EO DATA SCIENCE

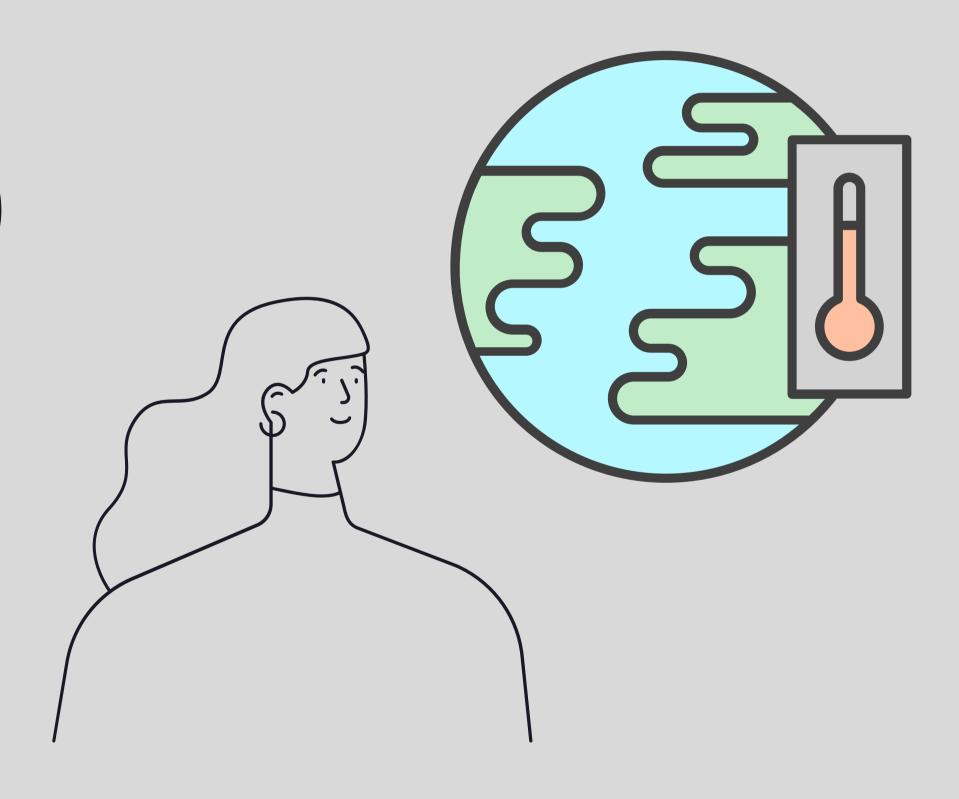
GOOFEENRIH ENGINE

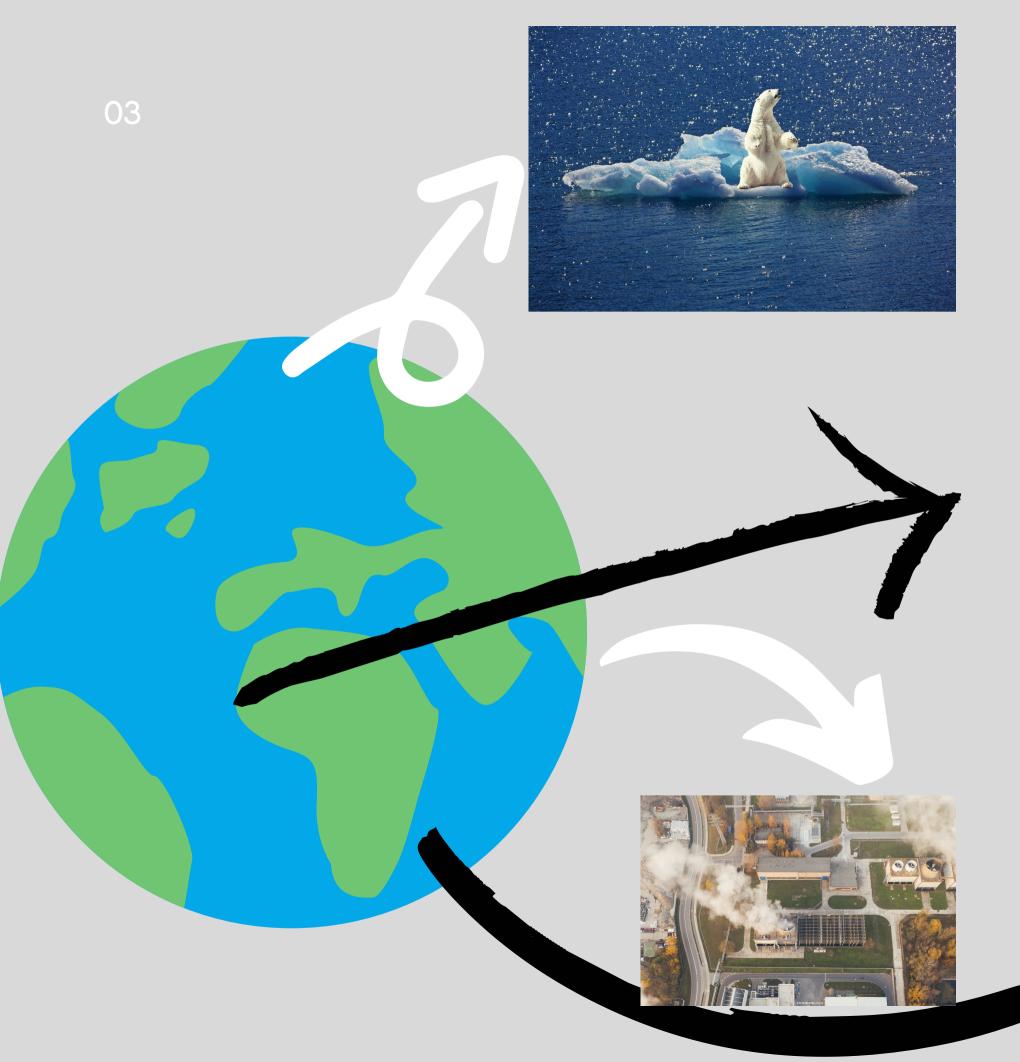
Juan Torres-Batlló





Is there any need of using Earth Observation (EO) data to tackle environmental issues?



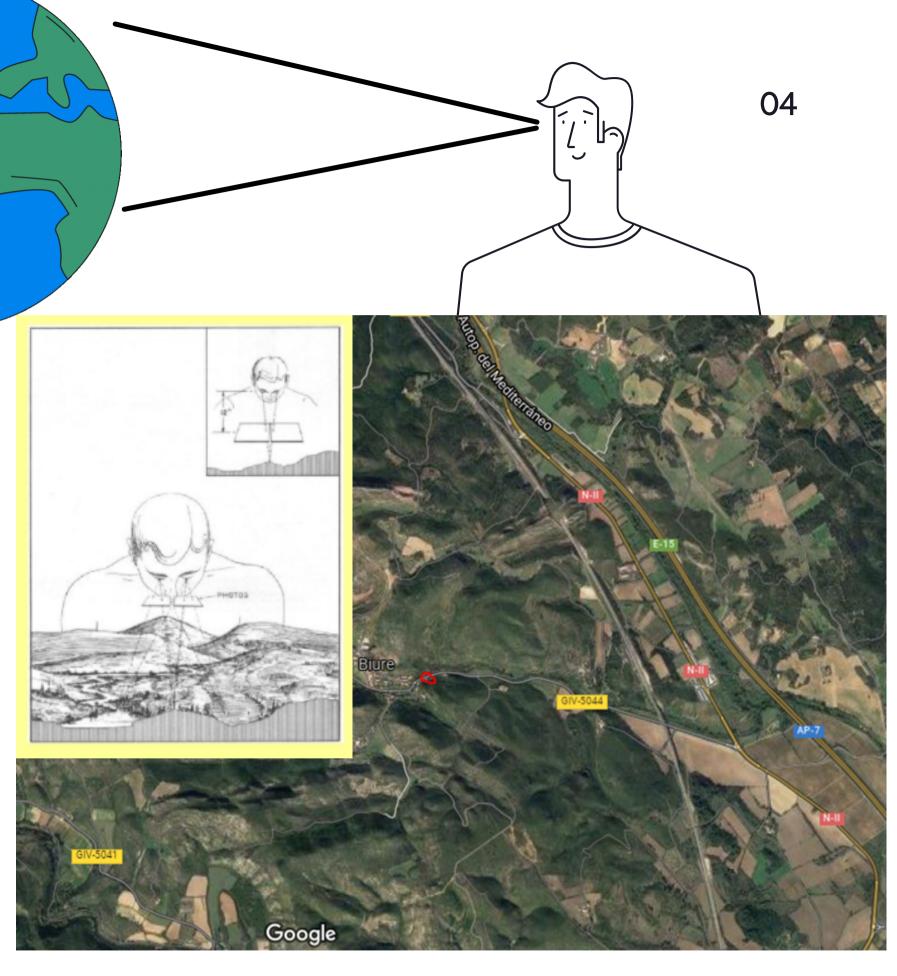






WHY?

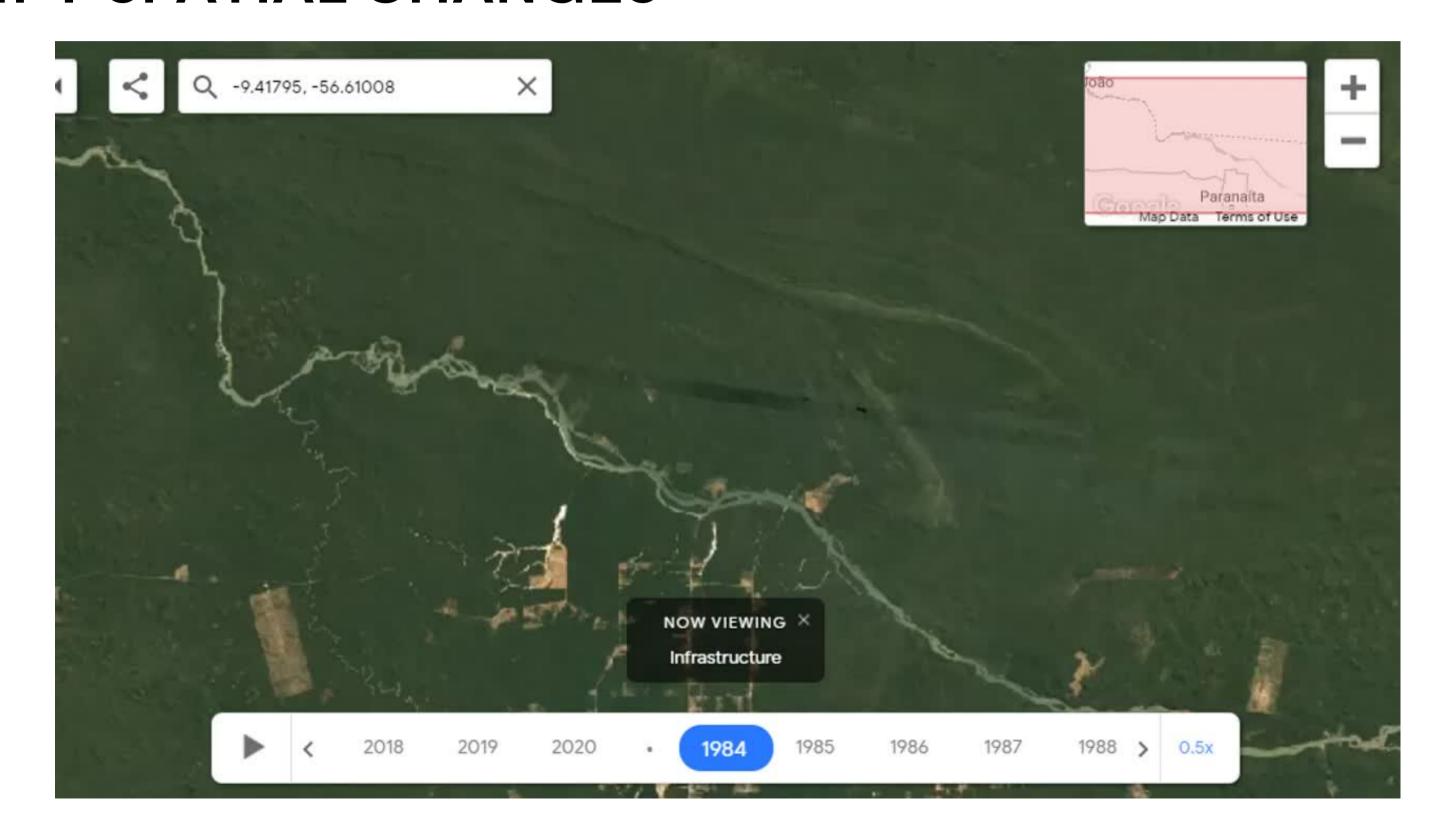






ADVANTAGES OF USING EO DATA TO MONITOR THE EARTH

1. IDENTIFY SPATIAL CHANGES



Region 1

Region 2

Region 3

2. QUANTIFY THOSE CHANGES

Total area

(ha)



HOW?

With platforms such as Google Earth Engine.

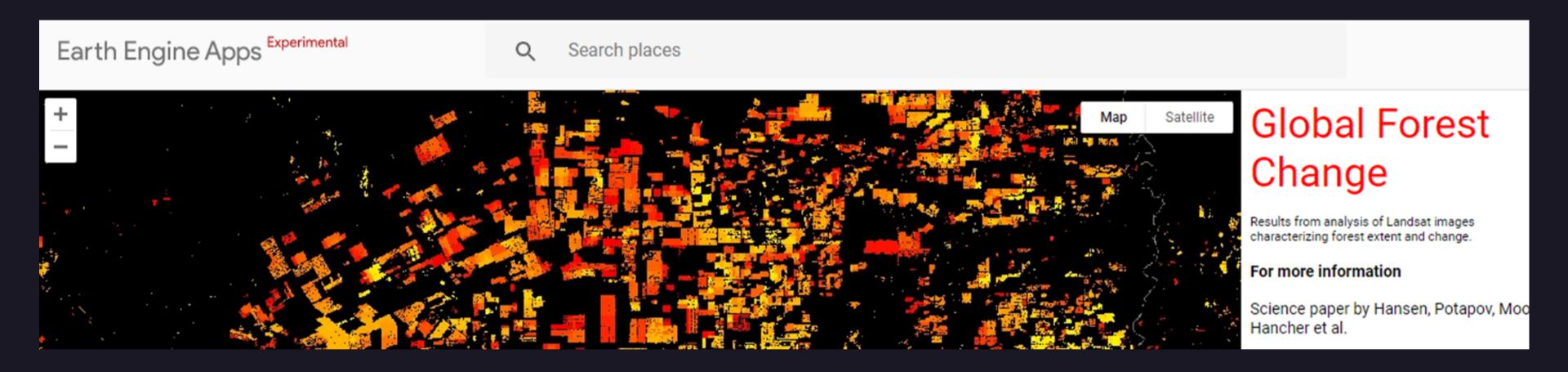
A planetary-scale platform for Earth science data & analysis

Powered by Google's cloud infrastructure



HTTPS://EARTHENGINE.GOOGLE.COM/

LET'S HAVE A LOOK...



LINK TO THE APP: 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.

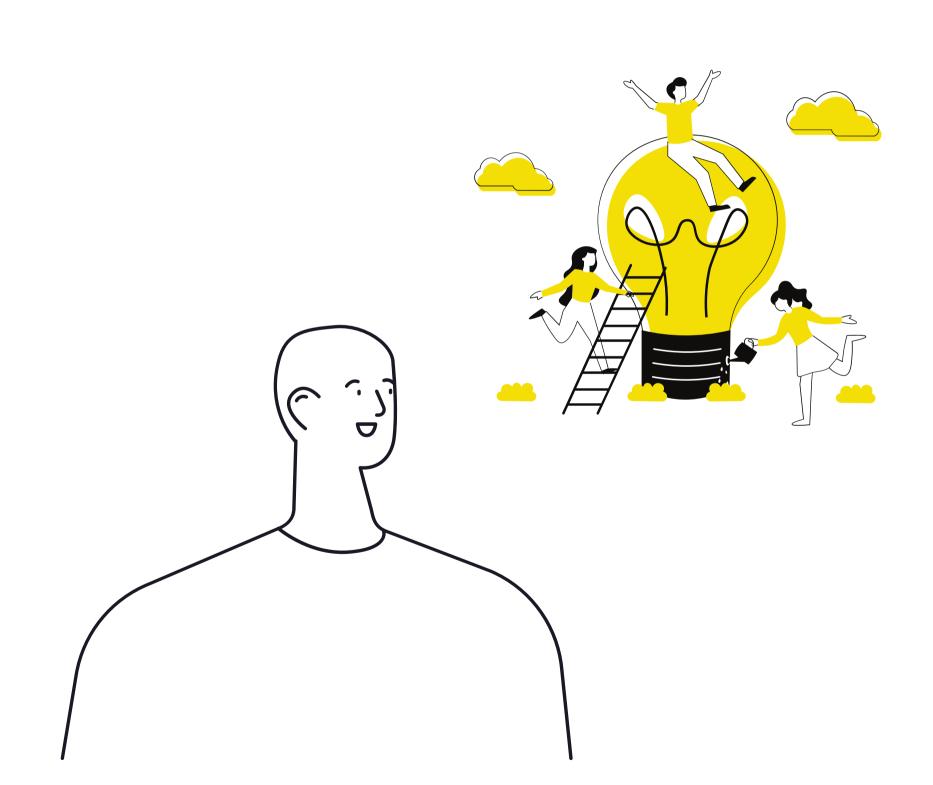


WHY









TACKLING DEFORESTATION IN COSTA RICA Home / Our Work / Land degradation / Tackling deforestation in Costa Rica

RICA

HABITAT CONSERVATION AND MONITORING

Home / Our Work / Biodiversity & climate change / Habitat conservation and monitoring

GEO-GEE PROJECT: ALGAE BLOOM MONITORING APPLICATION

Home / EO Data Science Blog / 950-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.

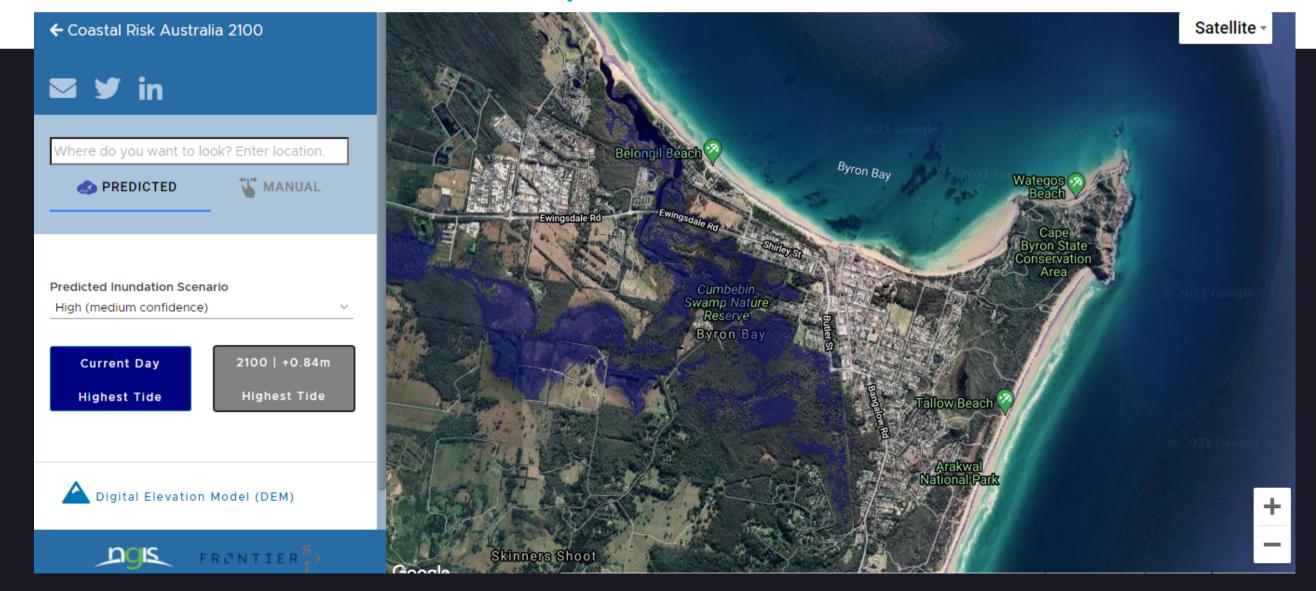
GEO-GEE

PROGRAM

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: <u>HTTPS://WWW.COASTALRISK.COM.AU/HOME</u>



NDPE DASHBOARD

