DSC-57 Explore Shipping GPS data for rapid economic indicators

2018-06-13

This project is to explore the ships tracking data (AIS) and the ship waste data (CERS), to further exploit these huge, rich datasets.

## Team members

* Louisa Nolan
* Alex Noyvirt

## The need

DIT want to implement some of what has already been done. We have a dataset for UK waters, but may be able to extend this to a global dataset.

## Impact

This project will look to:

* investigate the Rotterdam effect
* run all the AIS data, to create a full data set
* provide count of ships, ship types and sizes in and out of UK ports (for DfT)
* provide number of port-to-port journeys - who goes where? (ESSnet)
* visualize the data
* same for CERS, and also type & volume of material carried
* develop an economic indicator for trade in goods, based on shipping volumes and / or waste
* potentially build a pipeline to update outputs automatically with new data
* share code and methods with UN Global Platform, Stats Netherlands, UN Global Pulse etc.

## Data science

* Big data
* Pyspark
* Data visualization
* Geospatial

## Stakeholders

* Department for Transport
* DExEU
* DIT
* ESSnet
* Defra? especially for summary stats on CERS?
* BEIS
* HMT, BEIS, ONS - early indicators
* CBDS Stats Netherlands
* UN Global Pulse
* UN Global Platform

## Code and outputs

* [repo](https://github.com/datasciencecampus/project-planning)
* [planning](https://github.com/datasciencecampus/project-planning/projects/10)
* [slack](https://datasciencecampus.slack.com/messages/C75R3DWKD/details/)

## Further information

Please contact datasciencecampus@ons.gov.uk for more information.

## Updates

* No updates yet.