

# HOW CIBO FORECASTS CROP YIELD FOR **AN ENTIRE REGION**

Only CIBO uses an intricate, multi-step process to forecast crop yield for an entire region (like the Corn Belt).

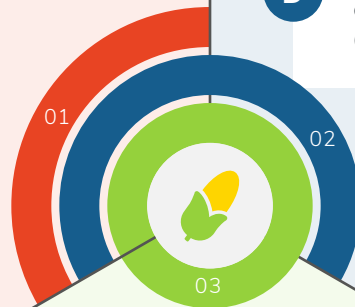
## CIBO builds a profile of a “typical” farming scenario for each field.

- A** Identifies every county in the U.S. that has a significant acreage of a particular crop.
- B** Samples fields within each county where that crop has been grown.
- C** Uses publicly available data to gain insight into a field’s soil composition based upon its location.
- D** Infers which crop rotations, planting dates, cultivars/maturity groups, fertilizer regimes, irrigation and other management practices are typically used in this location.

## CIBO blends observed weather data with state-of-the-art seasonal predictions

to simulate a range of possible weather scenarios for the upcoming year’s growing season.

- A** Combines the range of weather forecasts for each field with the typical farming scenario and feeds that information into CIBO’s simulator.
- B** Calculates a collection of possible outcomes for each field.
- C** Combines these possible outcomes across the sample of fields in a county to obtain a composite prediction, NOT the average, of likely yields for the whole county.
- D** Repeats this process for each county and crop to produce the national maps featured in CIBO forecasts.



## CIBO repeats the process again & again.

Creates new yield forecasts as weather forecasts are replaced with actual weather observations.

## CIBO ALSO USES REMOTE SENSING TECHNOLOGY!

Remote sensing technology also enables CIBO to understand—for example—how crop maturity is progressing, how actual planting dates compare to projected planting dates, and how many acres are lost to adverse conditions.

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