

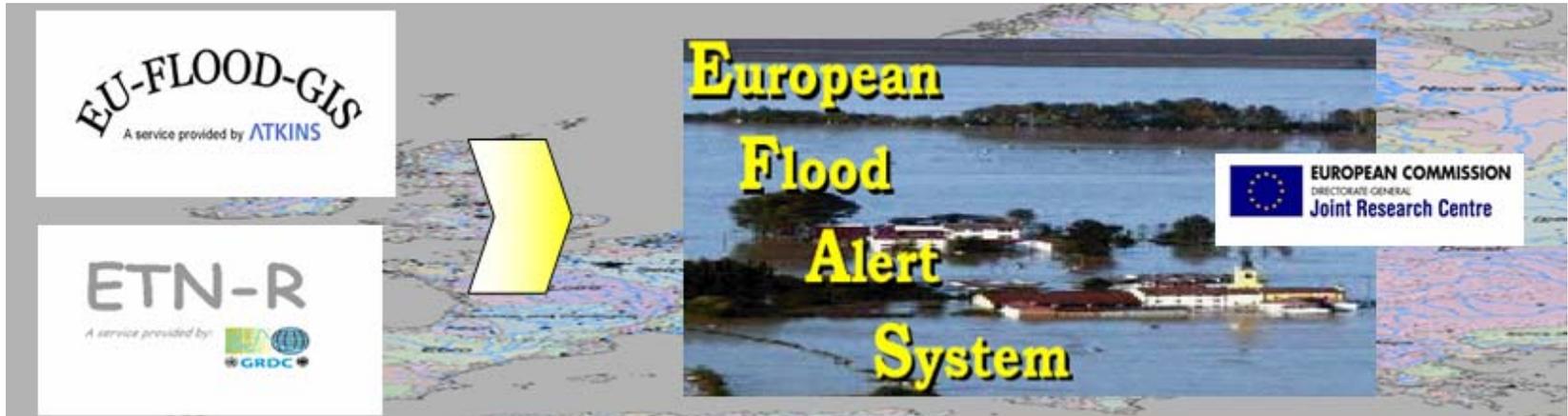


# Progress Data Collection for EFAS

## *EU-FLOOD-GIS* and *ETN-R*

J. Thielen, A. Kemp and U. Looser

# Two data collection projects for EFAS



## ETN-R (GRDC) DG ENTERPRISE

- Discharge station meta data
- Data collection system
- Real-time discharge data
- Historic data for RT stations

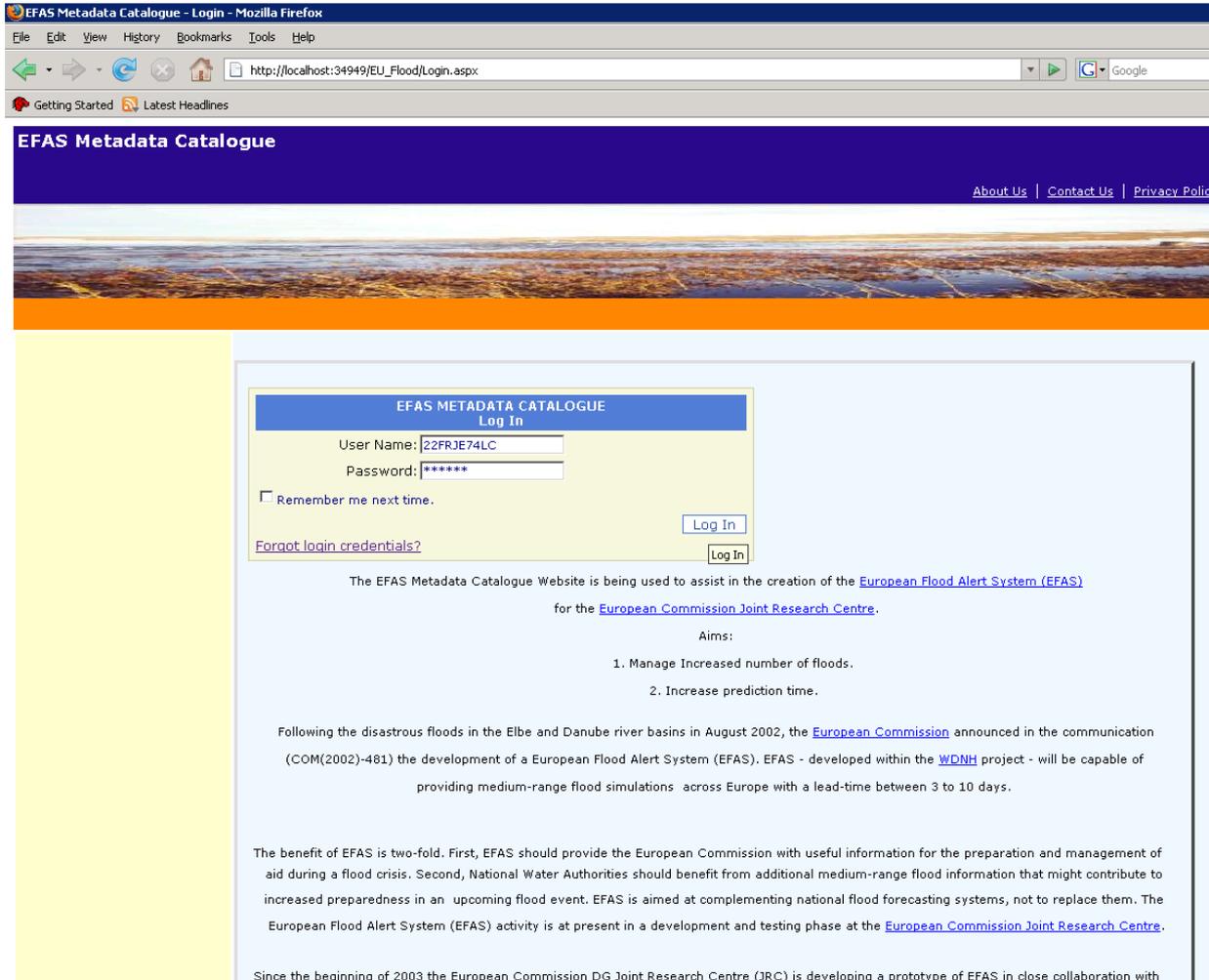
## EU-FLOOD-GIS (Atkins) EU-PARLIAMET

- Metadata catalogue for hydrological and meteorological data
- Database-GIS system
- Real-time hydrological and meteorological data

## EU-FLOOD-GIS

- Start of project July 2006
- 1<sup>st</sup> version metadata catalogue in January 2007
- Prototype of EU-FLOOD-GIS installed in October 2007
- Data negotiations by JRC, data feeds to Atkins staging environment since March 2008
- EU-FLOOD-GIS running in test mode since October 2008 at JRC
- Project finalisation expected February 2009

# EFAS Metadata Website – Login & Institution Home



The screenshot shows a web browser window with the title "EFAS Metadata Catalogue - Login - Mozilla Firefox". The address bar shows "http://localhost:34949/EU\_Flood/Login.aspx". The page content includes a navigation menu with "About Us", "Contact Us", and "Privacy Policy". Below the navigation is a large image of a flooded landscape. The main content area features a login form titled "EFAS METADATA CATALOGUE Log In" with fields for "User Name" (containing "22FRJE74LC") and "Password" (containing "\*\*\*\*\*"). There is a "Remember me next time." checkbox and two "Log In" buttons. Below the form, there is a link for "Forgot login credentials?". The page also contains a paragraph about the EFAS Metadata Catalogue Website's purpose, its aims (managing increased number of floods and increasing prediction time), and information about the European Flood Alert System (EFAS) project.

EFAS Metadata Catalogue - Login - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:34949/EU\_Flood/Login.aspx

Getting Started Latest Headlines

## EFAS Metadata Catalogue

[About Us](#) | [Contact Us](#) | [Privacy Policy](#)

**EFAS METADATA CATALOGUE**  
Log In

User Name:

Password:

Remember me next time.

[Forgot login credentials?](#)

The EFAS Metadata Catalogue Website is being used to assist in the creation of the [European Flood Alert System \(EFAS\)](#) for the [European Commission Joint Research Centre](#).

Aims:

1. Manage Increased number of floods.
2. Increase prediction time.

Following the disastrous floods in the Elbe and Danube river basins in August 2002, the [European Commission](#) announced in the communication (COM(2002)-481) the development of a European Flood Alert System (EFAS). EFAS - developed within the [WDNH](#) project - will be capable of providing medium-range flood simulations across Europe with a lead-time between 3 to 10 days.

The benefit of EFAS is two-fold. First, EFAS should provide the European Commission with useful information for the preparation and management of aid during a flood crisis. Second, National Water Authorities should benefit from additional medium-range flood information that might contribute to increased preparedness in an upcoming flood event. EFAS is aimed at complementing national flood forecasting systems, not to replace them. The European Flood Alert System (EFAS) activity is at present in a development and testing phase at the [European Commission Joint Research Centre](#).

Since the beginning of 2003 the European Commission DG Joint Research Centre (JRC) is developing a prototype of EFAS in close collaboration with

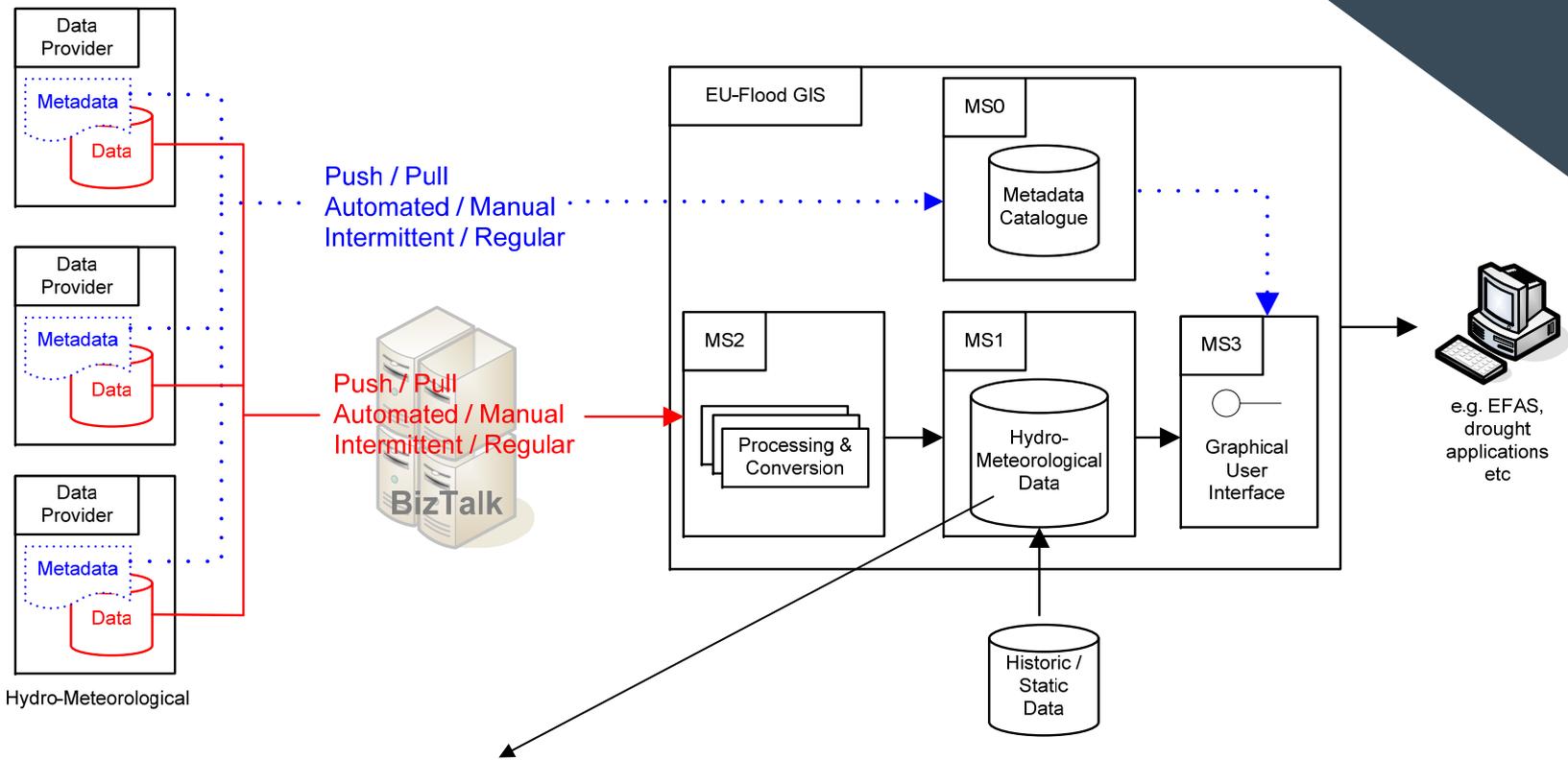
# CATALOGUE KEY FEATURES

Provides individual institutions / data providers to have access to their own metadata.

Enables registered **JRC users** to have access to the **entire metadata catalogue**.

Allows institutions / data providers to **edit** existing content, **add** new content and **delete** the redundant ones.

Register **feedback** and **comments** about the metadata.



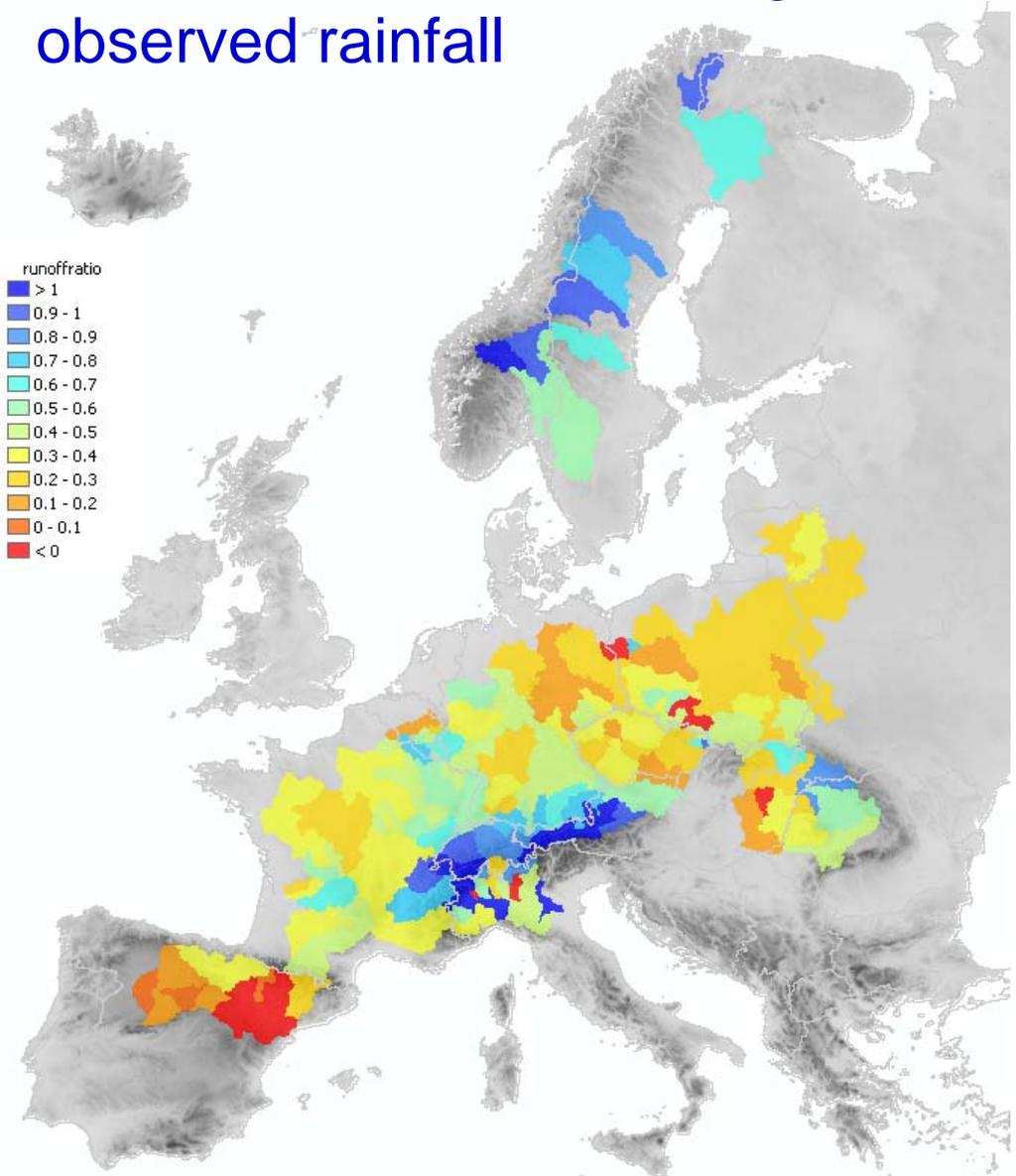
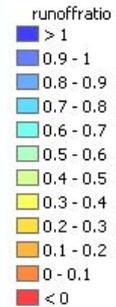
- NRT hydro&Meteo Data
- Validated hydro data
- cross section data
- reservoir information
- historic RT data
- validated meteo data
- flood extent information

# Ratio of observed discharge to observed rainfall

Problem areas encountered with **current** input data – non EU- FLOOD-GIS and ETN-R data

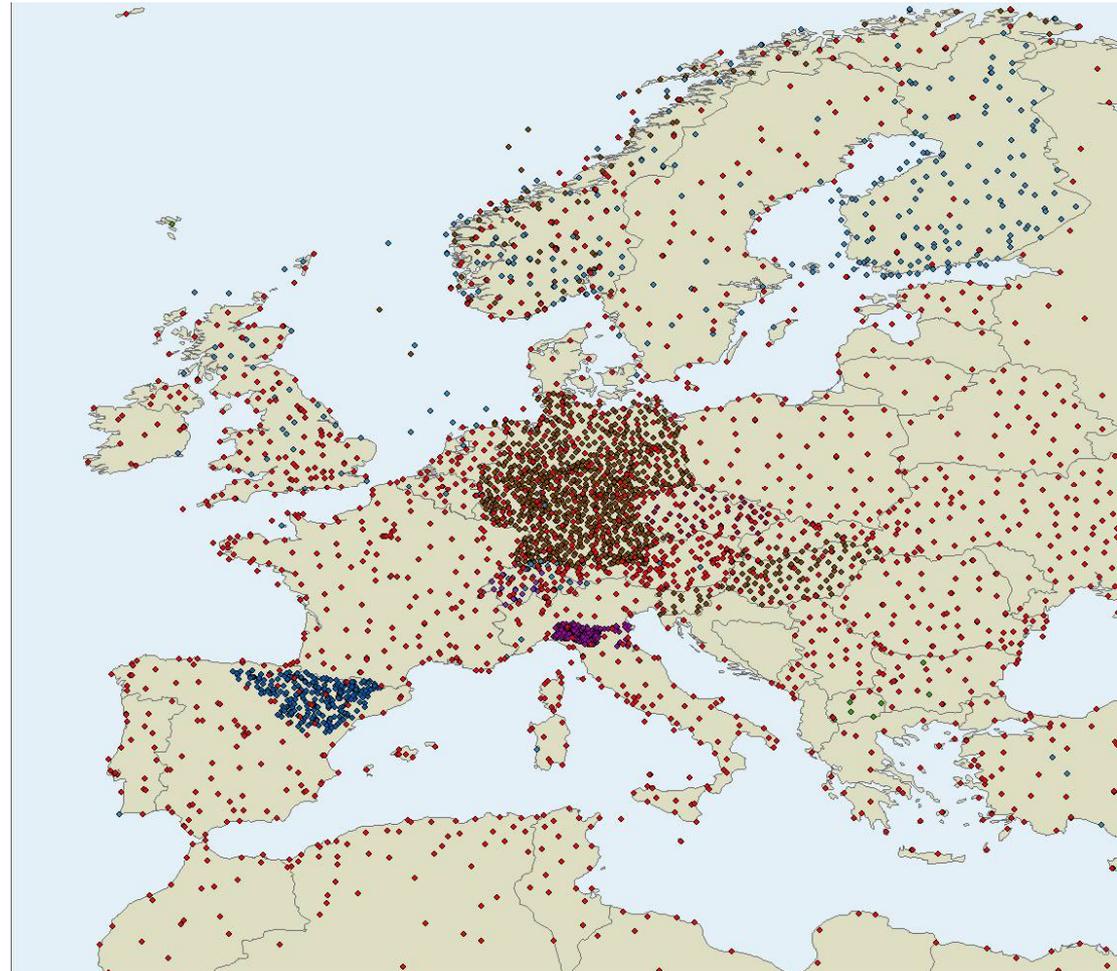
Blue area: insufficient rainfall observations

Red area: extraction of water, e.g. irrigation



## Meteo data currently supplied in NRT (< 24h)

1. EU-Synop
2. DE - DWD+Ecomet+AMDA
3. EU- Meteo Consult
4. CH-MeteoSwiss
5. IT-ARPA-Emiglia Romana
6. ES-SAIH-Ebro
7. CZ-CHMI
8. SK-Met. Service SK
9. HU-Met. Service HU
10. AT-ZAMG (INKA grids)
11. SI-Met. Service SI
12. NO-Met. Service NO





## Under negotiation/investigation

- SE -SMHI (to be followed up)
- F - Schapi data exchange (technical DB issues)
- UK – Env. Agency (EFAS?)
- FI – Finnish Env. Agency (EFAS?)

-No response

**-RO – Romanian meteorological services**

## Services still to be contacted

- Serbia, Croatia, Moldova, Ukraine, Ireland,