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NEWSPACE LAB: SUPPORTING THE DEVELOPMENT OF THE SPACE ECOSYSTEM IN  
CATALONIA

**Abstract**

The New Space Lab is a new initiative led by the Government of Catalonia and the Institute of Space Studies of Catalonia (IEEC) with the purpose of promoting new public-private partnerships (PPP) supporting the development of space technologies and applications in the Barcelona area. The project envisions the development of a range of space-related facilities and infrastructure, including satellite subsystems and instruments manufacturing equipment and integration facilities, key testing infrastructure for subsystems and instruments, Earth Observation and Internet of Things data publication, innovative ground segment systems and strategic IoT sensors deployment among others. To ensure the success of this initiative, an analysis was carried out to identify the strengths, weaknesses, opportunities, and threats associated with the corresponding space technologies and applications identified within the ecosystem in the area of Barcelona. This analysis will help guide the allocation of resources and investments to maximize the benefits to the local space industry. This study was performed linking space infrastructure to emerging space markets and local needs. The New Space Lab is also intended to attract and promote the growth of space start-ups and businesses in the region. To achieve this goal, the project will combine infrastructure with business-oriented investments aimed at fostering the development of innovative space technologies and applications. By providing a supportive environment for the growth of space start-ups and businesses, the project aims to stimulate economic development and job creation in the region. Overall, the New Space Lab is an initiative that has the potential to transform the space industry in the Barcelona area. By investing in new infrastructure through PPPs and supporting the growth of space start-ups and businesses, the project aims to create new opportunities for innovation and economic development in the region. As such, the New Space Lab is a key driver for the emergence of new space technologies and applications, paving the way for new discoveries and opportunities in the years to come.