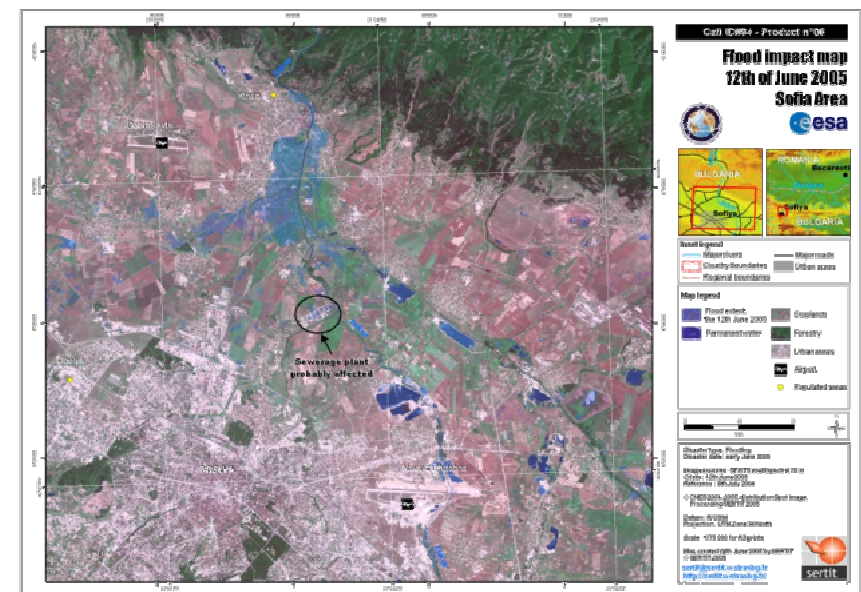


Bulgarisk

Results and perspectives

- ➔ **Study : integration of satellite imagery in the operational procedures of risk management in Bulgaria (24 months)**
- ➔ **Objectives of this French-Bulgarian cooperation :**
 - **To present how to transform satellite data into useful information for risk management => land management,**

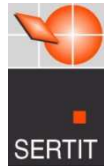
- To study if & how geographical information derived from satellite images could be integrated in the operational procedures of risk management in Bulgaria (production, processing, dissemination)
- To contribute to the terms of reference of a national centre for risk management (floods, forest fires, maritime pollution,...)



- ➔ **Co-funded by the French Ministry of Economy, Industry and Employment.**



- Project leader
- Satellite image provider
- Final report
- Promotion & communication



- Technical coordinator
- Training sessions
- Development of geo-information products dedicated to risk management (flood, fire, landslide, ...)



- Training session on maritime risk management
- Development of geo-information products dedicated to risk management (maritime applications)



- Training session on risk management tools
- Development of integrated systems dedicated to risk management (Risk Frame)



- French Civil Protection



- Remote Sensing Application Center
- Local project coordinator
- Training sessions
- Development of geo-information products using satellite imagery

Main beneficiaries



Agency for Sustainable Development and Eurointegration

- Local coordination of the beneficiaries
- support to the seminars, workshops and training sessions



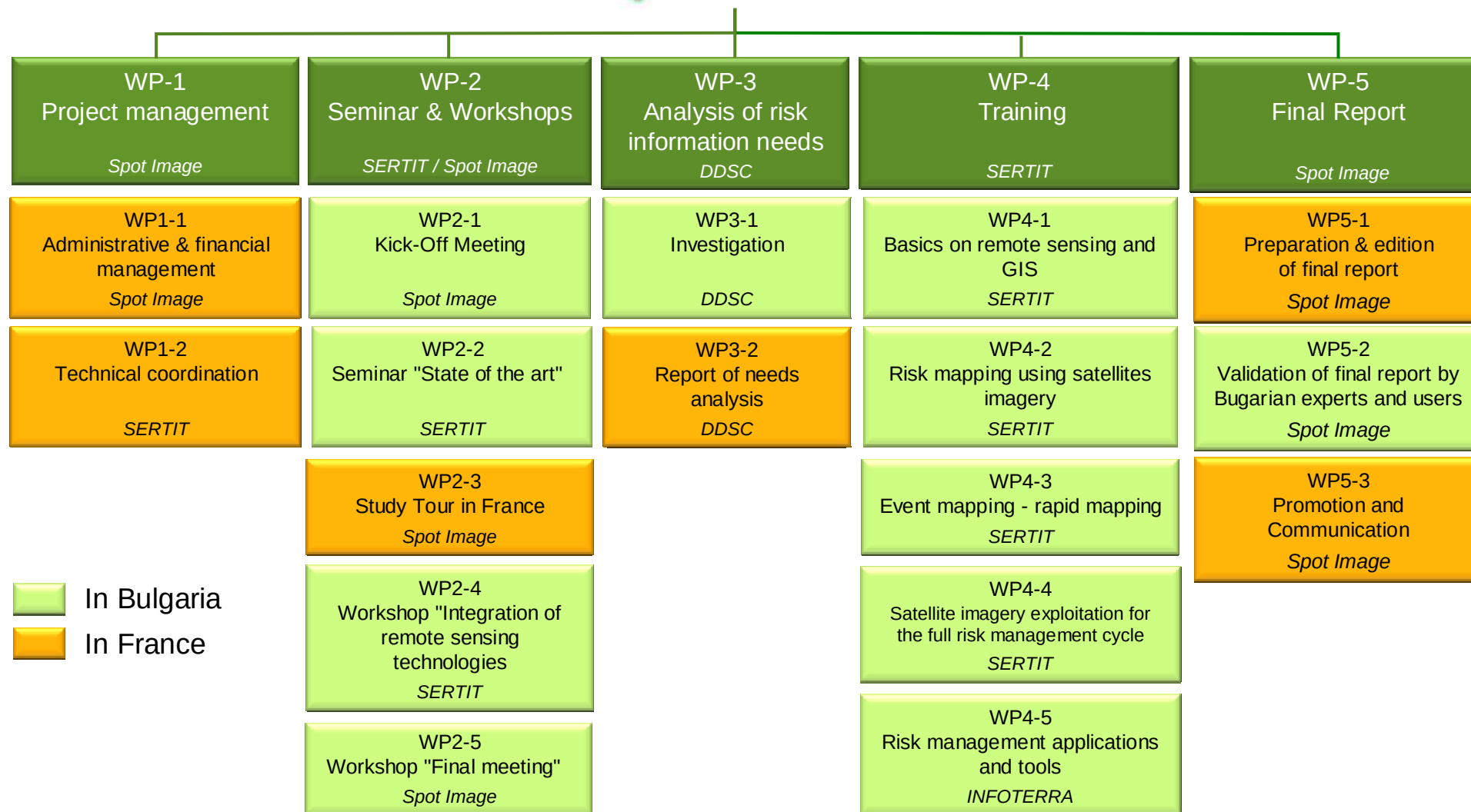
Ministry of Transport, Information technology and Communications

- Participation & support to the seminars, workshops and training sessions

Additional beneficiaries

- Alliance for Environment
- National Association of Municipalities in Republic of Bulgaria
- National Institute of Hydrology and Meteorology, Bulgarian Academy of Sciences
- Executive Environmental Agency (Ministry of Environment and Water)
- National Civil Protection Service
- National Fire Safety and Protection of Population Service (Ministry of Interior)
- National forestry board/State Forest Agency

Project content



 In Bulgaria
 In France

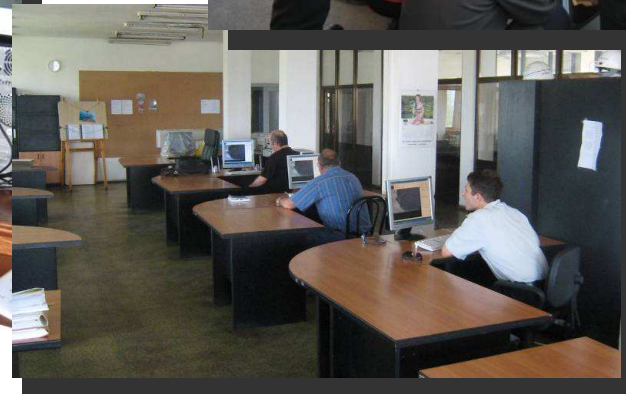


Main steps of the project (1/2)

- Kick Off meeting in Sofia (July 2 to 7, 2007)
- International Conference in Varna (Sept. 26 & 27, 2007)
- Seminar « State of the Art » in Sofia (Nov. 27, 2007)
 - Presentation of French & Bulgarian know how on the use of satellite imagery for risk management
- Needs Analysis (from Nov. 2007 to June 2008)
 - Work in Bulgaria & France
- Training session in Sofia & Bourgas (from March to Dec. 2008) &
- Study Tour in France (22 – 26 Sept. 2008)
- Workshop « Integration of satellite imagery into risk management procedures »
 - Recommendations from Bulgarian beneficiaries
- Final workshop

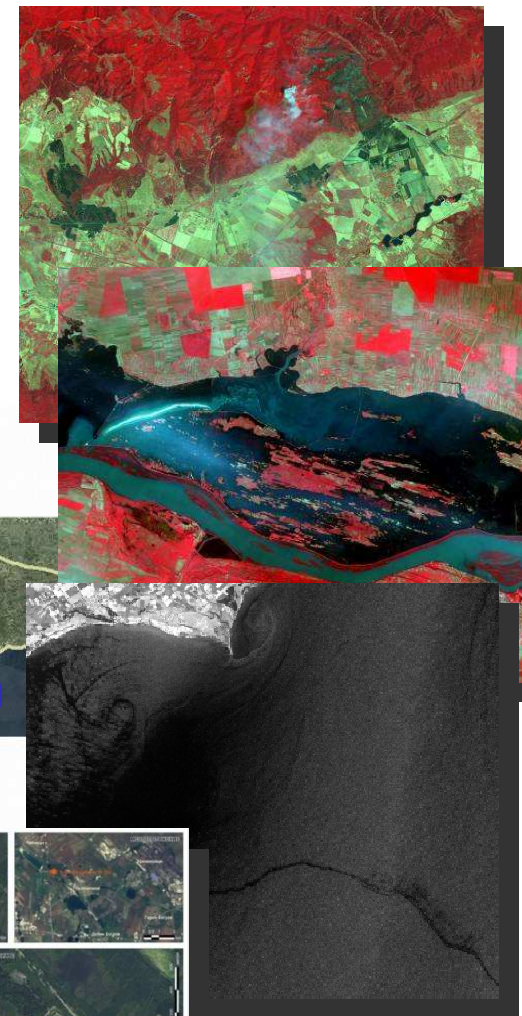


- Basics on remote sensing and GIS (*March 6&7, 2008*)
- Basics on risk mapping using satellite imagery (*April 23&34, 2008*)
- Event mapping - rapid mapping (*June 18-19 & 25, 2008*)
- Satellite imagery exploitation for the full risk management cycle (*October 7&8, 2008*)
- Risk management applications and tools (*December 16-17, 2008*)



→ Prototypes of database over several pilot areas

- Forest Fire : North Stara Zagora and Rila
- Flood monitoring : Danube, Sofia, Targovishtë
- Maritime pollution : Varna
- Blast : Sofia



Promotion & Communication around the project (1/2)



→ Promotional tools

- Logo
- Project PowerPoint presentation
- Posters and leaflet
- Promotional film
- Article in SPOT Magazine #46 – 1er semestre 2009

→ Participation to seminars and conferences

- « International conference on cartography & GIS », 21-24 Jan 2008, Borovets, Bulgaria
- EURISY 2008 (Local and Regional Risk Management - Integrated Use of Satellite Information and Services), 10-11 March 2008, Sinaia, Romania
- BALWOIS 2008 (Water Observation and Information System for Decision Support), 27-31 may 2008, Ohrid, Macedonia
- 2009 Spot Image International Conference June 10 -11, 2009, Toulouse, France

→ Presentation of the project to international delegations



Promotion & Communication around the project (2/2)



→ Communication on the Web

■ Project presentation & news



- On Spot Image website :
<http://www.spotimage.fr/web/en/1511-bulgarisk.php>



- On ReSAC website:
<http://www.resac-bg.org/en/projects.html>
<http://www.resac-bg.org/en/news.html>



- On MTITC website :
<http://www.daits.government.bg/?t=novina&id=75> - Seminar State of the Art
<http://www.daits.government.bg/?t=novina&id=139> - Training session # 1

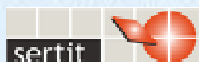
■ Websites speaking about Buglarisk



- [MediaTerre](#)
- [EoMag](#)



- [ESA](#)
- [The Sofia Echo.com](#)
- [Computer World](#)



Project deliverables



→ **Deliverable #1: Report of needs analysis (Nov. 2008)**

→ **Deliverable #2: Final report (June 2009)**

■ Recommendations for the integration of satellite imagery in the operational procedures of risk management in Bulgaria

□ Based on:

- ✓ Seminar "State of the Art"
- ✓ 5 Training sessions
- ✓ Study Tour in France
- ✓ Report of needs analysis

□ Validated by Bulgarian experts & users



Ref: SLOD PS 2007 243
Проект: БУЛГАРИСК
Дата: 17/03/08
Име: 1
Причина: 1
Вид: 1

Дирекция Проекти и Услуги

Проект БУЛГАРИСК
Изследване на оперативните процедури по управление на рисковете в България

Фонд за проучвания и подкрепа на частния сектор
(ФППЧС) – България Конвенция N°723

**СИНТЕЗ НА
АНАЛИЗА НА НУЖДИТЕ**



Доставка D1.0

Име и функция	Дата	Вид
Автори: Ф. Бубила - Spot Image Ф. Байрев - Spot Image Б. Азиев - SERTIT С. Ковалевски - ДТ ОЗ В. Кербас - CLS Boost Ф. Грашин - Infoterra Л. Матеева - ResAC	17/03/08	

Ref: SLOD PS 2009 031
Проект: БУЛГАРИСК
Дата: 22/06/09
Име: 9
Причина: 9

Дирекция Проекти и Услуги

Проект БУЛГАРИСК
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Фонд за проучване и подкрепа на частния сектор
(ФППЧС) – България Конвенция N°723

ДОКЛАД ЗА ПРЕПОРЪКИ



Доставка D2.0

Име и функция	Дата	Вид
Автори: Ф. Бубила - Spot Image Ф. Байрев - Spot Image Б. Азиев - SERTIT С. Ковалевски - ДТ ОЗ В. Кербас - CLS Boost Ф. Грашин - Infoterra Л. Матеева - ResAC	22/06/09	



→ A successful project

- The schedule has been respected
- The commitments have been respected
- The results have been achieved

→ A team of enthusiastic participants

- From several Ministries/Entities
- From several region

→ Motivated Beneficiaries

- SAITC / Ministry of Transportation
- Alliance for Environment, National Association of Municipalities in Republic of Bulgaria, National Institute of Hydrology and Meteorology, Bulgarian Academy of Sciences, Executive Environmental Agency (Ministry of Environment and Water), National Civil Protection Service, National Fire Safety and Protection of Population Service (Ministry of Interior), National forestry board/State Forest Agency

→ Main concerns:

- How continue the work done?
- How enlarge the scope to other applications?
- How enhance the results obtained?
- How help in the establishment of a permanent activity/action ... especially in the frame of GMES initiative?

→ Bulgarian Authorities can decide ...

Thank you for your attention!





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MINISTRE DE L'INTERIEUR,
DE L'OUTRE-MER
ET DES COLLECTIVITES TERRITORIALES