

SEVENTH FRAMEWORK PROGRAMME

ICT PPP

Future Internet



**The Environmental Observation Web and its Service
Applications within the Future Internet**

FP7-284898

Collaborative project

Glossary of Terms

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Berenson Communications
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Term	Definition
AQI	Air Quality Index. A measurement of air quality, describing healthiness and safety of the atmosphere.
ARCOPOL	Atlantic region's coastal pollution response, a project framed in the Atlantic Area Transnational Programme focused on the preparedness, response to and mitigation of accidental marine pollution impacting on the shoreline
Argo floats	Collects high-quality temperature and salinity profiles from the upper 2000m of the ice-free global ocean and currents from intermediate depths
Atlantic Area Transnational Programme	A transnational cooperation programme in the framework of the European Territorial Cooperation objective, which is one of the instruments of EU cohesion policy for the programming period 2007-2013
Biotope	A type of environmental area without a reference to species that occur there (unlike habitats)
Channel	A parameter that can be tracked via the PEIS system
Component	A parameter tracked within the PEIS is a component. This term can be used interchangeably with Channel
CTD	Current, temperature and depth, common measurements taken in oceanography usually taken with a CTD profiler
Dashboard	Organises and presents information in a way that is easy to read
Data Portal	A web site that functions as a point of access to information on the World Wide Web. A portal presents information from diverse sources in a unified way
ENVIROFI	ENVIROFI (The Environmental Observation Web and its Service Applications within the Future Internet) is a co-funded research project within the Future Internet Public Private Partnership (FI-PPP) programme of the EU's Seventh Framework Programme (FP7). The project is dedicated to the environmental usage area of the Future Internet. It explores environmental enablers and provides environmental sector requirements to FI-WARE, the FI-PPP core platform project.
ESBI	Electricity supply board international, an engineering and consultancy organisation within the power generation industry
Euro+Med	Euro+Med Plantbase integrates information from Flora Europaea, Med-Checklist, the Flora of Macaronesia, and from regional and national floras
Fáilte Ireland	Irish authority providing strategic and practical support to develop and sustain Ireland as a tourist destination
Fauna Europaea	Fauna Europaea has assembled a database of the scientific names and distribution of all living multicellular European land and fresh-water animals.
FI-PPP	The European Commission has launched the Future Internet Public-Private Partnership Programme (FI-PPP) in order to advance a shared vision for harmonised European-scale technology platforms and their implementation, as well as the integration and harmonisation of the relevant policy, legal, political and regulatory frameworks.
FNMOCC	Fleet Numerical Meteorology and Oceanography Center, provides worldwide meteorology and oceanography support to U.S. and coalition forces from its

Term	Definition
	Operations Center in Monterey, California
GEO	Group on Earth Observation. GEO is a voluntary partnership of governments and international organizations, coordinating efforts to build a Global Earth Observation System of Systems, or GEOSS
GEOSS	Global Earth Observation System of Systems. GEOSS is an emerging public infrastructure interconnecting a diverse and growing array of instruments and systems for monitoring and forecasting changes in the global environment. This “system of systems” supports policymakers, resource managers, science researchers and many other experts and decision-makers.
Geolocation	The identification of the real-world geographic location of an object
Georeferencing	Process of connecting a geodataset with spatial reference information (coordinates)
Geotiff	A public domain metadata standard which allows geo-referencing information to be embedded within a TIFF file
GMES	Global Monitoring for Environment and Security. GMES is the European Programme for the establishment of a European capacity for Earth Observation.
GPS	The Global Positioning System (GPS) is a space-based global navigation satellite system (GNSS) that provides location and time information in all weather, anywhere on or near the Earth, where there is an unobstructed line of sight to four or more GPS satellites. It is maintained by the United States government and is freely accessible by anyone with a GPS receiver.
Habitats Directive	Together with the Birds Directive, this directive forms the cornerstone of Europe's nature conservation policy
HTML5	A language for structuring and presenting content for the World Wide Web
IBI-ROOS	Iberia-Biscay-Ireland Regional Operational Oceanography System. Operational oceanography organisation operated by participating partners from the 5 countries bordering the Iberian-Biscay-Irish maritime area (France, Ireland, Portugal, Spain and UK), collaborating to develop and implement ocean observing systems for the IBI-ROOS area, with delivery of real time operational data products and services
Identification key	Used for identifying organisms. Includes key characters according which taxa are identified
INFOMAR	Integrated mapping for the sustainable development of Ireland's marine resource, a joint venture between the Geological Survey of Ireland and the Marine Institute to survey 125,000km ² of Ireland's most productive and commercially valuable inshore waters
Information Society Fund	Established by the Irish Government in 1999 to facilitate development of objectives set out in the Governments Action Plan on the Information Society
INSPIRE Directive	Establishes an infrastructure for spatial information in Europe to support Community environmental policies, and policies or activities which may have an impact on the environment.
InTune's Exemplar Smart Communications Networks	The Exemplar Network can be used to create virtual data centres and to facilitate cloud computing
Invasive Species	Species, which captures the living environment of other species and threatens its

Term	Definition
	live circumstances
Irish Marine Weather Buoy Network	A joint project designed to improve weather forecasts and safety at sea in Irish and European waters.
Irish National Tide Gauge Network	An ongoing development involving the Marine Institute and a number of organisations in the public and private sectors to develop a permanent tidal monitoring infrastructure, ultimately consisting off between 35 and 40 stations
Irish Shelf Petroleum Study Group	Set up by the Petroleum Affairs Division (PAD); concentrates on the regional exploration elements of the PIP / PEPPS (Petroleum Infrastructure Programme / Petroleum E&P Promotion and Support programme) objectives with an aim to address common industry problems anywhere in the Irish Offshore
Irish Surfing Association	The National Governing Body for the sport of surfing in the thirty two counties of Ireland
Irish Water Safety Association	The statutory body established to promote water safety in Ireland
ISDE	Irish spatial data exchange, a discovery service for spatial data resources available from various organisations in the exchange
ISO 17025	A standard for the general requirements for the competence of testing and calibration laboratories
ISO 19115	International Standard for geographic metadata
Loggers	Temperature probes
Marine Data Online	A metadata service that provides quick and easy access to summary information on data and project archives of the Marine Institute and other marine research organisations in Ireland
MERCATOR Océan	A French operator providing real-time and deferred ocean information services. A French centre for ocean analysis and forecasting
Met Eireann	Irish National Meteorological Service, is a line division of the Department of the Environment, Community and Local Government
MSFD	Marine strategy framework directive, establishes a framework within which Member States shall take the necessary measures to achieve or maintain good environmental status in the marine environment by the year 2020 at the latest
NCEP	National Centers for Environmental Prediction, delivers national and global weather, water, climate and space weather guidance, forecasts, warnings and analyses to its Partners and External User Communities
OGC	Open Geospatial Consortium, a non-profit, international, voluntary consensus standards organization developing standards for geospatial and location based services
Ontology	Concepts, their meanings and relations between meanings
Phenology	Seasonal cycles of plants and animals
Red List - status	Species, which is threatened with extinction

Term	Definition
ROMS	Regional Ocean Model System, a free-surface, hydrostatic, primitive equation ocean model that uses stretched, terrain-following coordinates in the vertical and orthogonal curvilinear coordinates in the horizontal
SEI	Sustainable Energy Ireland, now the Sustainable Energy Authority of Ireland (SEAI)
SOS	Sensor observation service, a web service interface specification for discovery and access of sensor observations, real-time or archived
SQL	Structured query language, a database computer declarative language designed for managing data in relational database management systems (RDBMS)
SWAN	A computer model to compute irregular waves in coastal environments, based on deep water wave conditions, wind, bottom topography, currents and tides (deep and shallow water). Tiered Access Control - Hierarchy of user's privileges and access rights
Taxon	Group of organisms that can have any taxonomic rank (species, genus, family etc.)
VGI	Voluntary Geographic Information. Observational data supplied by volunteer (public) users with specific geo-referencing.
Waverider	Wave motion sensor based on a stabilized platform, accelerometers, and magnetic compass
Weather Window	When a weather forecast indicates that a given set of marine operations can be performed within their maximum limits of their appropriate constraint
WFD	Water Framework Directive, EU directive to establish a framework for the protection of all waters including rivers, lakes, estuaries, coastal waters and groundwater, and their dependent wildlife/habitats under one piece of environmental legislation
WW3	Global & Regional Ocean Wave Prediction Charts operated by the Fleet Numerical Meteorology and Oceanography Center
XML	Extensible mark-up language, set of rules for encoding documents in machine-readable form