Among all data, according to Gartner’s 2018 forecast, georeferenced informations are becoming increasingly critical, both as macro location and as micro location. Data visualization through maps, schema or vectorial pictures will be a more and more requested feature for a business analytics tool.

The customer: ENAV

ENAV is the Italian air navigation service provider. With a workforce of 4,200 employees, the company provides air navigation services to the airlines that fly over Italian airspace. ENAV ensures safety and reliability 24/7 for the 1.8 million flights handled yearly from the control towers of 45 airports and 4 Area control centers.

The Need for cross domain analysis

In the first phase of the project, Knowage managed the merge of nine datasources related to flights that crossed the Italian airspace since 2013. The related datasets include detailed information on the flight activities of Italian airports and the position data of each flight, sampled every 30″.

The integration of the nine datasources made possible the easy cross-domain performance analysis otherwise undermined by such a large amount of data. Drill-down and cross navigation capabilities, with a minimum of commitment, lead to high satisfaction both for the user and the analyst.

In a second phase, five other operational datasources were integrated. With the complete set of information ENAV can carry out cross-functional analysis of its operational performance in any domain under its control (for example, airspace, managed airports, operating flights in a specific moment or time interval).
How ENAV uses Knowage

Within seconds, a single flight out of 1.8 million flown every year, can be found and the Knowage shows a map with the three routes (and the specific points) of that single FO:
- planned route: the one passing through several FIX points along the sky highways, also known as airways;
- actual route: the real trajectory that the flight has flown, made true through the frequent surveillance systems’ pieces of information
- actualized route: the aircraft position derived from the surveillance systems snipped to the closest FIX points

The reporting includes many maps, some stand-alone, others integrated in composite documents that control the trajectories shown.

**Key Benefits**

Now ENAV analysts can access pivotable lists, OLAP, dashboards and QbE into a single application along with an extensive set of operational data.
- The analysis now become easier and more immediate.
- The export of results is conceived to make everything more easily reusable by the most common office automation applications.

**Contacts**

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**About KNOWAGE**

Knowage is the full capabilities open source suite for any modern business analytics. OW2con’18 Best Project and MARKET AWARD2018 winner.

**About OW2**

OW2 is an independent industry consortium dedicated to developing open source code infrastructure and to fostering a vibrant community and business ecosystem. OW2 federates some one hundred organizations and 6000 IT Professionals in Europe, Asia and the Americas. OW2 hosts over one hundred technology Projects, including ASM, Bonita, Chameleon, CLIF, DocDoku, Easylearns, Emerginov, Fractal, FusionDirectory, JOnAS, JORAM, JOTM, LemonLDAP:NG, Lutece, PetsalesESB, Prelude, ProActive, SAT4J, Spagio, Spago4Q, SpagoBI, Talend Studio, Telosys, WebLab, XWiki. Several of these projects are combined into market-driven Initiatives (e.g. Security, Accessibility) which facilitate their implementations into business solutions by systems integrators, OEMs and end-users.

OW2 is an open source dissemination partner in a number of collaborative projects, such as CHOREVOLUTION, OCClware CROSSMINER and STAMP.