

Experiencing WPS services in several application domains: opportunities and challenges

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The implementation of OGC web services and specifically of WPS services revealed itself as a key aspect in order to encourage openness attitude of scientific investigators within several application domains. It can benefit scientific research under different regards, even considering the possibility to promote interoperability, modularity, and the possibility opened by web modeling and the workflow paradigm exploitation. Nevertheless it is still a challenging activity and specifically processing services still seem being at an early stage of maturity. This work is about exploitation activities conducted within the GEO GEOSS AIP-8 call by focusing on several applications, such as biodiversity, flood monitoring and soil moisture computation, with implementations based on the pyWPS framework for WPS 1.0 as available at the time of this work. We will present results, lessons learnt and limits found in using those services for distributing demo processing models, along with pro and cons in our experience.

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