

Joint Research Centre (JRC)



Interdisciplinary methods for analysis of natural resources and conflicts

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Agenda

- **Institutional and political context**
- **G-MOSAIC**
- **The Narco project**
- **Conclusions and ISFEREA research directions**

Institutional and policy context

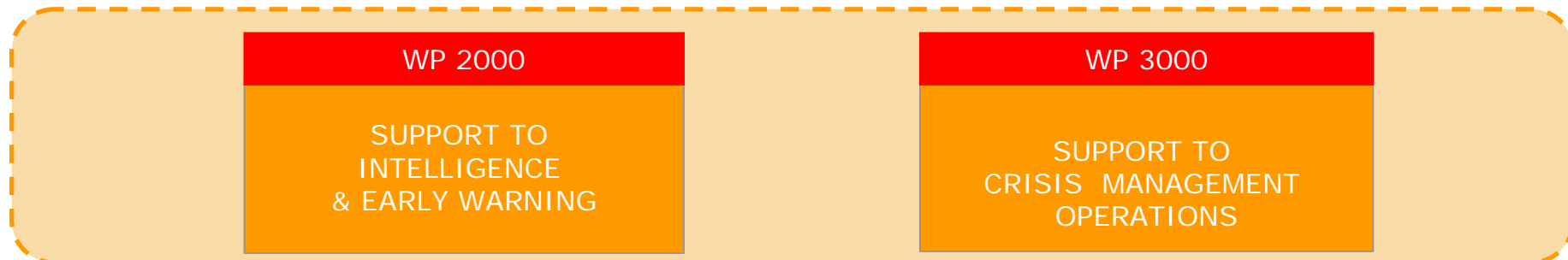
- **Seventh Framework Programme (JRC FP) in the "Global Security" agenda of the policy theme "Europe as a world partner"**
- **Community Instrument for Stability (EC 2007)**
 - conflict prevention
 - crisis management
 - peace building
- **Community Disaster Risk Reduction Initiative**

G-MOSAIC (GMES FP7)

Objectives :

- Identifying and developing products, methodologies and pilot services for the provision of geo-spatial information in support of EU external relation policies

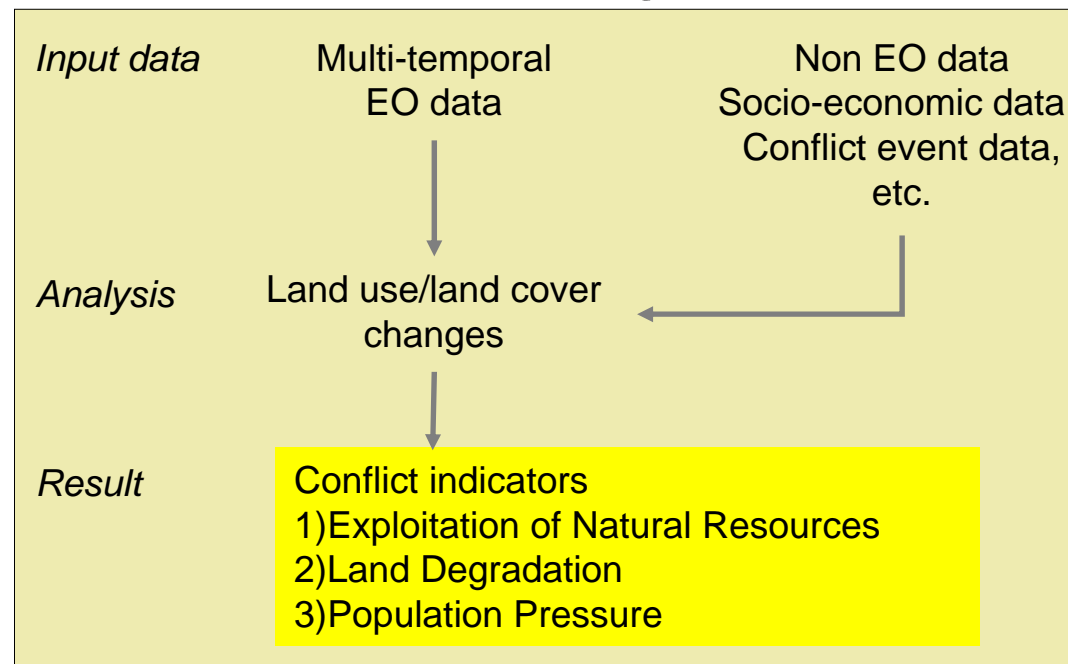
Services



Deployment of Conflict Indicators

Area	Service chain
Democratic Republic of Congo (North- and South Kivu)	Exploitation of natural resources
City of Harare (Zimbabwe)	Population Pressure
Zimbabwe/Mozambique/South Africa Border	Land Degradation

Methodology



Population Pressure

Urban growth of Sanaa (Jemen):
built-up area in 1978, 1989, 1994,
2004, 2007 (light to dark red)



Expected results

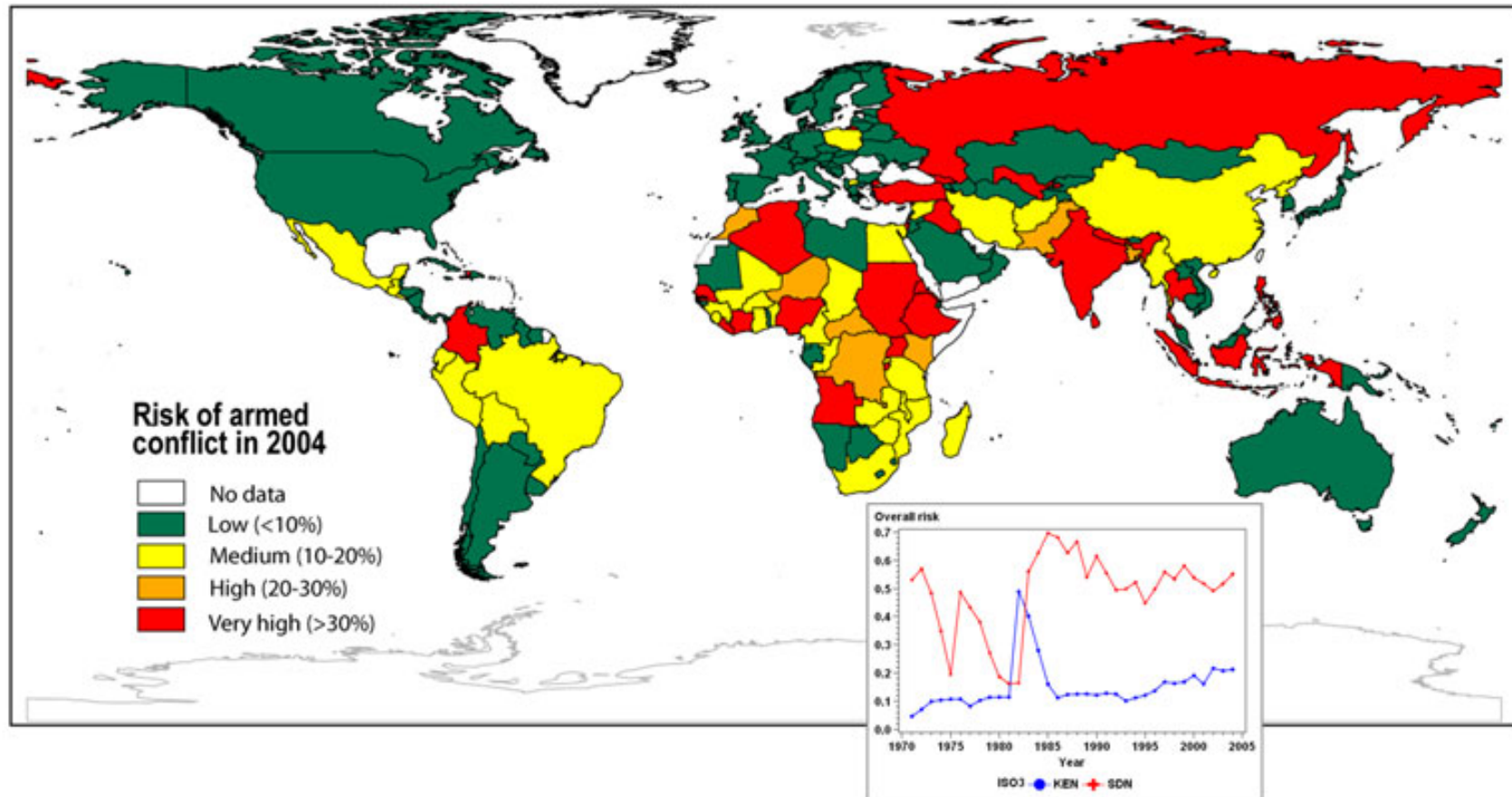
- **Service chains & infrastructure for the provision of pre-operational pilot services in support to security activities, in particular focusing on External Regional Crises**
- **Pre-operational Core Services for Security based GMES security & emergency response projects**
- **Develop a prototype portal to access the produced information**

For further information on G-MOSAIC, please contact:
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Narco project

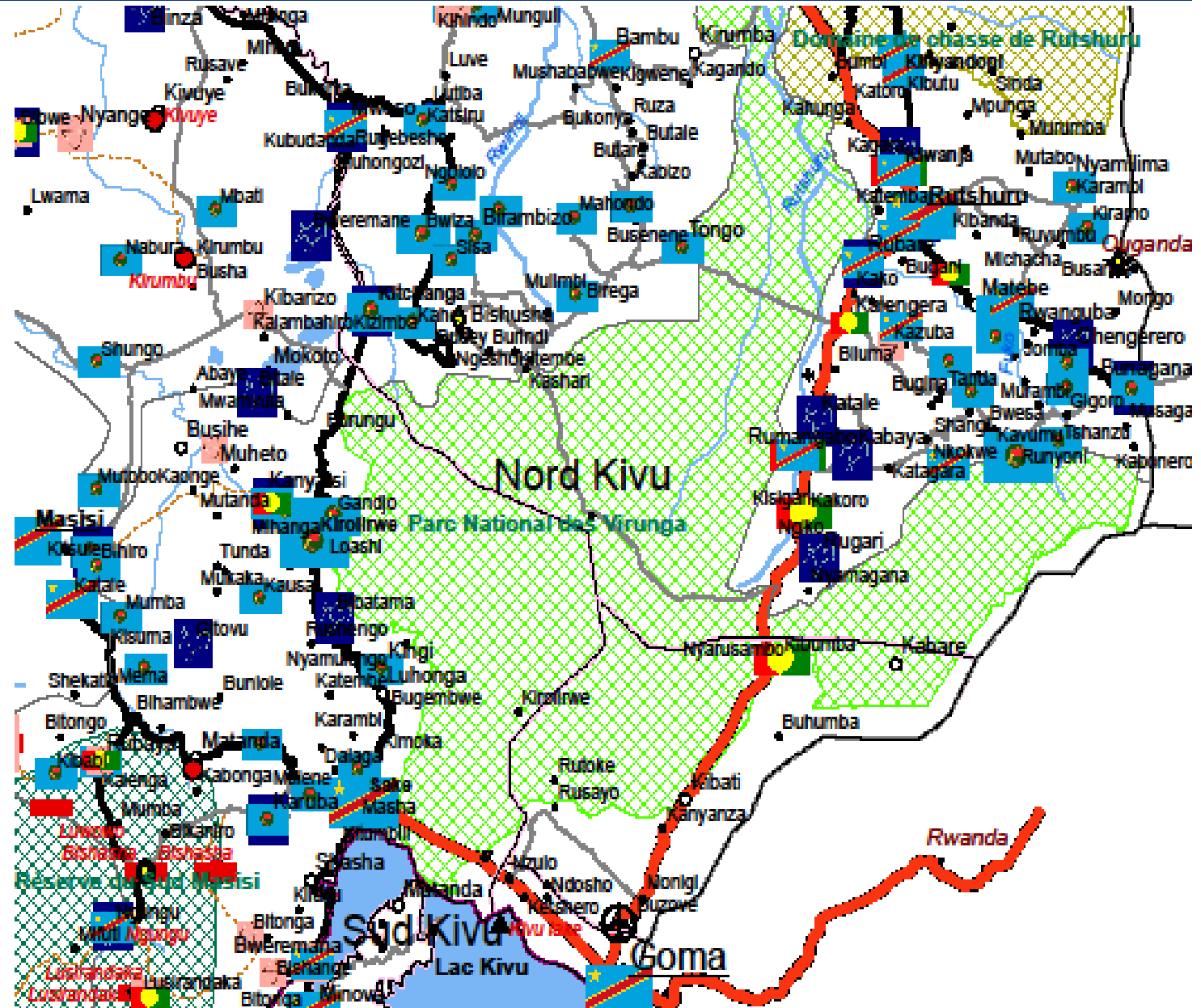
Objectives :

- **Information Centre for information and data**
 - On conflict
 - On natural resources
- **Analysis of the links between natural resources and conflicts**
 - Influence of natural resources in funding and fuelling conflicts
 - Interaction with other economic, social and political conflict-driving factors




- Mapping Conflict Motives:
- the Eastern DRC' (c) IPIS, 2009


<http://www.ipisresearch.be/mapping-kivu.php>

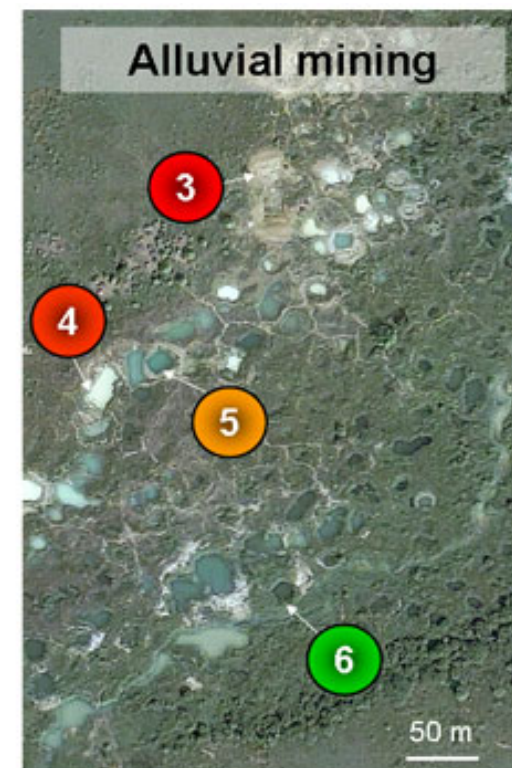








 Cluster of tiny pits in exploratory areas



 Excavation from industrial mining (of artisanal nature)



-  Dry pit
-  Highly sedimented water pit
-  Sedimented water containing pit
-  Clear water containing pit

Warning:

 Low	 Medium	 High
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Expected results

- **Interactive web-based platform:**
 - available resources (exploitation and trade)
 - link with existing or emerging conflicts
(conflict analysis, conflict risk indicators)
- **Fostering a community of experts on analysis of relations between natural resource exploitation and conflict :**
 - Workshops (June 2009, May 2010, ...)
 - Present the results to policy makers
 - Assess the results

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Conclusions

- **Conflict analysis requires integrated methods to combine knowledge from diverse scientific disciplines**
- **The geographical dimension can interpret spatial and temporal dynamics which link natural resources and conflicts**
- **Suitability of data is critical for prevention and response to ongoing crises related to natural resources exploitation**
- **In security-related applications satellite-derived information plays an essential role as synoptic and independent source**

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