DEIMS SITE AND DATA SET REGISTRY

ILTER/LTER EUROPE

IMPACT SHEET #9

DEIMS-SDR provides a common and standardised catalogue for the distinct identification of long term observation and monitoring facilities and is used by both LTER-Europe and ILTER. In addition it serves as a data node for dataset publication. All information can be combined and exposed using standardised metadata formats.

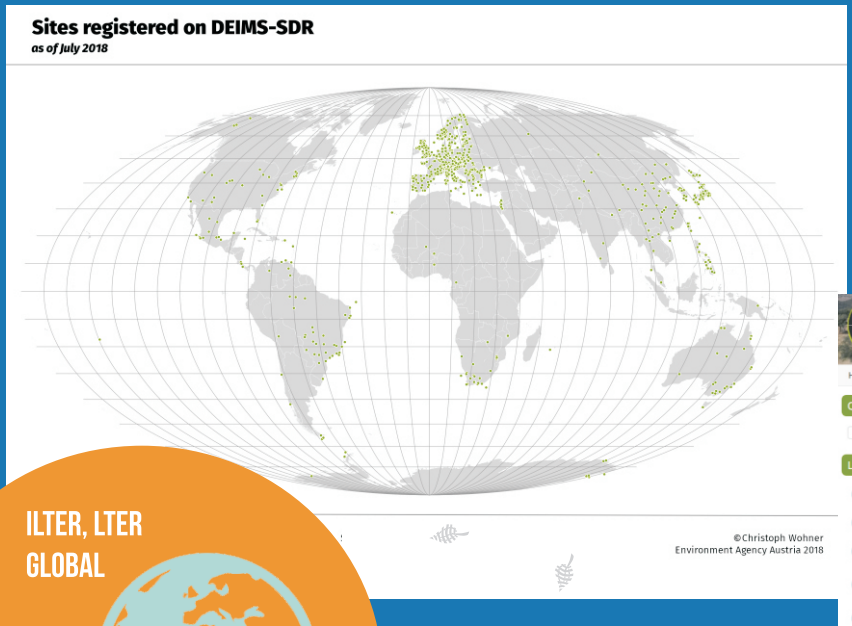
As of the 2018 DEIMS-SDR hosts a total of 1034 published site records ranging from LTSER platforms covering a wide range from socioecological research topics to point-based research plots with very particular research topics. This number includes both formally accredited LTER sites and other observation and research sites (partly also experimental sites) outside of LTER. This makes DEIMS-SDR the globally most comprehensive catalogue of long-term environmental research facilities. By this DEIMS-SDR supports a FAIR (Findable, Accessible, Interoperable, Re-usable) and open provision of information.

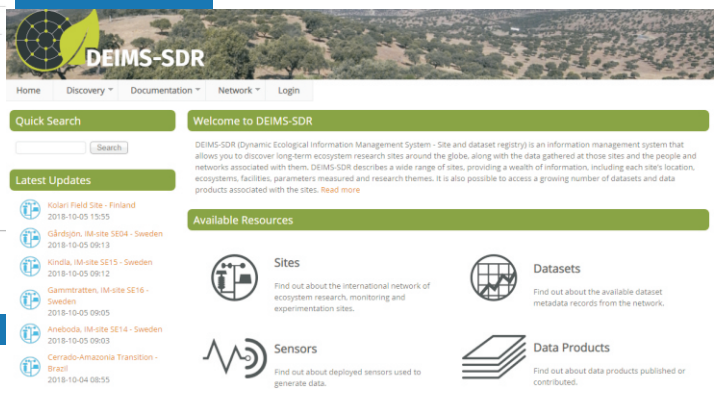
RESEARCH

The (re-)use and integration of data for scientific analysis provided by different sources relies on sufficient data documentation. This applies to the design of the study and the methods and, moreover, to the context of the observation, e.g. the site characteristics and design. Providing a web portal to describe sites and publish datasets is therefore one of the core services of research networks. Within LTER-Europe and ILTER, DEIMS was extended to cover the full range of relevant research components. It provides interfaces to document research sites, the resulting datasets and data products, as well as linked information like sensors, networks or persons. The information is linked allowing to create an easy overview on available information.

By linking to B2SHARE, DEIMS-SDR makes it possible to document research outcomes and obtain a persistent identifier (PID) for scientific reference.

Using standard services (e.g. OGC CSW) and schemes (e.g. ISO19115) is one of the core features. DEIMS-SDR uses Envthes as a common vocabulary for keywords and parameters.





AIMS

- DEIMS-SDR was developed in order to gather and provide easily accessible, concise, re-usable and interoperable information on environmental observation facilities and the related data.
- With DEIMS-SDR an easy and light-weight editor is provided to fulfil metadata requirements for LTER-Europe and beyond.

OUTCOME - IMPACT

- Statistics of published records:
  - 1034 sites
  - 894 persons
  - 864 datasets
  - 104 data products
- DEIMS-SDR is used by a range of projects to document the site network as well as the resulting data:
  - eLTER
  - EcoPotential
  - ENVRIplus
  - ILTER TeaBag Initiative
- Cooperation with ICP Forests to harmonise site documentation.

ILTER, LTER GLOBAL

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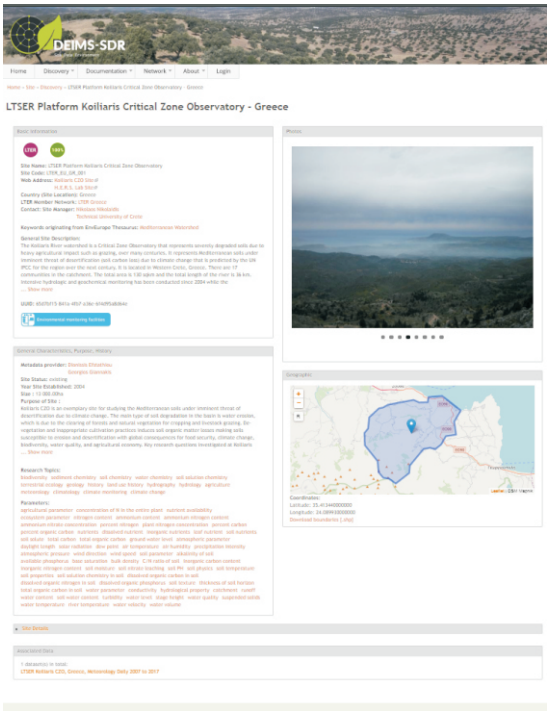

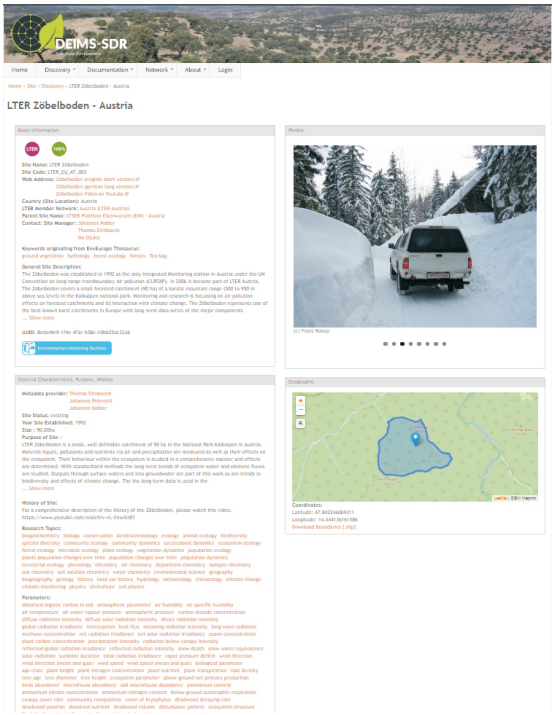

Exemplary metadata information about the sites, summarized by LTER-Europe site catalogue.

PRIORITY THEMES

BIODIVERSITY

WATER

PRODUCTION

SERVICES

INNOVATION

PLANNING / MANAGEMENT

SOCIETY

RESILIENCE

INFORMATION / DATA MANAGEMENT

PRIORITY ECOSYSTEM SERVICES

PROVISIONING

REGULATING

CULTURAL

SUPPORTING

AREA OF RELEVANCE, ACCORDING TO SDG

SDG - UN SUSTAINABLE DEVELOPMENT GOALS

FURTHER INFORMATION

Oggioni et al. (2012) Monitoring of Environmental Status through Long Term Series: Data Management System in the EnvEurope Project. In: EnviroInfo 2012: EnviroInfo Dessau 2012, Part 1: Core Application Areas, Shaker Verlag Aachen, ISBN: 978-3-8440-

DEIMS-SDR: https://deims.org

EnvThes: http://vocabs.ceh.ac.uk/evn/tbl/envthes.evn

eLTER H2020

PROJECT - EUROPEAN LONG-TERM ECOSYSTEM AND SOCIO-ECOLOGICAL RESEARCH INFRASTRUCTURE
FUNDED BY H2020-INFRAIA-2014-2015 654359