Jordi Sandalinas, - (DUWK 6FL &OLP &KDQJH
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Use of satellite imagery, remote sensing and GIS related technologies to improve sustainability of PDULQH HFRV\VWHPV 6SHFLDO UHIHUHQFH WR &RSHUQLFXV 0

-RUGL 6DQGDOLQDV
Toulouse 1 Capitole University, France

Remote sensing is understood as a hardware association related to Satellite Earth Observation technology and Eart Observation activities are those identi ed with the use of remote sensing equipment to provide data on earth observation and global climate change. For Earth observation satellites, technological advancements will lead to better resolution, increas in observation area and reduction in access time, i. e time taken between the request of an image by the user and its delive Plans for future missions and instruments include entirely new types of measurement technology, such as hyperspectral sensor cloud radars, lidars and polarimetric sensors that will provide new insights into key parameters of atmospheric temperature and moisture, soil moisture and ocean salinity. Several new gravity eld missions aimed at more precise determination of the marine geo id will also be launched in the future. ese missions will also focus on disaster management and studies of key Earth System processes – the water cycle, carbon cycle, cryosphere, the role of clouds and aerosols in global climate change sea level rise. E ectively, in this regard the so-called Group on Earth Observations gathered di erent member countries and non-governmental entities aiming to provide for initiatives bene cial for the humankind by applying also a global system of systems named the Global Earth Observation System of Systems.

Biography

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jordi@sandalinas.com

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