



## Lot 2 - Implementation of an initial GMES Service for Geospatial Data Access covering areas outside Europe

<b>BENEFICIARY</b>	European Commission – DG Enterprise and Industry – Unit Space Research and Development
<b>DATES (START/END)</b>	December 2009 – December 2011
<b>PARTNERS</b>	SiTI: main contractor Ithaca: sub-contractor
<b>PROJECT DESCRIPTION</b>	<p>The project is dedicated to the implementation of an initial GMES (Global Monitoring for Environment and Security) service for geospatial reference data access covering areas outside Europe.</p> <p>Reference data are vital both to the GMES core and downstream services (in particular emergency response, land, atmosphere and security services) and to end-user applications in order to provide the basic geographic framework on top of which additional (thematic) spatial information can be produced and disclosed (e.g. land use/land cover maps, asset maps and damage assessment maps in response to crisis). Reference data are typically provided by data providers at regional or national level. Within Europe the States are obliged to make this data accessible in accordance with the Inspire Directive. In order to take full benefit from the data available a central service is needed to access these reference data providers in a unified manner.</p>
<b>METHODOLOGY</b>	<p><u>Tasks:</u></p> <ol style="list-style-type: none"> <li>1. Analysis of non-European reference data availability             <ol style="list-style-type: none"> <li>a. data inventory</li> <li>b. data modeling (conceptual, logical, physical)</li> <li>c. OGC (Open Geospatial Consortium) compliant on-line catalogue</li> </ol> </li> <li>2. Analysis of non-European reference data quality and consistency</li> <li>3. Analysis of the UN-SDI initiative</li> <li>4. Identification of reference data information gaps for areas outside EU</li> <li>5. Demonstrator and Validation</li> </ol>
<b>EXPECTED RESULTS</b>	<ul style="list-style-type: none"> <li>✓ Report on the review of global reference data holdings, categorisation and relevant metadata</li> <li>✓ Design and planning of an OGC compliant on-line catalogue</li> <li>✓ Implementation of a demonstrator application which accesses selected reference data holdings</li> <li>✓ Data quality analysis protocol and data quality analysis report</li> <li>✓ Report on the review of UN-SDI and the potential role of the GMES reference data service</li> <li>✓ Briefing reports on UN-SDI liaison activities that bear relevance to the GMES reference data service</li> <li>✓ Report on the analysis of existing information gaps in global reference data sets, ranked by priority, and including actions for complementary technical activities to remedy</li> <li>✓ Design of proof of concept demonstrators to validate the use of global reference data in emergency and global land monitoring services, updated annually</li> <li>✓ Validating and testing reports on 3 use cases for the emergency and global land monitoring services</li> </ul>

