Objective verification at the synoptic scale

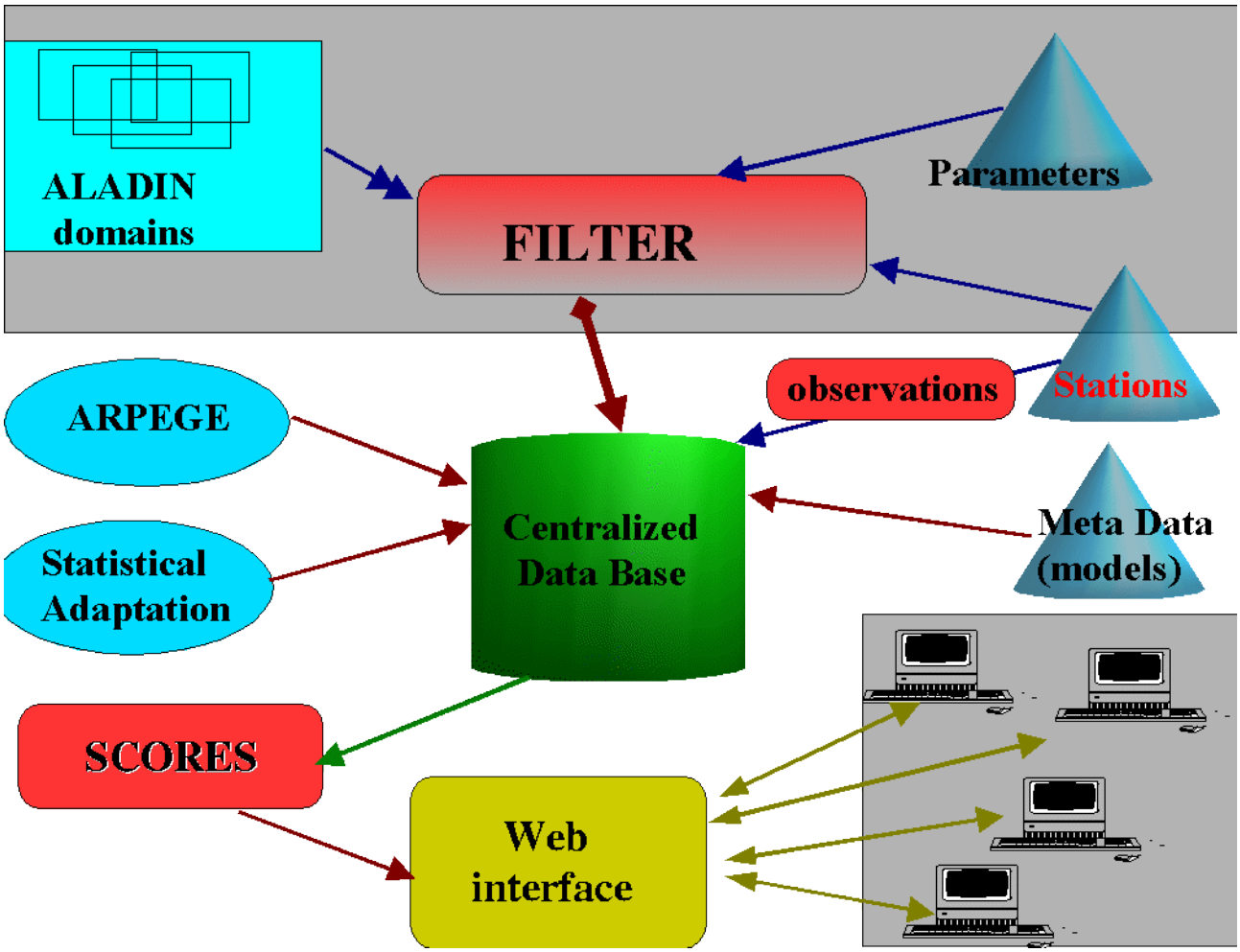
Proposal after the Budapest verification meeting (March 2002)

Objectives :

- to build a **routine procedure**
- **objective** verification at **synoptic** scale
- produce **time evolution** and **comparison** of **classical scores** over different domains or versions
- **prototype** for the next Assembly of Partners (October 2002, Bucarest)

List of **contact points** (verifala) to be updated at each change)

Schéma



List of stations (updated once a year)

- reliable SYNOP and TEMP stations
- selected from GTS
- covering all the operational ALADIN domains

List of parameters for SYNOP (updated once a year)

- 2 meters temperature,
- 10 meters wind components,
- mean sea level pressure,
- 2 meters relative humidity
- contingence table for cloudiness and precipitations
- minimum and maximum temperature : choice of ❒t ?
- Wind gusts : choice of ❒t ?

List of parameters for TEMP (updated once a year)

- temperature,
- wind components,
- geopotencial,
- relative humidity
- vertical levels (hPa) : 250, 500, 700, 850, 925 selected from GTS

List of scores per parameters : similar as Météo-France

List of models (Meta data to be updated at each change)

- characteristics of the hardware
- characteristics of the domain
- configurations of the "model" : cycle, namelist, ...

Filter : software to extract the data out of the model

- according to the **list of stations and parameters**
- to be **run locally** (available on all platforms)
- on **real time** (after the model, for every 6 hours forecasts)
- with a maintenance as simple as possible (not verifpack)
- for SYNOP: nearest grid-point over the land with correction of the altitude (from historical files)
- for TEMP : bi-linear interpolation (from lambert fulllpos files)

Centralized data base

- **Observations** (list of stations) with **ARPEGE flags**
- **ARPEGE forecasts** as reference covering all domains
- all **ALADIN forecasts** to be controlled (list of models)

Web interface : software to offer users visualisation of scores