FOSS4G 2006 - Free And Open Source Softwa

Contribution ID : 85

An integrated freeGIS solution: MIPI project

Thursday 14 Sep 2006 at 13:30 (00h30')

The project ?Habitat improvements for wildlife?, sponsored by the Toscana Regional
and the Pisa Provincial administrations and realized by Faunalia, is heavily geared
towards geographical information. For every aspect of data management and analysis
Faunalia is using exclusively free software:
data are stored in PostgreSQL/PostGIS
different database clients (geographic and alphanumerical) are used for
administrations: psql, phpPgAdmin, PgAdminIII, OpenOffice, QGIS, UMN MapServer,
p.mapper
analyses are run through PostGIS, GRASS and R
QGIS is also used for data visualization and checking, and printing for field
surveys and dissemination of results
most data are available in real time for wider dissemination of results through a
p.mapper web interface
Main analyses are:
home range size, overlap and localization of radio-tracked pheasants and other
species
population density of pheasants, hares and passeriformes
habitat preferences for the same species
land use and landscape analysis
previsional models of habitat use
The use of a complete, powerful, well integrated suite of programs allowed us to
create a multi-user (>12 professionals, students and volunteers, of very varied
technical computer background and skills) environment, without data duplication.
Thanks to interoperability, occasional functional limitations of single software
packages are easily overcome by having several alternatives at hand.
It would have been infeasible to implement a similar infrastructure using
proprietary software, because the budget of the project is of the same order of
magnitude of the cost of licences needed.

Primary authors : Dr. CAVALLINI, Paolo (Faunalia) ; VENTURATO, Emilia (Faunalia) ; SCARSELLI, Daniele (Faunalia)

Co-authors : CANOVA, Carlotta (Faunalia) ; LAMI, Leonardo (Faunalia) ; LORENZETTI, Walter (Faunalia) ; PETRINI, Riccardo (Faunalia)

Presenter : Dr. CAVALLINI, Paolo (Faunalia)

Session classification : Session 7 : Desktop application

Track classification : --not yet classified--

Type : Conference