



New operational Geo-Information Services using Satellite-Based information for natural risks management:

RISK-EOS & PREVIEW

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EURO RISK

- Initiative launched by several Civil Protection Services in Europe, EUMETNET and EADS Astrium
- To develop and validate new GMES information services to better support risk management
- Concerns all phases: prevention, alert, response and recovery



EURO RISK

A progressive set-up, development of a complete portfolio of operational services for deployment and operational validation at European scale

based on two complementary projects



utilizing the capabilities of observation satellites in combination with other data sources and models



EURO RISK



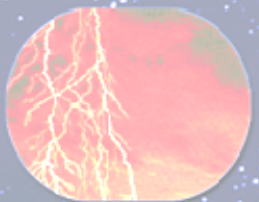
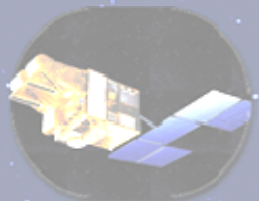
GMES Service Elements Initiative of ESA

a portfolio of services
progressively developed,
according to user's
priorities and based on
mature methodologies or
products

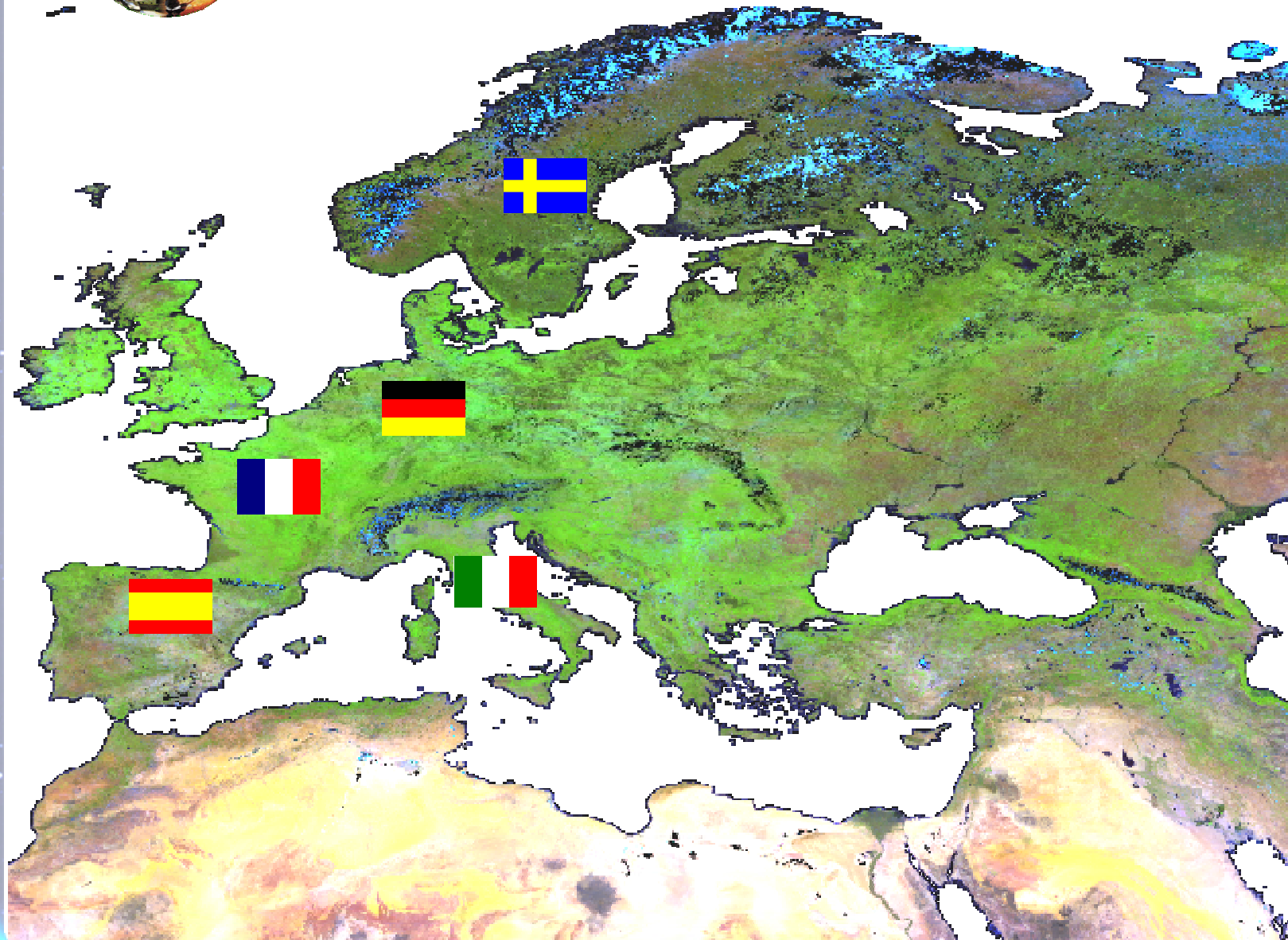


European Commission FP6 second call

methodologies,
developments and pre-
operational validations of
risk management services
making the best use of the
most advanced research

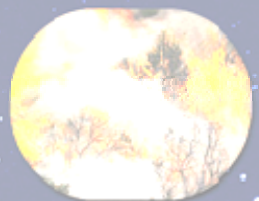
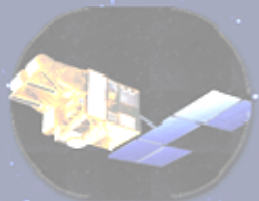


Partnership





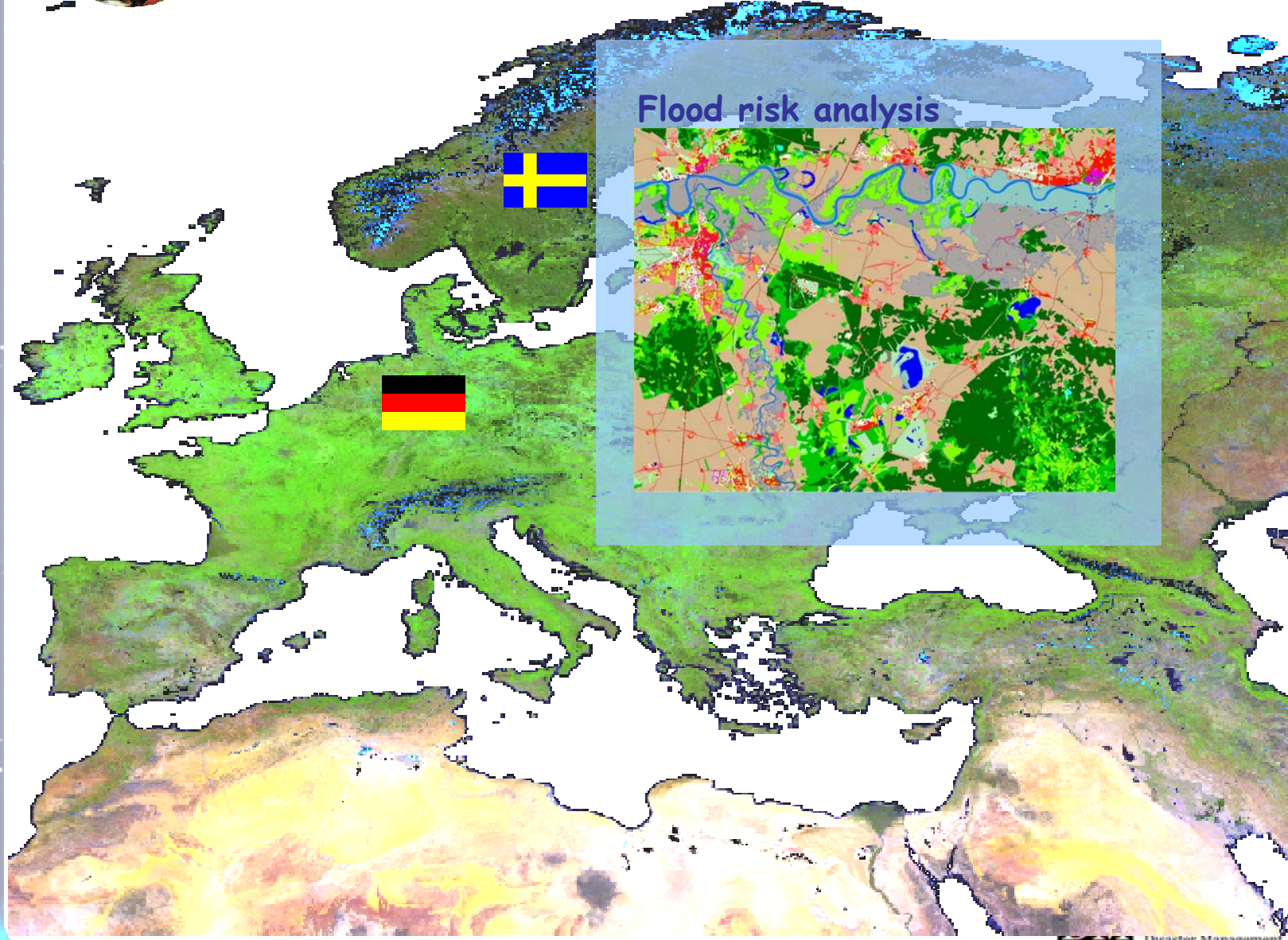
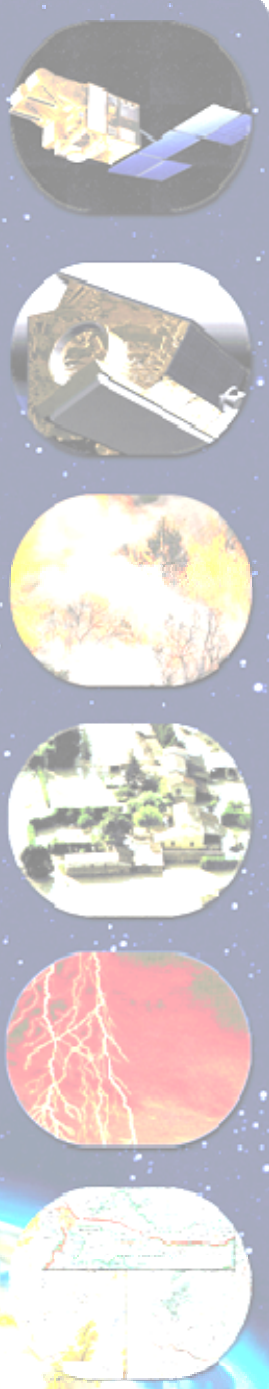
Partnership





First batch: 2003-2004

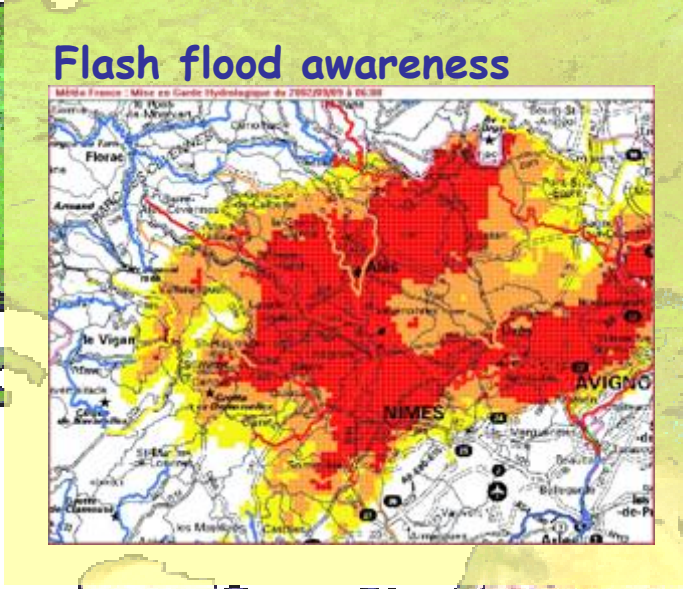
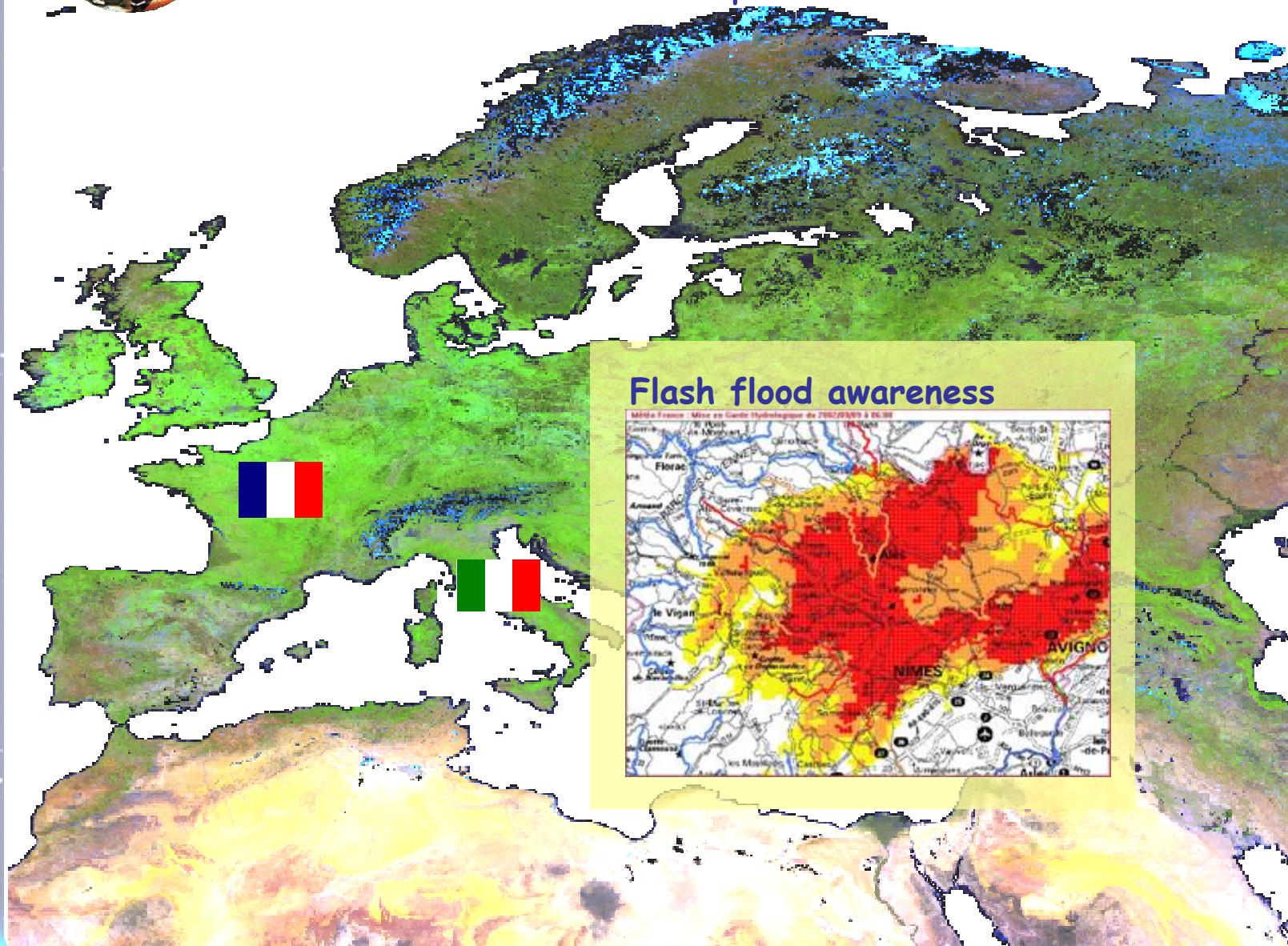
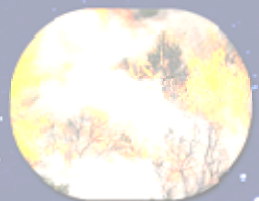
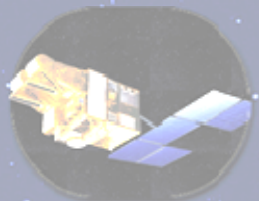
A first set of four services delivered and validated with pilot users





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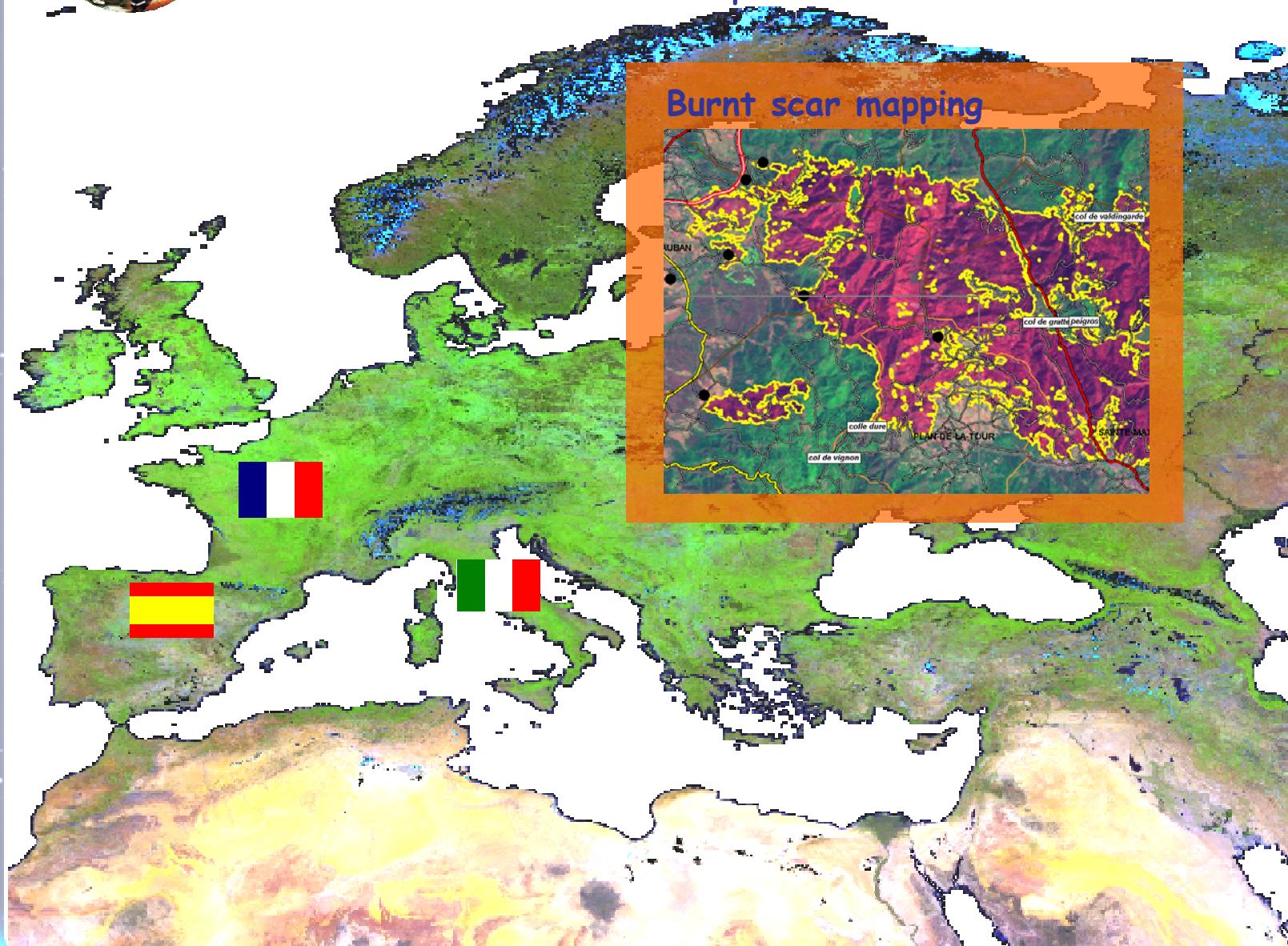
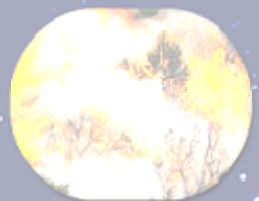
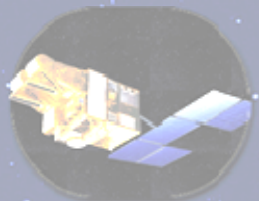
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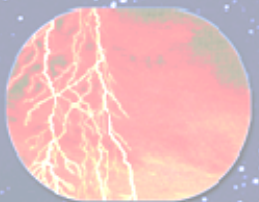
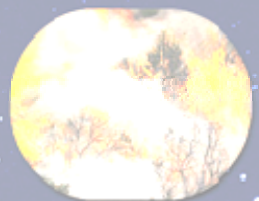
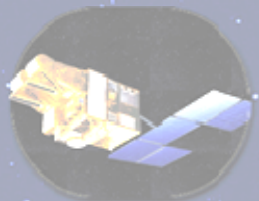
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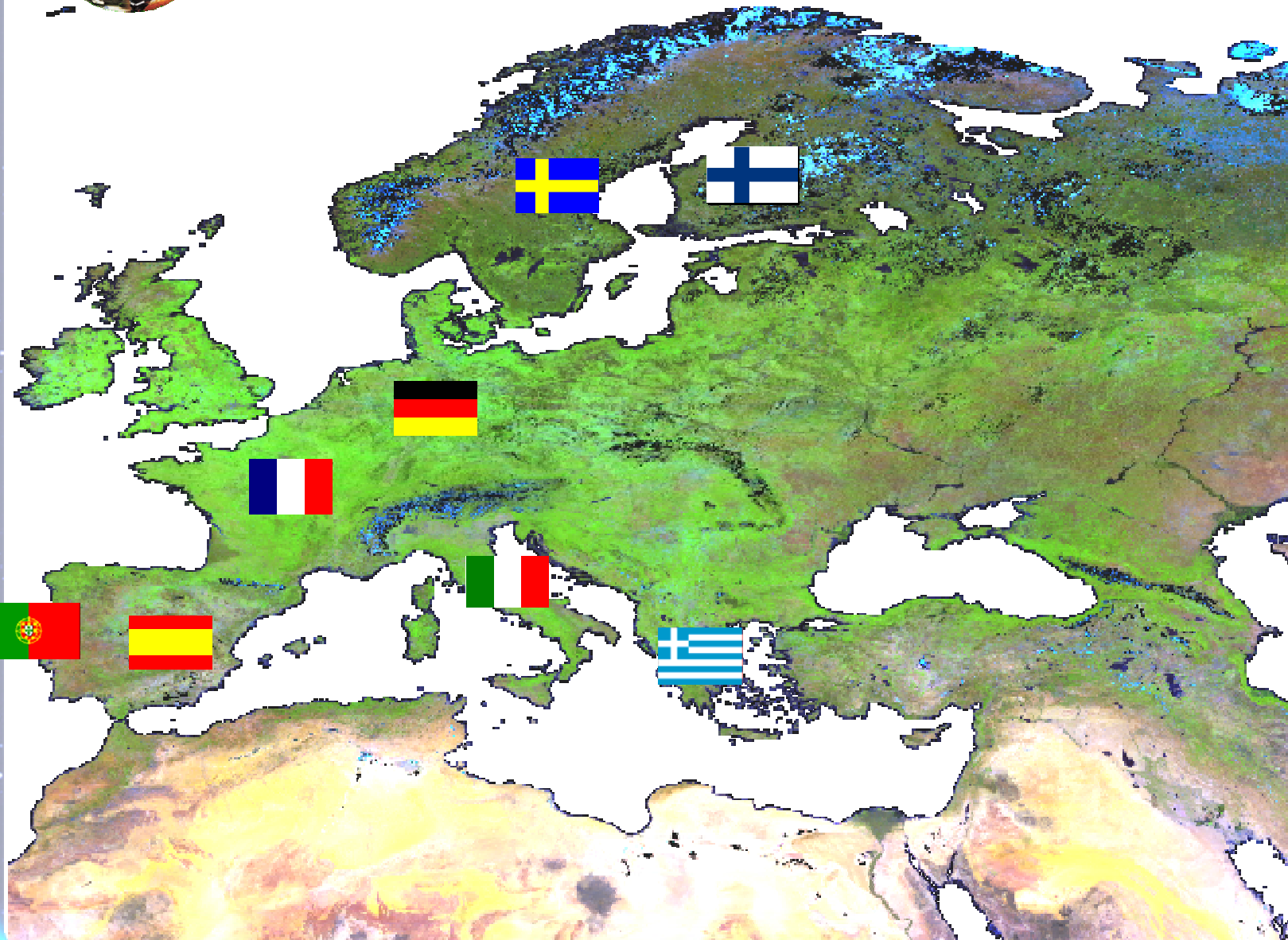
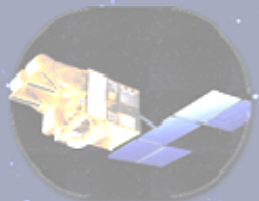
A first set of four services delivered and validated with pilot users





2nd batch: 2005-2007

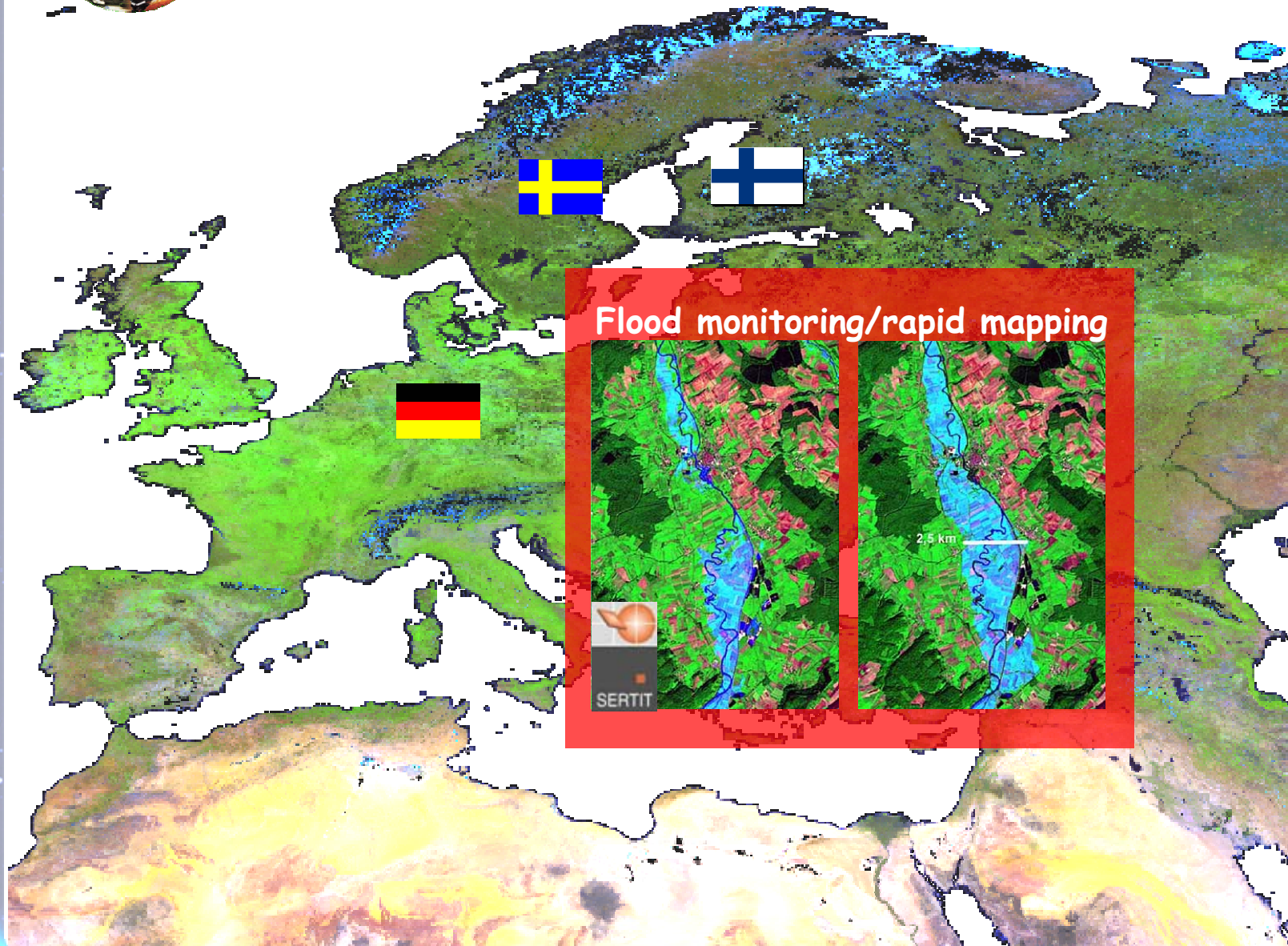
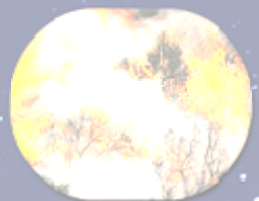
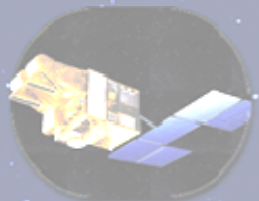
Services portfolio extension





2nd batch: 2005-2007

Services portfolio extension



Flood monitoring/rapid mapping

2.5 km

SERTIT

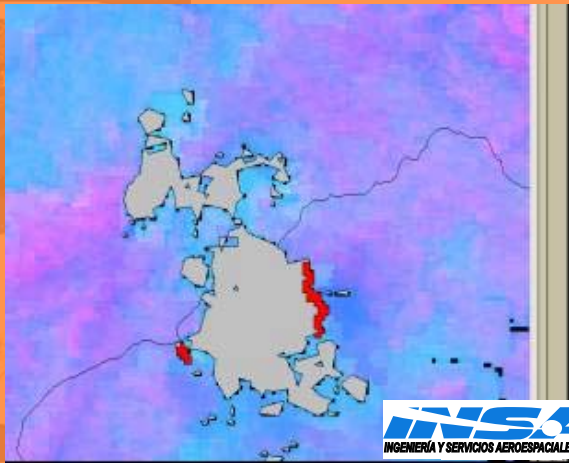


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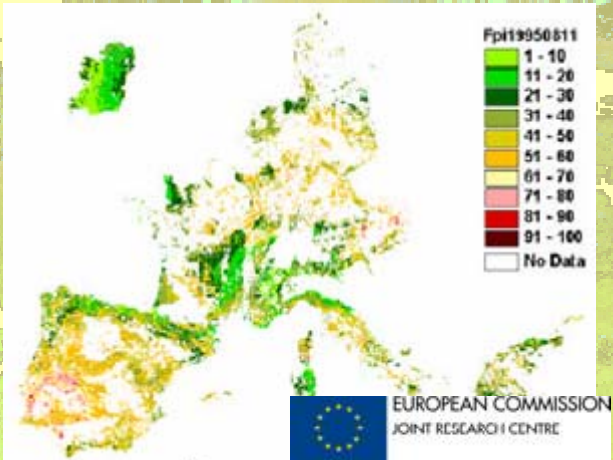
Services portfolio extension



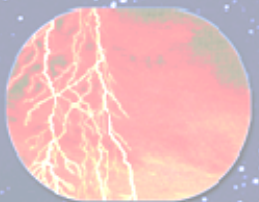
Fires monitoring at middle resolution



Dynamic fire risk monitoring



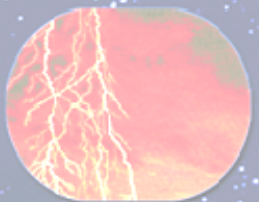
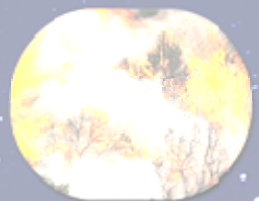
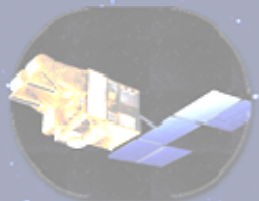
Rapid fire mapping

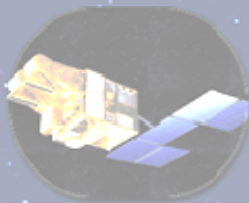




2005 - 2008

8 test sites to deploy & validate the proposed services



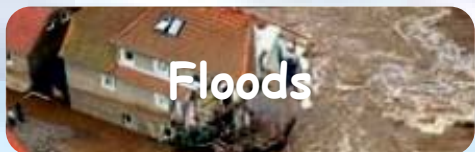


2005 - 2008

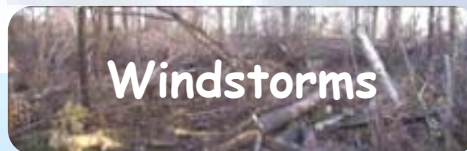
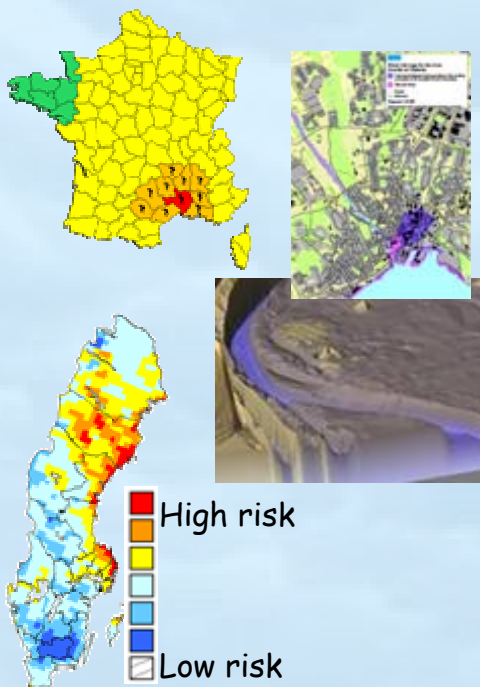
8 test sites to deploy & validate the proposed services



Atmospheric risks



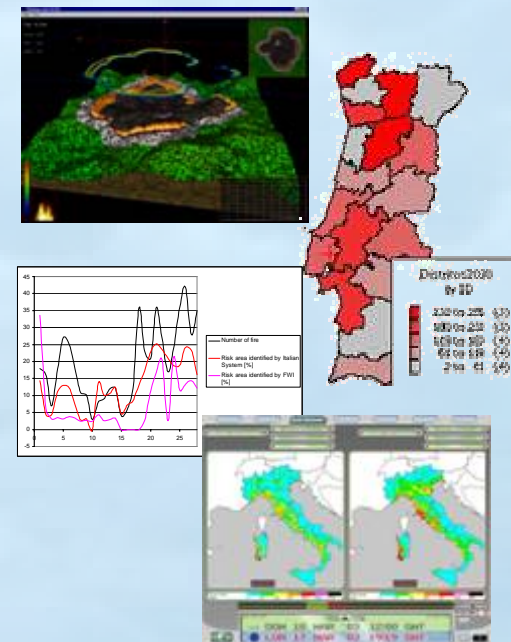
Floods



Windstorms

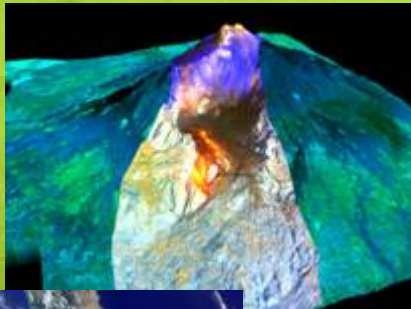


Fires

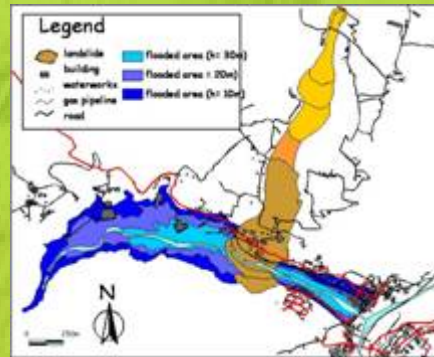


Seismic risks

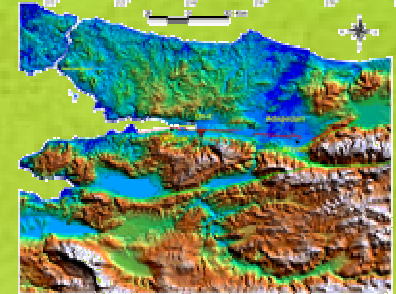
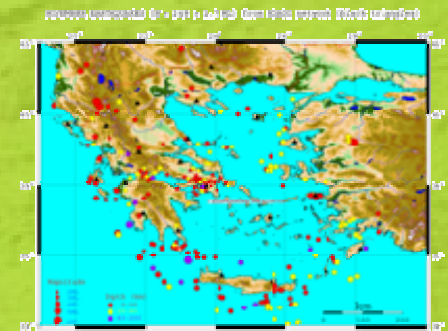
Volcanoes



Landslides



Earthquakes



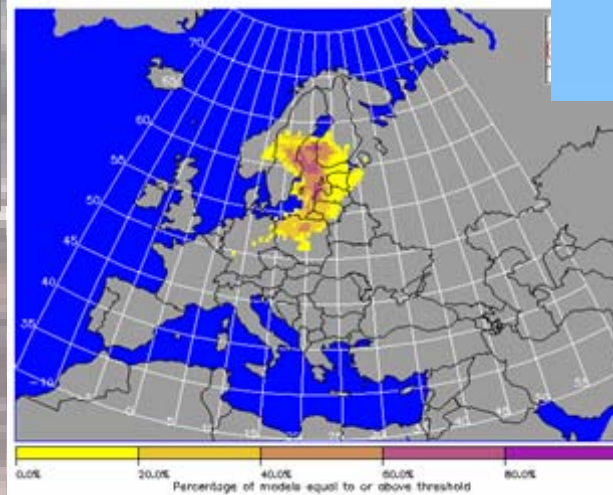
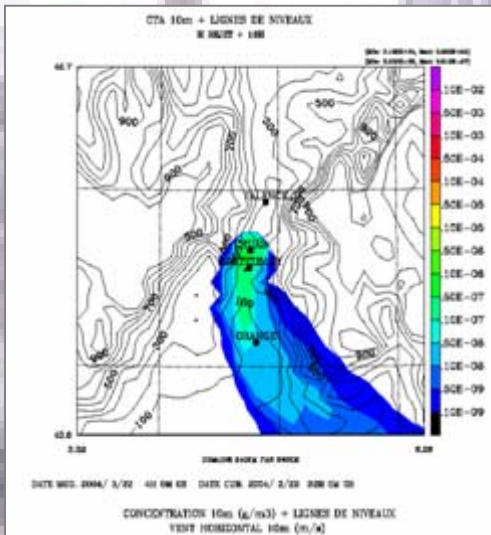


2005 - 2008

8 test sites to deploy & validate the proposed services



Man made risks





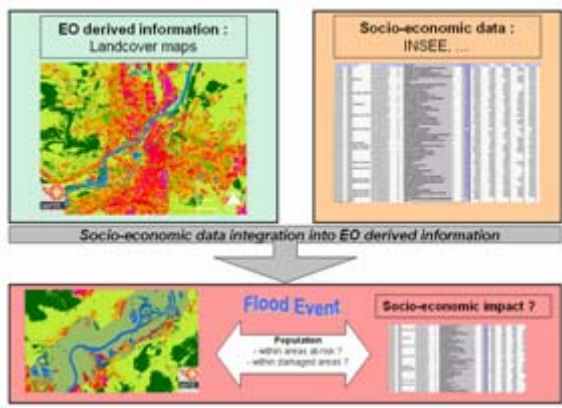
2005 - 2008

8 test sites to deploy & validate the proposed services

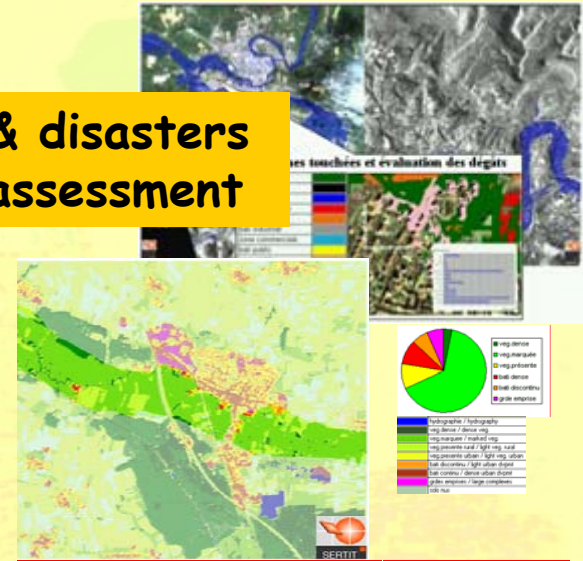


General services

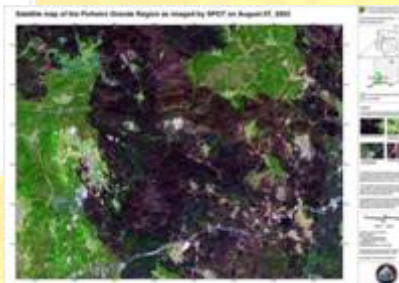
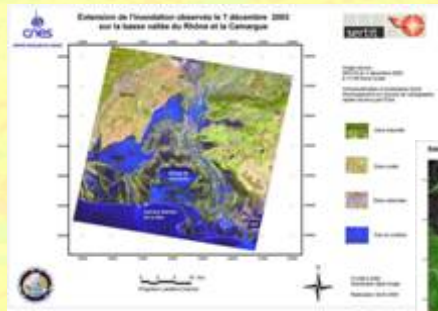
Assets mapping



Damages & disasters intensity assessment



Rapid mapping



PREVIEW & Risk-EOS a complementary approach:

- Enlargement of the services portfolio, of partners and pilot sites
 - From 2 to 7 risks types
 - From 5 to 15 partners countries
- Transfer of mature technologies / most advance research & technology
- Batches implementation, close cooperation with end-users,
- Enhance harmonization at EU level

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RISK-EOS web site: www.risk-eos.com