

# WP02 Measurements

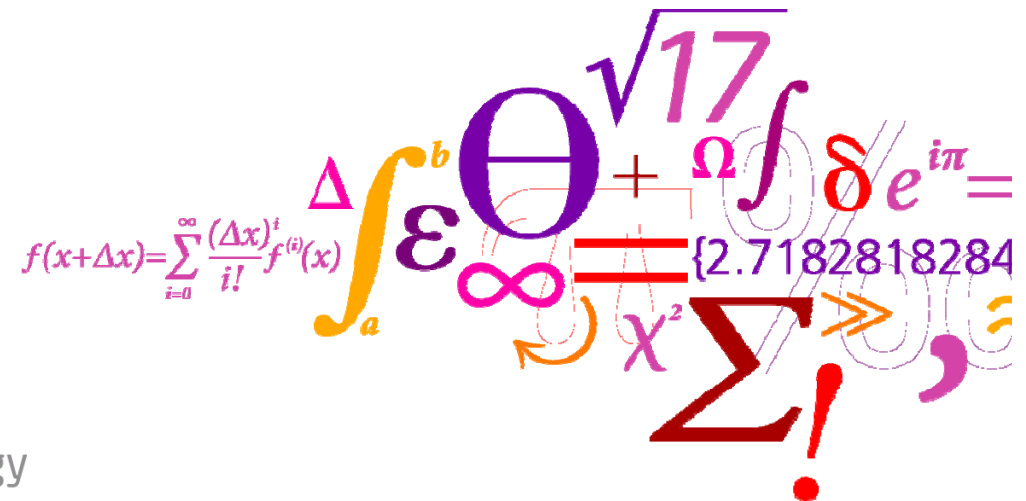
## Datamanagement System

Steen Sørensen

Karen Enevoldsen

Test & Measurements

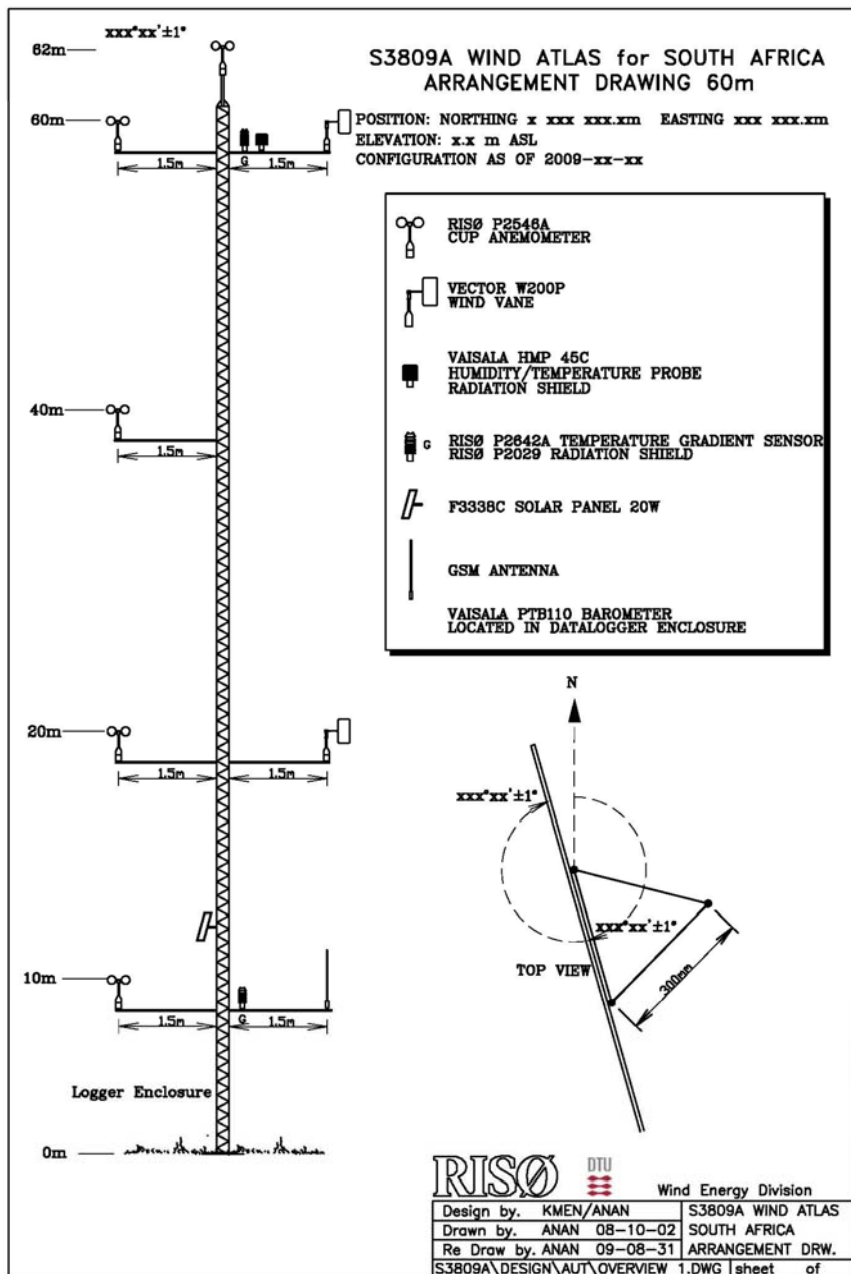
Wind Energy Division



Risø DTU

National Laboratory for Sustainable Energy



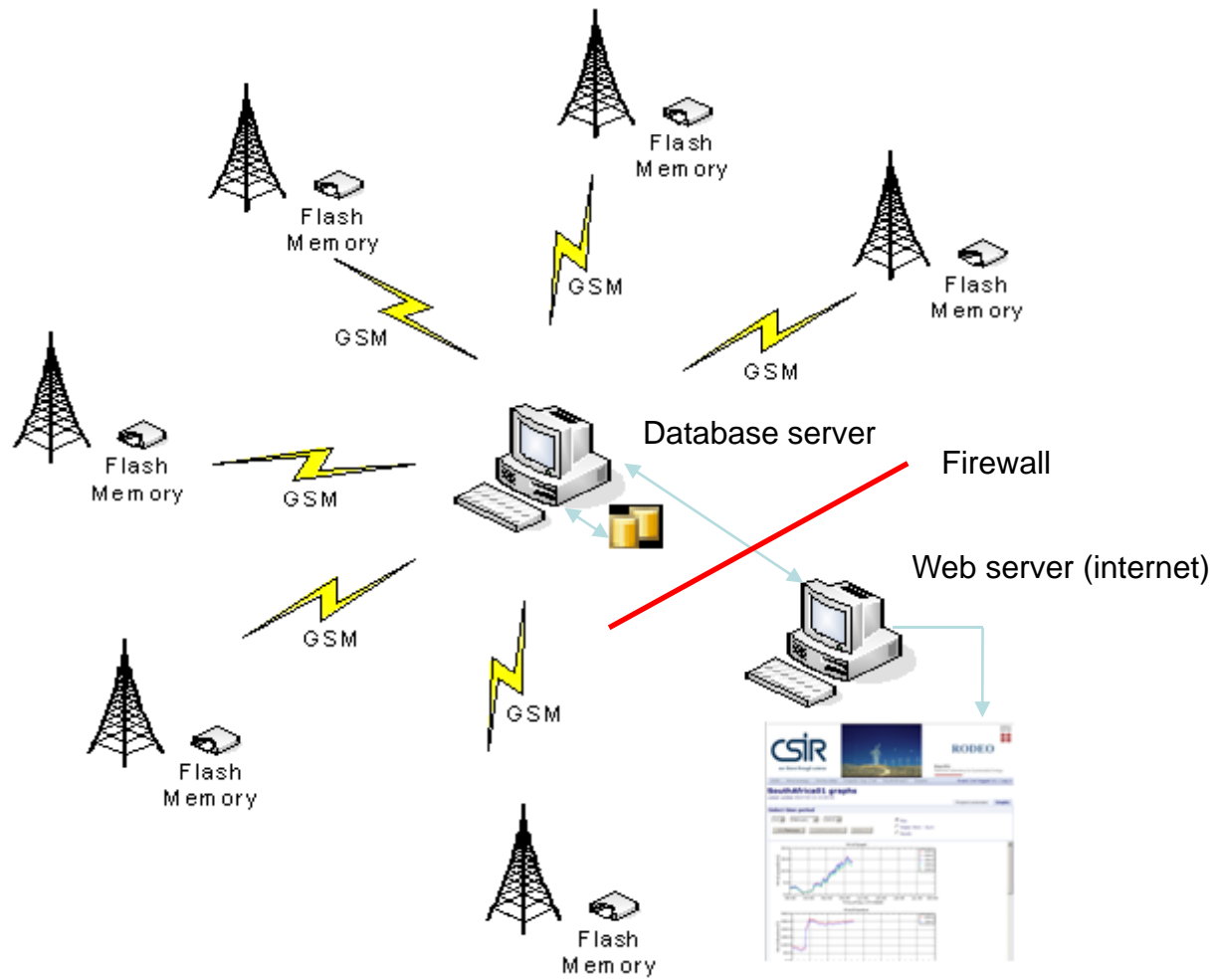


## Wind station arrangement 60 m mast

# Campbell datalogger systems

- Simple installation and operation
- Low maintenance
- Low power
- High data recovery
- Fully programmable
- Analog and digital inputs
- Measurement rate up to 100 Hz
- Satellite or phone link
- Waterproof stainless steel enclosure
- Good experience remote/offshore sites





## Risø Data Management System

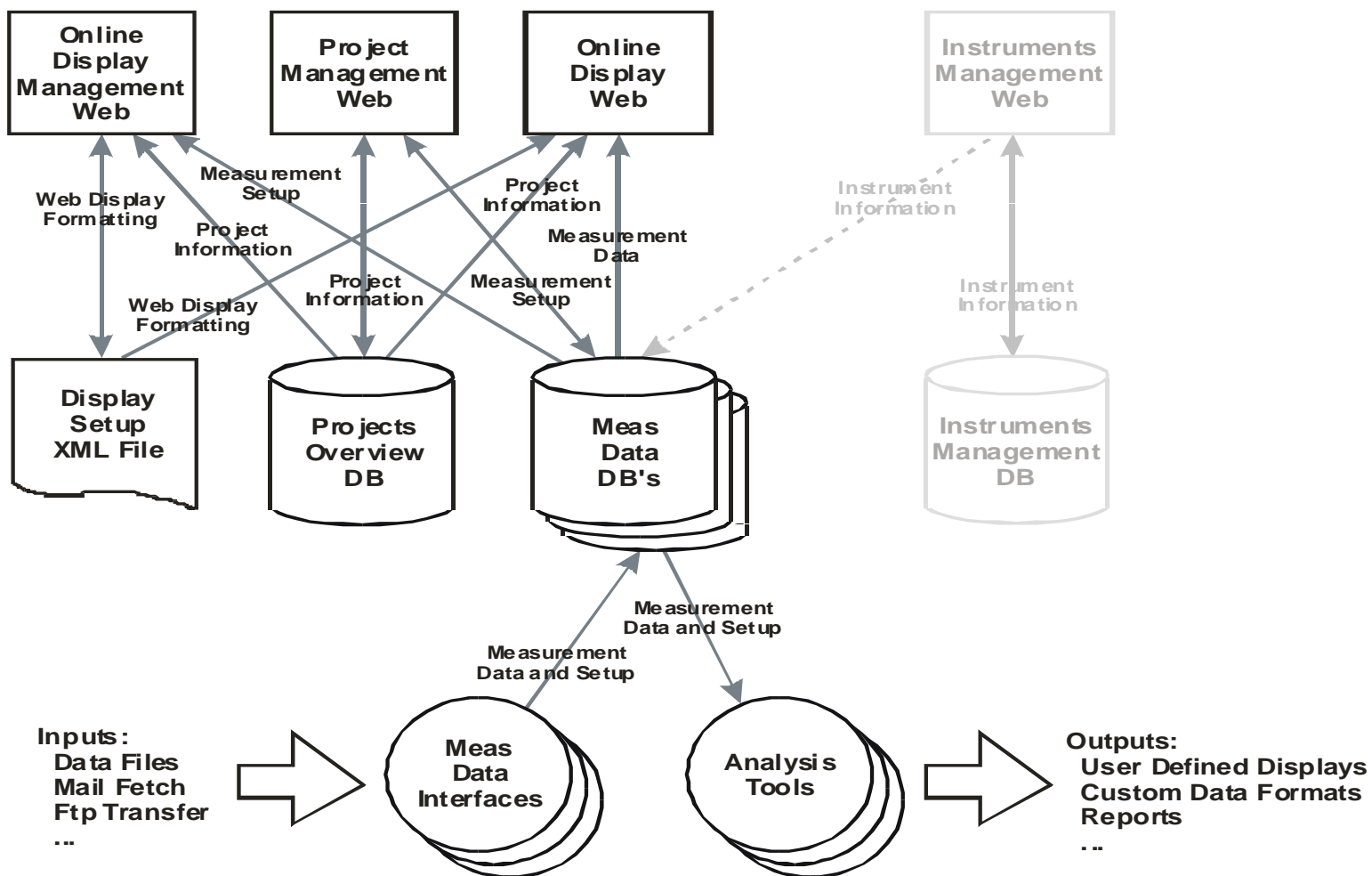
- Standard way of storing and documenting data
  - Sharing knowledge
  - Common tools
- Data security
  - Centrally handled backup
  - Instruments management (calibrations)
- Easy to add new projects with Web displays
  - Better possibilities for data control and automatic quality control
  - Different types of graphs – power curves, wind roses etc.

# WASA RODEO

Rodeo stands for

**Risø Online Database of  
Environmental Observations**

# Database overview



# Security

## Projects:

- Secret project, name not in the list of projects
- existenceonly, name on the projectlist and map
- overviewonly, only the overview page shown
- Public graphics (no download of data)
- Public

## Roles:

- Administrator
- Project manager
- Project member
- Guest



# Risø online data for environmental observations



<http://146.64.23.6/RODEO>

<http://veaonline.risoe.dk>



## Installation of measurement equipment.