GEONETCast: Web Service Infrastructure

Winter Semester 2009/10
ifgi, University of Münster
Denise Paradowski & Lena Wickenkamp
Introduction

Fields of work

- GEONETCast Data Management
- derive information products from the GEONETCast data stream
- showcase both the value of the content and the value of the web service infrastructure by developing a GEONETCast application
- set up the basic building blocks for a local SDI
Goals

Web GIS

- visualize the results of other groups (WMS)
- easy to use
- offer typical web GIS functionalities
- provide the possibility to load external WMS into the web GIS
Goals

Web GIS: Showcase

- visualization of the Fire Web Service
  - display the current possible and probable fires in the world
Goals

Geoserver

- set up a geoserver
- offer other groups the possibility to set up own web services
- offer other groups to set up web services for them
- provide local SDI to other institutes
Technical Approach

Free Software

- for the web GIS
  Mapbender
  Geoportal Framework

- for setting up WMS
  GeoServer
Technical Approach

Architecture

GeoServer

publish WMS

WMS request

Mapbender Geoportal Framework

set up WMS

use web GIS and WMS

load WMS to GUI

WMS request

WMS delivery
Methodological Approach

WP 1: Project Management

WP 2: Reports, Documentations and Presentations

WP 3: Installation/ Configuration

WP 4: GEONETCast-WMS

WP 5: GUI

WP 6: Integrate WMS
Results
Results

FireMap showing possible and probable fires
Possible Enhancements

- also enable search for features in Mapbender
- problem: would not make sense for the data we used

- possibility of an automatic registration for students and employees to the services
Thank you for your attention!

Winter Semester 2009/10
ifgi, University of Münster
Denise Paradowski & Lena Wickenkamp