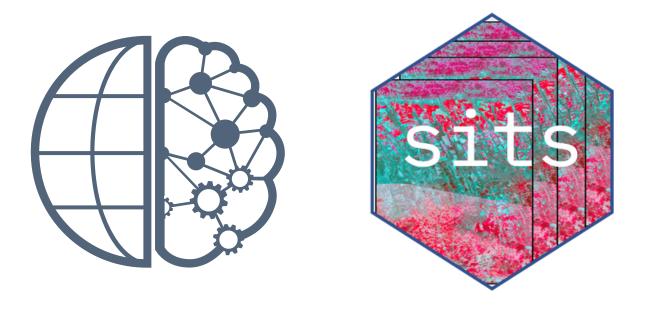
# Detecting deforestation using data cubes and deep learning



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 <u>sits package documentation</u>.

## Package content





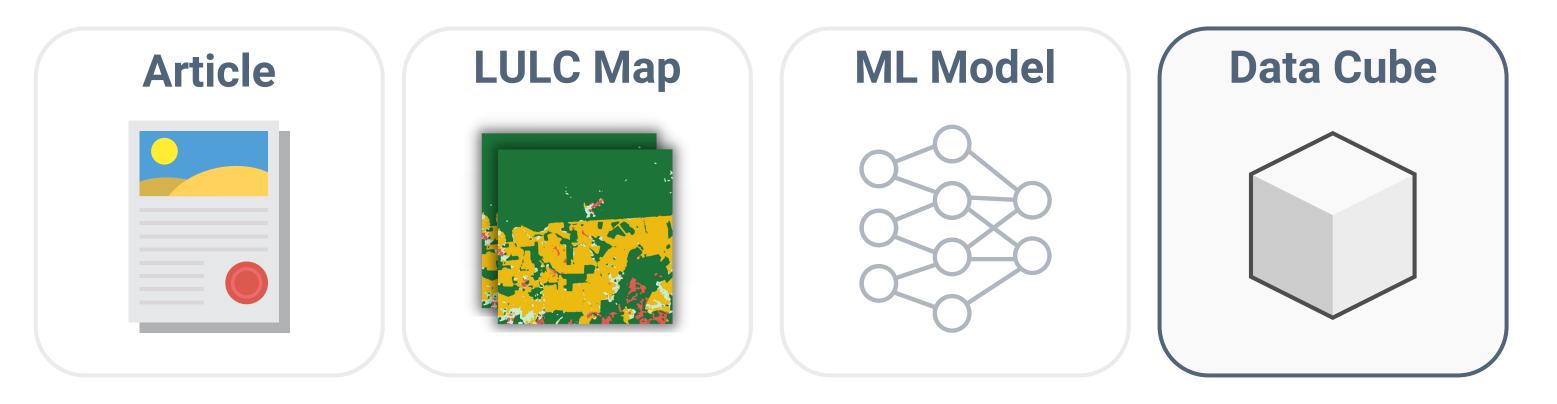
Article describing the application methodology



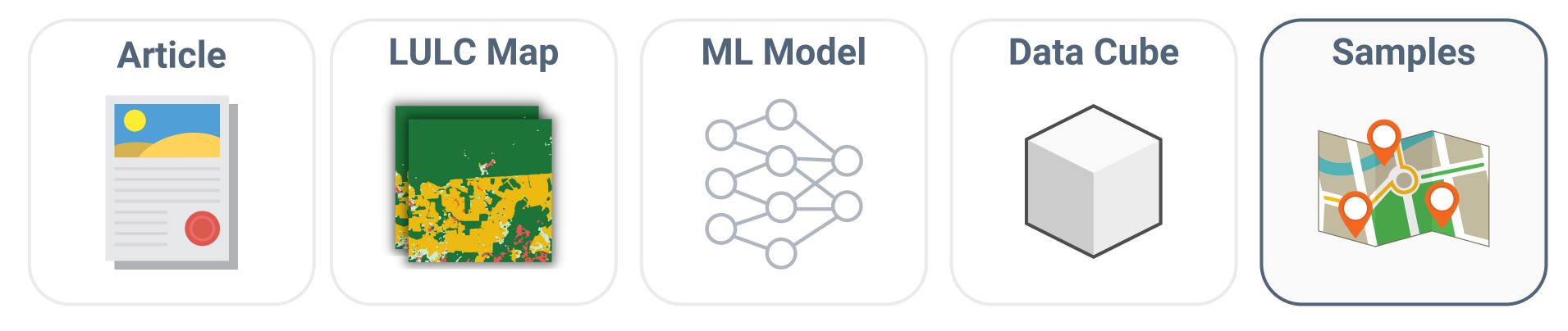
LULC Map results of the application processing workflow



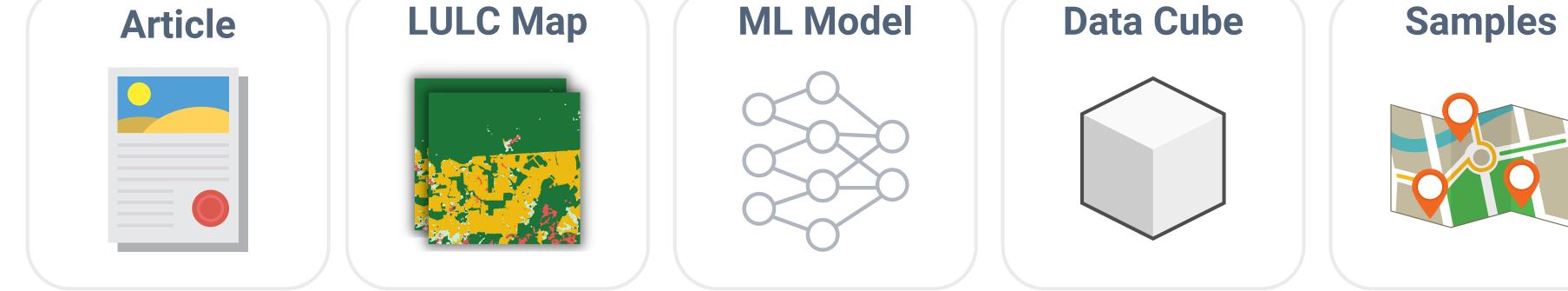
Trained ML Model used to generate the LULC Map

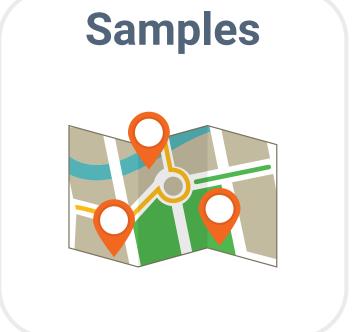


Data Cube used to extract the input time-series data to generate the LULC Map



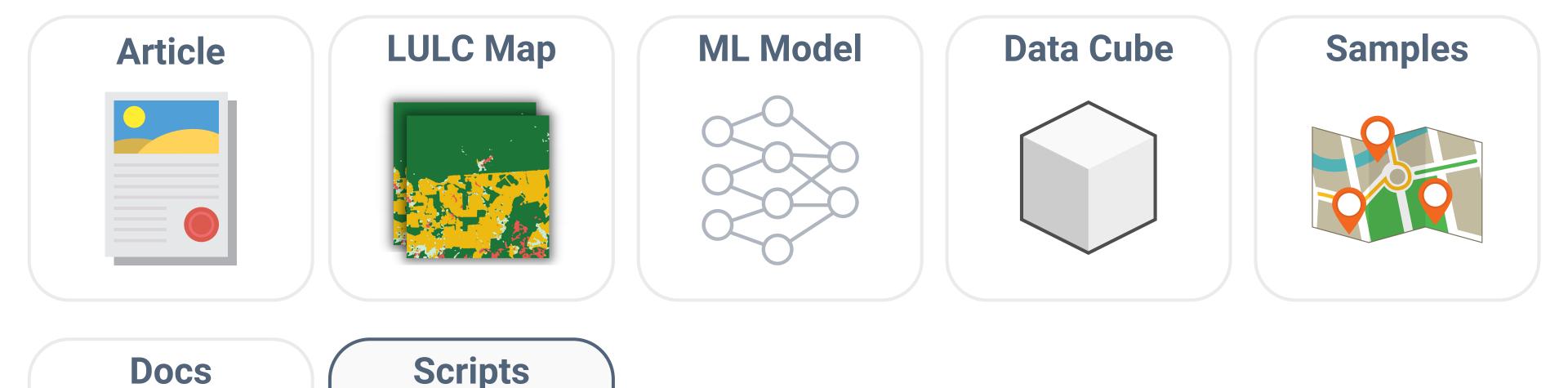
Deforestation samples used to train the ML Model



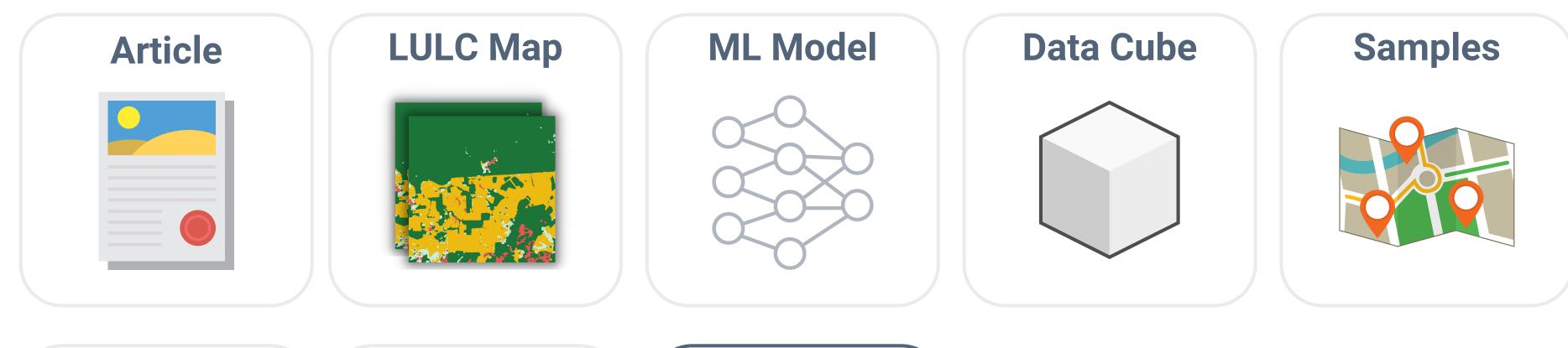




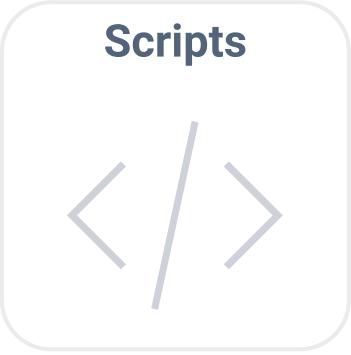
Softwate documentation to support the use and customization of the processing scripts

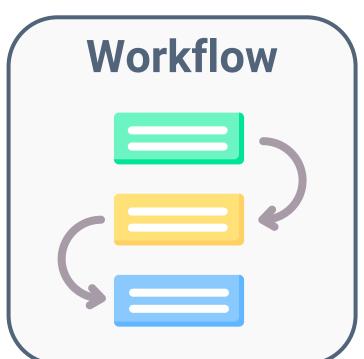


Processing scripts used to handle data, train model and generate the application results

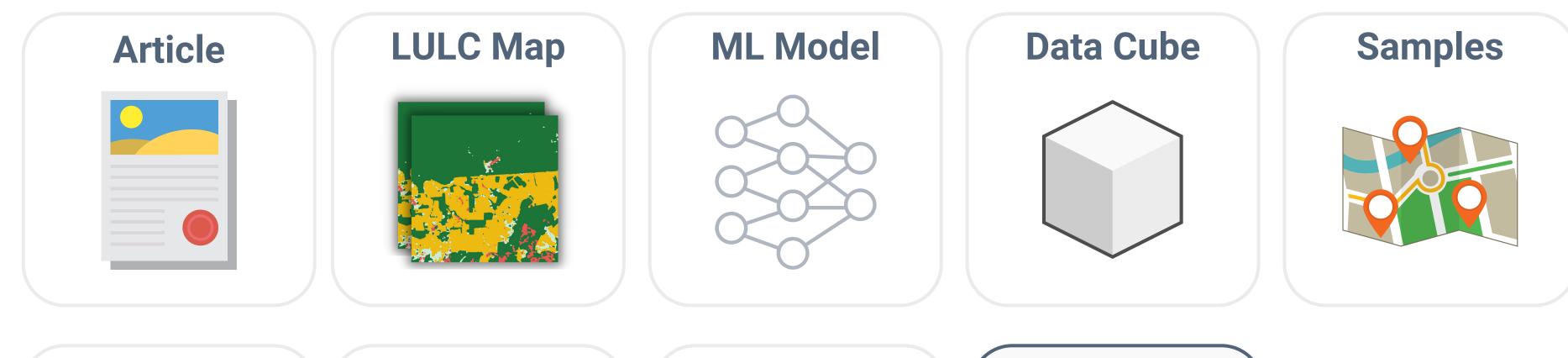




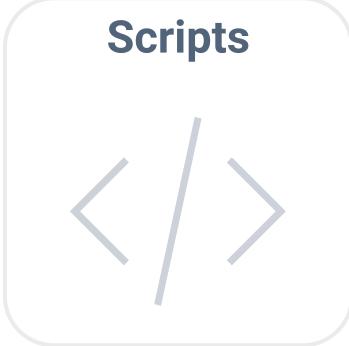




Processing workflow applied to the scripts to generate the results





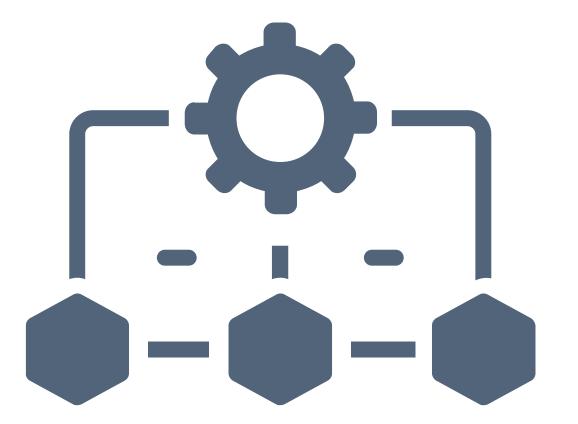






Environment (Docker image) used to run the processing workflow

### 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

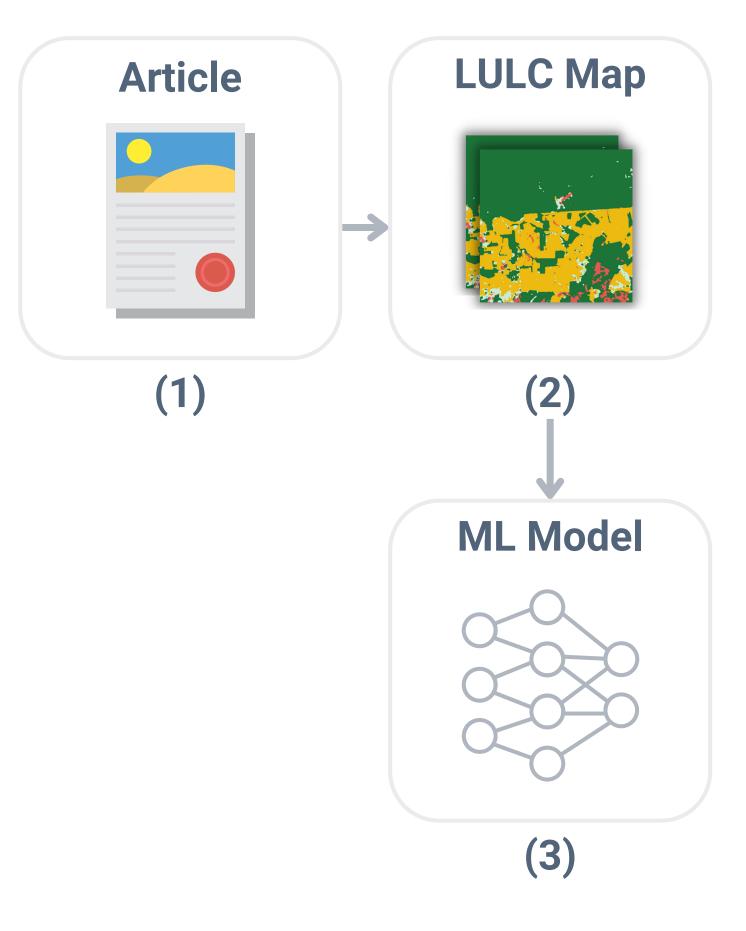
# Article (1)

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

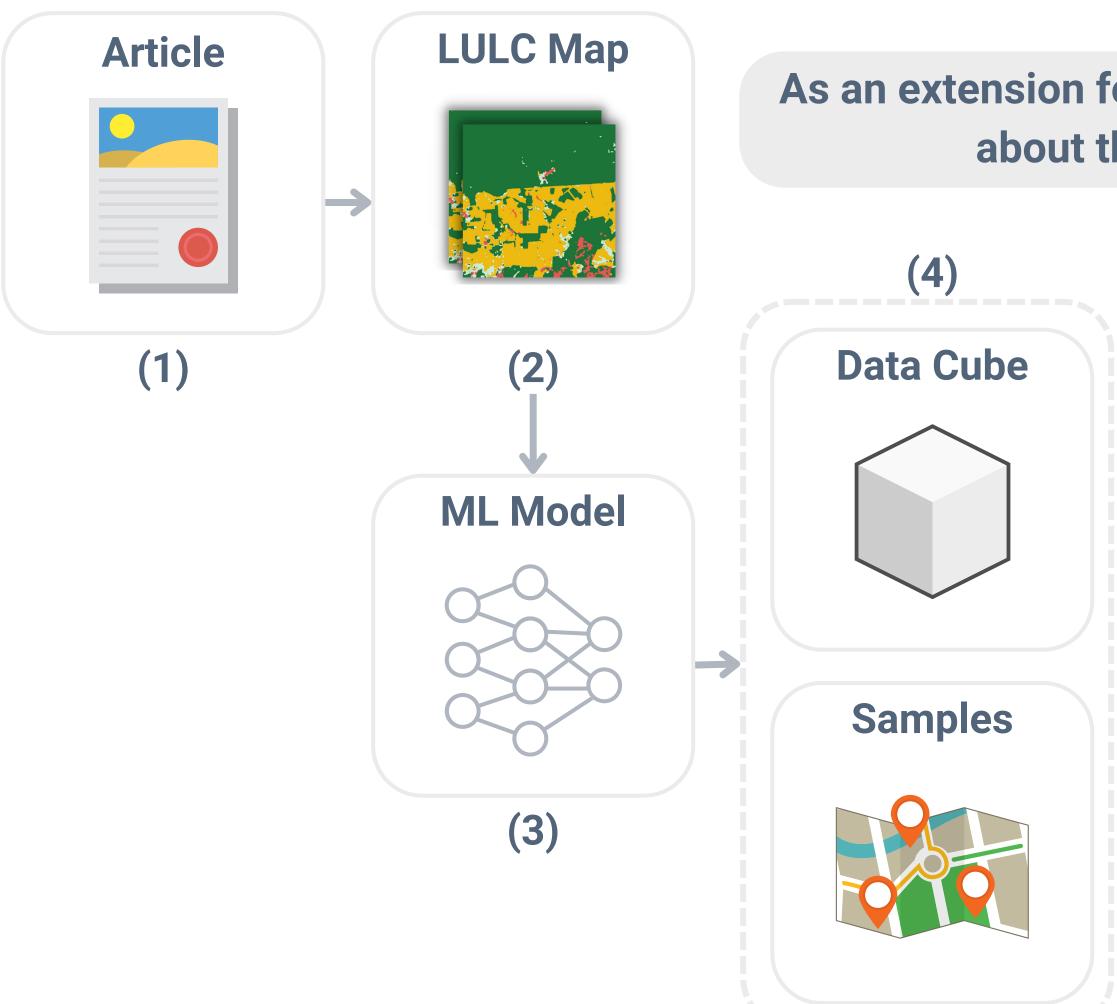


As a second step, you can explore the application results.

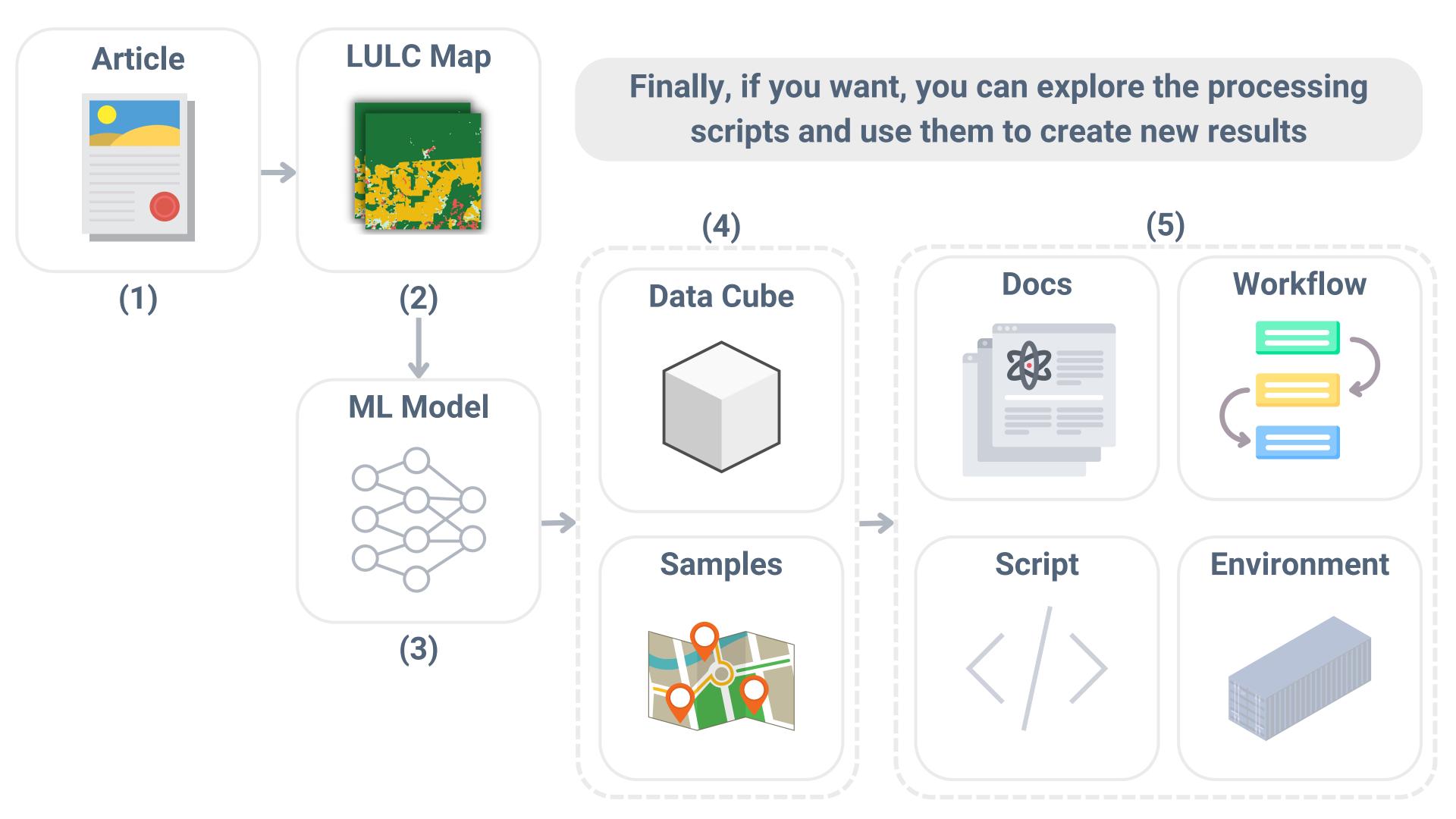
This will inspire you.



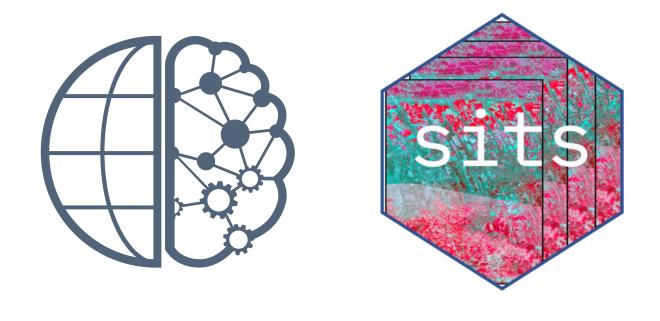
To understand the model used to generate the results, you can use the ML Model resource



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



# Detecting deforestation using data cubes and deep learning



Thank you!

Example Knowledge Package