SENTINEL Hub

What good can come out of sharing IACS data?

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Copernicus masters OVERALL WINNER

Copernicus masters WINNER 2016 T-SYSTEMS OPEN TELEKOM CLOUD CHALLENGE

EUROPEAN EO COMPANY OF THE YEAR 2018 EARSC

Lost and trapped in the forest of darkness, the man found an unexpected solution

Credit: Juozas Adomaitis

Home > Law > Have your say > Published initiatives > Review of the Directive on the re-use of public sector information (Directive 2013/37/EU)

PROPOSAL FOR A DIRECTIVE

Review of the Directive on the re-use of public sector information (Directive 2013/37/EU)

Roadmap
Feedback period
18.09.2017 - 16.10.2017
FEEDBACK: CLOSED

Commission adoption
Adopted on
25.04.2018
Feedback period
26.04.2018 - 13.07.2018
FEEDBACK: CLOSED

About this initiative

Topic	Digital economy and society
Type of act	Proposal for a directive
Category	REFIT

Roadmap

FEEDBACK: CLOSED

Type

Inception impact assessment
More about roadmaps.

Feedback period

18 September 2017 - 16 October 2017 (midnight Brussels time)

View feedback received >

Digital Single Market

POLICY

European legislation on open data and the re-use of public sector information

The Directive on open data and the re-use of public sector information provides a common legal framework for a European market for government-held data (public sector information). It is built around two key pillars of the internal market: transparency and fair competition.

The Directive on open data and the re-use of public sector information, also known as the 'Open Data Directive' (Directive (EU) 2019/1024) entered into force on 16 July 2019. It replaces the Public Sector Information Directive, also known as the 'PSI Directive' (Directive 2003/98/EC) which dated from 2003 and was subsequently amended by the Directive 2013/37/EU (more about the process of this revision).

About Open data

- Policies +
- Blog posts
- News
- Events
- Projects
- Funding

Analysis of access

- Free access – 23
- Upon request – 10
- View only – 4
- Not free of charge - 12
- No access – 8
- Other – 6

2017, 63 entities

Challenges on sharing IACS data

- The data are not up-to-date
- How to efficiently distribute these data?
- There is no budget available for distribution system
- GDPR
- Who needs this anyway?

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How to efficiently distribute these data?

IGN
INSTITUT NATIONAL DE L'INFORMATION GÉOGRAPHIQUE ET FORESTIÈRE

Géoservices IGN

- RESSOURCES WFS GÉOPORTAIL – RPG

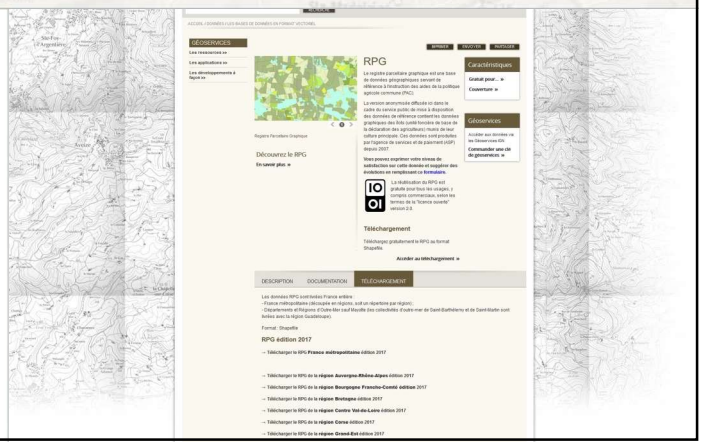
Nom de la ressource	Nom technique
RPG 2012	RPG.2012:rpg_2012
RPG 2013	RPG.2013:rpg_2013
RPG 2014:ilots_anonymes	RPG.2014:ilots_anonymes
RPG 2015:ilots_anonymes	RPG.2015:ilots_anonymes
RPG 2015:parcelles_graphiques	RPG.2015:parcelles_graphiques
RPG 2016:ilots_anonymes	RPG.2016:ilots_anonymes
RPG 2016:parcelles_graphiques	RPG.2016:parcelles_graphiques

- RESSOURCES WFS GÉOPORTAIL – SCANS GRAPHES DE MOSAIQUAGE

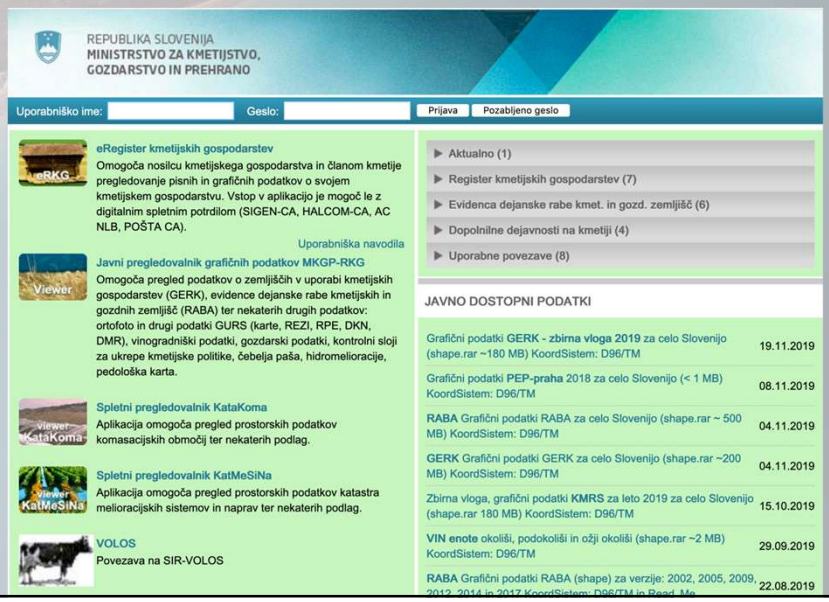
Nom de la ressource	Nom technique
Graphe de mosaïquage SCAN 25	GEOGRAPHICAL.GRIDSYSTEMS.MAPS.SCAN25.GRAPHE-MOSAIQUAGE:graphe_scan25
Graphe de mosaïquage SCAN 50	GEOGRAPHICALGRIDSYSTEMS.MAPS.SCAN50.1950.GRAPHE:ta_france_cartes_50k_1950_date_wm

- RESSOURCES WFS GÉOPORTAIL – POINTS DE REPERES ROUTIERS – BDPR

Nom de la ressource	Nom technique
Points de repère routiers – BDPR	TRANSPORTNETWORK.COMMONTRANSPORTELEMENTS.MARKERPOST:pr



How to efficiently distribute these data?



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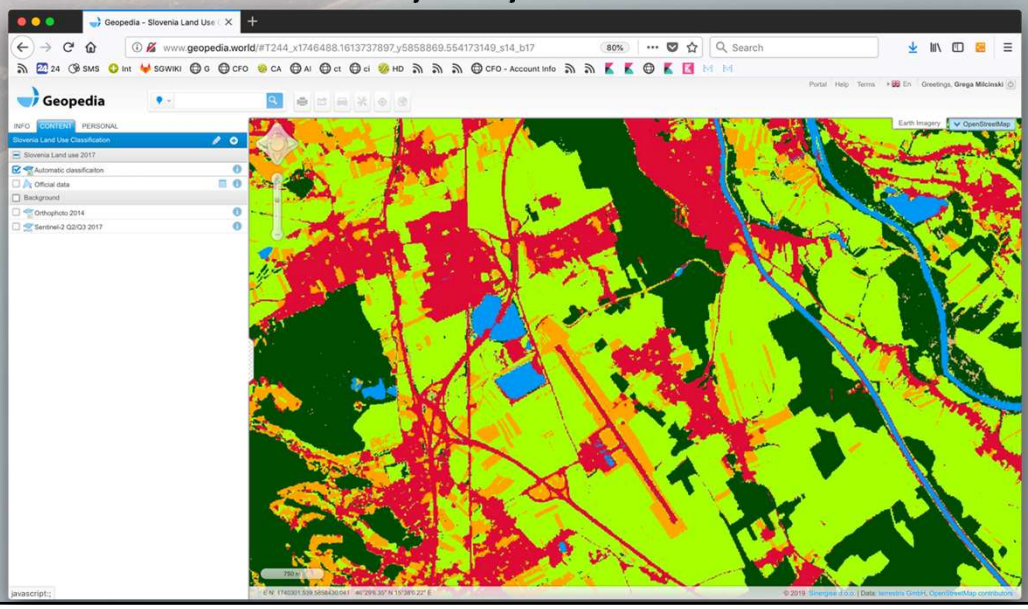
- "These data are mine and mine alone!"
- "Everything I share can and will be used against me in a Court of Auditors"

Who needs this anyway?



http://eo-learn.sentinel-hub.com/

Example dataset of EOPatches for Slovenia 2017

Official Bucket Link:
http://eo-learn.sentinel-hub.com.s3.eu-central-1.amazonaws.com /

Foreword

This example dataset will help you get started with Remote Sensing data and analysis in the open-source framework of eo-learn.
To promote the use of eo-learn, we have decided to share a dataset of EOPatches for the whole region of Slovenia for the year 2017. This data can be used in remote sensing applications, such as land cover classification.
See our Land Cover Classification blog posts!

- Part 1
- Part 2
- Part 3

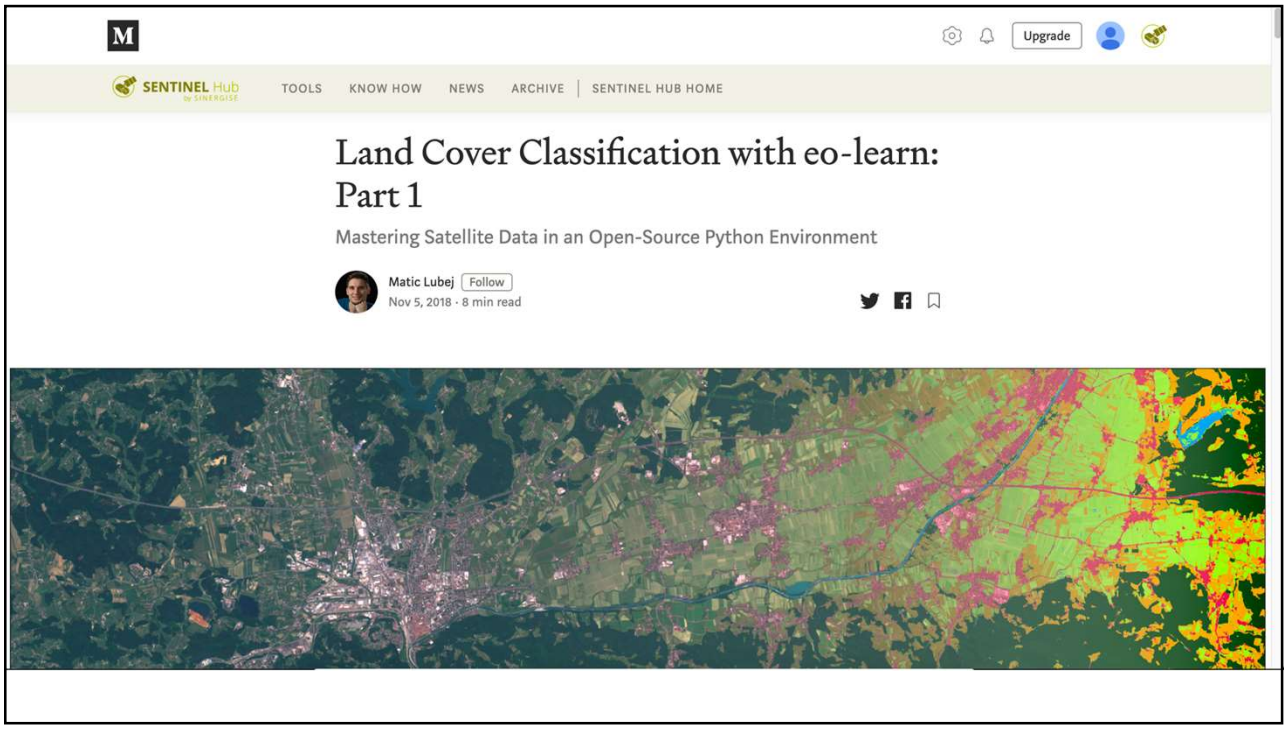
Bucket Content

The contents of this AWS S3 bucket are the following:

```
Last Modified                  Size          Key
-------------------------------------------------------------------------------------
2019-02-14T11:07:21.000Z       187.0 GB      eopatches_slovenia_2017_full.zip
2019-02-14T10:46:28.000Z       2.7 GB        eopatches_slovenia_2017_sample.zip
```

Content Description

The **full** dataset contains 293 EOPatches of the size of about 1000 x 1000 pixels at 10 m resolution, while the **sample** dataset contains 4 EOPatches from a 2x2 grid.
Each EOPatch is a container of EO and non-EO data. You can load an EOPatch in eo-learn with the following command:



Who needs this anyway?

- Land change monitoring
- Crop yield predictions
- Area Monitoring
- Inclusion of greenhouse gas emissions and removals from land use, land use change and forestry in the 2030 climate and energy framework

How to efficiently distribute these data?

- Don't bother with it too much, just make it available and allow further exploitation (including commercial)
- Industry will step in and make it available

EURO DATA CUBE

- Services for archival, analysis and distribution of data
- Analysis Ready Data
- Raster (satellite, aerial, meteo) and vector (land use, LPIS, GSAA, ...)
- Fully managed services
- Pay-per-use

esa

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EURO DATA CUBE

Provide us access to the IACS data and we will share it efficiently

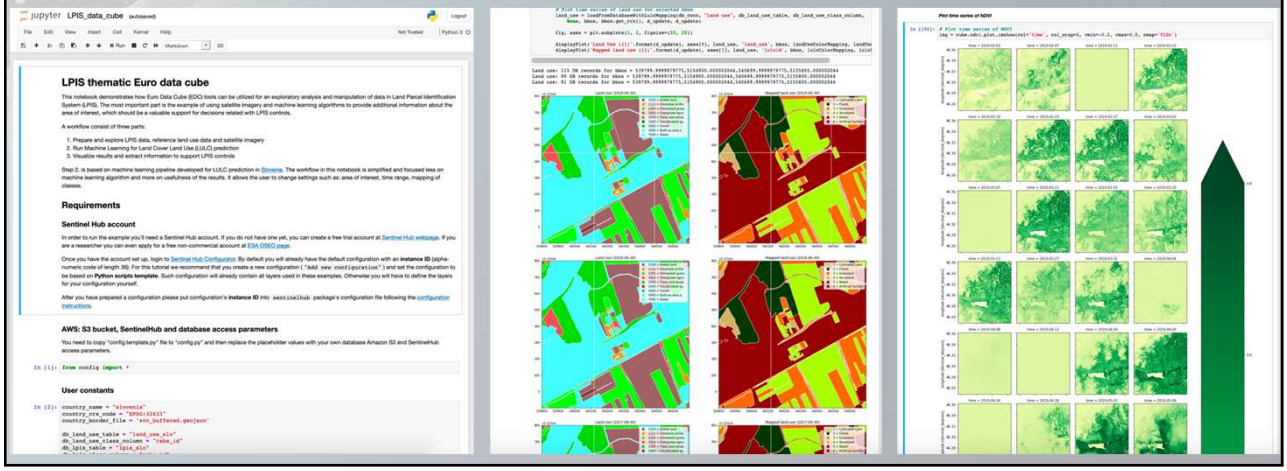
esa

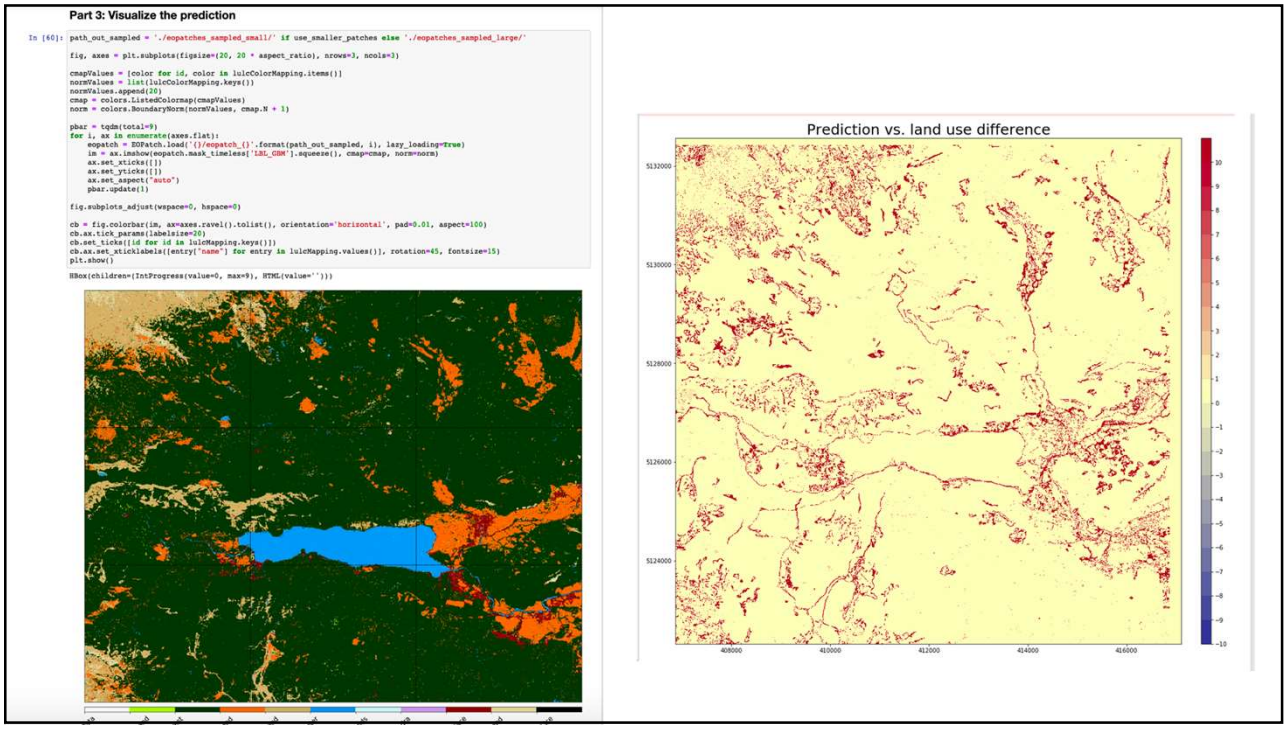
SINERGISE BROCKMANN CONSULT GMBH EOX gisat planet. SENTINEL Hub

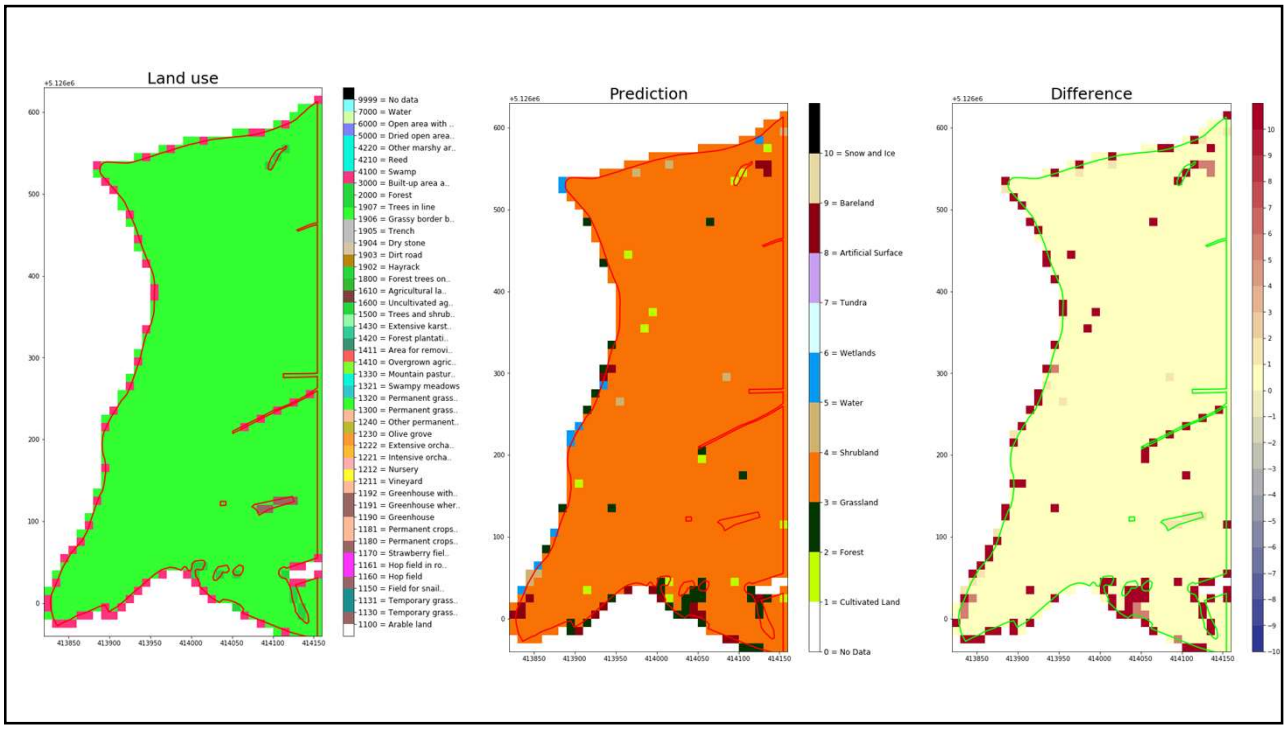
Can sharing IACS data provide a a solution for Area Monitoring?

One more thing…

Jupyter Notebook with start-to-end basic example of crop/land cover classification, which can be used for basic area monitoring tasks







Conclusion

- Share your data
  - INSPIRE is nice, but not essential
- Share your data
  - Web services are nice, but not essential
- Share your data
  - Make sure they are updated regularly
  - Make sure there is the right to re-use

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Credit: Juozas Adomaitis

More info

- https://eurodatacube.com
- http://sentinel-hub.com
- https://github.com/sentinel-hub/eo-learn

- grega.milcinski@sinergise.com

Thanks

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Copernicus Europe's eyes on Earth

USGS science for a changing world

Funded by the H2020 Framework Programme of the European Union

amazon web services