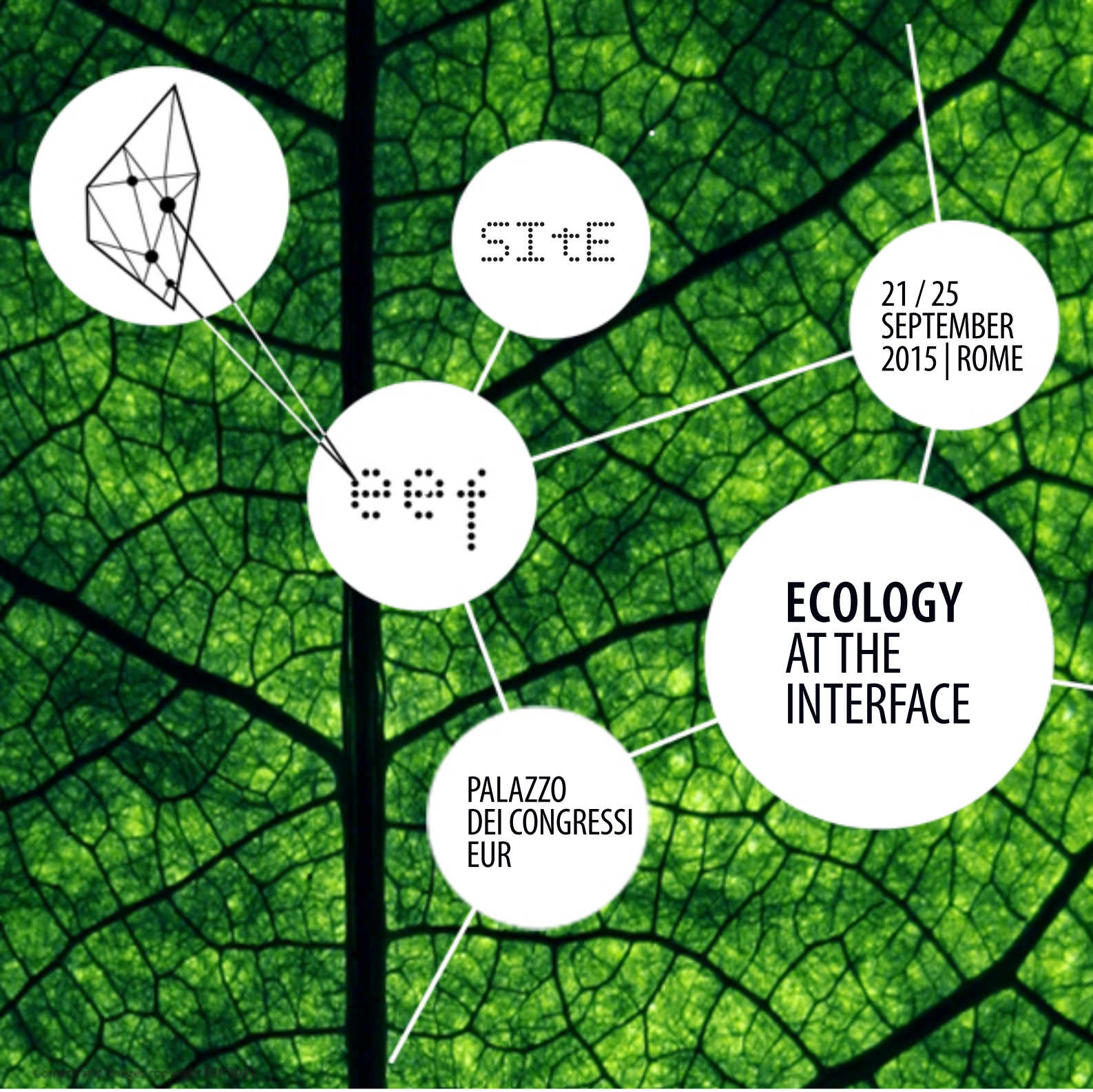

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ABSTRACT BOOK

S12.5 - ON THE OPPORTUNITY OF EXPLOITING OPEN GEOSPATIAL STANDARDS FOR BIOTIC DATA MANAGEMENT

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Numerousness of formats characterizes the state of the art in biodiversity data management. If compared to other research field, there is a lack in harmonization and standardization of these data. If on the one hand data from traditional biodiversity collections (from museums, national parks, etc.) can be easily represented by existing de-facto standard, on the other hand the growing number of field observation, for instance by VGI activities (e.g. iNaturalist [1]) or from automated systems (e.g. animal biotelemetry), would at least require upgrades of the currently used formats. Moreover, in an eco-informatics perspective, the usage of data from different scientific fields is to be expected (abiotic data, geographic information, etc.) and the possibility to represent this information and biodiversity data in a homogeneous way could be an advantage for interoperability. We will discuss the opportunity of exploitation of the standard for observation data by Open Geospatial Consortium, namely Observation and Measurements (O&M) [2], a model developed for sensor data but with strong analogies with the biodiversity-oriented OBOE ontology [3]. The applicability of OGC O&M has been yet suggested by INSPIRE Cross Thematic Working Group on Observations & Measurements [4] and New Zealand Environmental Information Interoperability Framework [5]. In our opinion, could be an advantage for the biodiversity community. We will propose some example and the advatages offered by O&M with respect to other representation format.