

Innovative Methods and Products of the "Urbanization and Artificialization" Scientific Expertise Centre



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1. Background and Objectives of THEIA

The THEIA data and services centre (www.theia-land.fr) is a consortium of 12 French public institutions involved in Earth observation and environmental sciences (CEA, CEREMA, CIRAD, CNES, IGN, INRA, CNRS, IRD, Irstea, Météo France, AgroParisTech, and ONERA). THEIA initiated in 2012 with the objective of increasing the use of space data by the scientific community and the public actors. The first years allowed structuring the national science and user communities, to pool resources to facilitate access to data and processing capacities, to federate various previously unrelated initiatives, and to disseminate the French achievements nationally and internationally.

THEIA is structuring the science community through **1) Scientific Expertise Centres (SEC)** to provide the community with tools and treatment methods adapted to different thematic fields ; **2) Regional Animation Networks (RAN)** to federate users (scientists and public / private actors); **3) the setup of a mutualized Service and Data Infrastructure (SDI)** distributed between several centers, allowing access to a variety of products (Figure 1).

The THEIA centre is one of the component of the "Earth System" Research Infrastructure with ODATIS (Data and Service for the Ocean), ForM@Ter (Data and Service for the Solid Earth) and AERIS (Data and Service for the Atmosphere).

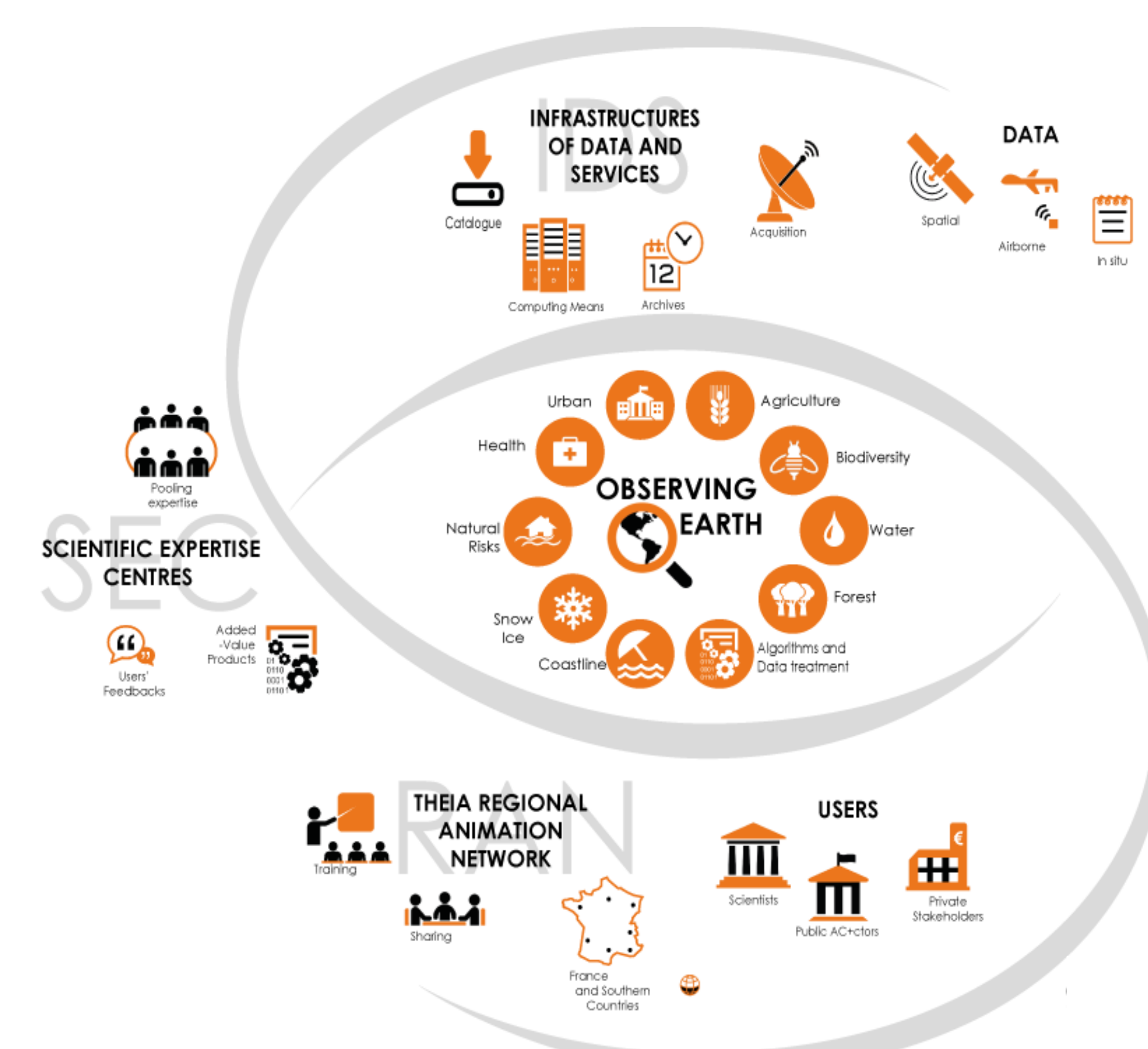


Fig. 1. THEIA's structure and governance scheme

2. Activities of the 'Urban' Scientific Expertise Centres (SEC)

