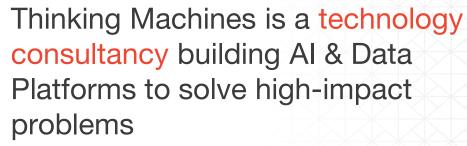


Eco-Intelligence: Harnessing Data Science for Climate-Smart Food Systems







WHAT WE OFFER

Fully customizable enterprise data solutions

- Core Product Solutions
 Data Platforms, Location Intelligence, Document
 Intelligence, Customer Intelligence
- Capable in building enterprise data platforms and customizing Al solutions

SELECT CLIENTS AND PARTNERS





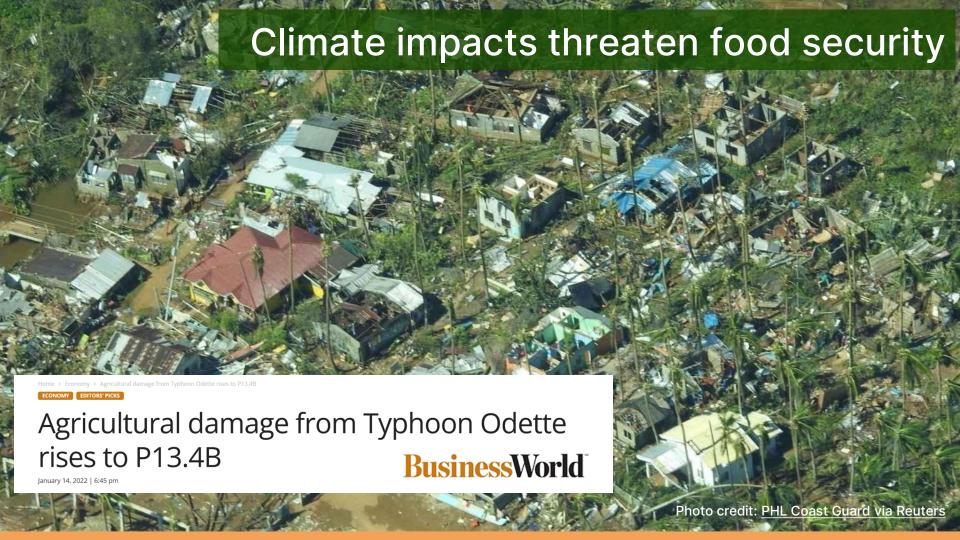














Commentary by Rob McWilliam on 12 March 2021

Climate Smart Agriculture



Increase yield



Lower emissions



Increase resilience





CONSERVATION AGRICULTURE



FARM IRRIGATION EFFICIENCY



FOREST PROTECTION



IMPROVED RICE PRODUCTION



INDIGENOUS PEOPLES' FOREST TENURE



NUTRIENT MANAGEMENT



PEATLAND PROTECTION AND REWETTING



REDUCED FOOD WASTE



REGENERATIVE ANNUAL CROPPING



SUSTAINABLE INTENSIFICATION FOR SMALLHOLDERS



SYSTEM OF RICE INTENSIFICATION



Smart decisions need data









Farmers

Policy-Makers

NGOs

Businesses



Increase yield





Identify interventions that are best suited for different locations and conditions

Estimate carbon stock and emissions Analyze land use, land cover change

Prepare for climate risks Monitor changing climate conditions

ECO-INTELLIGENCE



Eco-Intelligence: Using spatial data science to scale out nature-positive food production

We empower project developers, land owners, policy-makers, businesses, and non-profits with the information they need to implement nature-based solutions, monitor progress, and understand risks.



Country-Wide: Gain a holistic view of conservation or restoration potential at a country or even regional level

Landscape-Scale: Visualize site potential on a granular heatmap of your landscape of interest

Site-Level: Prioritize sites based on success criteria customized to your project design



Analyzing the suitablity of shrimp ponds for Climate-Smart Aquaculture in SEA

We are using **computer vision** and **satellite imagery** to identify fish and shrimp ponds that can be sustainably intensified and partially restored with mangroves across Southeast Asia.



Winner: 2021 Climate Change Al Innovation Grants









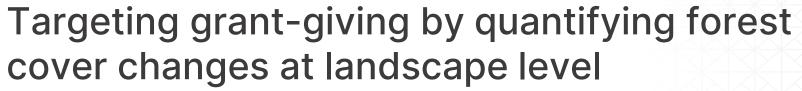
Predicting yields of smallholder rice farmers in Cambodia for ADB

We supported the Asian Development Bank's assessment of agricultural productivity gains from improved irrigation programs. We generated plot-level rice yield estimates for over 67,000 plots of land in Cambodia by training an Al model to predict yield using opensource geospatial data:

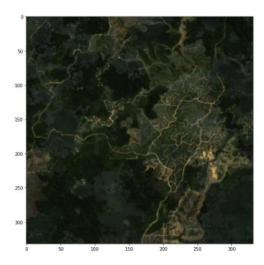


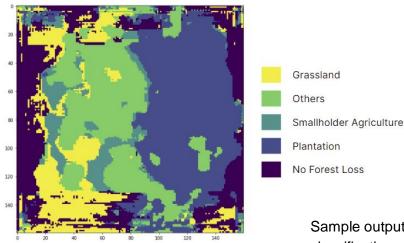


CASE STUDY



The Gerry Roxas Foundation is granting \$16M to CSOs working on ecosystem restoration efforts in 30 bioregions of the Philippines. They want to use data to fund projects that directly address the main deforestation drivers in their areas of concern.





Sample output of deforestation driver classifications for an area in Indonesia, from the methodology of Irvin et al., 2020

Let's chat! Reach out at data-for-good@thinkingmachin.es



Data Stories stories.thinkingmachin.es

Press thinkingmachin.es/press-room



Bangkok | Manila | Singapore