



*Presidenza del Consiglio dei Ministri  
Dipartimento della Protezione Civile*



Unione Europea



## *(Global Monitoring for Environment and Security – Emergency Response Service)*

The GMES project is a European initiative for global monitoring of Environment and Security (*Global Monitoring for Environment and Security*) directed by the European Commission and the European Space Agency (ESA), with the support of the member states of the European Union that will benefit from its services.

GMES aims to coordinate Earth observation technologies with traditional systems of information gathering currently in existence. It is an instrument of international cooperation that, with the example of meteorological services, constitutes the European Union's contribution to the creation of a vast global network of earth observation called GEOSS (Global Earth Observation System of Systems)

The GMES idea was born almost a decade ago and has progressively evolved hand in hand with scientific and technological developments and has reached a maturity level that allows to explore its full potential.

The institutional, political, scientific, and industrial actors are ready to give way to a decisive transition that will bring about an operational GMES. In fact, to render this system operational GMES-ERS relies on the combined efforts of the following three communities:

- **The scientific community:** running through the latest analysis and methodologies for satellite data in order to obtain useful information understandable to an emergency response;
- **The industrial community (SERVICES PROVIDERS):** for the acquisition of satellite data and the production of cartographically derived products;
- **The user community of the GMES-ERS service (END-USERS):** for the identification of the real information necessities for emergency management and to control, analyze, and verify the derived GMES-ERS products from their still experimental and pre-operational version.



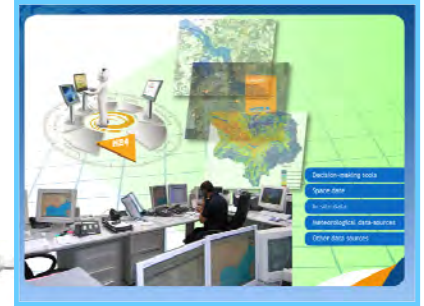
Three thematic areas have been selected and prioritized for operational implementation; these priority services, denominated Fast Track Services (FTS) make up an anticipated wide array of GMES services:

- Ocean (FTS Ocean), for monitoring and managing marine environments;
- Land (FTS Land), for monitoring and managing land environments;
- Emergency (FTS Emergency Response Service, ERS), for emergency management in case of a disaster.

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1

**“USER”:** where the user will be located - in this case the DPC. The main role of the user will be to collect, from other DICOMAC units, all requests related to cartographic products necessary to manage the emergency. Taking all the requests into account, the DPC will translate these into a GMES-ERS standard requests, through a dedicated access web site to the service



2

**“NFP”:** a representative of the Italian National Focal Point (NFP) will receive the GMES ERS request, and will start negotiating with the USER relating to the details of the products requested. The NFP will provide technical support in order to better perform the request, taking into account at the same time, the user’s requirements and the constraints of the imagery acquisition.



3

**“ERS FP”:** here there will be a representative of the GMES ERS Focal Point (ERS FP) who will receive from the NFP the request submitted by the user. The role of the ERS FP will be to contact both, the EO data providers, and the service (value added) providers, to define together the procedures and timing of: the EO data acquisition; EO data analysis; and EO derived ERS products production, until the final product delivery.



4

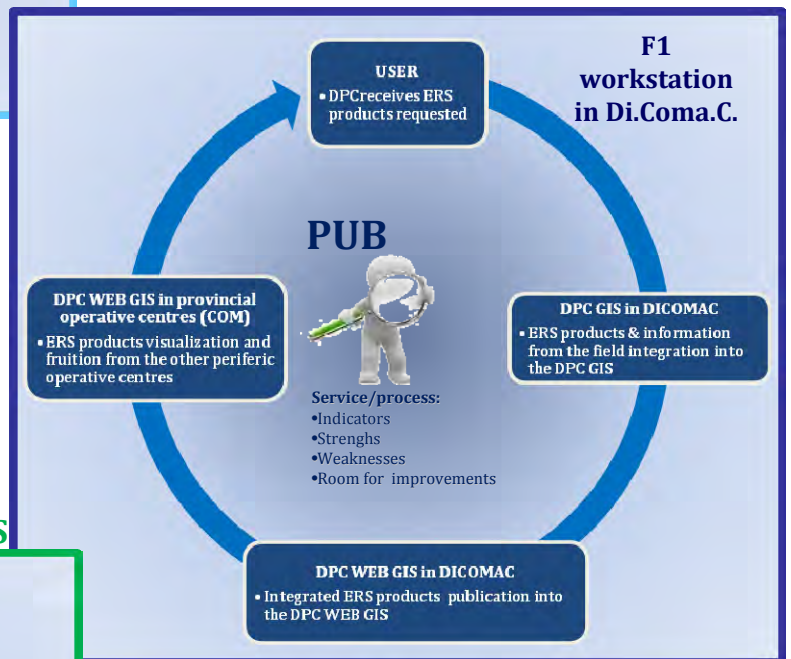
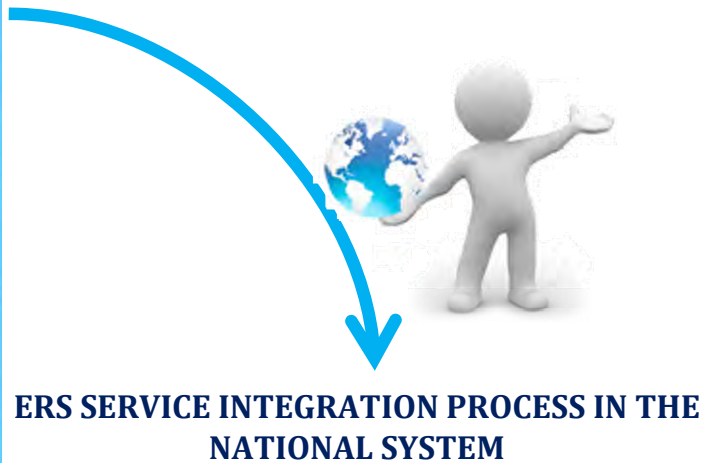
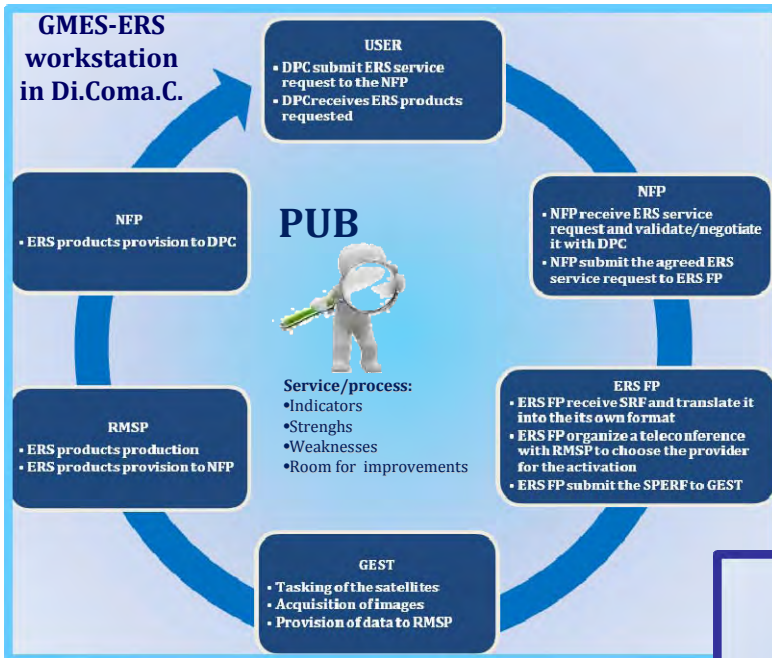
**“RMSP”:** here there will be a representative of the ‘so-called’ Rapid Mapping Service Providers (RMSP). The role of the RMSP will be to receive the EO data (satellite imagery) and to derive from it the services requested from user.





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### ERS SERVICE REQUEST & PRODUCTION PROCESS



### ERS SERVICE USAGE IN THE REAL OPERATIONS

