



Title	Proposal new indicators for the period 2010-2013
Version	v.2
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Date	March 10, 2010
Content	Reasoned proposal for implementing a new framework of indicators to control the evolution of IDEC in the period
Publisher	C.S. IDEC
Type	Text
Format	MS Word
Identificator	Doc/Obs.IDEC
Language	English
Review	Lluís Colomer

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1.- Principles and Methodology ---

The CS IDEC established during the period 2007-2009, mechanisms of exploitation and analysis of the most significant data, indicative of developments in the activities and results of IDEC, weighted by a framework of indicators that considered different aspects and activities, incorporated and described in the Annual Report of the CS , which allowed to calculate of an abstract value, produced annually, indicating the degree of evolution respect to a reference situation by default, mainly intended objectives. Resulting in an abstract value of this process but significant level of development reached at the end of each year of the period considered, considering various aspects to consider.

It is obvious that any project with a long-term development and specific objectives, although changing in time, should be managed with efficiency criteria, which are initially given by the approximation of the results that were obtained, and measured with indicators, with targets set in different time periods.

It is now adapting the framework of indicators used to control and monitor the development of infrastructure for new approaches and objectives that must be undertaken for the period 2010-2013, by adopting criteria and methodologies similar to those used in the previous period, which ensures a certain continuity with the previous, but reconsidering the different items and concepts to analyze, measure, evaluate and weigh, so are related to the challenges and objectives of the new period.

Concerning the methodology is maintained the apply previously to configure the framework of indicators, and are synthesized in the following phases:

- 1.- Identification of areas of analysis (areas of action, results or targets) and the "weight" or weighting of each in total, to can finally get to a final abstract value , summation of individual values of each indicator and representative of all of them.
- 2.- Identify the characteristics and / or activities are most representative of these areas, their ability to be measured and how, especially the quantifiables.
- 3.- Select indicators for these characteristics.
- 4.- Establish how to measure these indicators and sources of information to will be derived.
- 5.- Establish the weighting for each indicator, linked to the weighting of the total area in which falls.
- 6.- Agreement among the participants / stakeholders in the implementation and operation of these indicators, such as representation and measure of the activity and developments that want to be evaluated.

The process of assigning value to each indicator and its operation-calculation is performed as follow:

- How to evaluate?

The indicator of each element is the percentage between the final target and the results at the time of evaluation (end of each exercise).

For each item is set a quantification (except a few which is impossible) of target to obtain results (for example: 50.000 hits per month, have 30.000 metadata records, etc.). The indicator is the result of dividing the actual number of times, between the estimated number as maximum reference to obtain.

- How is it calculated?

Each indicator (split of the current result between the maximum reference) is multiplied by the weighting factor and get an abstract numerical value, so on, has a consistent meaning when used to analyze its evolution in time. In the end the sum of the weighted indicators set provides an abstract numerical value, representative of the development state of the SDI on cartesian map (time-points) that allows us to see the evolution from a global perspective and general, analysis items that evolve more slowly, etc..

2.- Issues in assessing and weighting

In the development life cycle of SDI, the initial operational period is characterized by its vision endocentric, based on the mere consideration and prioritization of resource supply that can offer without direct connection with demand and real needs of users of its services and resources. The subsequent evolution is characteristic of his maturity, when the center of its objectives and activities meet the demands by a vision based on the use and management of its services and applications, what we might call the user's perspective or demand.

In the period 2006-2009, IDEC offer a range of important resources (30.000 metadata, 350 WMS services, 4.000 layers of information), so its indicators of evolution have tried to reflect the continued expansion of available resources (data and services, compliance with the law, etc., with a total weighting of 65%), although considering other aspects associated with its use (35%).

The objectives intended for the period 2010-2012 clearly assume the intention, no only provide, also the resources which IDEC made available to end users are used to the fullest. Therefore, areas of analysis that correspond to this strategy are weighted with 80% weight, compared with 20% to reflect its growth and its adaptation to the Inspire directive, both aspects are important but a priority level lower than the previous.

Aspects	Weighting
<i>Growth</i>	10
<i>Use of resources</i>	35
<i>Quality of services / resources</i>	25
<i>Implementation Inspire</i>	10
<i>Users and private sector participation</i>	20
Total	100

3.- Changes from the indicators previous model _____

As indicated in the previous section, the changes resulting from the assumption of new and different commitments and objectives to take during the period. With global character is given a higher weight (80%) activities and results that correspond to the uses and applications of resources, compared to 35% above.

Another significant change is in the consideration of qualitative aspects such as the behavior of servers network, ease to relate metadata with services and vice versa, usability and practicality of the geoportal and its services, etc..

Finally we should mention the importance attached to the participation of users and companies, as it can or should be a sign of acceptance and validity of the resources offered on the IDEC and the quality of its services.

The table below you can see reflected these differences:

- **Indicators 2010-2013** (Bold, areas of analysis related to resource use)

Aspects	Weighting
Growth	10
Use of resources	35
Quality of services / resources	25
Implementation Inspire	10
Users and private sector participation	20
Total	100

- **Indicators 2006-2009**

Aspects	Weighting
Existing resources	25
Participants	25
Use of resources	35
- Own Applications	30
- Other Applications	5
Level of IG law compliance	10
Other aspects and results	5
Total	100

4.- Description of aspects to evaluate

1 - Growth (Indicator / Description)

- Number of data metadata

Number total of Catalog IDEC metadata

Total number of records contained in the IDEC metadata catalog

Number of minimetadadata created by web application

Number of records generated by the web form IDEC metadata (include in above)

Number of data metadata in other Catalogs connected to IDEC

Number of metadata records in connection with other standard IDEC catalogs

-Number of service metadata

Number of Catalog IDEC total metadata

Total number of records contained in the IDEC metadata catalog

Number of service metadata in other Catalogs connected to IDEC

Number of metadata records in connection with other IDEC standard catalogs

- Number of OGC catalogs

Number of CSW standard catalogs connected with IDEC Catalog- cumulative

- Number of sensors metadata

Total number of records contained in the IDEC metadata catalog

- Number of data metadata providers

Total number of metadata providers according to data extracted from the catalogs (IDEC+ others)

- Number of service metadata providers

Total number of metadata providers according to data extracted from the catalogs (IDEC+ others)

- Number of sensors metadata providers

Total Number of metadata providers, according to data from the IDEC Catalogue

- Number of available layers

Total number of accessible layers that provides the Map Servers network (WMS, WFS, etc.)

- Number of thematic SDIs

Number of websites corresponding to thematic SDI **managed by CSIDEC** - cumulative

- Number of other SDIs

Number of websites corresponding to local o thematic SDI **unmanaged by CSIDEC** - cumulative

- Number of participating entities in thematic SDIs

Total Number of entities involved in the various sectoral SDI (Local Universe, Coastline, ...) managed or **promoted by CS IDEC**

- Number of participating entities in other SDIs

Total number of entities involves in Local or thematics SDI **not directly promoted** by CSIDEC

2.- Use of IDEC resources

-Annual accesses to:

Number of annual access to different services, information extracted from Google Analytics

- Geoportal
- Catalog
- Viewer
- IDEC Local viewer and thematic different

PRG Services

- PRG monthly accesses

Number of annual accesses to Platform Resource Geoinformation (independently of the number of accesses to their services)

- Number of PRG users

Number of registered users to access services PRG - cumulative

-Number of configured viewers

Total Number of customized displays for users

-Number of edited layers with Editor

Number of layers edited by objects Edition functionality of PRG -cumulative

-Number of editor users

Number of users who have ever used the editor (cumulative)

-Number of thematic users

Number of users who have ever use "thematic" option- cumulative

- Number of Atlas Configurator users

Number of users who have ever use "Atlas" option – cumulative

-Number of created Atlas

Total number of Atlas viewers created by users- cumulative

- **Number of interoperability projects underway**

Number of projects with base in interoperability technologies operating, with the participation of CS IDEC-cumulative

- **Number of entities participating in interoperable project**

Number of participating entities - cumulative

- **Number of cooperative projects (PRG) underway**

Number of projects based on Operating Platform PRG, involving more than one administration or a Department - cumulative

-- **Number of organizations participating in cooperative projects**

Number of participating entities - cumulative

- **Downloads MetaD**

Annual number of software MetaD downloads from geoportal

- **Connector Catalog downloads**

Annual number of software "CatalogConnector" downloads from geoportal

3 - Quality of services / resources

Network Behavior

- **Total number of available map servers services on the network IDEC**

Number of services (WMS, WFS ..) from different suppliers that publish (display) on the web-cumulative

- **% total of services that allow the downloading of data**

Number of WFS services (or other) that allow the download of geoinformation / total number of services

- **% Servers mapping with Inspire behavior**

Number of WMS with response within the Inspire limits / /Nº WMS

- **% Map servers with 99% of availability**

Number of WMS with 99% of availability / Number of WMS

- **Number of accesses / visits (if are known) to all layers of the network (except ICC)**

Sum of accesses to different map server of the network (except ICC)

Contents Geoportal IDEC

- **% New metadata validated / year**

Number of records of new Metadata validated by CSIDEC / total number of input records - cumulative

- **Content update / year**

Number of updates / annual versions of geoportal

- **Number of access to general contents**

Number annual total of access to various services (documentation, links, etc.)

- **% Data metadata associated with services MD**

Number of data MD records that indicate a URL to access services / MD Total Number of Records - cumulative

- **% Service metadata associated with data MD**

Number of service MD records that indicate a link to data MD / service MD total number – cumulative

Annual training

Number of courses, conferences, etc. during the year

4 .- Inspire implementation

- **Number of data sets defined as Inspire**

Number of products /series assigned to Inspire themes- cumulative

- **Number of data sets with model data**

Number of products / series that have a data model according Inspire - cumulative

- **Number of data sets harmonized Inspire**

Number of products / series with XSLT processes prepared to harmonization Inspire - cumulative

- **Number of access to Inspire products (themes) through IDEC viewer**

Number of annual access to Inspire layers through IDEC viewer

5 .Users and private sector participation

- Interaction between users and IDEC

Estimating the participatory degree (data publications, number of incidents collected, surveys, etc.) by users of the SDI (annual estimate)

- GIS private sector participation in developments

Number and organization of projects made by companies with SDI resources (annual estimate)

- WMS services offered by the private sector

Number of web Geoservices (access, processing, calculation, etc.) offered by private sector entities, and described by service metadata in the Catalog – cumulative

- Applications made with OGC technologies

Estimating the degree of acceptance, penetration and application of various OGC standards, based on the number of geo-applications that use some of the specifications (WMS, WFS, WPS, CSW, WFS-T, LOS...)

5.- Weighting in relation to objectives (Maximum Reference) to be achieved _____

1-Growth	Weighting	Maximum reference
<i>Nº data metadata</i>		
- Nº Catalog IDEC total metadata	0,5	35.000
- Nº metadata created by web application	0,25	2.000
- Nº metata in other OGC catalogs	0,25	3.000
<i>Nº service metadata</i>		
Nº of Catalog IDEC total metadata	0,75	400
Nº metadata in other OGC catalogs	0,25	50
Nº OGC catalogs connected with IDEC Catalog	0,5	10
Nº sensors metadata	1	2.000
Nº data metadata providers	1	300
Nº service metadata providers	1	300
Nº sensors metadata providers	1	20
Nº available layers	1	10.000
Nº thematic SDIs	1	10
Nº other SDIs	0,5	10
Nº participating entities in thematic SDIs	0,5	400
Nº participating entities in other SDIs	0,5	50

2-Use of IDEC resources	Weighting	Maximum reference
<i>Annual accesses to:</i>		
- Geoportal	1	5.000
- Catalog	3	1.000
- Viewer	2	10.000
- IDEC Local viewer and others	4	50.000
<i>PRG services</i>		

- PRG monthly accesses	4	500
- Number of PRG users	3	2.000
- Number of configured viewers	1	600
- Nº edited layers with Editor	1	1.000
- Nº Editor users	1	200
- Nº thematic users	1	50
- Nº Atlas Configurator users	1	50
- Nº created Atlas	1	50
Nº interoperability projects underway	1	10
Nº entities participating in interoperable project	1	40
Nº cooperative projects (PRG) underway	3	20
Nº organizations participating in cooperative projects	1	600
Downloads MetaD/year	1	300
Connector Catalog Downloads/year	1	200

3-Quality of services / resources	Weighting	Maximum reference
<i>Network behavior</i>		
- Nº total available services	2	450
- % that allow the downloading of data	2	20%
- % with Inspire behavior	3	30%
- % servers with 99% of availability	2	70%
- Nº accesses /year to layers of the network (no ICC)	1	100.000
<i>Contents geoportal</i>		
- % New metadata validated / year	2	100

- Content update / year	1	2
- Access/ year to general contents	2	50.000
% Data metadata associated with services MD	2	70 %
% Service metadata associated with data MD	3	90 %
Annual training	5	6

4- INSPIRE implementation	Weighting	Maximum reference
Nº data sets defined as Inspire	3	30
Nº data sets with model data	3	20
Nº data sets harmonized Inspire	2	15
Nº access to Inspire products (themes) through IDEC viewer	2	10.000

5-Users and private sector participation	Weighting	Maximum reference
Interaction between users and IDEC	5	(estimate)
GIS private sector participation in developments	5	(estimate)
WMS services offered by the private sector	5	50
Applications made with OGC technologies	5	(estimate)