

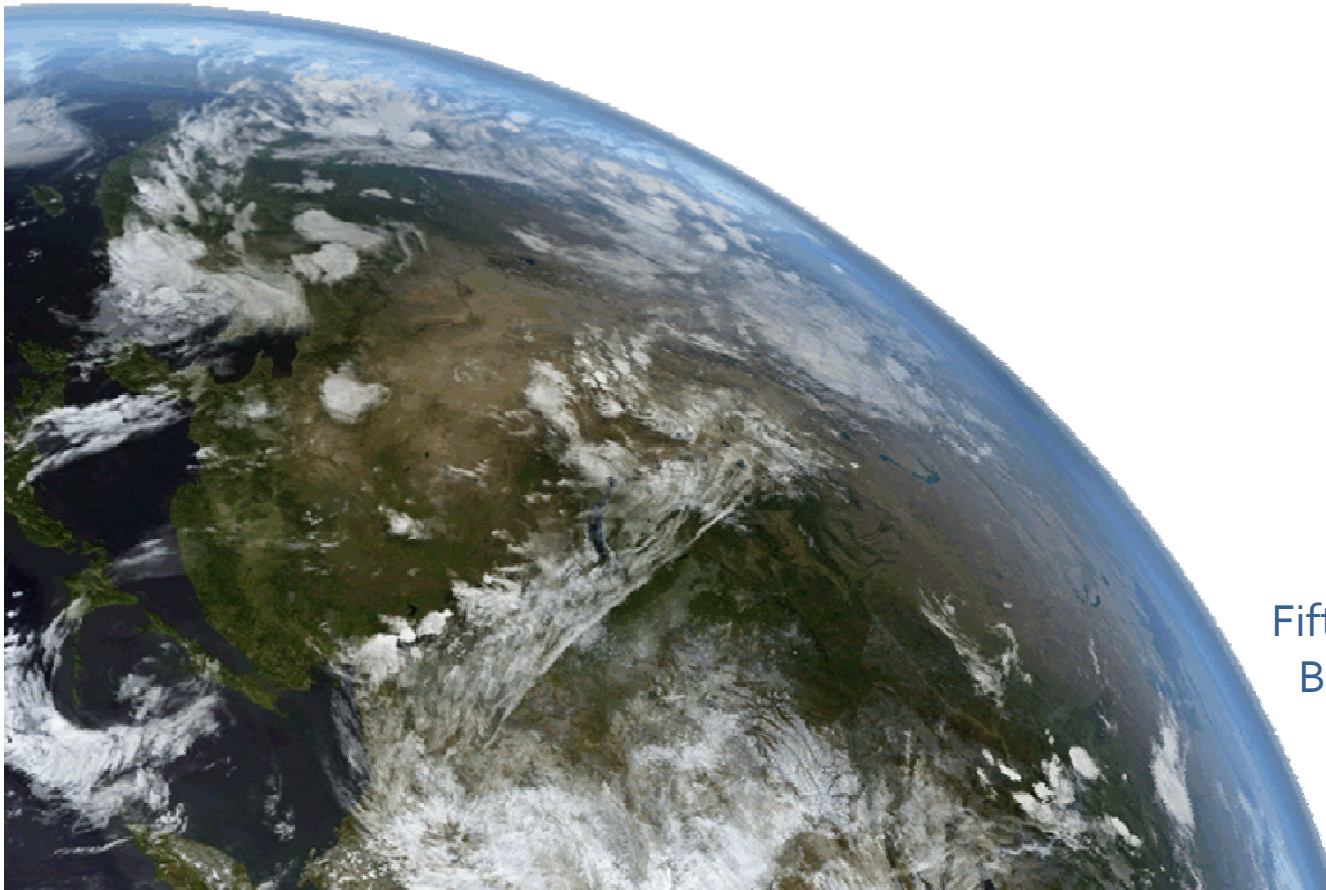


UNITED NATIONS  
Office for Outer Space Affairs



Deutsches Zentrum  
für Luft- und Raumfahrt  
German Aerospace Center

# The UN-SPIDER-World



Max Stephan,  
UN-SPIDER

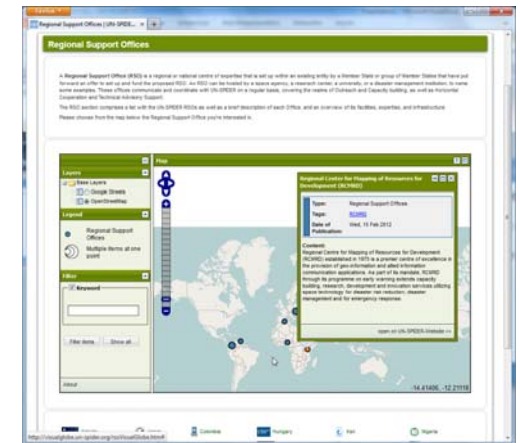
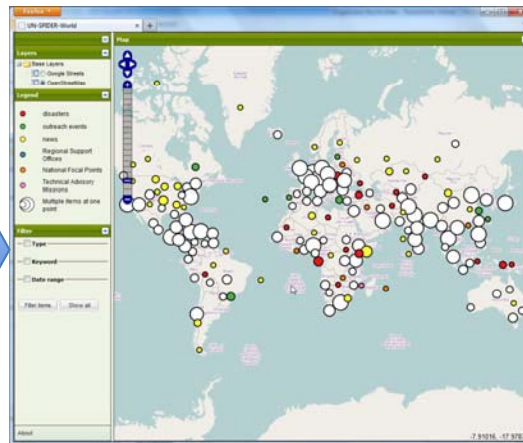
Fifth International UN-SPIDER  
Bonn Workshop on Disaster  
Management and Space  
Technology  
24 – 26 April 2012

# 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
  - Embeddable into specific parts of the Knowledge portal (e.g. RSOs, news)



General view



RSO-specific view



# Overview

The screenshot shows the UN-SPIDER-World web application running in a Firefox browser. The interface is divided into three main sections: a left sidebar, a central map area, and a right sidebar. The left sidebar contains a 'Layers' panel with 'Base Layers' (Google Streets, OpenStreetMap) and a 'Legend' panel listing various data types like 'disasters', 'outreach events', 'news', 'Regional Support Offices', 'National Focal Points', 'Technical Advisory Missions', and 'Multiple items at one point'. Below the legend is a 'Filter' panel with checkboxes for 'Type', 'Keyword', and 'Date range', along with 'Filter items' and 'Show all' buttons. The central map area displays a world map with numerous colored circles representing data points. The right sidebar contains a 'Map' panel with a 'Map' button. Three blue callout boxes with white text and arrows point to these sections: 'Legend' points to the legend panel, 'Filtering' points to the filter panel, and 'Map' points to the map panel.

Legend

Filtering

Map



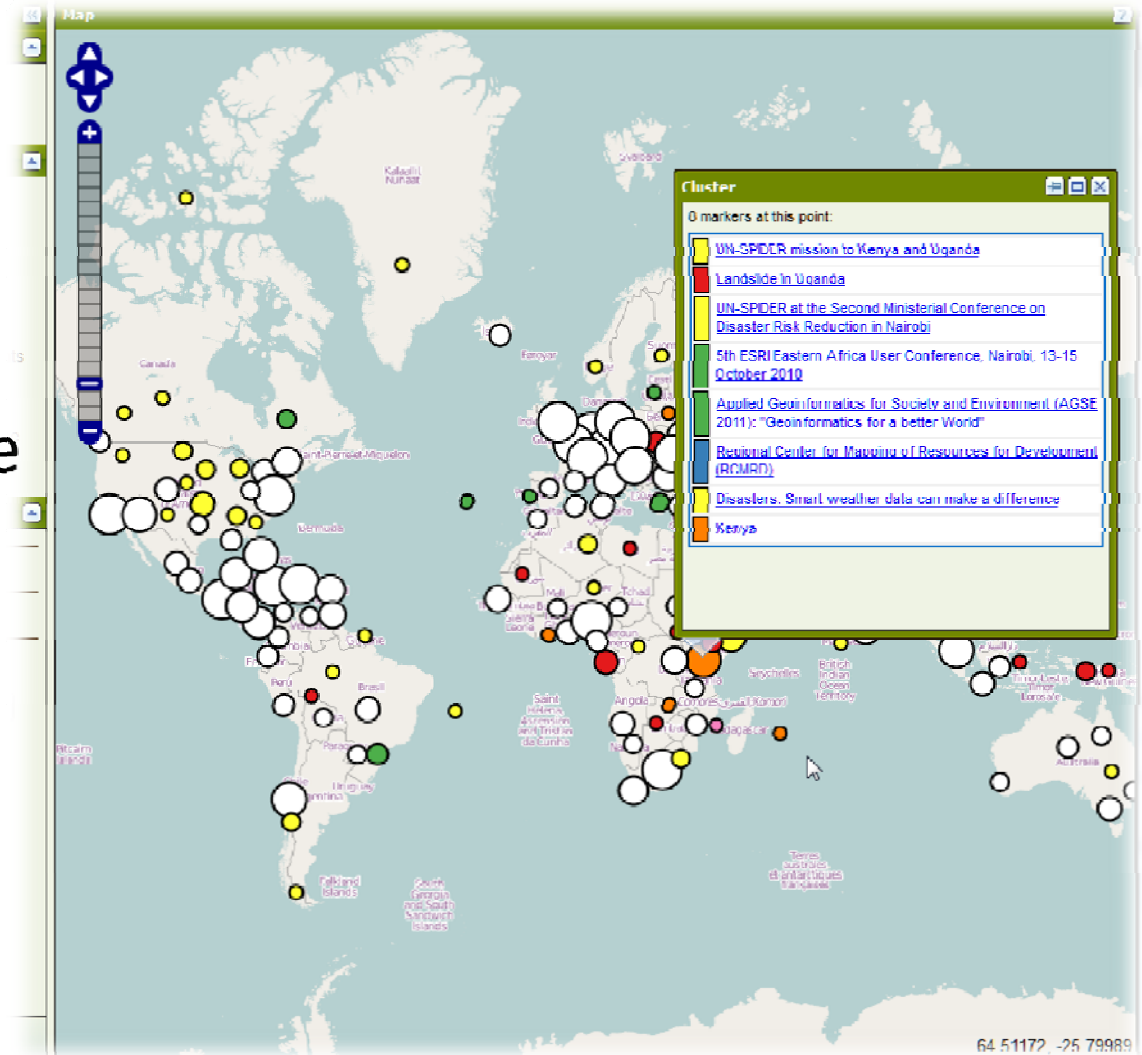
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# The map

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

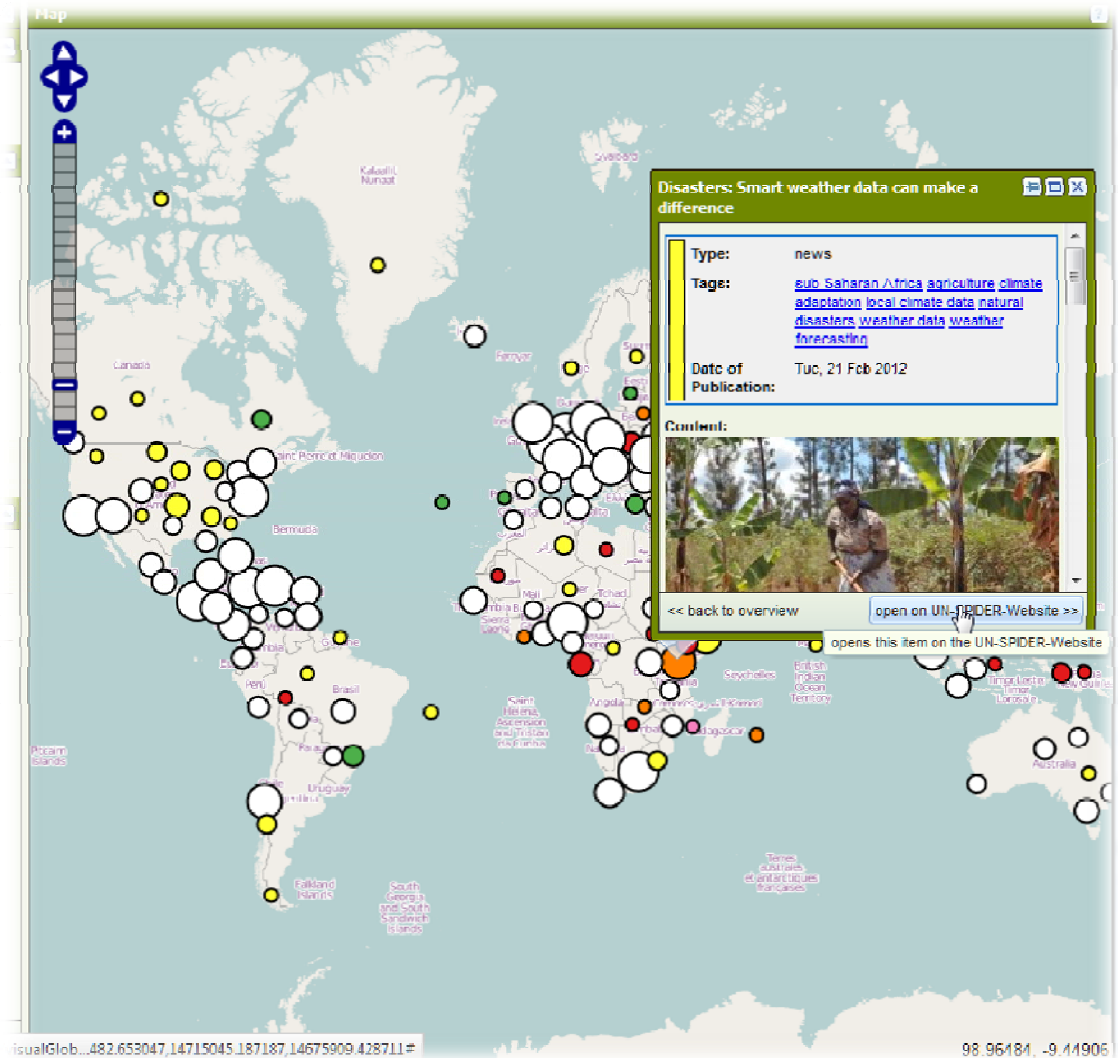


Popup for a cluster of multiple items



# The map

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



Detailed popup



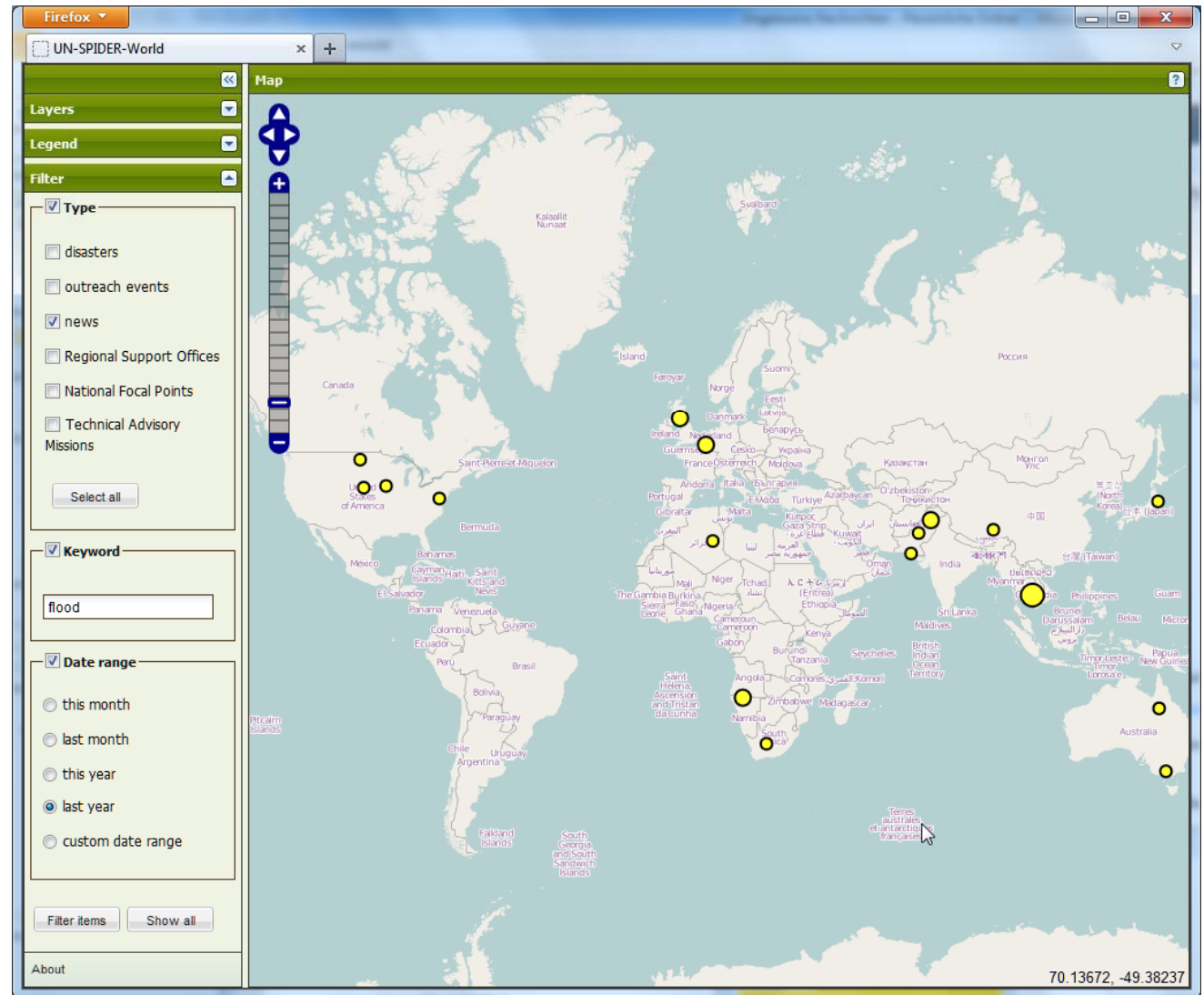
# Filtering

Filtering by:

- Content-type
- Keyword
- Date

e.g. in this case:

*„news“ on  
„floods“ from  
last year*

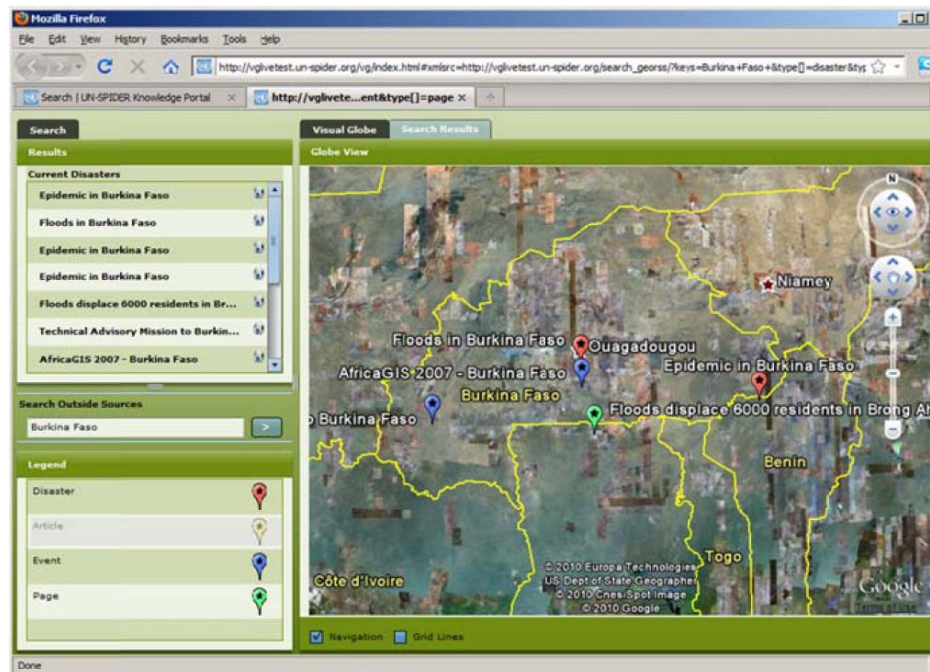


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# Origin of UN-SPIDER-World

- 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



# 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



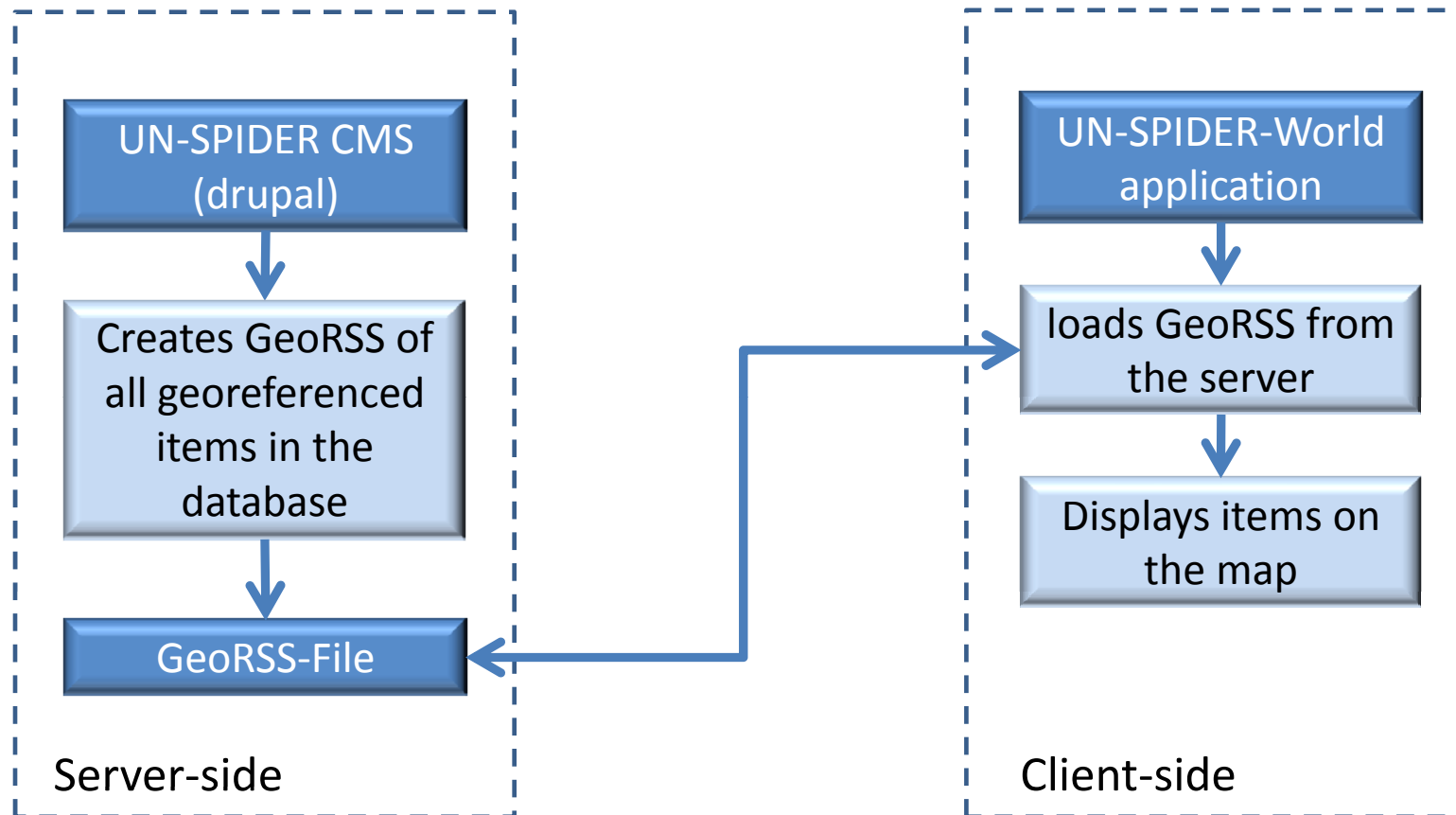


# Frameworks used in UN-SPIDER-World

- 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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