



# Hand-in-Hand Initiative (HIH)



### Support countries to:

Identify and prioritize the biggest opportunities in agriculture and food and bring in investments to reduce poverty, improve food security and nutrition.

60 countries to date, focus on agro food value chain investments.





1. The Geospatial Platform - federated data and analysis

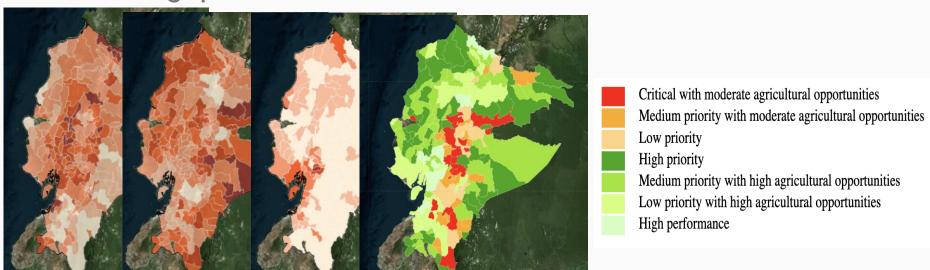
1. The Datalab - data scraping, intelligence, analysis

1. HIH Dashboard - progress and investments



#### Step 1 HIH Agricultural Typology - Stochastic Frontier Analysis

Micro-regional level innovation opportunities, bottlenecks and investment gaps are identified.

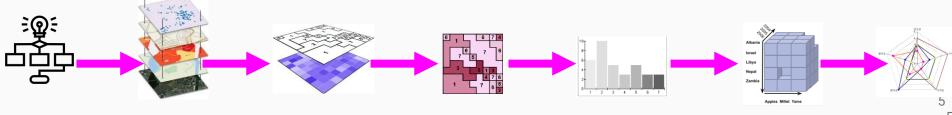




## 1. HIH Geospatial Platform

Integrates many dimensions of reliable, timely, high resolution data to support identifying opportunities, designing interventions, monitoring progress, and evaluating impact.

Soil, Land, Water, Climate, Fisheries, Livestock, Crops, Forestry, Trade, Social and Economics and much more





# Concepts and Types of Data

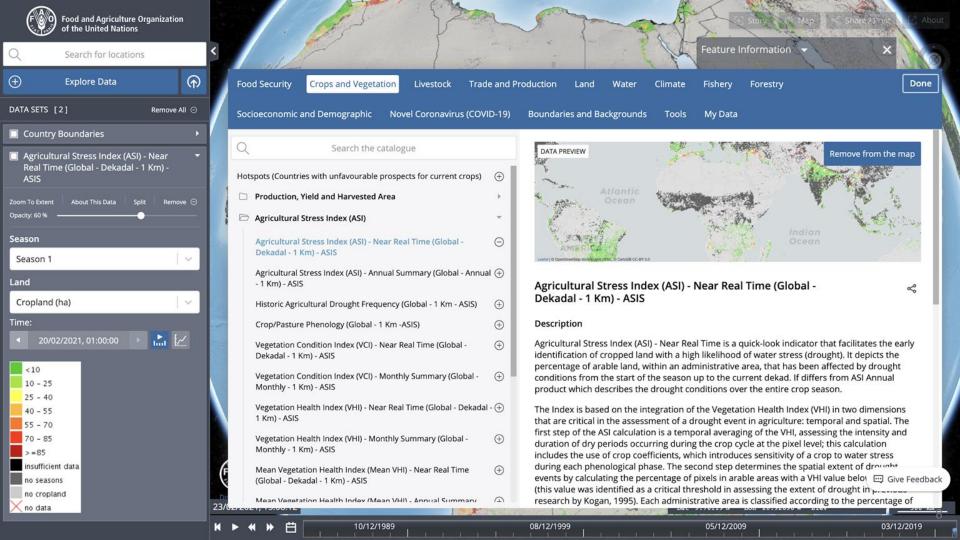
Formats and Interface: Tabular, Raster and Vector Data

Structure: Flat Attribute List / Multi-Dimensional Cube

Federated (Standards) / Ingested (Publish)

Static (Manual) / Stream (Automation)

Observed, Measured, Calculated, Modeled





#### 2. The Data Lab



The Data Lab was created to **fill data gaps** in FAOSTAT and the HiH Initiative by **generating new information and analytics**.

Today, its activities also include:



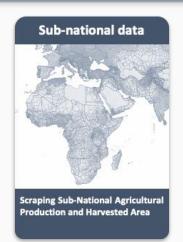
Use of **text mining tools** to generate **quantitative and objective analyses** on **policy and legislation** documents.



Use of advanced Data Science methods applied to non-conventional and social media data to build early warning indicators for anticipatory action.



### 2. The Data Lab for the HiH Initiative



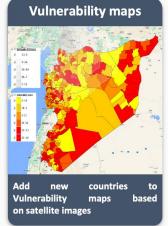
#### Filling data gaps for countries where little data is available

Scraping and collecting agricultural production and harvested data at subnational level using text mining tools

Data is automatically imported into the HiH Geospatial platform

# **Building Vulnerability Maps using satellite imagery and context data**

- Combining socio-economic indicators, household surveys and land data cover to generate vulnerability maps at regional and district level
- Maps are shared with country teams for expert validation





#### 3. Dashboard









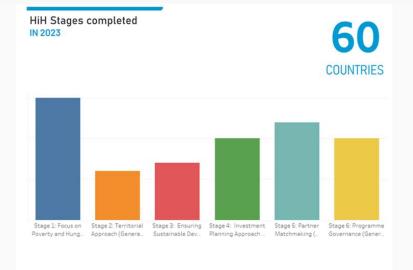


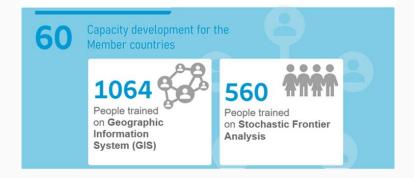


INVESTMENT FORUM IN 2023

#### \$3.0 Billion









# Lessons Learnt and looking forward

- Complexity for some countries necessity for capacity building and support.
- Usefulness and applicability for mobilising large-scale investments, Bangladesh (US\$543 million), Ecuador (US\$45 plus US\$145 pipeline) - opportunities for more and better targeted investments.
- Need national scale data to complement core global data sets verification and country engagement essential for reliability.
- A lot of data is still untapped but every country has a different information base.
- Increased need for sound methods and Artificial Intelligence to exploit the data, identify the nuances and derive early warning signals for anticipatory action.
- Quality data and analysis urgent needed for interventions on food emergencies advance planning.
- M and E long term automation and systems integration planned.
- HIH Investment Forum, October 2023 welcome!