ESIS: a prospective 'European Salmonid Information System'?

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A web-based information system was developed for the storage of telemetry and monitoring data gathered in a national sea trout migration study. Additional data like results of DNA and scale analysis are stored as well. Next components in the information system can be distinguished:

1. Detection data from telemetry projects.
2. Data on re-introduction projects on Salmonids.
3. Fish monitoring data, including DNA and scale analyses.
4. Physical and chemical monitoring data; data used for analyses of migration patterns.
5. Analyses tool.

At the moment, ESIS only serves as a database for Dutch fish telemetry projects. However, developing the database, the outcome of a feasibility study into possibilities of a web based Information System demonstrated the need for a central information system on a wider scale. One of the outcomes was the need for exchange of information (project information and/or project data). If ESIS should serve as a European Information System, next extensions are necessary:

1. Components

DNA databank of salmonid strains.
Meta information on salmonid research projects.
Discussion platform.

2. Functionality

Internet: Availability of data through the Internet.
GIS: To make a selection in the database and as a presentation tool.
Data input: Data mutation via the Internet.

- Safety: Protection against violation.
- Validation: Development of validation procedures.
- Existing systems: Connection with existing systems (using open specifications and XML-data exchange).

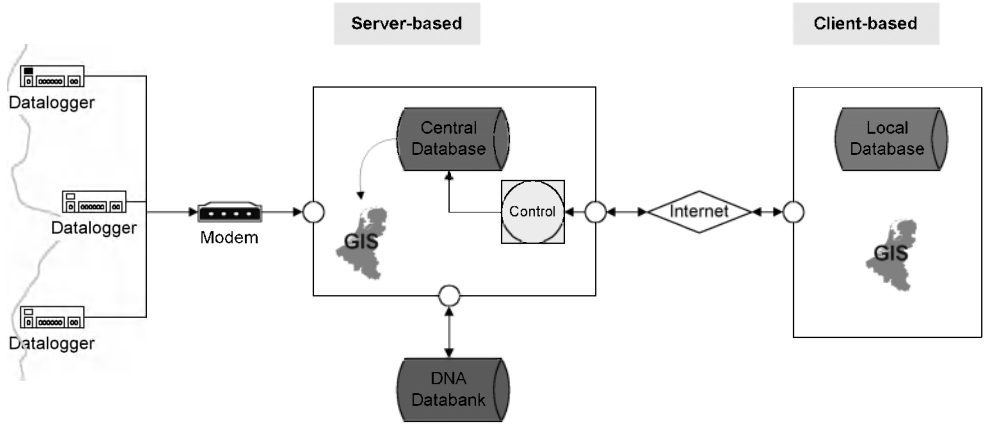

Figure 1. A fully browser based Information system, with an external DNA databank.