eWise: Subterranean Networks management interoperability between utilities companies, Public Administration & Citizens
**Who we are?**

**Acefat** is a company created in 1990 to develop a project of services worked integrated management in public in the city of Barcelona.

**Acefat** is managing street works for Barcelona City through the E-Gios application. For the information services of all the network in Catalonia of utilities companies & local administration, they developed jointly with Hexagon the **eWise platform**

**Hexagon Safety & Infrastructure** is part of Hexagon, a leading global provider of information technologies that drive quality and productivity improvements across geospatial and industrial enterprise applications.

**Bi-Tic** is an ICT company that since 2007 works together with Hexagon & Acefat in building smart & integrated solutions.
eWise is an innovative Web solution which facilitates to exchange information about the underground infrastructures.

Street Works
Costs  Time  Accidents
Transit disruption
Utility Companies
Constructors  Administration
User logs in
Draws the map
Requests
Receives the Information
Opens the eWise, ¿Qué es? How does it work?
Ewise architecture

WISE SERVICES ARCHITECTURE

Interfaz E-Wise
(GeoSpatial Portal)

GIS SOA services

Geonedia WebMap Professional

REQUEST WORKFLOWS

SERVICES PROVIDERS - AFFECTED ZONE REQUEST

WFS

OGC

INTERNET

INTRANET

Municipal Applications

Example Glosa Barcelona

Utility Companies services

Aplicaciones Otras usuarios...

WFS SOAP

INTERNET

Water

Electricity

Communications

Gas

Cinema

OGC

WMS & OPENLS

National

Regional (ICC)

Municipality

acefat
Features

eWise main features:

1. Links online to get the requested mapping information.
2. Automated required extra documentation.
3. Manually upload additional information.
4. Integrates with existing systems (GIS & ERP) using standard protocols (OGC, INSPIRE, SOAP).
5. Supports on statutory regulations.
6. Allows rules personalization.
7. eWise ensures intellectual property information.
8. Administrative transparency with defined audit trail.
9. Can interconnect with highway licensing systems.
10. Overview of all requests
Benefits

eWise main benefits:

1. **Improved efficiency**: Savings in cost & maintenance by use of standard software and delegation of work to requester of information.
2. **Improved effectiveness**: Online requests delivered in few minutes.
3. **Cost reduction** through co-ordination of procedures and works.
4. **Time/Cost reduction** through simplified and speedier administration.
5. **Standardised** and well managed documentation.
6. **Improved quality of service** offered by the company.
7. **Increased and improved information** for the general public and other key stakeholders.
8. **Reduced disruption to road users**, pedestrians and business owners.
9. **Improved health and safety** with reduction in accidents.
10. **Commitment to Smart Cities** and sustainable development.
E Wise Options

By how to use

For a group of utilities
- DBYD Single entry point.
- Eases coordination.
- Trusted external service with defined audit trail

For one single utility company
- Integration into existing customer service
- Corporate look & feel
- Turnkey project

By deploy

SaaS
- Both uses: single company & group of companies
- Scale economy of software & service savings.
- Secure link to each company's IT Systems.

Customized service
- Intended for a single company
- Scale economy of software savings
- Complete integration into company's IT Systems
E wise Experience

- eWise Portal started operating in 2008
- 36,000 annual work projects and studies
- More than 7,600 users from 4,700 different companies
- Average response time: 5 minutes versus 20 days
- Savings exceeding €500,000 per year in labour, management and works costs.
Conclusions

As a commitment to the concept of ‘Smart Cities’ benefits are:

• SUSTAINABILITY
• COLLABORATION
• LIFESTYLE
• COMMUNICATION & INFORMATION
• HEALTH & SAFETY
• SIMPLICITY

Benefits to Utilities and Authorities:

• CO-ORDINATION
• EFFICIENCY
• EFFECTIVENESS
• TRANSPARENCY
• SECURITY
• SAVINGS
Thanks for your attention

Juan Ramon Mesa
jrmesa@acefat.com