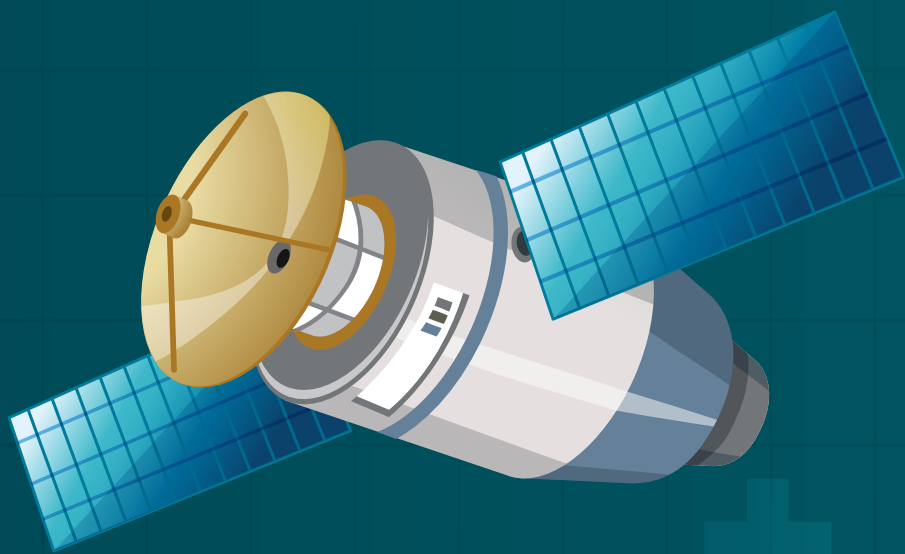


# Top 7 Uses of Geospatial Analysis to Tackle Public Health Challenges

Spatial analysis helps public health departments and NGOs better understand spatial epidemiology.



# High-Resolution Population Density Mapping

Satellite imagery and census datasets are utilized to identify potential problem areas for the population vulnerable to COVID-19.



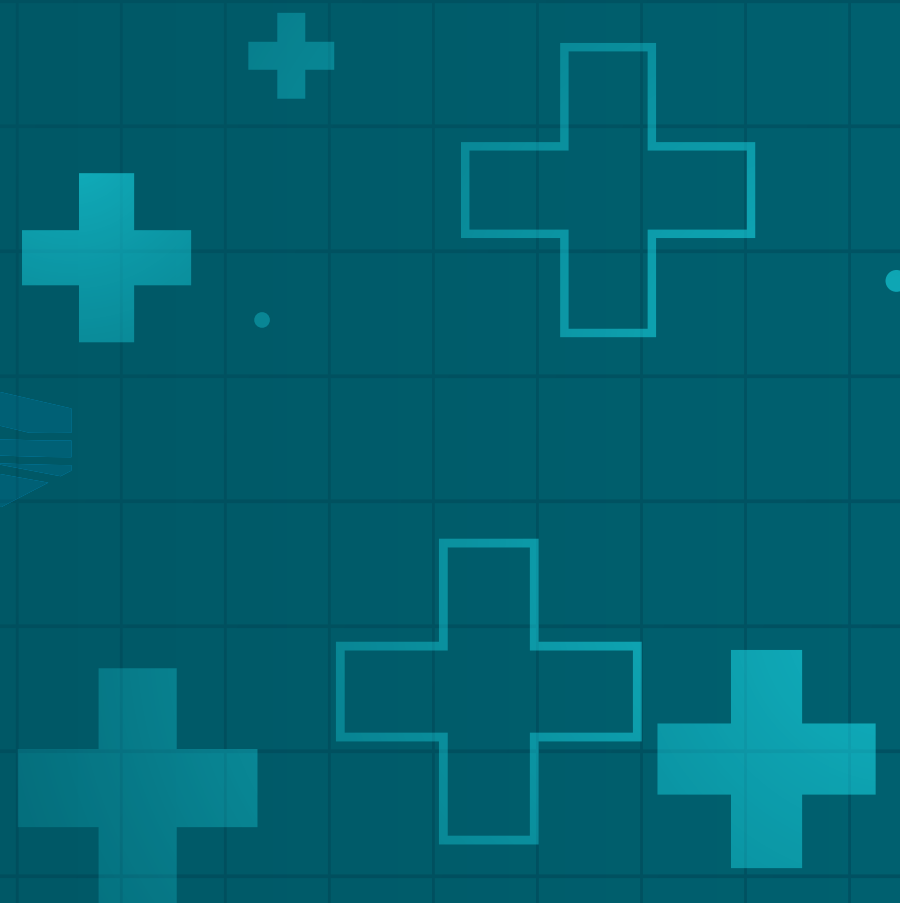
Facebook's Data for Good initiative uses population density maps to create accurate population datasets. It has partnered with CIESIN (Columbia University) to locate buildings available for public use.



# Movement Range Maps

Google captures mobility trends during the COVID-19 pandemic to help public health officials plan data-driven interventions.

Health experts understand how people are responding to social distancing norms by using the location of mobile users who wish to share their location.



# Disease Surveillance and Prediction

Mobile apps enabled with self-diagnosis mechanisms are helping government agencies manage the Covid-19 crisis.

Tracking of symptoms is reducing pressure on healthcare hotlines. It also gives a Spatio-temporal perspective to understand the pandemic.



# Infrastructure Planning

Global funding agencies for development projects use high-resolution maps and other data of interest to analyze accessibility to services like medical facilities in a given geography.

It helps prioritize resource allocation and provide medical facilities through roads without disruptions.



# Urban Resilience

Spatial analysis can help municipalities monitor climate-change events and plan granular level interventions.

Gramener, under a Microsoft AI for Earth grant, partnered with Evergreen, a Canadian non-profit, to build an AI-driven 3D data visualization solution that tracks the effects of climate change and make The City of Calgary urban resilient.



# Natural Disaster Recovery

Geospatial AI can monitor geographic locations at risk of natural disasters, helping governments and non-profits carry out timely evacuations.

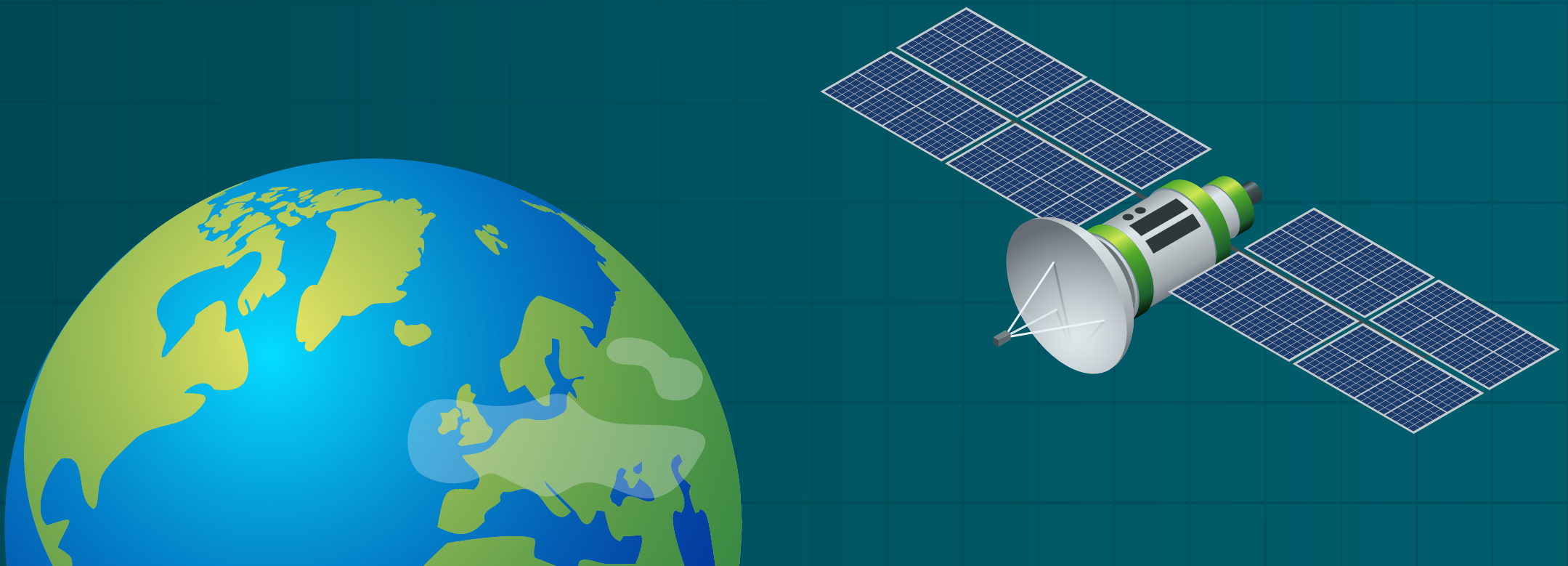
Gramener, in partnership with Microsoft, built a predictive solution for SEEDS, a non-profit, to help them accurately identify the houses which were at high risk during floods and evacuate 1100 families during cyclone Yaas.





# Population Density Mapping for Health Intervention

Gramener, in partnership with Microsoft, developed a solution for the World Mosquito Program to control the spread of mosquito-borne diseases. The Geo AI solution uses satellite imagery data to identify the lab-bred mosquito release points through better site scoping.





**To learn more about Gramener's  
Geo AI offerings, reach us on**

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