

**BASE100-NTDB200: A MULTIPURPOSE-COLLABORATIVE GEOSPATIAL FRAMEWORK FOR CARTOGRAPHY AND DIGITAL PRODUCTION**

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The Army Geographic Centre and the National Geographic Institute of Spain have carried out their first contacts during last months of 2009 in order to establish a team work to deal with the conflation of their geographic data. It is a historic event, because although both institutions have coexisted during more than 140 years producing series that in many cases have the same scale (in spite of being oriented to different users), it is the first time that both institutions have reached an agreement

In these first meetings a framework has been established including three different cartographic bases; Cartographic Data Base at 1:100.000 scale (BASE100), National Topographic Data Base at 1:200.000 scale (NTDB200) and National Topographic Data Base at 1:500.000 scale (NTDB500). During the first years the cooperation will be focused in the design, load and update applied to BASE100 and furthermore in generalization to NTDB200. Then BASE100-NTDB200 is a spatial infrastructure suitable for printed and digital products. Among printed maps the main products are the "C Serie" (at 1:100.000 scale) and "250C Serie" (at scale 1:250.000) of the Army Geographic Centre and the Province Map 1:200.000, the Cartoimage 1:200.000 and the Regional Map with scales between 1:300.000 and 1:400.000 of the National Geographic Institute. In the case of digital products we can mention both national and international products such as the National Geographic Information System (SIGNA), the Spanish Spatial Data Infrastructure (SSDI), or the Euro Regional Map (ERM).

In these early months the technical documentation relating to BASE100 model has been established: model design, catalogues (features, attributes and possible values), data dictionary and methodologies for geometric and semantic captures. A responsible organization has been established for each kind of feature in order to achieve the conflation and the first data upload.

The BASE100 model design was based in the previous NTDB200 data model. On the one hand features with military finalities (not considered in the cartographic base for civil users) and on the other hand features which acquire sense at 1:100.000 scale (not considered at 1:200.000 scale) have been included in the model.

The versatility and efficiency of BASE100-NTDB200 have like direct consequence the decentralization that geographic information production support by other IGN-E departments or outside institutions. In order to crystallize the INSPIRE values, BASE100-NTDB200 have incorporated information from several sources; Boundary Data Base managed by the Mapping Central Registry, Geodetic Data Server by the Geodetic Observation Center, Interactive Official Road Map by the Public Works Ministry and information from Corine Land Cover project by the Land Observatory. The rest of the information has been obtained by re-engineering processes from the old data model.

In the last months of this year a sketch contract has been developed in order to accomplish the two following objectives; (1) the actualization at 1:100.000 resolution, and (2) the generalization at 1:200.000 scale.

In order to validate the data and to evaluate if these are valid for achieve ours aims will be carried out a data quality control. We will be able to create the final documentation of all process from this sketch project and we will obtain the conflation of the whole national territory during next year.