HeraSpace

Exploring New Capabilities for Global Ocean Colour innovative applications

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Technology Transfer Programme Office (TTPO)

- Inspire, facilitate use space technology systems.
- Know-how for non-space applications.
- Sponsor events like Hackatons, catch entrepreneurs.
- Example: Junction Hackaton Helsinki November 2016
  1400 Competitors, two prizes.
  36 hours of continuous competition.
HeraSpace introduction

HeraSpace winner ESA first special prize to the best idea for the Arctic.

http://www.esa.int/spaceinimages/Images/2016/11/Junction_ESA_Arctic_Special_Prize_winner_HeraSpace
HeraSpace app optimising ocean fishing standards best practices.

Combining Copernicus satellite data/actual fishing data.

Fishing routes, selection drastically improved.

HeraSpace supports sustainable exploitation ocean resources.

HeraSpace team composed international highly experienced team.
HeraSpace team

Team

Isaac
Software Developer
Entrepreneurial Spirit
6 years

Chris
Senior Seafood Industry Consultant
25 years

Estela
Senior Environmental Consultant
47 countries

Diego
Business Developer and Finance
15 years

Désiré
Engineer Startup and Data
5 years
HeraSpace algorithm techStack

- EUMETSAT Sentinel 3 Marine Copernicus satellite data.
- Sentinel 3-A\(\text{A}\)|B OLCI, SLSTR, SRAL instruments.
- Near Real Time timeliness.
- CODA access method.
- Variables: temperature, ocean color, altimetry.
- Blockchain.
Copernicus Online Data Access
HeraSpace algorithm logic

- HeraSpace script GPT instead SNAP.
- Chain SNAP/BRAT processes & Python.
- Level 2 geophysical data.
- One script CODA & CMEMS access/Shared credentials.
- NetCDF4 format file
- OBIS
HERASPACE

THANK YOU!!

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References

1. Email: isaacdua@heraspace.com Address: Valencia Street N12 4D, Petrer, Alicante, Spain.

EUMETSAT EUM/OPS-SEN3/MAN/16/880763 v2 Draft, 24 January 2017

ESA http://www.esa.int/spaceinimages/Images/2016/11/Junction_ESA_Arctic_Special_Prize_winner_HeraSpace