

EO DATA SCIENCE

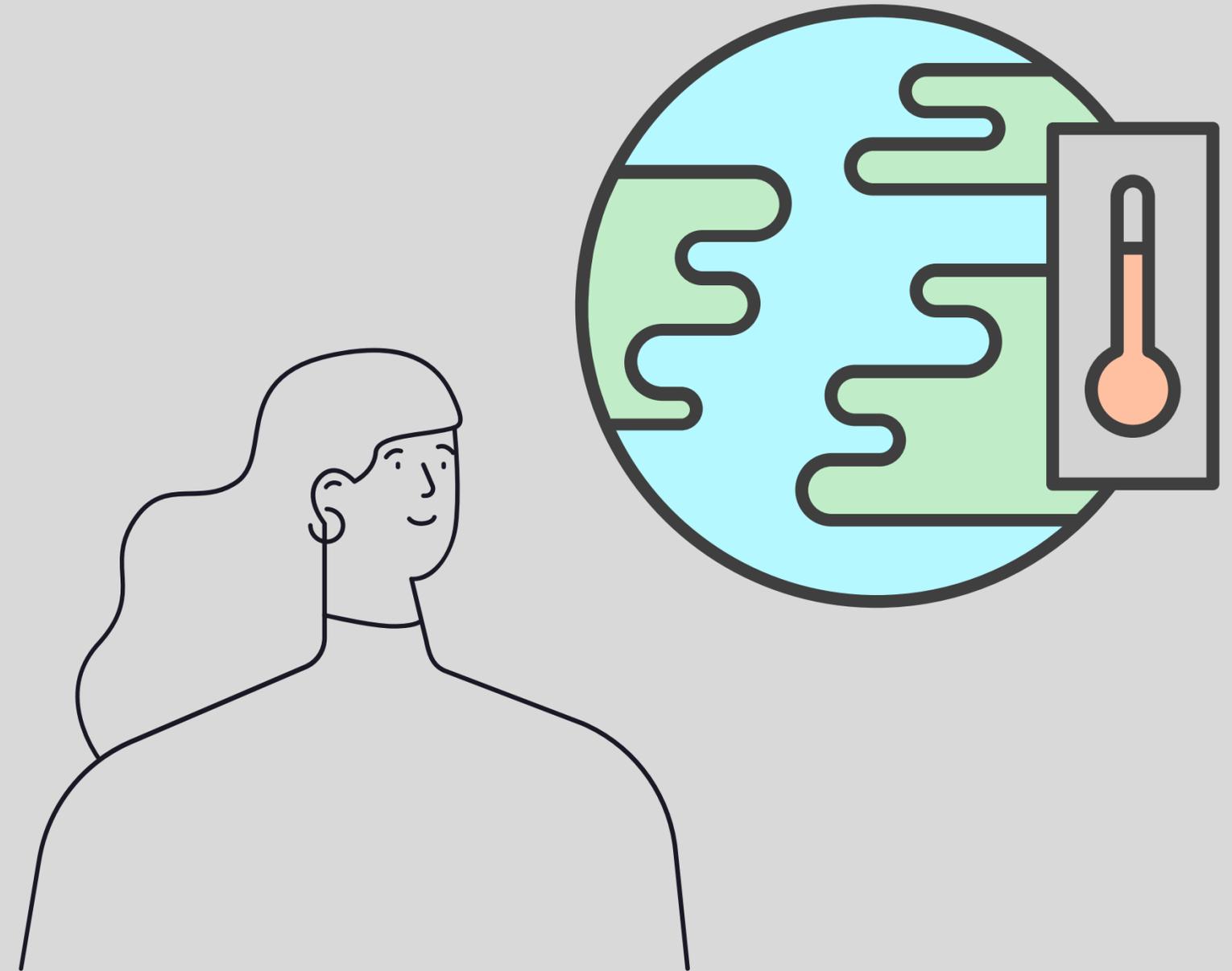
THROUGH

GOOGLE EARTH ENGINE

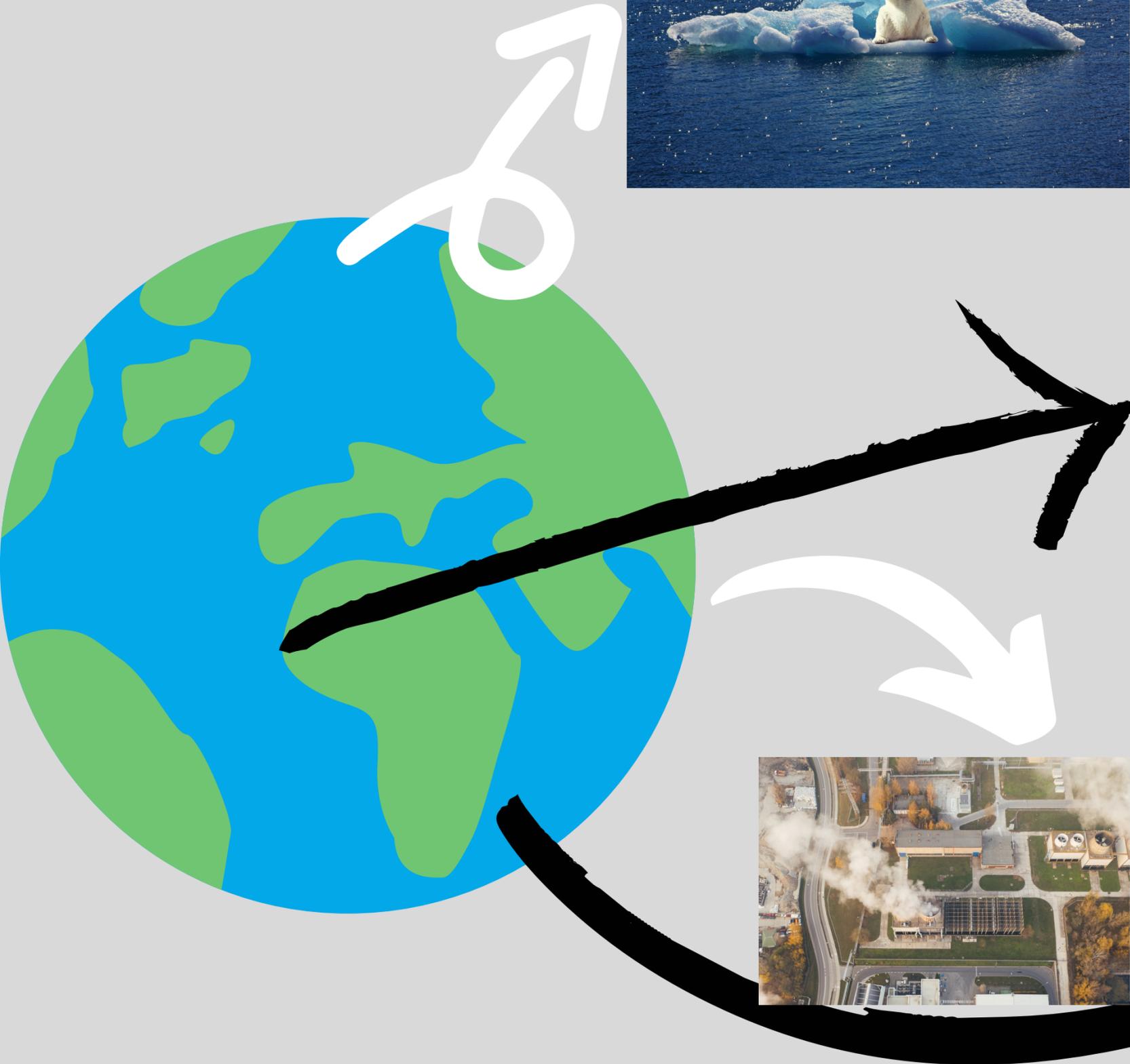
Juan Torres-Batló, PhD



**Is there any need
of using Earth
Observation (EO)
data to efficiently
manage/monitor
the territory?**



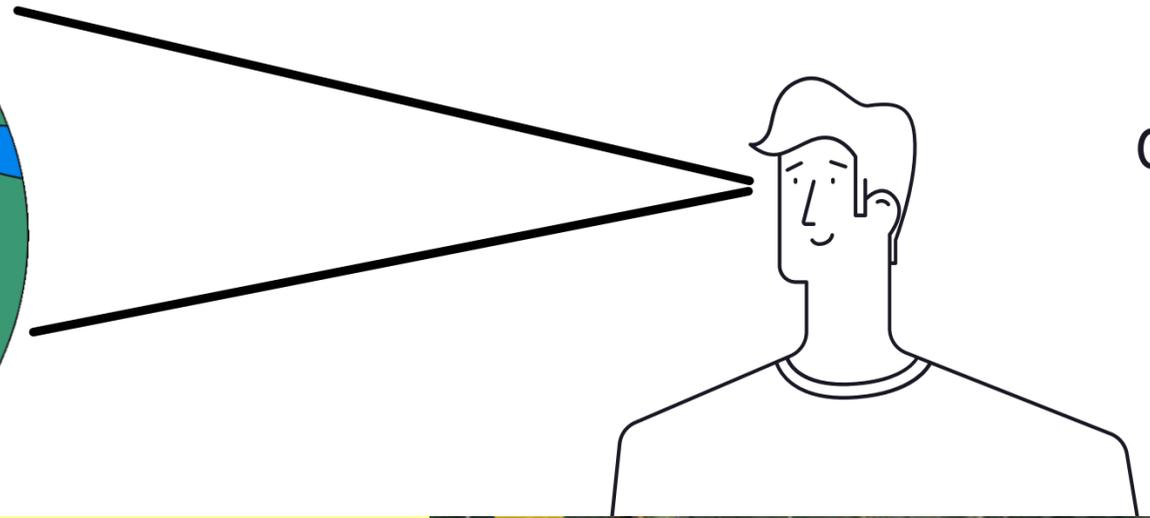
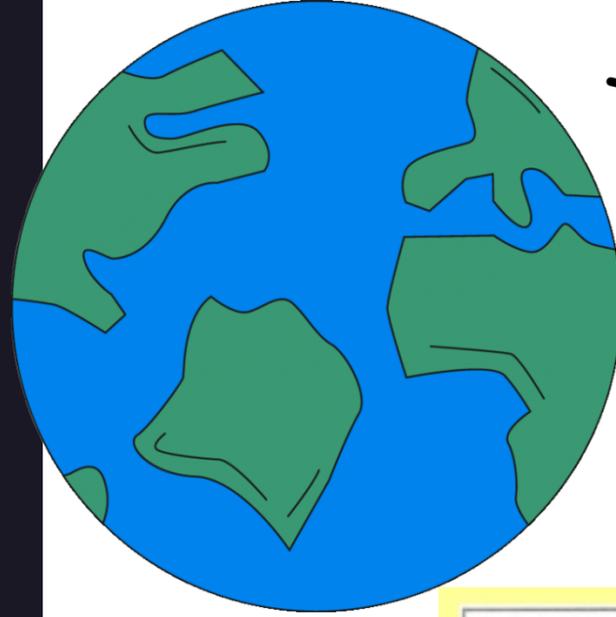
03



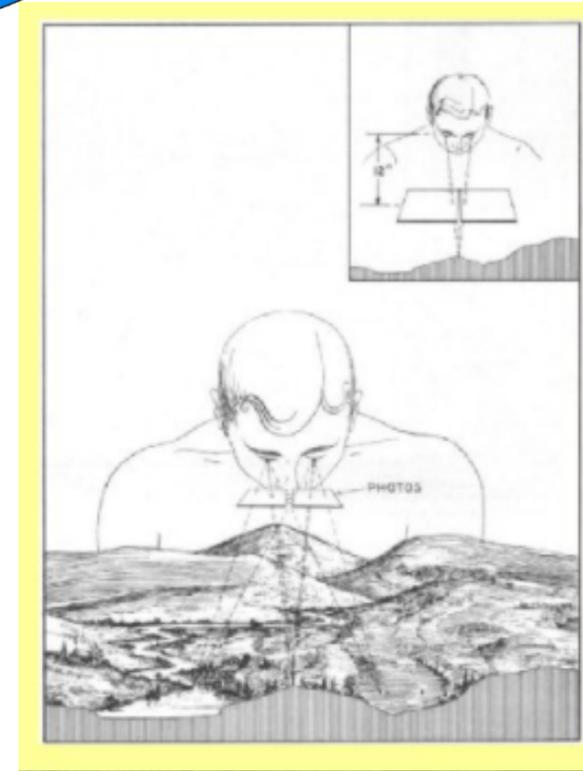


ADVANTAGES OF USING EO DATA TO MONITOR THE EARTH

WHY?

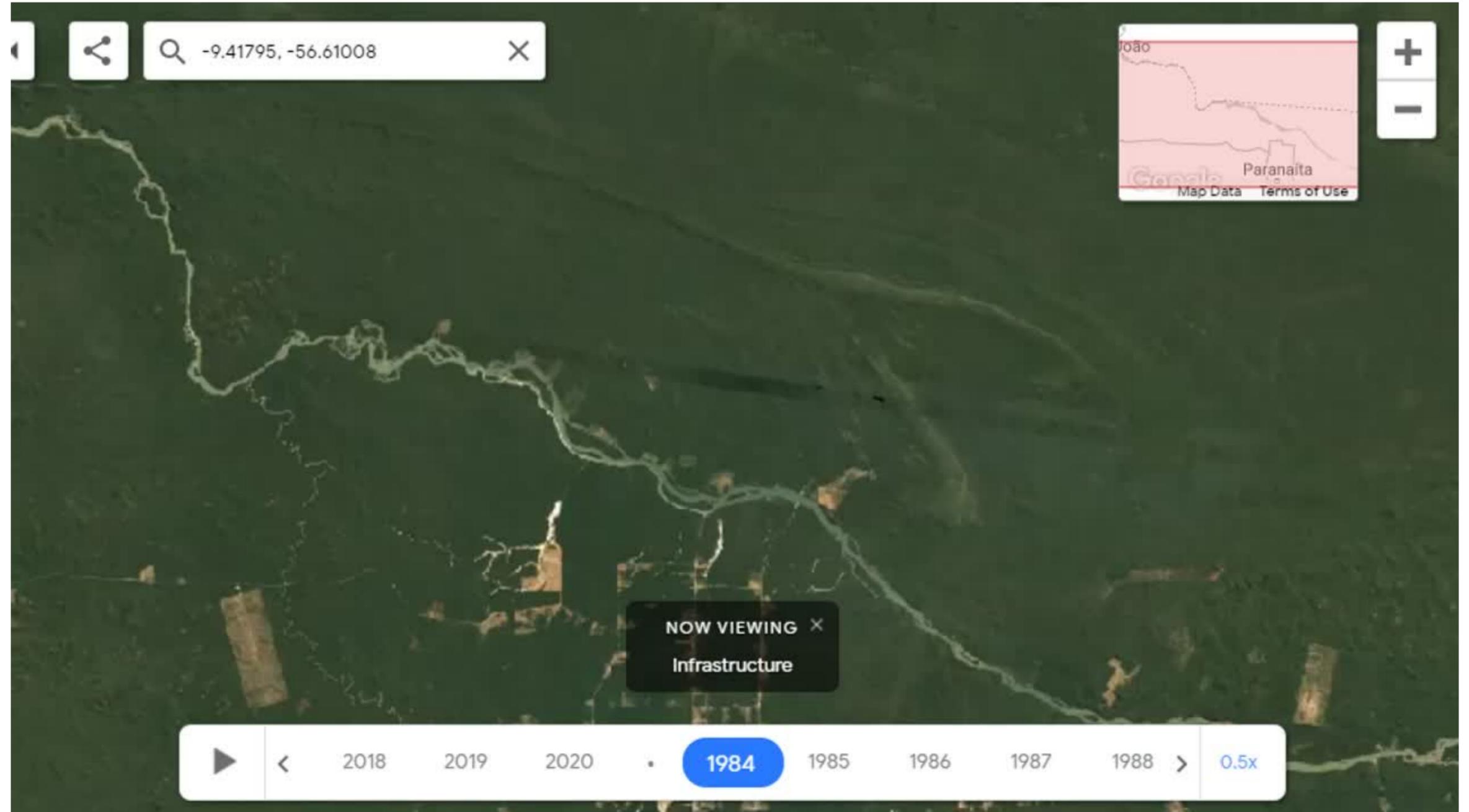


04



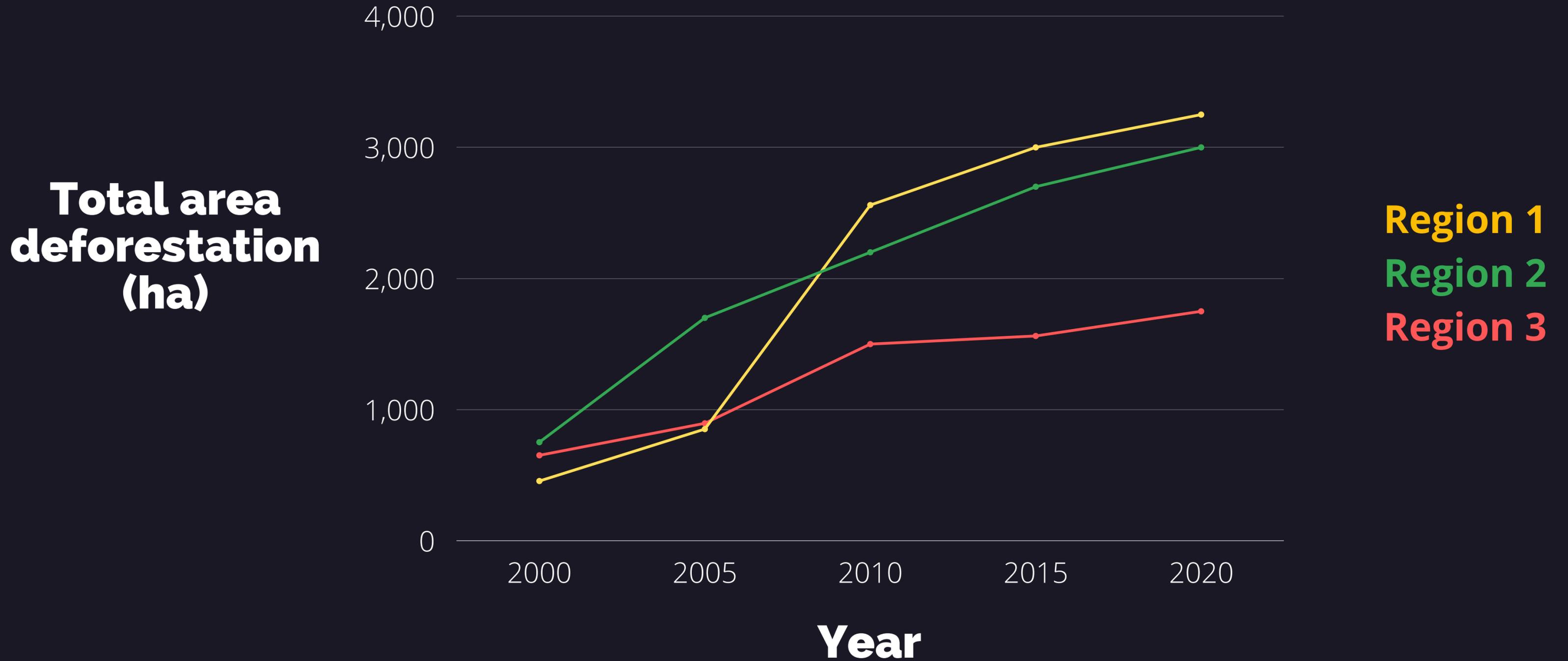
EO DATA ALLOW US TO:

1. IDENTIFY SPATIAL CHANGES



2. QUANTIFY THOSE CHANGES

07



HOW?

With platforms such as Google Earth Engine.



[HTTPS://EARTHENGINE.GOOGLE.COM/](https://earthengine.google.com/)

08



LET'S HAVE A LOOK...

Earth Engine Apps Experimental

Search places



Map Satellite

Global Forest Change

Results from analysis of Landsat images characterizing forest extent and change.

For more information

Science paper by Hansen, Potapov, Mo...
Hancher et al.

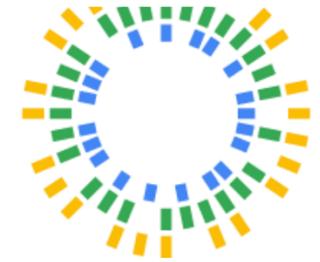
LINK TO THE APP: [HTTPS://GOOGLE.EARTHENGINE.APP/VIEW/FOREST-CHANGE](https://google.earthengine.app/view/forest-change)

We care about making a positive impact in the world. We use software and data to tackle issues such as sustainable development, biodiversity and conservation, preservation of Indigenous rights and interests, climate change and disaster risk reduction.

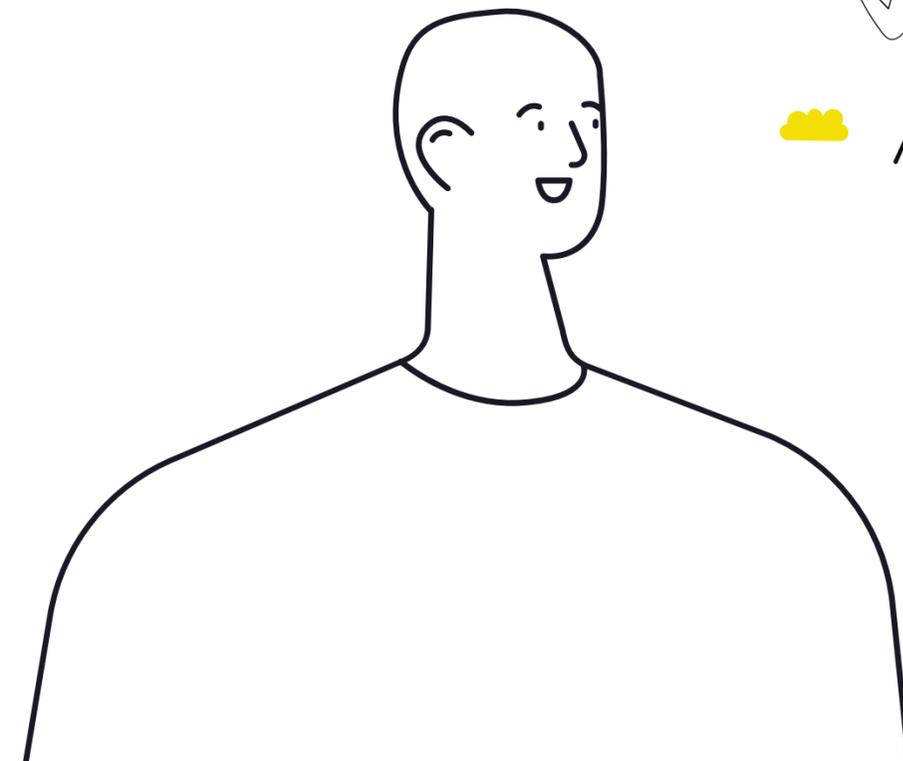


WHY

EO
Data Science



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GEO-GEE PROGRAM

11

TACKLING DEFORESTATION IN COSTA RICA

Home / Our Work / Land degradation / [Tackling deforestation in Costa Rica](#)

HABITAT CONSERVATION AND MONITORING

Home / Our Work / Biodiversity & climate change / [Habitat conservation and monitoring](#)

18 MAY, 2021

GEO-GEE PROJECT: ALGAE BLOOM MONITORING APPLICATION

Home / EO Data Science Blog / [GEO-GEE project: Algae Bloom Monitoring Application](#)

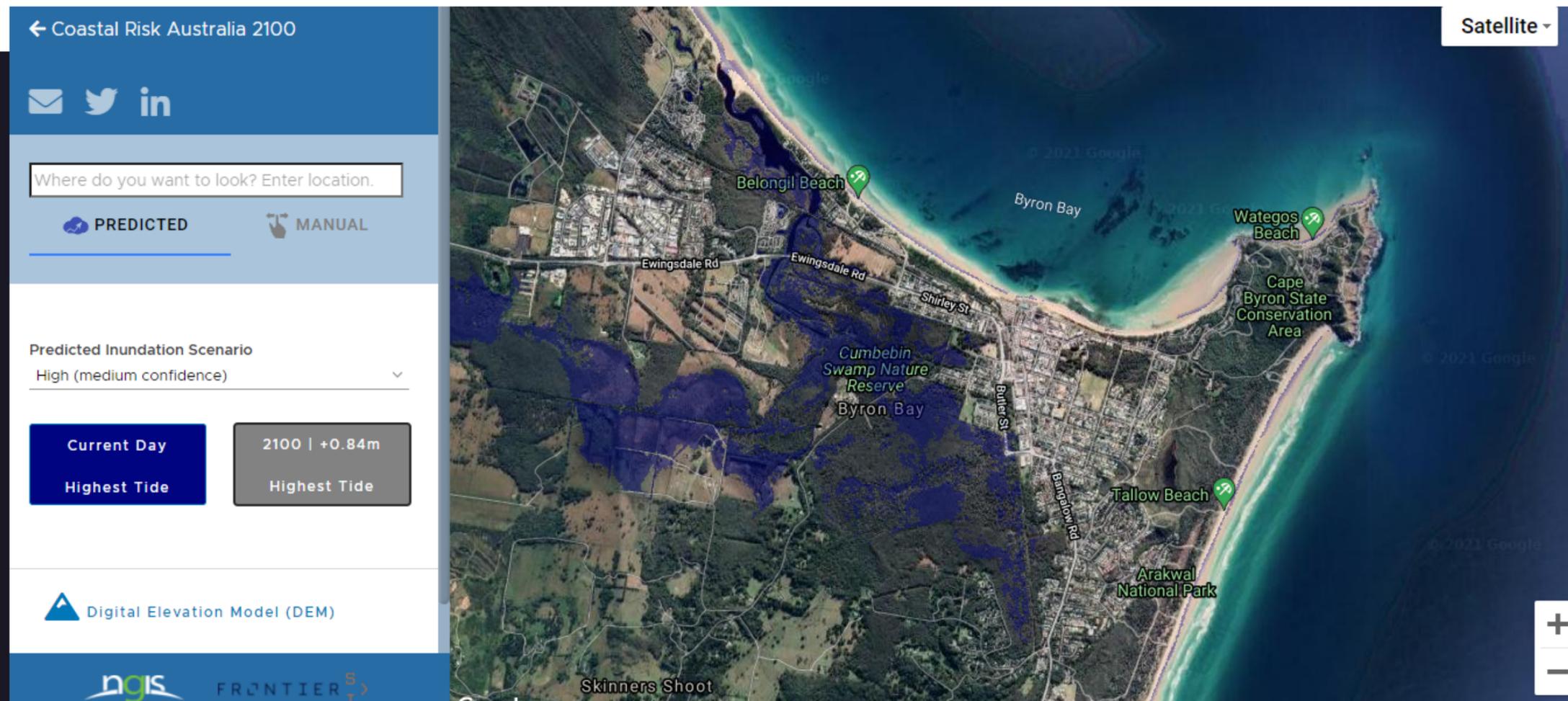
EO Data Science partnered with Google Earth Engine and the Group on Earth Observations to launch the GEO-GEE Program in July 2020. Across 22 countries, 32 projects were selected for the program which offers \$3 million USD towards product licenses and \$1 million USD in technical support from EO Data Science.

LINK TO THE PROGRAM: [HTTPS://EARTHOBSERVATIONS.ORG/ARTICLE.PHP?ID=447](https://earthobservations.org/article.php?id=447)

COASTAL RISK MODEL

NGIS and EO Data Science used Google Earth Engine to process the petabytes of data required to show where inundation is likely in year 2100 due to sea level rise and storm surge. When released, the tool attracted attention nationally with more than 1.5 million views in one day.

LINK : [HTTPS://WWW.COASTALRISK.COM.AU/HOME](https://www.coastalrisk.com.au/home)





**“The earth is what we all have
in common.”**

Wendell Berry

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