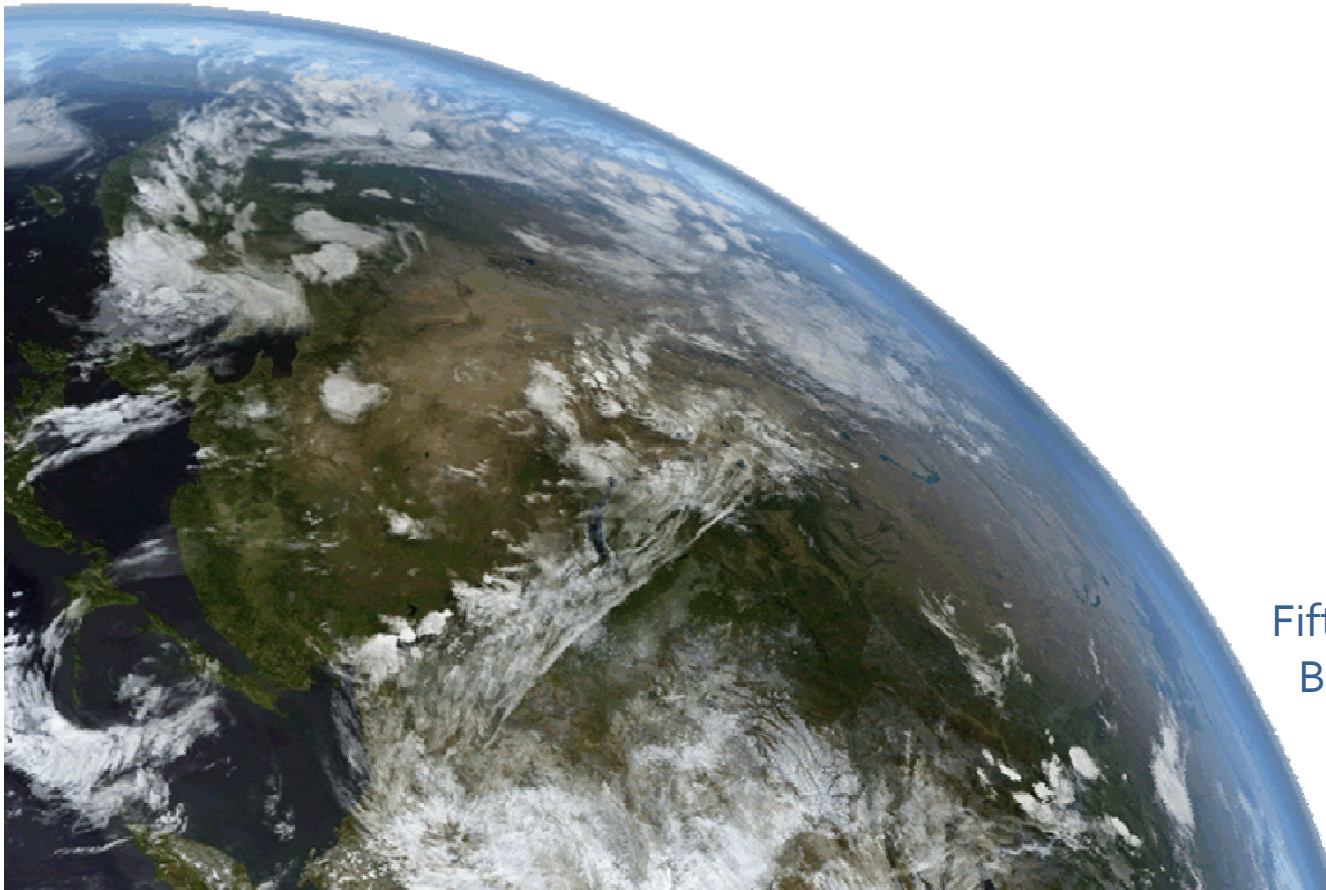UNITED NATIONS
Office for Outer Space Affairs

DLR Deutsches Zentrum
für Luft- und Raumfahrt
German Aerospace Center

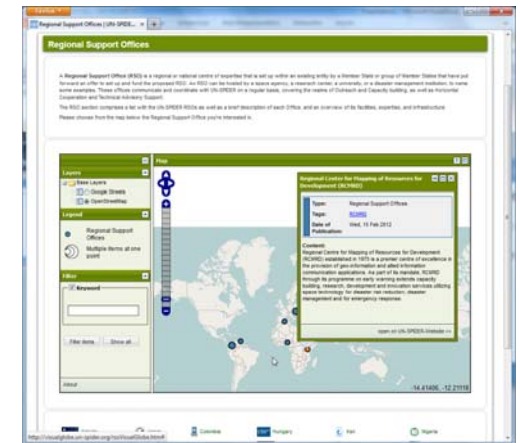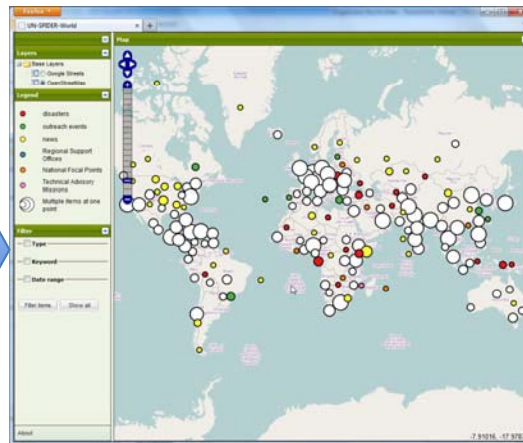# The UN-SPIDER-World

Max Stephan,
UN-SPIDER

Fifth International UN-SPIDER
Bonn Workshop on Disaster
Management and Space
Technology
24 – 26 April 2012

What is UN-SPIDER-World?

- Map-based gateway to the contents of the Knowledge Portal

  →Allows easy access to the content for a specific region

  →Includes filtering-capabilities

  →Embedabble into specific parts of the Knowledge portal (e.g. RSOs, news)

General view

RSO-specific view

Overview

Legend

Filtering

Map

The map

- Clustering of points when they are too close to each other
- Popups display information about the items on the map

Popup for a cluster of multiple items

The map

- Detailled information about an item
- Link to associated page and items with the same tag

Detailled popup

Filtering

Filtering by:

- Content-type
- Keyword
- Date

e.g. in this case:

„news" on „floods" from last year

Origin of UN-SPIDER-World

- Original Version developed as „Visual Globe" by Brian Tomaszewski of RIT (Rochester Institute of Technology) and Team

- Based on Adobe Flex and Google-Earth-Javascript-API
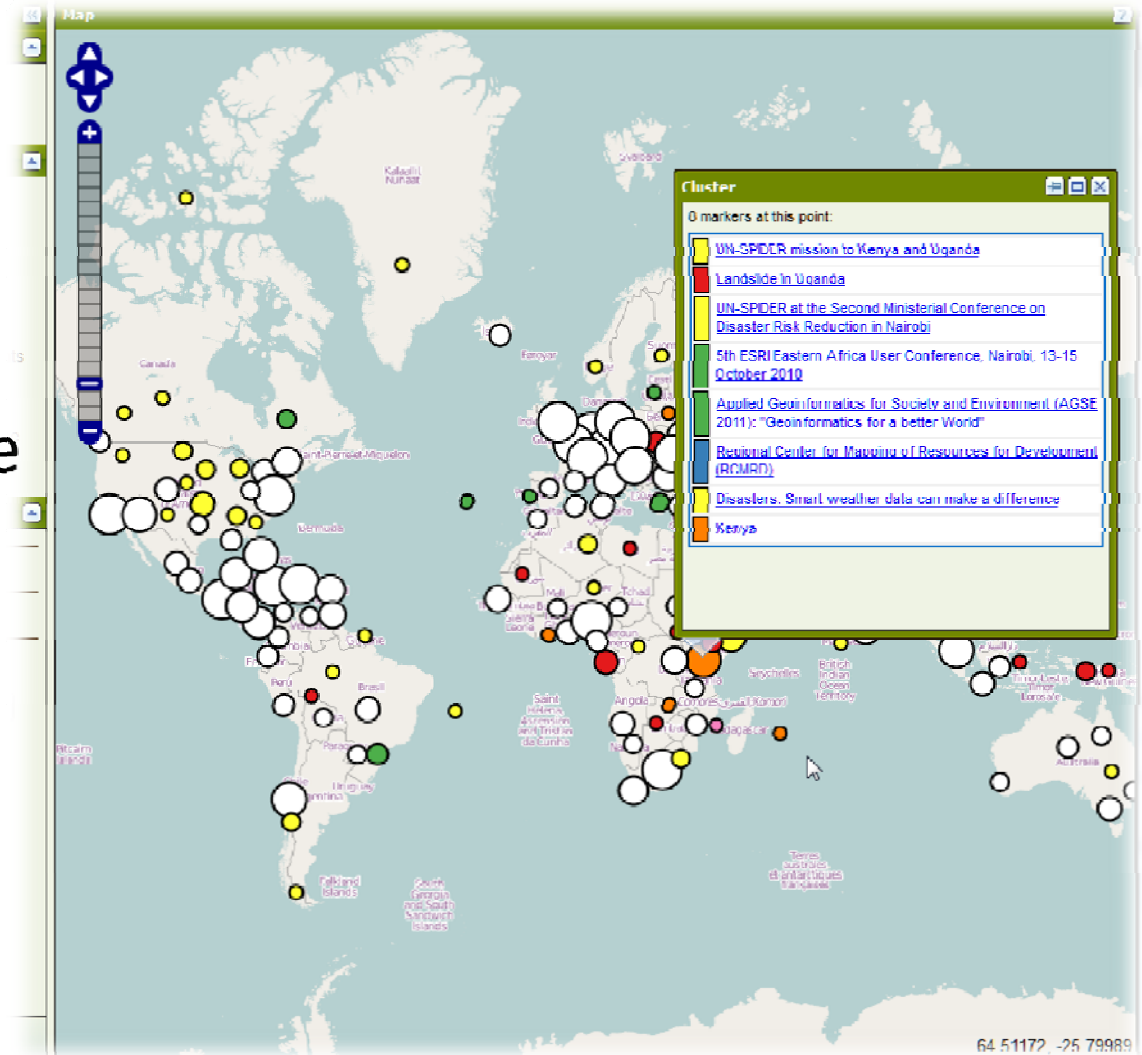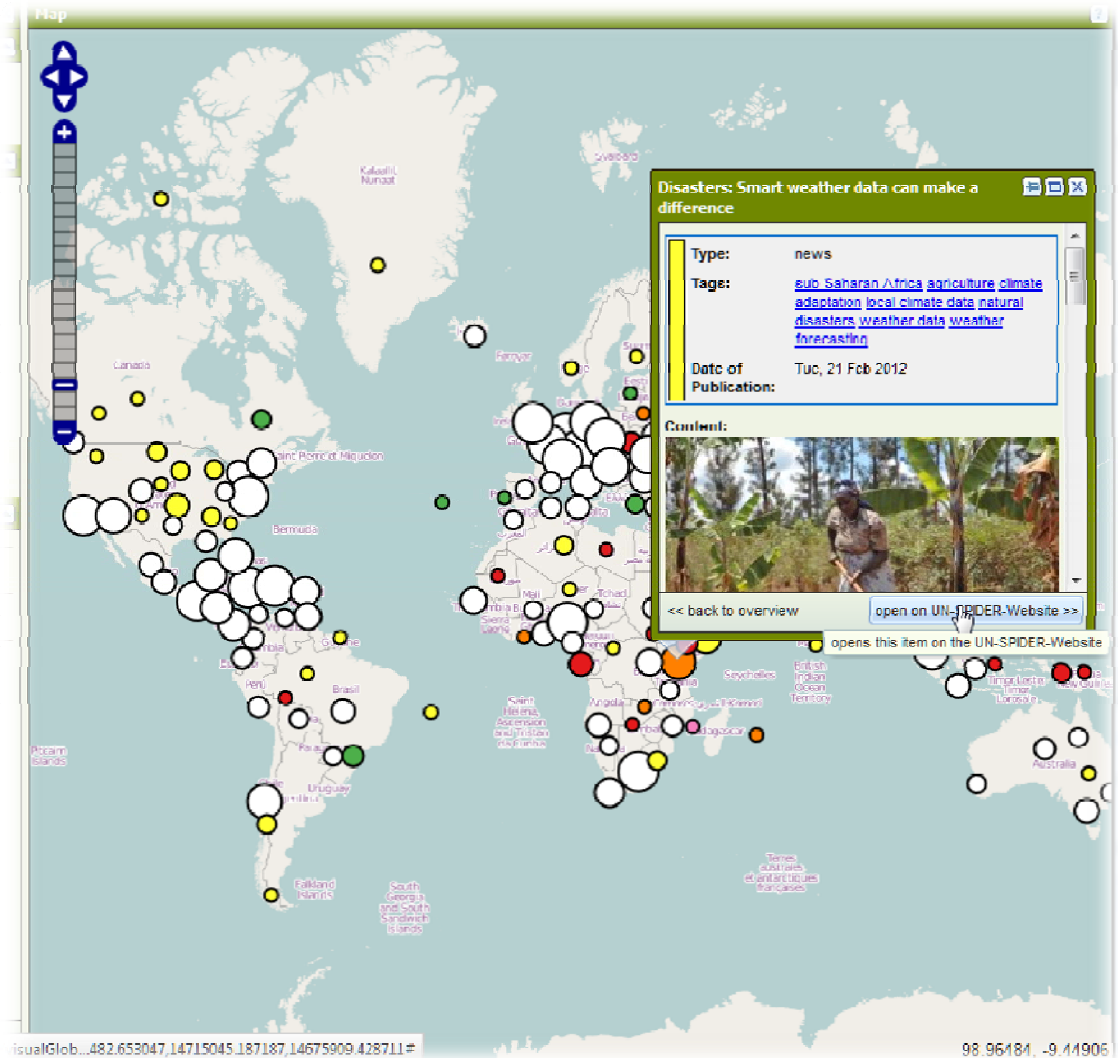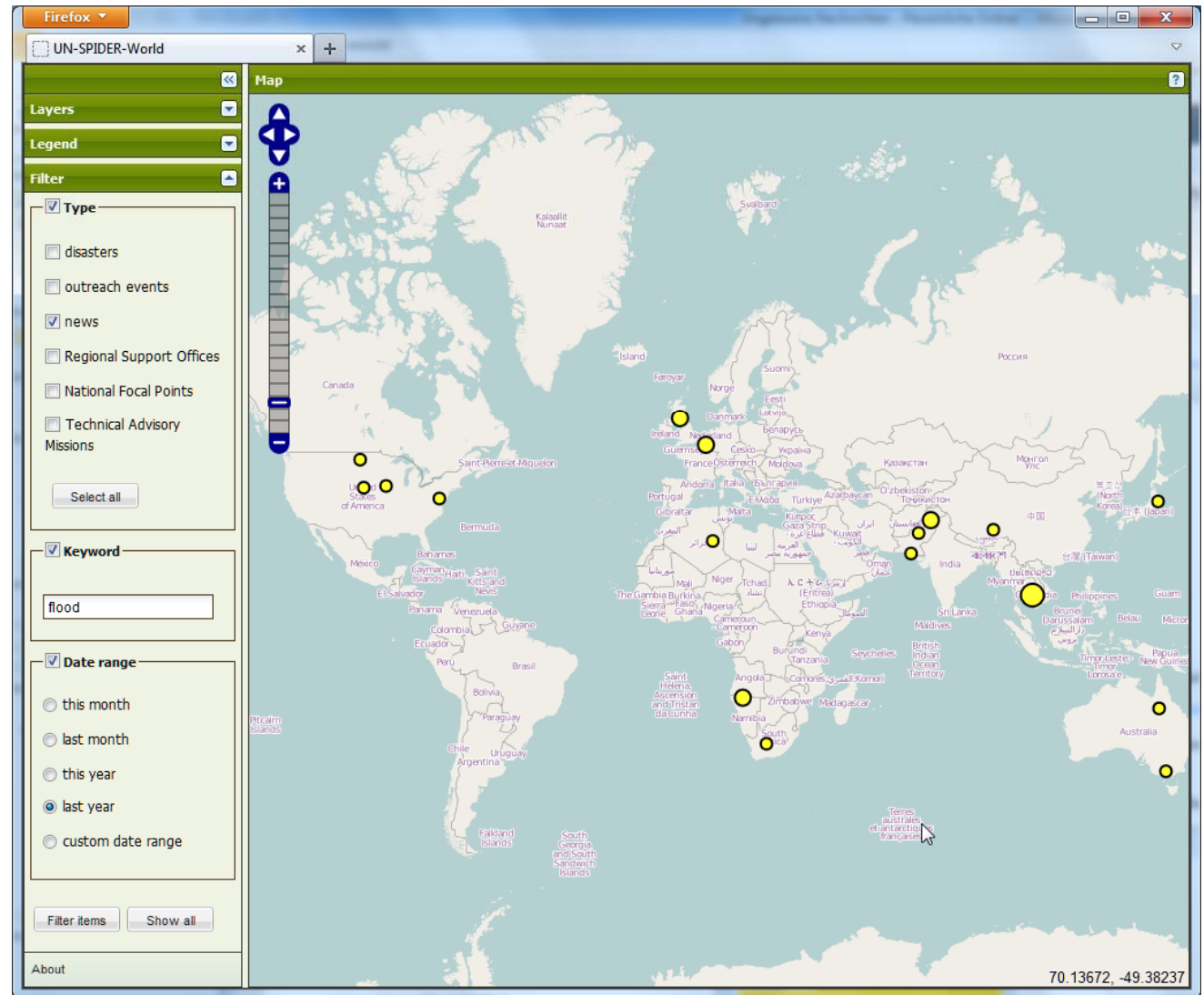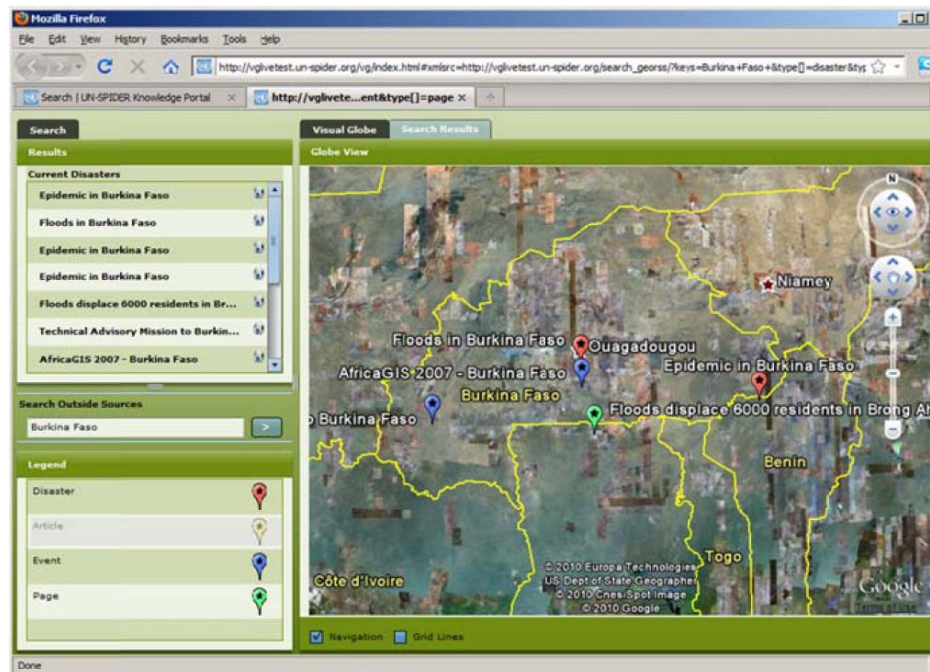
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United Nations Platform for Space-based Information for Disaster Management and Emergency Response

Redevelopment

- Reasons:
  - Problems with the Visual-Globe-beta
  - Adobe Flex technology requires Flash-plugin

- Advantages of the new version:
  - HTML5-conformity by using only Javascript-based frameworks
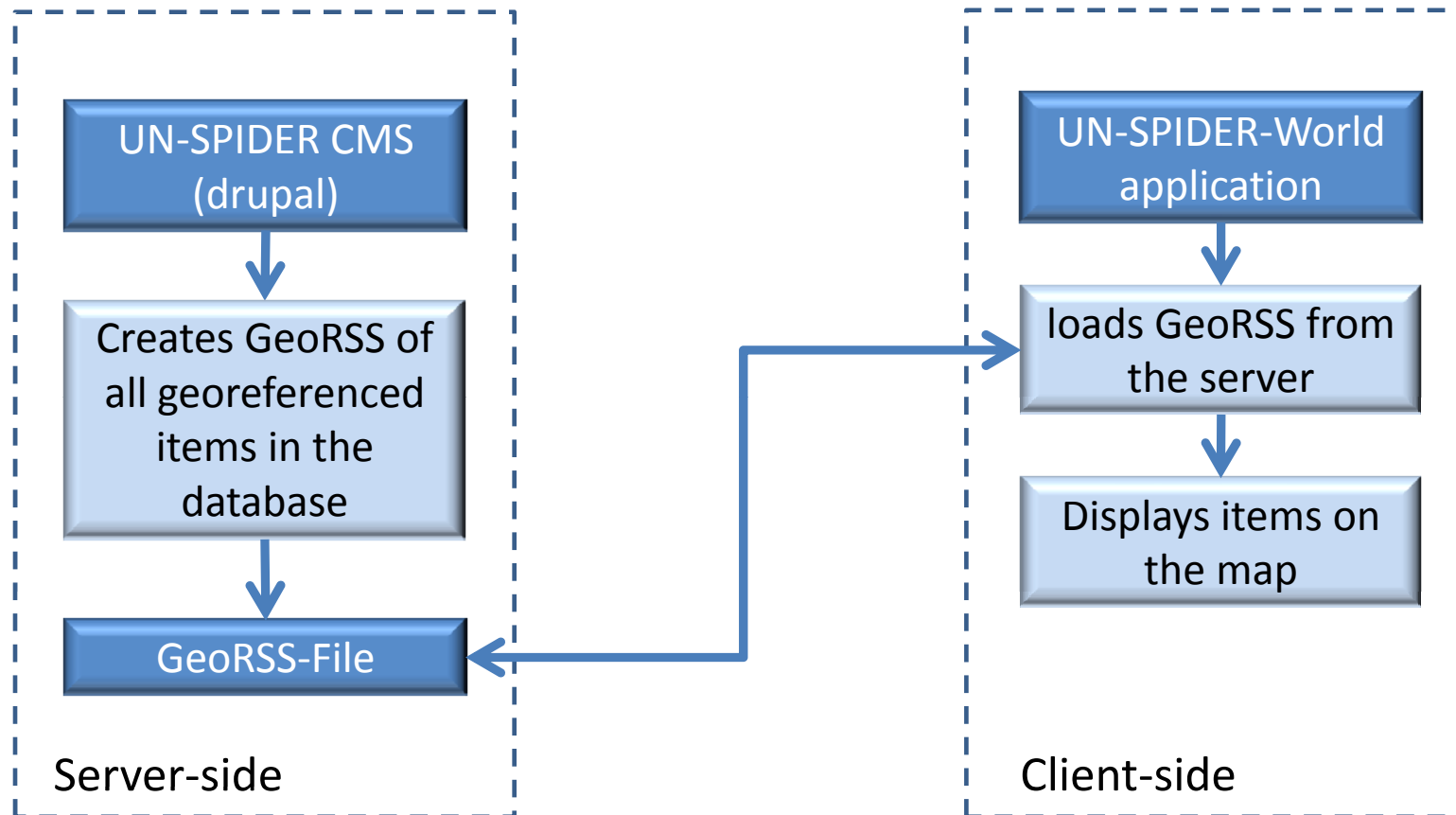 - Only Open-Source frameworks were used

Frameworks used in UN-SPIDER-World

- OpenLayers: established mapping-API with a wide range of features

- Ext-JS: Framework for web-applications (mainly used for interface and the logic behind it)

- GeoEXT: Framework that acts as interface between Ext-JS and OpenLayers

How does the application work?

GeoRSS = standardized XML-based format for exchanging georeferenced items

Potentials

- Embedding into further parts of the Knowledge Portal
  - Space-Application-Matrix: Case studies with georeference

Thank you for your attention

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