

UK a benefit worth £690 million per year<sup>1</sup>

Insect-borne diseases like
CYD can cause up to 33%
yield loss in barley<sup>2</sup>

Invasive species cost the UK economy £1.7 billion per year<sup>3</sup>

## Webapp features - Summary

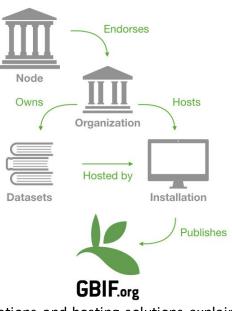
- Identify and map images taken from farmland to relevant matching known (plant/insect/species/pest) species names with time and location (with detailed co-ordinates) stamp
- Store information collected and use to accumulate and monitor movement of species over time in terms of direction, volume/concentration, speed
- This functionality can be used to manage post control in a proactive manner and hence eliminating or at least significantly reducing crop damage and related costs for the farmers.

#### Product & features

- Identify plant species via image recognition
- Retrieve latest scientific data from international databases
- Store and view a map of all your observations
- Analyze invasive species movements over time







# Unique Value Proposition

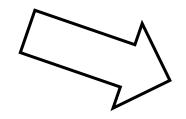
	<u>PlantMap</u>	<u>PictureThis</u> (Glority)	Picture Insect: Bug Identifier (Glority)	<u>iNaturalist</u>	Our app
Species Recognition:					
Plants	Manual <sup>1</sup>	x		Х	X
Insects			x	X	X
Location Mapping	X	Community Sharing	Community Sharing	Community Only	x <sup>2</sup>
Tiers	Basic/Premium	Free/ Subscription	Free/ Subscription		
Desktop	x	x		Х	X
Mobile		x	IOS only		
Actionable  §uggestionand pick clo	sest species from co	ommunity databa	se or add new ent	ry manually	X

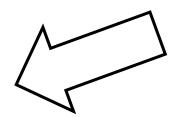
<sup>2 –</sup> Farmland/local level

Farmer surveys field, uploads pictures of what he sees



Farmer makes an informed decision about treatments

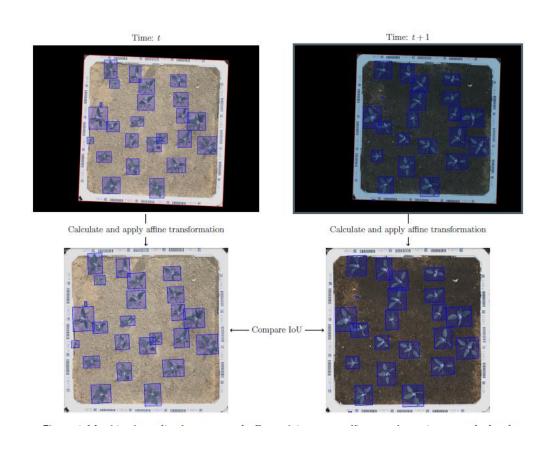


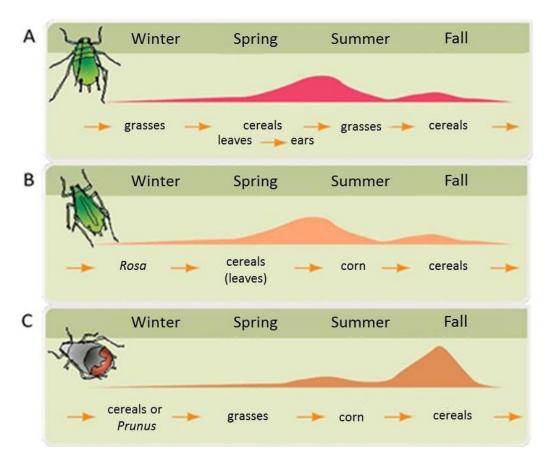


#### FarmSmart

- 1. Stores picture data
- 2. Identifies species
- 3. Extracts and maps geolocation
- 4. Plots metrics
  - Classification (Friend vs Pest)
  - Abundance
  - Change through time

## Screenshots





### Market and Future Directions

• Precision agriculture

## Existing Tech

- Tools to identify species
  - Glority (www.glority.com)
  - PictureThis (www.picturethisai.com)

- Tools to learn about pests
  - Croprotect (croprotect.com)
  - CABI's Plantwise Factsheets Library (www.cabi.org/isc/datasheet)

