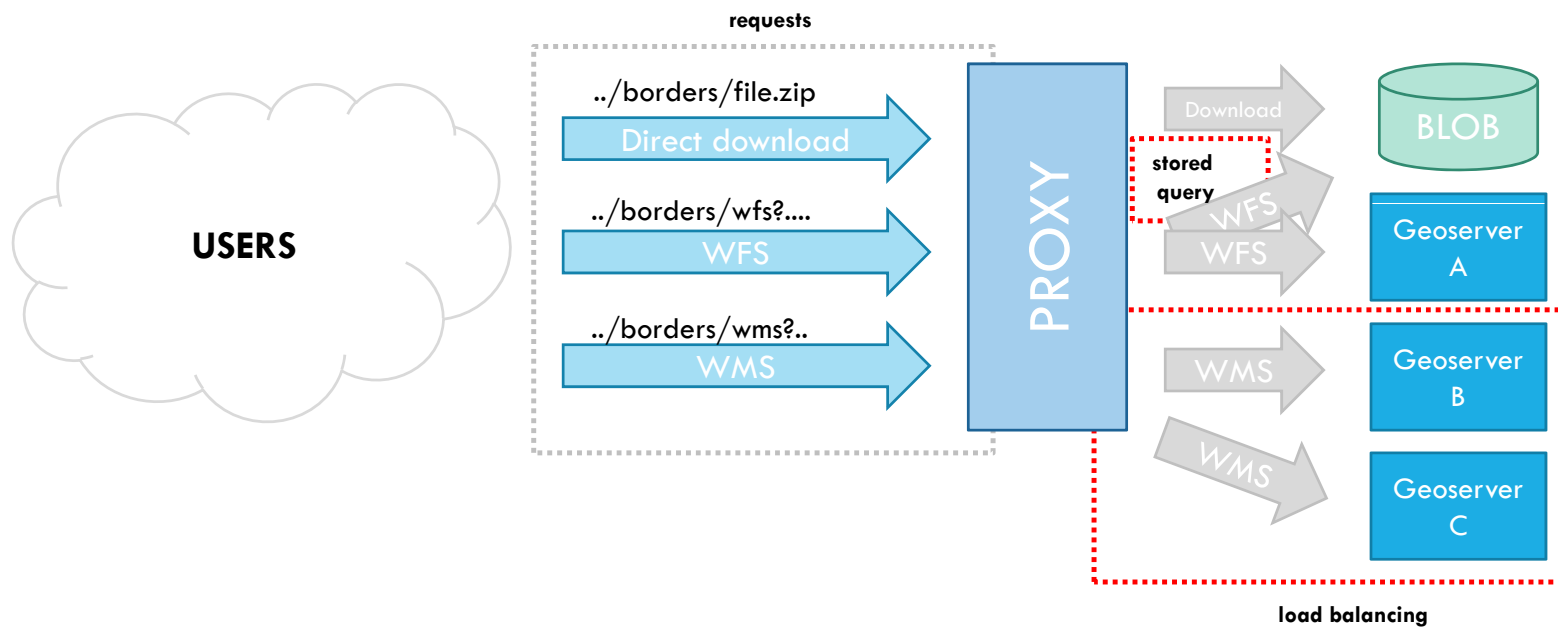
View services

- Dynamic
 - WMS
- Static
 - WMTS/TMS

Download services

- Dynamic
 - WFS
- Static
 - Direct download

ACCESS



ACCESS

Routing traffic

- Load balancing
- Separating services

Security

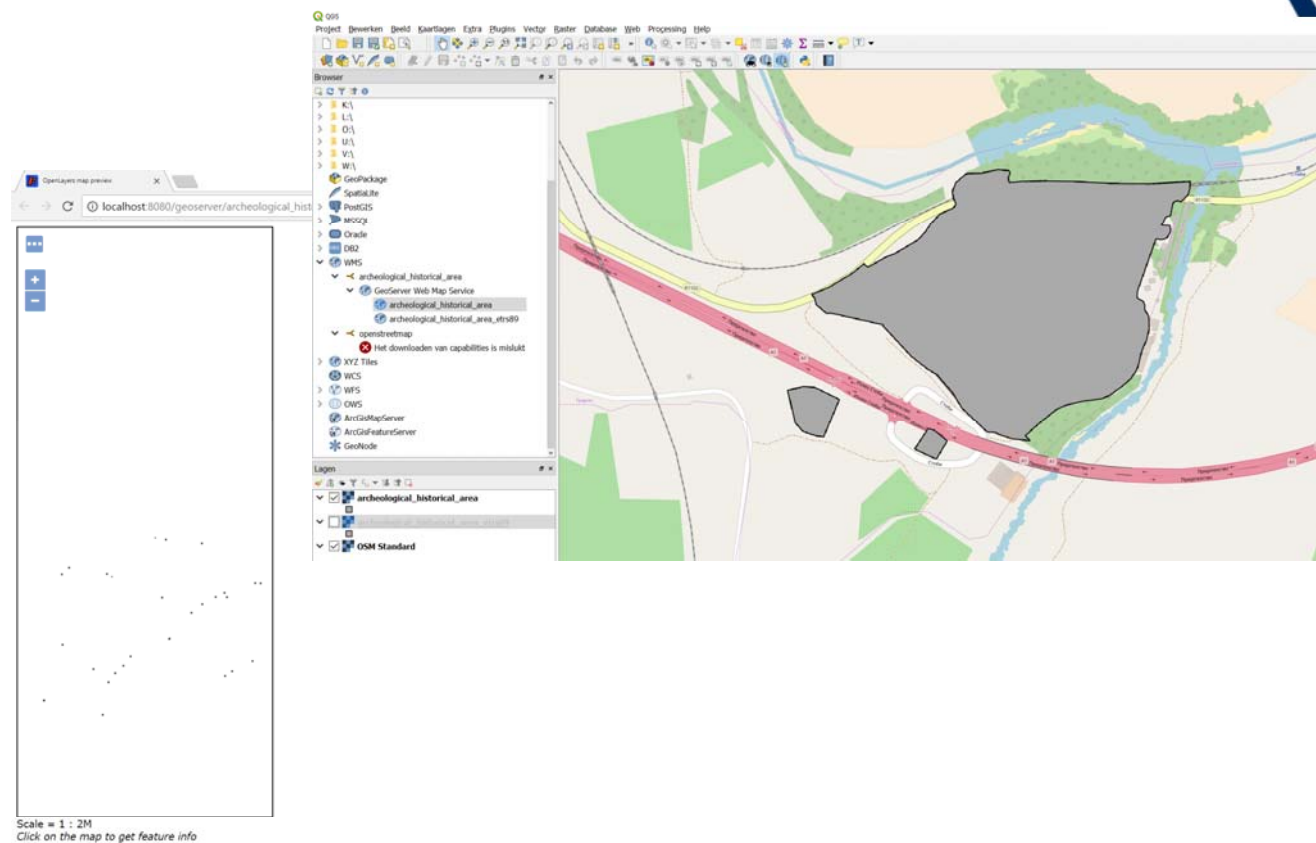
- HTTPS
- Access control

USAGE

QGIS

ESRI

Openlayers/Leaflet



SCALABILITY

(our experience..., when we have some time left)

- Performance
- Usage

QUESTIONS

