# FERTILIZER

FERTILIZERS are one of the greatest drivers of crop yield growth around the world. By adding essential nutrients to the soil, fertilizers can enhance the yield and quality of harvests.

### A LONG HISTORY

European farmers applied the first fertilizers, made from manure, **6000 years ago**, and have been using them to improve harvests ever since.

## **ORGANIC & SYNTHETIC**

Organic fertilizers are typically farm waste products like manure and peat, while synthetic fertilizers are developed by researchers to provide precise nutrient levels.

#### **HOW IT WORKS**

Think of fertilizers as **healthy plant food**. Just like vitamins for people, fertilizers provide extra levels of essential nutrients like nitrogen, phosphorous and potassium so plants can grow faster, heartier and healthier.



### INNOVATION DRIVES AGRICULTURE



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- <sup>1</sup> Smith EG, Knutson RD, Taylor CR, Penson JB (1990) *Impact of chemical use reduction on cropyields and costs.* Texas A&M University, Dep. of Agric. Econ., Agric. and Food Policy Center, College Station.
- <sup>2</sup> International Food Policy Research Institute, *Agritech Toolbox*, http://apps.harvestchoice.org/agritech-toolbox