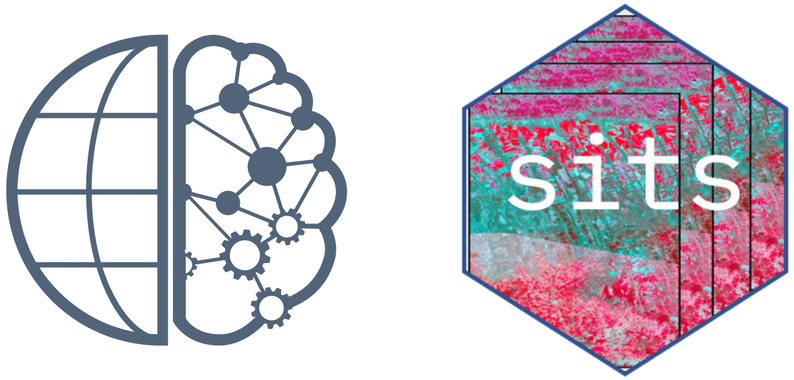
Detecting deforestation using data cubes and deep learning



Example Knowledge Package

The goal of this package is to present how the sits R package can be used to generate a deforestation map

The content of this example package was produced based on the sits package documentation.

Package content

In this example package, the following resources are available:

In this example package, the following resources are available:

Article

Article describing the application methodology

In this example package, the following resources are available:

Article

LULC Map

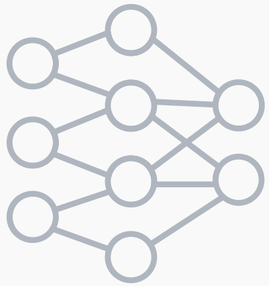
LULC Map results of the application processing workflow

In this example package, the following resources are available:

Article

LULC Map

ML Model



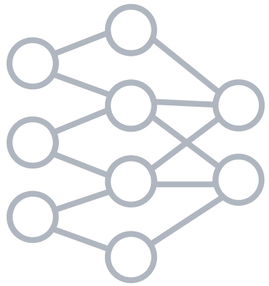
Trained ML Model used to generate the LULC Map

In this example package, the following resources are available:

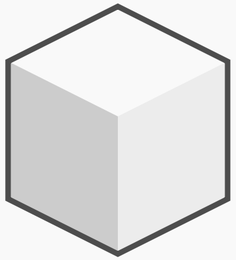
Article

LULC Map

ML Model



Data Cube



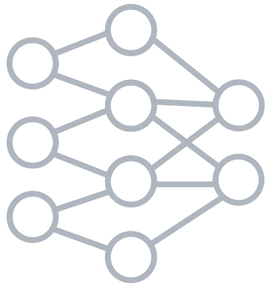
Data Cube used to extract the input time-series data to generate the LULC Map

In this example package, the following resources are available:

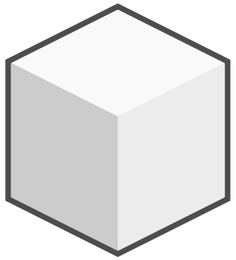
Article

LULC Map

ML Model



Data Cube



Scripts

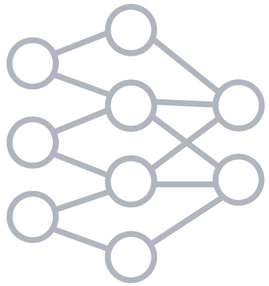
Processing scripts used to handle data, train model and generate the application results

In this example package, the following resources are available:

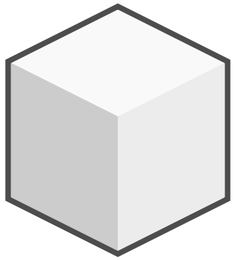
Article

LULC Map

ML Model



Data Cube



Scripts

Samples

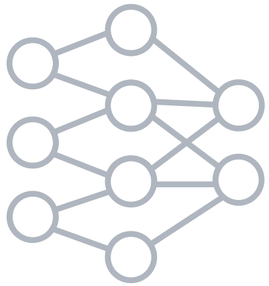
Deforestation samples used to train the ML Model

In this example package, the following resources are available:

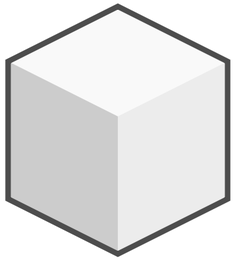
Article

LULC Map

ML Model



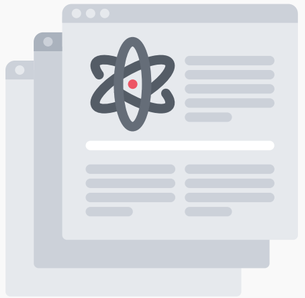
Data Cube



Scripts

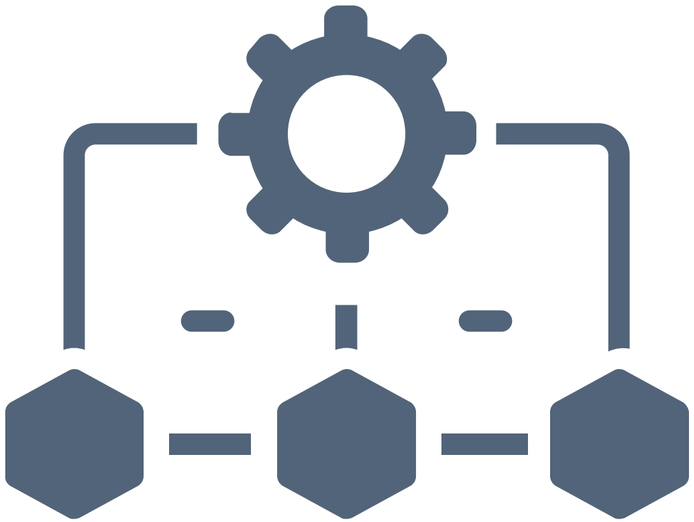
Samples

Docs



Softwate documentation to support the use and customization of the processing scripts

Package workflow



There are many ways to use a Knowledge Package. Thus, the workflow we will present is only recommended and does not have to be followed to use the package

Article

(1)

To start, you can learn more about the methodology of the application using the article

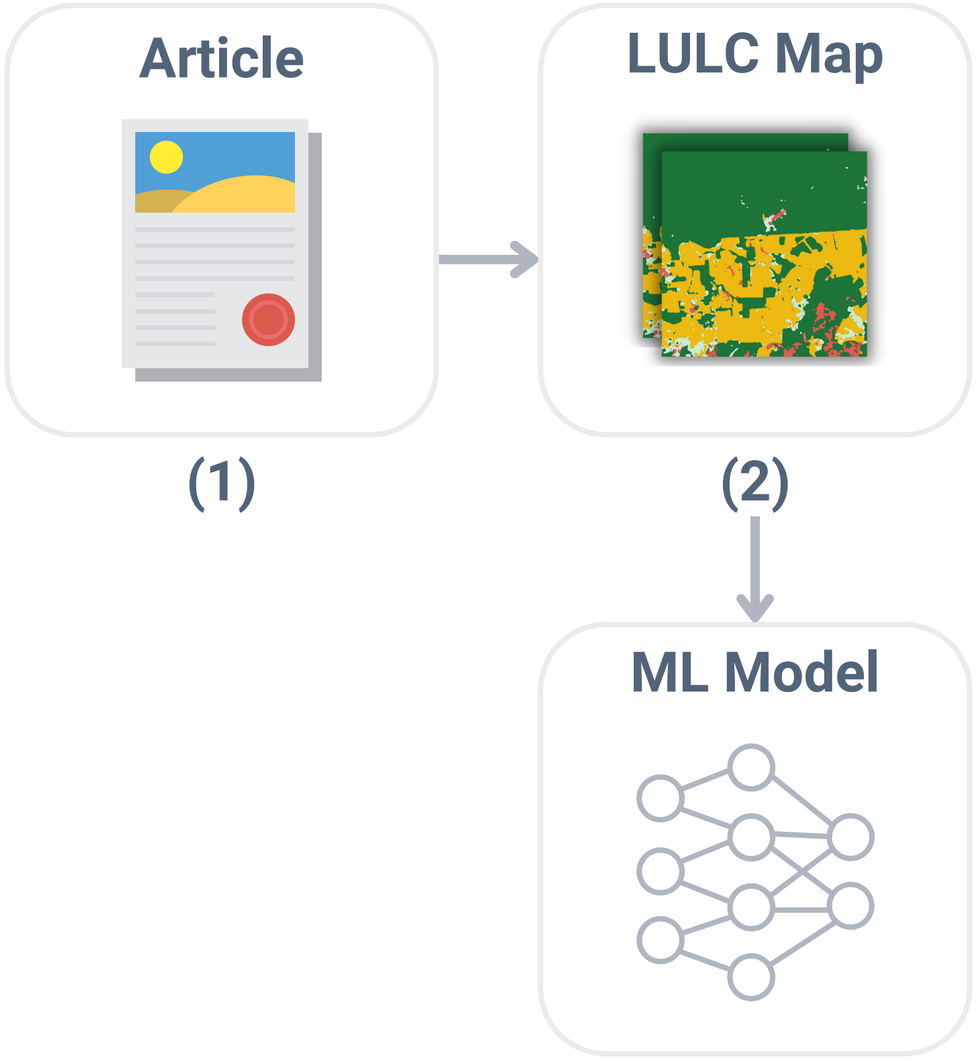
Article

(1)

LULC Map

(2)

As a second step, you can explore the application results. This will inspire you.



To understand the model used to generate the results, you can use the ML Model resource

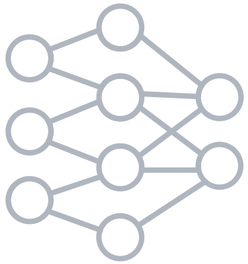
Article

(1)

LULC Map

(2)

ML Model

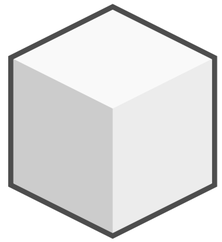


(3)

As an extension for the model content, you learn more about the data used as input for it

(4)

Data Cube



Samples

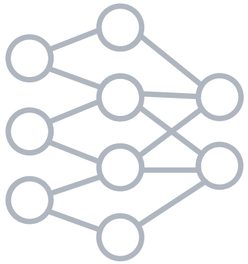
Article

(1)

LULC Map

(2)

ML Model

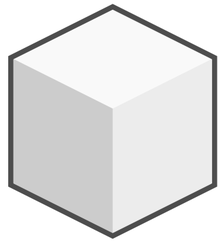


(3)

Finally, if you want, you can explore the processing scripts and use them to create new results

(4)

Data Cube

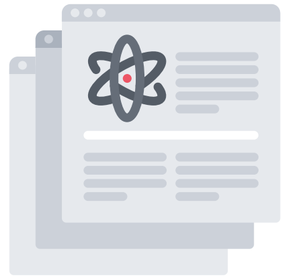


Samples

(5)

Scripts

Docs



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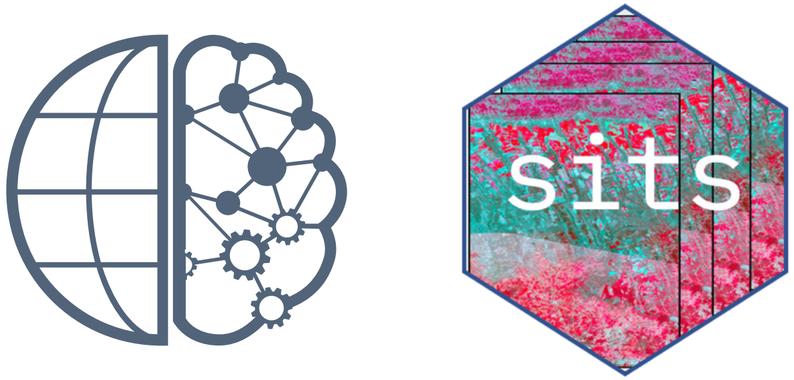

Thank you!

Example Knowledge Package