9-11-2017

Space Data Industries

Abram Gibson (Pre-Med)
Thomas Jefferson University

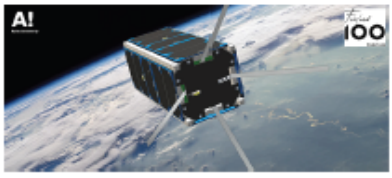
Bruno Jacobsen
Aalto University

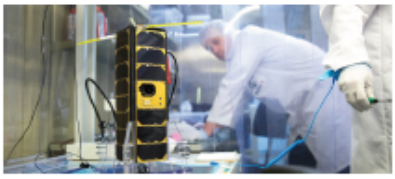
Axel Juslin
Aalto University

Philip Smith (Biology)
Thomas Jefferson University

Introduction

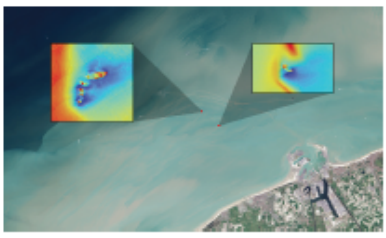
We help government institutions predict, understand, and prepare for refugee migration flows. We do this by providing high quality data analysis from nano-satellite constellations and external data providers.





Method

By consolidating fragmented data repositories on refugee migration trends and utilizing advanced data analytics, we are documenting all migration activities (legal and illegal) into one solution. Also, we are able to accurately predict where help is most needed at any given time.



Process

Space Data Industries is an advanced data provider that consolidates fragmented data repositories regarding migration flows to provide powerful data insights to various institutions. Data will be primarily gathered from Nano-Satellite constellations from Aalto University Satellites and enriched by external data providers, for example, the United Nations for advanced data analysis utilizing predictive algorithms and Artificial Neural Networks (ANNs).

When the data has been accumulated and analysis conducted, Space Data Industries will visualize the data and provide insights to consumers.

Case Studies

REFUGEE

Adnan is a 15-year-old boy from a small town in Syria. Since the war began in 2011, Adnan has been going from camp to camp, until last July, when his father made arrangements for the two of them to flee to Greece.

Just two months before, his younger brother attempted the same journey, but tragically died when their inflatable boat sank and everyone on board drowned.

Adnan was luckier. Since the Greek government purchased Powerful Data Insight Systems from Space Data Industries, they have been able to locate every boat and predict boat movements across the channel with extreme precision. This allowed the Greek Coast Guard to pinpoint the boats exact location and come to its rescue before any accident had a chance to occur.

GOVERNMENT

Last year, the government spent around $780 per refugee, and received almost one million refugees. This means that their total cost was near $1 billion dollars for the Greek government. What's worse, of those $1 billion, about $700 million were considered to have been wasted, according to an official from the EU's Humanitarian Operations Directory.

However, with Space Data Industries' data and predictive capabilities, the Greek government is now able to streamline their operations and efficiently deploy their maritime resources in a cost-effective way. The total expect cost of their operations for 2018 is now $600 million, of which only $70 million are expected to go to waste.