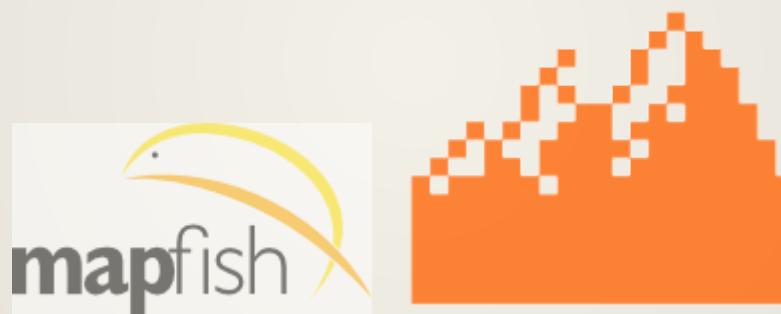


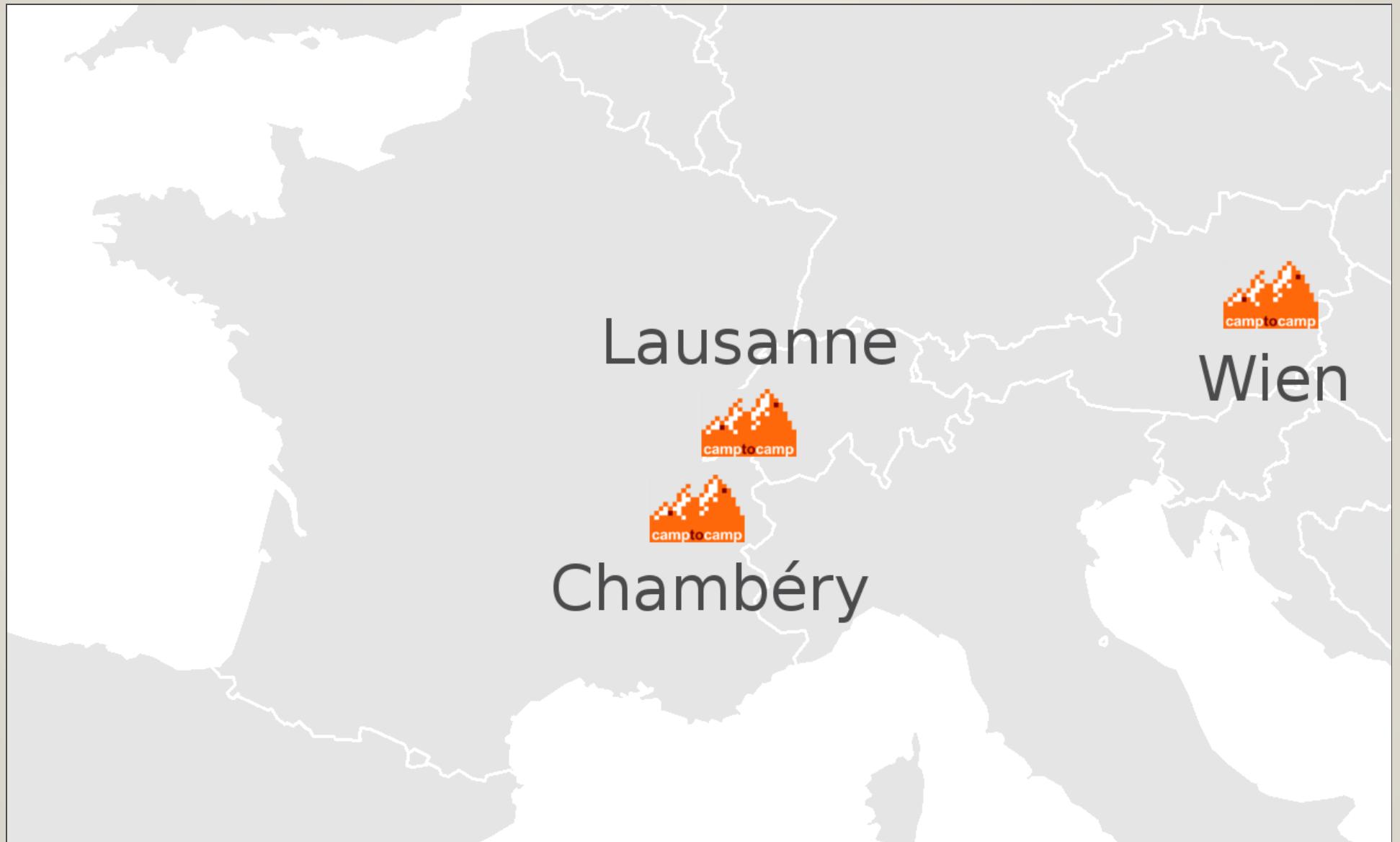
MapFish Print 3

Printing maps like a boss



Tobias Sauerwein
Camtocamp

CAMPTOCAMP



CAMPTOCAMP

GEOSPATIAL

BUSINESS

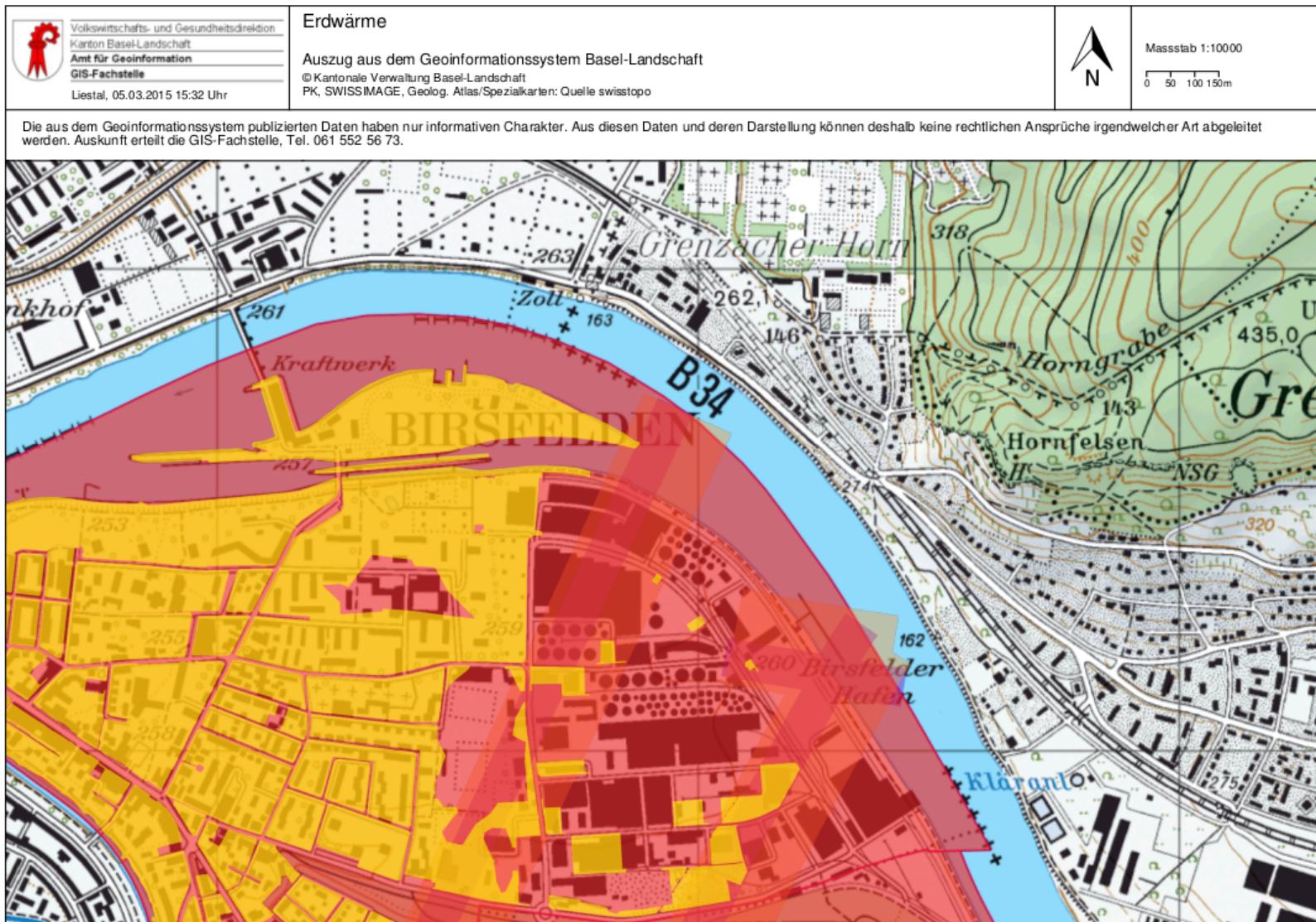
BERATUNG, STUDIEN,
FORSCHUNG & ENTWICKLUNG

OPEN SOURCE SOFTWARE
SUPPORT

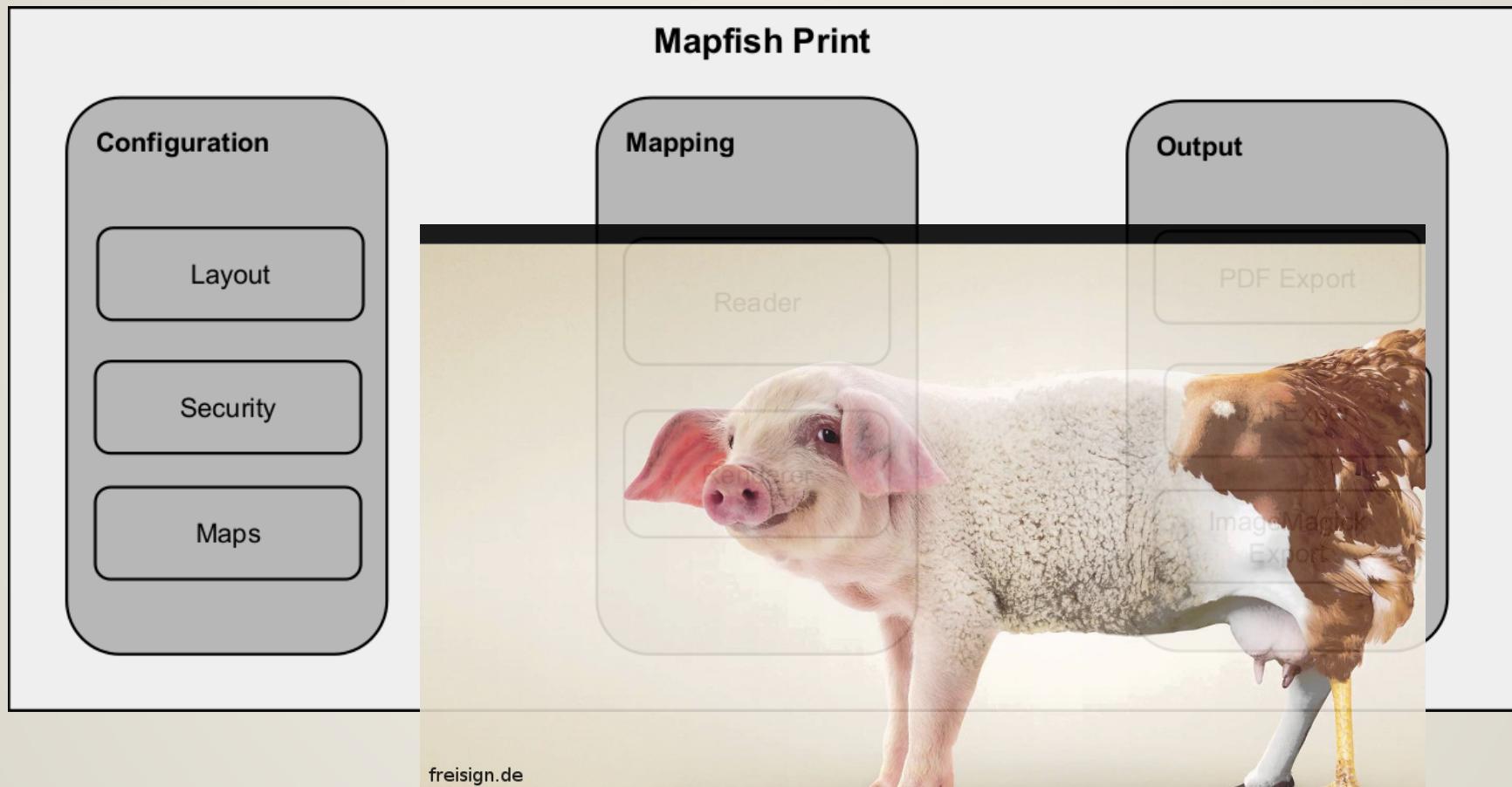
We are
hiring

SCHULUNG

MAPFISH PRINT?



THE PAST: MAPFISH PRINT 2



MAPFISH PRINT 3



Mapping



Layout



Plugin Framework

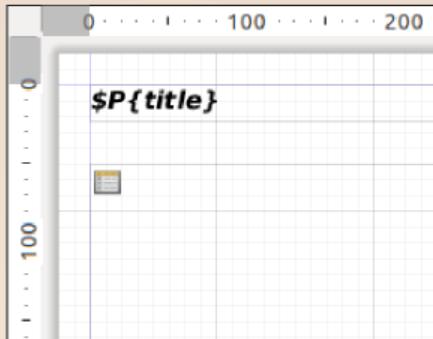


MapFish Print
Web API / Security / Widgets

PRINT PROCESS

```
templates:  
  A4 Portrait: !templ  
  reportTemplate: r  
  attributes:  
    title: !string  
    map: !map  
    width: 555  
    height: 730  
    maxDpi: 600  
    scalebar: !scal  
    width: 230  
    height: 40  
  processors:  
    - !reportBuilder
```

config.yaml

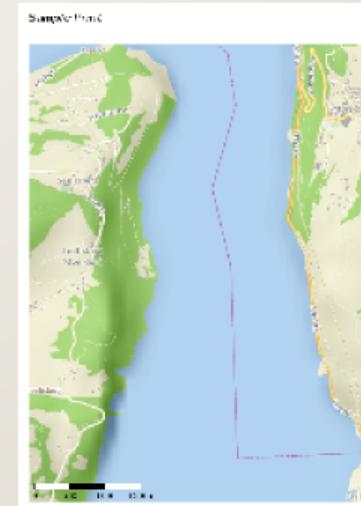


report.jrxml

Configuration

POST /print/simple/report.pdf

```
{  
  "layout": "A4 Por  
  "outputFormat": "  
  "attributes": {  
    "title": "Sam  
    "map": {  
      "bbox": [18  
      "projection  
      "dpi": 72,  
      "rotation":  
      "areaOfInte  
      "style":  
      "display"  
      "renderAs"
```



YAML CONFIGURATION

```
templates:  
  A4_Portrait: !template  
  reportTemplate: report.jrxml  
attributes:  
  ...  
processors:  
  ...
```

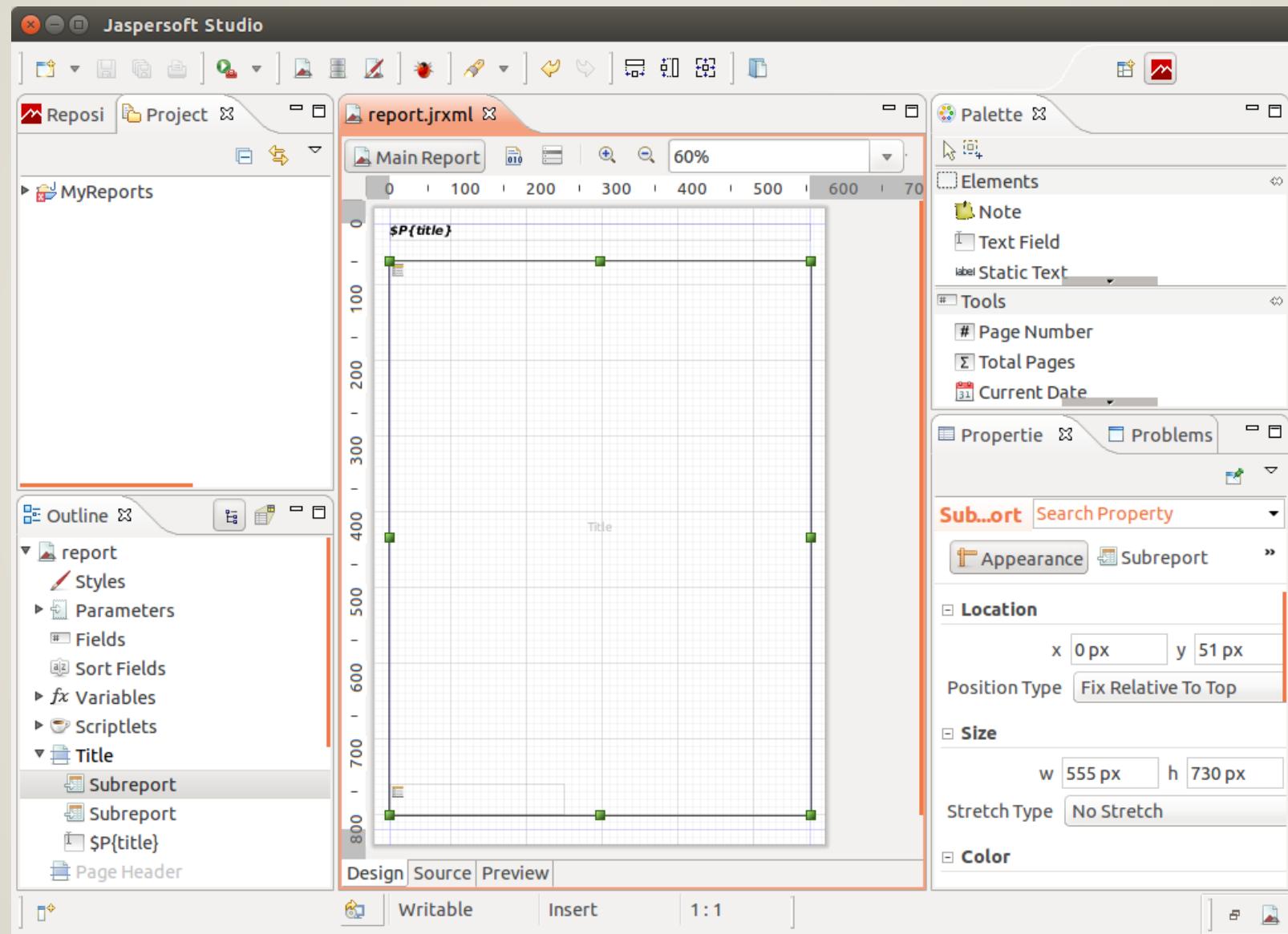
YAML CONFIGURATION (ATTRIBUTES)

```
templates:  
    A4_Portrait: !template  
        reportTemplate: report.jrxml  
        attributes:  
            title: !string {}  
            map: !map  
                width: 555  
                height: 730  
                maxDpi: 600  
            scalebar: !scalebar  
                width: 230  
                height: 40  
processors:  
    ...
```

YAML CONFIGURATION (PROCESSORS)

```
templates:  
  A4_Portrait: !template  
    reportTemplate: report.jrxml  
  attributes:  
    ...  
processors:  
  - !reportBuilder  
    directory: '.'  
  - !createMap  
    inputMapper: {map: map}  
    outputMapper: {mapSubReport: mapSubRepo}  
  - !createScalebar {}
```

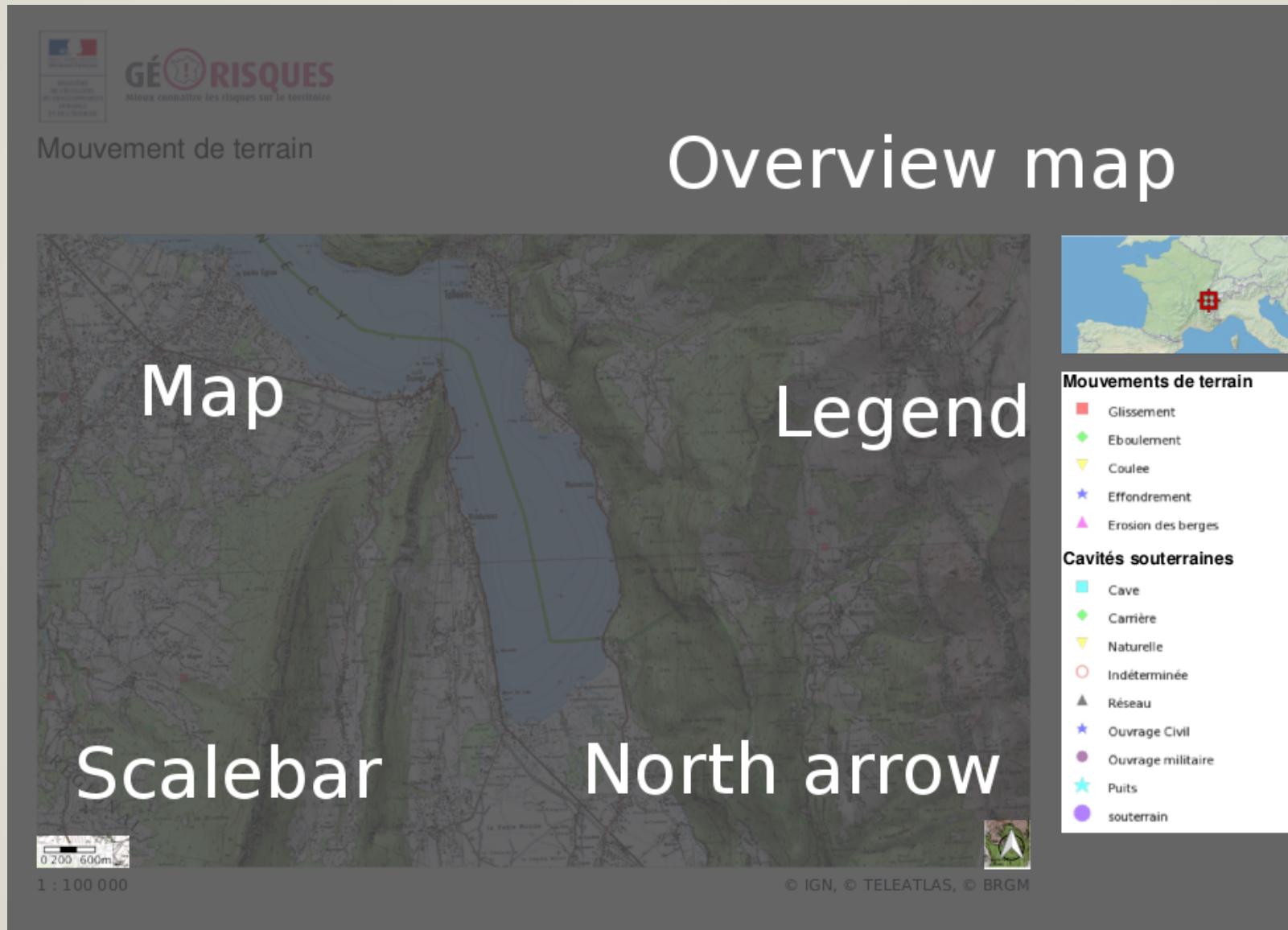
REPORT DESIGNER: JASPERSOFT STUDIO



PRINT REQUEST

```
{  
  "layout": "A4 Portrait",  
  "outputFormat": "pdf",  
  "attributes": {  
    "title": "Sample Print",  
    "map": {  
      "projection": "EPSG:3857",  
      "dpi": 72,  
      "center": [957352.8034848921, 5936844.1  
      "scale": 25000,  
      "layers": [  
        { "type": "osm", "baseURL": "http://t  
      ]  
    }  
  }  
}
```

MAP WIDGETS



SUPPORTED GEO-DATA

- Vector
 - GML
 - GeoJSON
 - WFS
- Raster
 - XYZ Tiles (OSM, ...)
 - (Tiled) WMS
 - WMTS
 - GeoTIFF

WE GOT STYLE!

- Full GeoTools styling with **SLD**
- **MapFish Print 2 JSON styles** (similar to OpenLayers 2 styles)
- **Improved JSON styles**

```
" [INTERSECTS (geometry, buffer (POLYGON ( . . . ),  
  "symbolizers": [  
    {  
      "strokeColor": "green",  
      "strokeWidth": 2,  
      "type": "line"  
    }  
  ]  
},
```

Maps are cool.
But we can do more!

TABLES

 <p> Volkswirtschafts- und Gesundheitsdirektion Kanton Basel-Landschaft Amt für Geoinformation GIS-Fachstelle Liestal, 07.03.2015 12:20 Uhr </p>	<p>AED Standorte</p> <p>Auszug aus dem Geoinformationssystem Basel-Landschaft © Kantonale Verwaltung Basel-Landschaft PK, SWISSIMAGE, Geolog. Atlas/Spezialkarten: Quelle swisstopo</p>	
<p>Die aus dem Geoinformationssystem publizierten Daten haben nur informativen Charakter. Aus diesen Daten und deren Darstellung können deshalb keine rechtlichen Ansprüche irgendwelcher Art abgeleitet werden. Auskunft erteilt die GIS-Fachstelle, Tel. 061 552 56 73.</p>		

Zugangsinfo	Einschränkung	Strasse	Hausnummer	PLZ	Gemeinde
Gasthof Schlüssel, WC-Treppe	Während den Öffnungszeiten	Hauptstrasse	29	4153	Reinach
Parterre Gemeindeverwaltung links neben den Liften	nur während den Öffnungszeiten der Gemeindeverwaltung	Hauptstrasse	10	4153	Reinach BL
Meier & Co. AG; AED hängt an Aussenwand links neben dem Eingang	keine	Baselstrasse	5	4144	Arlesheim
im Eingangsbereich links	nachts geschlossen	Domplatz	12	4144	Arlesheim
Im Eingangsbereich	Bei geöffneter Anlage	Landskronstrasse	41	4147	Aesch
Neben Kasse	0900-1900 Mai - September	Dornacherstrasse	85	4147	Aesch
Empfang	Mo., Di. & Fr. 08.00 ? 12.00 Uhr / 13.30 Uhr ? 16.30 Uhr Mi. 07.30 ? 12.00 Uhr / 13.30 Uhr ? 18.00 Uhr Do. 08.00 ? 14.00 Uhr / nachmittags geschlossen	Hauptstrasse	23	4147	Aesch
Direkt auf der linken Seite im Eingangsbereich des Steinackerhauses	Montag, Dienstag, Donnerstag, Freitag in der Regel von 8 - 11.45 h und von 13.30 - 17 h. An den anderen Tagen nur, wenn ein Anlass stattfindet und das Steinackerhaus geöffnet ist.	Herrenweg	14	4147	Aesch

WHAT IS MORE AWESOME THAN A MAP? MORE MAPS!

Restaurants

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras egestas, massa eget placerat fermentum, nunc massa facilisis enim, id eleifend orci lacus sed sem. Donec ultricies rhoncus sem vel suscipit. Nullam fermentum mollis orci, volutpat tristique leo vulputate ut. Sed nisl dolor, auctor quis facilisis in, interdum et leo.

Lake View

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras egestas, massa eget placerat fermentum, nunc massa facilisis enim, id eleifend orci lacus sed sem. Donec ultricies rhoncus sem vel suscipit. Nullam fermentum mollis orci, volutpat tristique leo vulputate ut. Sed nisl dolor, auctor quis facilisis in, interdum et leo.

March 09, 2015



Chez Jean

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras egestas, massa eget placerat fermentum, nunc massa facilisis enim, id eleifend orci lacus sed sem. Donec ultricies rhoncus sem vel suscipit. Nullam fermentum mollis orci, volutpat tristique leo vulputate ut. Sed nisl dolor, auctor quis facilisis in, interdum et leo.



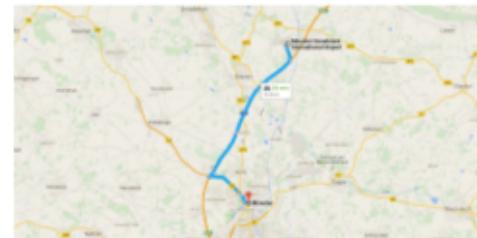
Little Italy

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras egestas, massa eget placerat fermentum, nunc massa facilisis enim, id eleifend orci lacus sed sem. Donec ultricies rhoncus sem vel suscipit. Nullam fermentum mollis orci, volutpat tristique leo vulputate ut. Sed nisl dolor, auctor quis facilisis in, interdum et leo.



Google

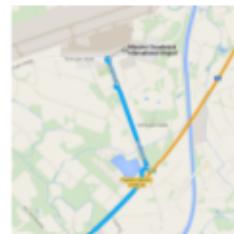
Directions from Münster Osnabrück International Airport to Münster



① Münster Osnabrück International Airport
Airportallee 1, 48268 Greven, Germany

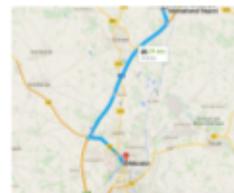
Get on A1

- ↑ 1. Head west on Hüttenper Heide 8.8 km
- ↗ 2. At the roundabout, take the 2nd exit onto Airportallee 40.8 m
- ↗ 3. At the roundabout, take the 2nd exit and stay on Airportallee 1.4 km
- ↗ 4. Turn right to merge onto A1 30.8 m



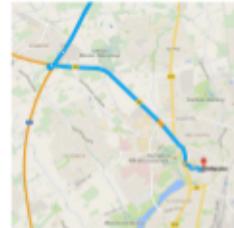
⑦ MünsterNord from A1

- ↗ 5. Merge onto A1 16.3 km
- ↗ 6. Take exit 77-Münster-Nord to merge onto B54 toward Münster 90.8 m



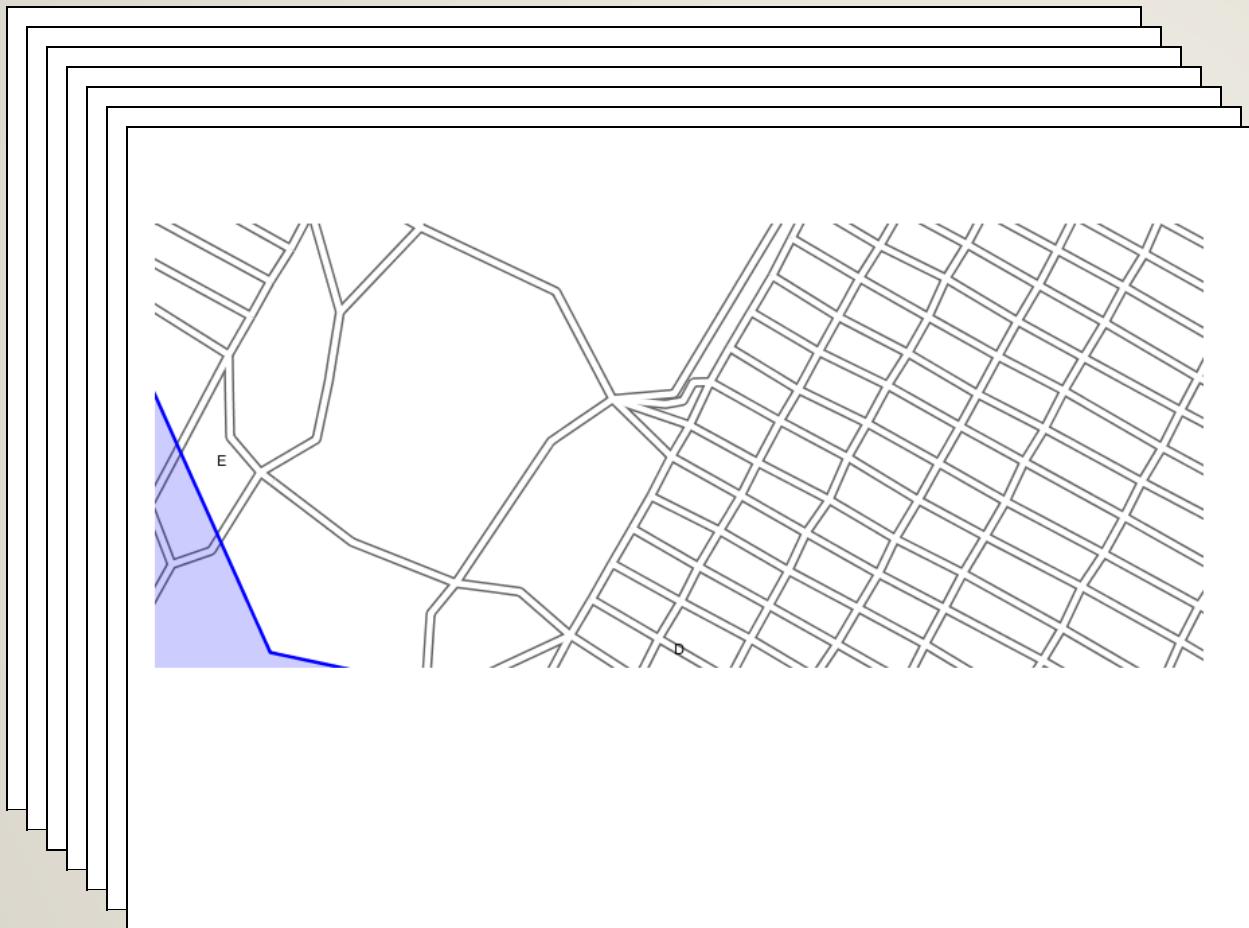
Continue on B54. Drive to Lüke G.

- ↗ 7. Merge onto B54 3.3 km
- ↗ 8. Turn left onto Universitätsstraße 26.8 m
- ↑ 9. Continue onto Blaupinghof 12.8 m
- ↑ 10. Continue onto Johannistraße 21.8 m
- ↗ 11. Turn left onto Lüke G. 12.8 m



⑩ Münster
Germany

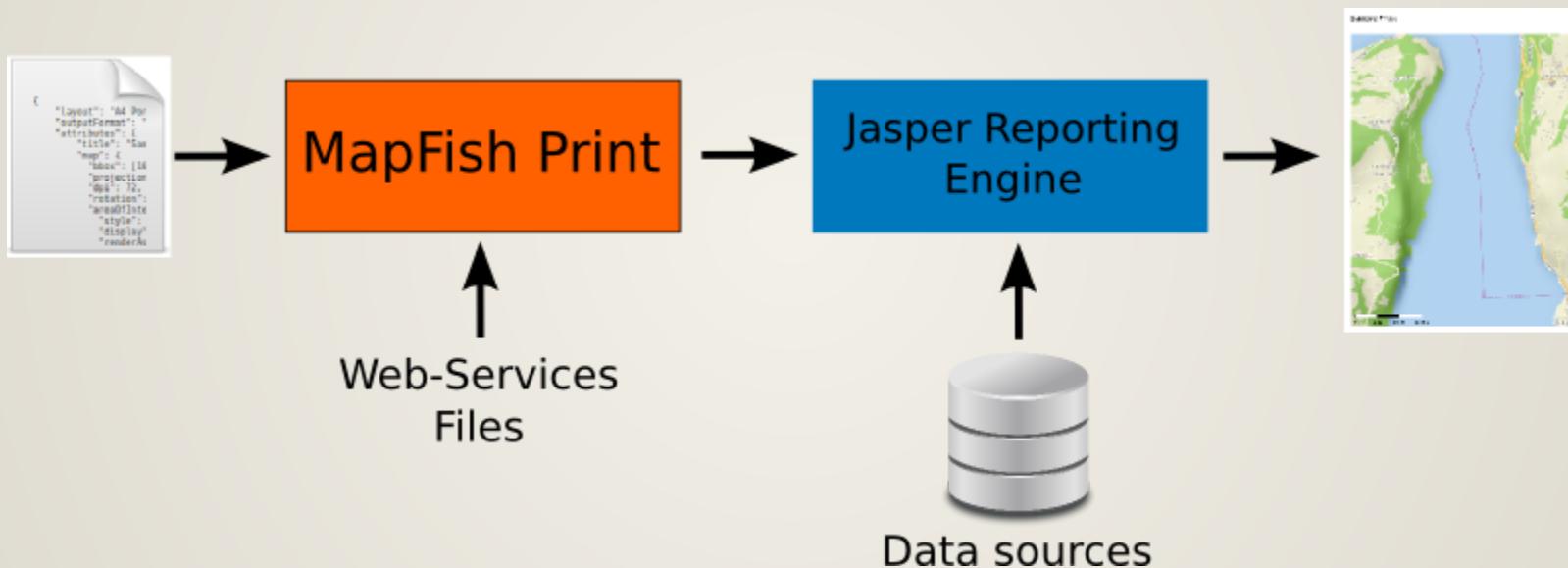
MULTI-PAGE MAPS



CHARTS

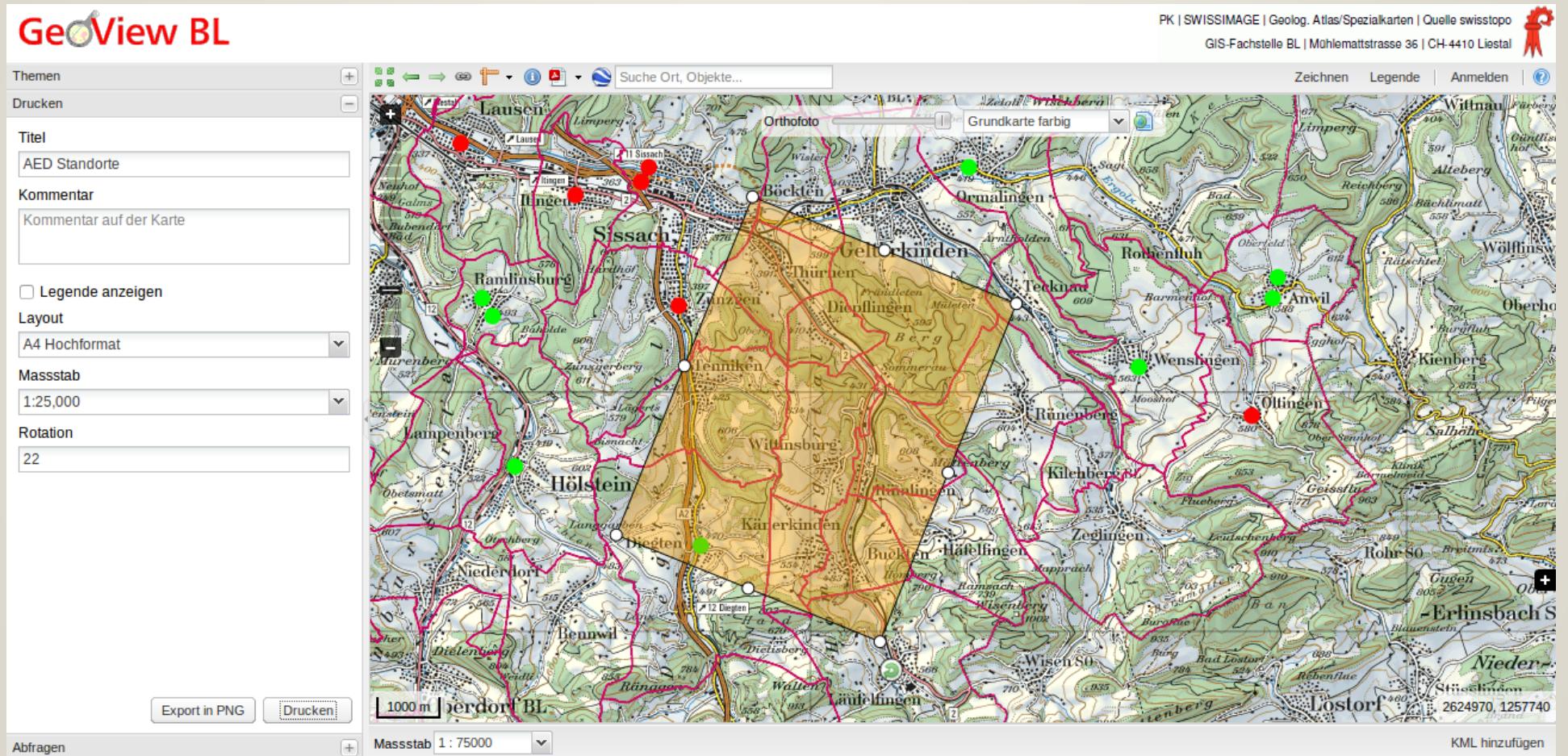


EXTERNAL DATASOURCES

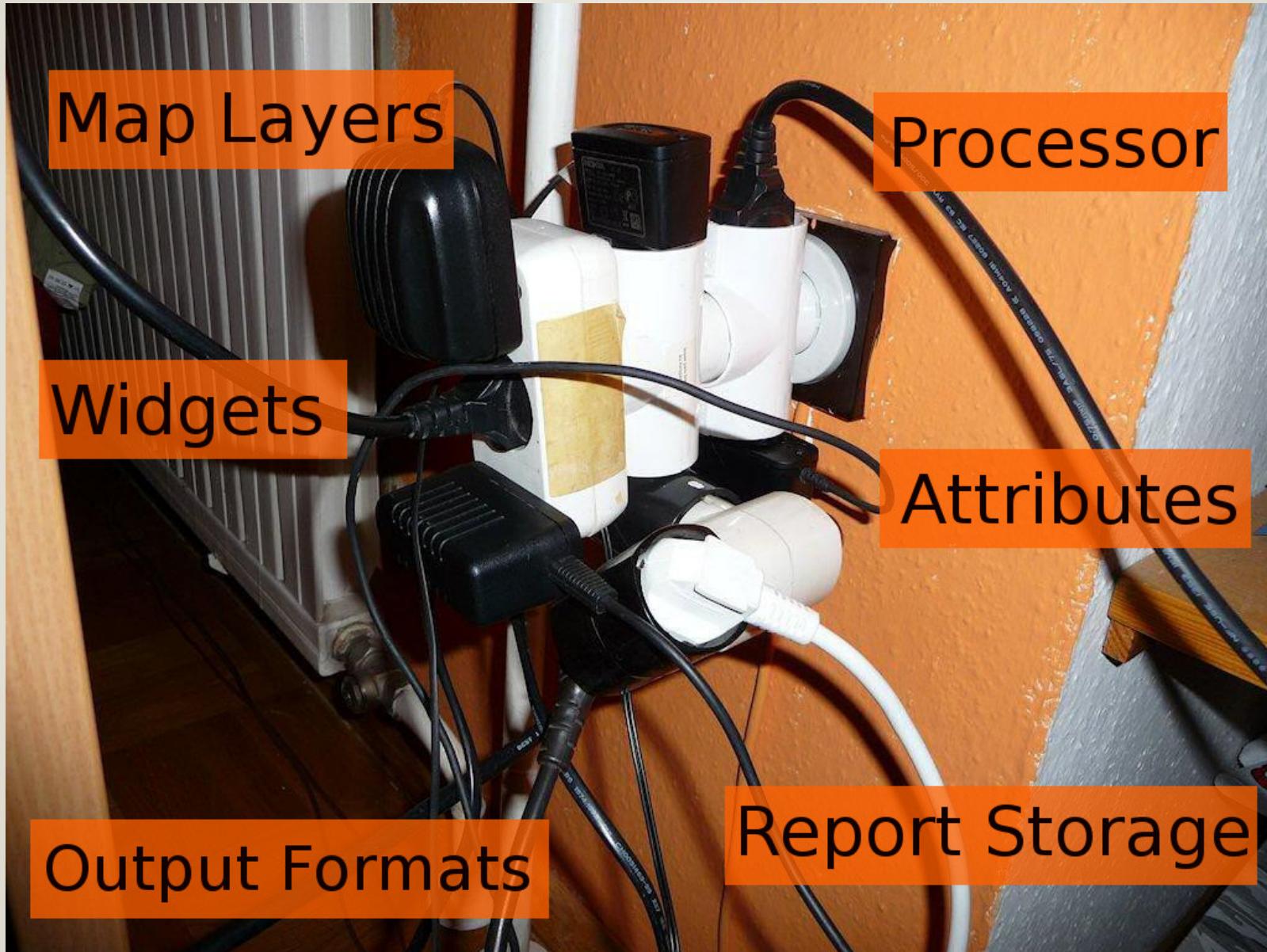


CLIENT SIDE SUPPORT

CGXP Plugin: `cgxp.plugins.Print`



PLUGGABLE ARCHITECTURE



BACKWARDS COMPATIBILITY

- Completely new configuration
- Compatibility API for legacy clients

MAPFISH PRINT 3

MapFish Print on GitHub:
github.com/mapfish/mapfish-print

This presentation on GitHub:
github.com/tsauerwein/talks_fossgis2015

Me on GitHub/Twitter:
@tsauerwein





INNOVATIVE SOLUTIONS
BY OPEN SOURCE EXPERTS