Design of a MOOC and augmented reality applications about exoplanets

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The European Exoplanets-A project is aimed at providing a comprehensive view of the nature of exoplanet atmospheres, through an interdisciplinary approach, which includes the integration of state of the art models of the star-planet interaction, atmospheric chemistry and dynamics and planet formation.

The Exoplanets-A has a knowledge server: www.explore-exoplanets.eu. It provides scientific and educational resources through two main pages: a Science page and a Learning page.

The science page includes a knowledge base with a direct access to all the scientific products of the project (Archival data, methods and tools, databases and publications).

The Learning page was designed for the public with educational resources based on the science products: Data visualization (exoplanetary system, space instruments, set of data...), online courses (MOOC and SPOC) and serious games (applications in augmented reality).

During this talk, we would like to present the MOOC on exoplanets that we have developed as well as other outreach resources, such as an augmented reality (AR) application about exoplanets, JWST and the solar system.