EO Taxonomy

Market View



EARSC's extensive engagement with Earth observation user communities has highlighted the need for a common language to help services providers and users arrive at a mutual understanding of the types of services that can be offered and the benefits that can be delivered. We have developed an Earth observation taxonomy that is not only a process of naming and classifying EO services but additionally a tool to improve the understanding between these communities.

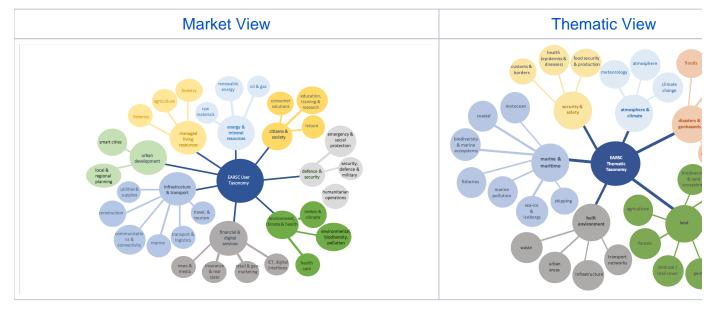
The taxonomy includes a generic and comprehensive definition of available products and

how these form the basis for the delivery of the EO services (the combination of e.g. EO products, in-situ data, modelling etc.) to deliver contextualized knowledge to citizens, business, government and other organisations. The taxonomy takes a two-sided approach, describing this common list of services from both the suppliers' and users' points of view. These two views are interconnected in the figure in your right and described in the links below.

DARSC TAXONOMY								
MARKET (User) perspective					THEMATIC (Provider) perspective			
Customer and User (view)			EO SERVICES (3 rd level)	Technician and Expert (view)				
		2nd level	The special nature of EO services is their composing ability. The EO services gather the information and data for a particular object. This characteristic allows the composition of service	- Structure of the ED domain from a technical approach - Based on an expertise viewSeek to pather EO services into groupsAdd meaning & inght to each service				
in the mark describes a group or gr who requir industry. U major mark services an These majo structure p robust to a future sect can drea as market sup	to the highest rank ket perspective, a part of the activity, it is a roups of customers re the products es provided by inderstand the kets in which EO e doing business. or markets coromarkets coromarkets coromarkets accommodate tor segments. We per-category living resources".	SECTOR	It provides some gravularly introducing a group of business activities (inductive activities) that have activities) that have the source of the source of the fore sample gapriculture, forestry and fisheries) all in the primary tector and helping to define the type of customers.	chains that tackle the necessity of solving complex biosines procedures supported by technological platforms. The fCl survice spropose in action or a perperpetition of the solution of the support of the solution of the solution application for example, "assess the environmental proceed of familing in the unifies major entities such as environmental agriculture or deeper on granularity such crops, the description of the solution of the solution of the solution of the solution of the solution of the solution of the work representing the parameters or essential variables.	AREA	It is the set of EO services (greater detail of objects) with similar characteristics and associated patterns. These corresponds to the construction of the domain. For example, objects to be monitored in urban areas, infrastructure, urban areas, infrastructure, be also named as a segment.	DOMAIN	Responds to the highest rank in the thematic perspective, categorises by type of activity for which the activity for which the beam of the type of the activity for which the processing, responding, monitoring, detecting etc. for a particular domain. We propose 6 de dimain. Ve propose 6 de dimain, ve propose 6 de dima

- Executive summary ٠
- **eoTAXONOMY**
- Market/User's EO needs (EARSC taxonomy)
 eoTAXONOMY (extended description)

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The chart above show the organisation of all EO services from the user's perspective, i.e. from the market or sector within which any given service would be used. The Market view is organised:

- By Market Services are grouped Into 8 main markets, e.g. citizens, defense & security, infrastructure & transport...
- By Sectors Each market is split into a number of more specific sectors corresponding to specific niches within that market to which the services apply e.g. the 'Energy and mineral resources' market contains the sectors 'Renewable energy', 'Oil & gas' and 'Raw materials'. There are 26 sectors in total.
- By sector composition examples are given of the types of organisation that make up the market sector e.g. users in managed living resources refer to human activities exploiting natural organic resources (users in agricultural commodities, trading, agricultural production and horticulture, agricultural services, agriculture machinery, agriculture and rural development policies, etc. This helps define the sector and its EO-related needs.

Previous EARSC Taxonomy (v2015)

The chart above shows the organisation of all EO services supplier's perspective. The Thematic view is organised:

- Into 6 main Domains (or classes) This refers to the applications of EO technologies and stems from the d scientific schools from which different approaches hav developed, e.g. marine applications have been develor different community than geohazard or atmospheric p
- By Areas These Domains are then split into 32 ther segments (or Areas) below that showing specialisati those field, e.g. within the Marine Domain we include detection of ships, marine pollution, sea ice...
- By service descriptions and keywords a non-exh of keywords are provided for each Area that help to d Area. These keywords are presented in relation to a f verbs that describe the action undertaken in the servimonitor, detect, track, assess... For a full description EO services) see either the reduced or extended des linked to above.