
Agriculture Overview:

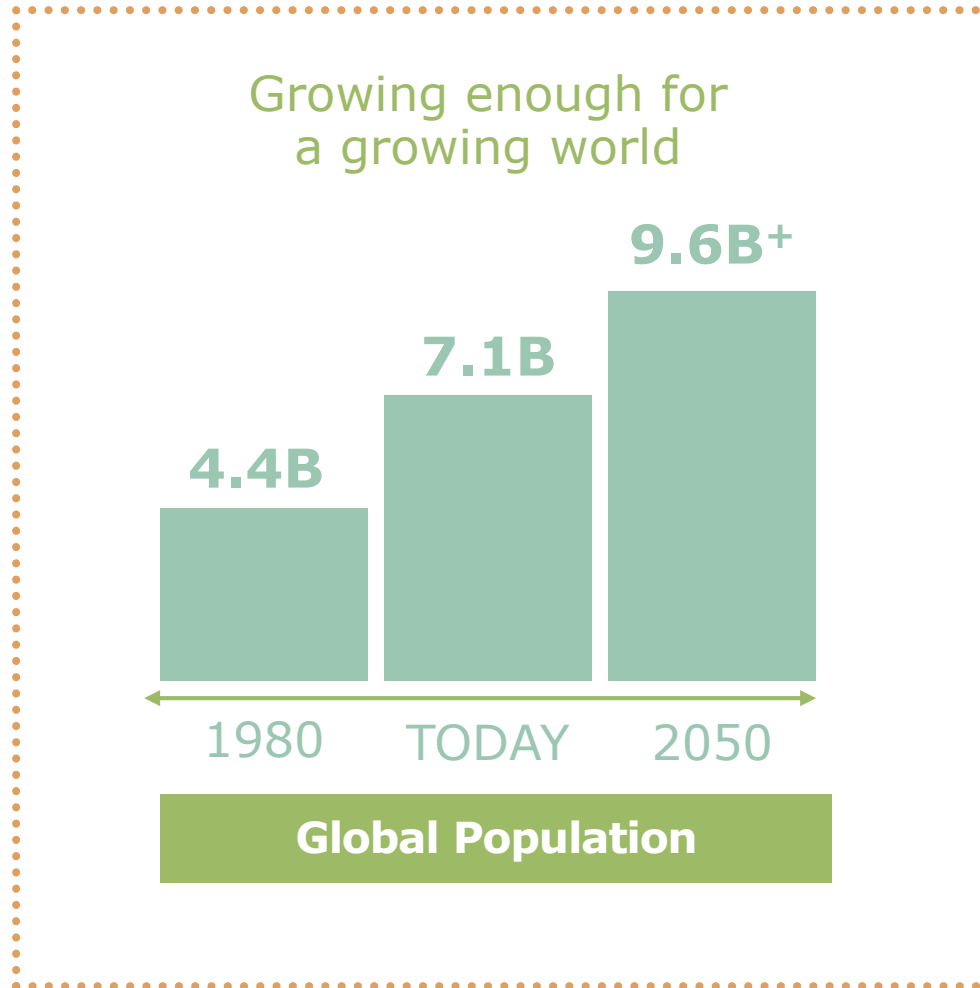
MODERN FARMING



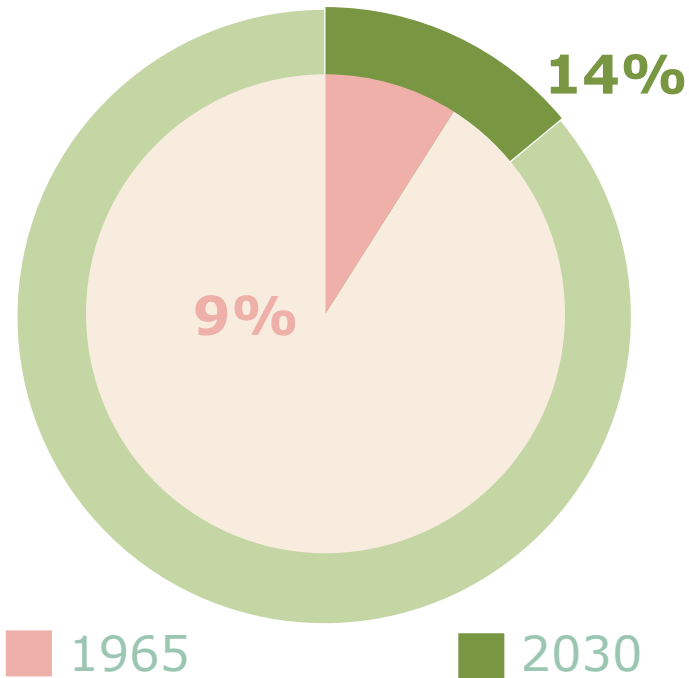
Our Planet Faces Real Challenges



Rising Population



Changing Economies and Diets



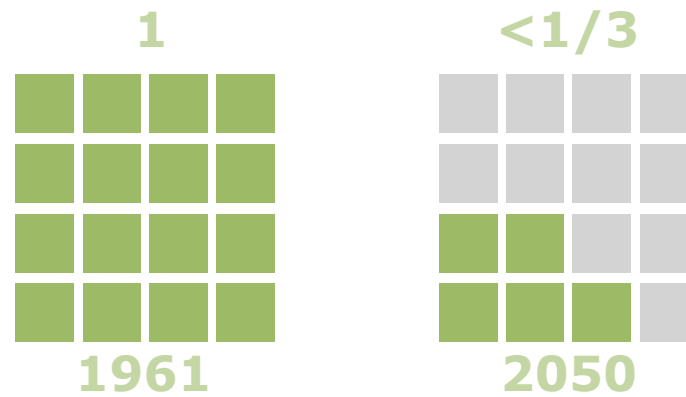
Dietary Percentage of Protein

A growing global middle class is choosing animal protein – meat, eggs, and dairy – as a larger part of their diet



Limited Farmland

Farmers will need to produce enough food with fewer resources to support our world population



Acres Per Person



Changing Climate



**Farmers are impacted
by climate change
in many ways:**

WATER AVAILABILITY ISSUES

**INCREASINGLY
UNPREDICTABLE WEATHER**

INSECT RANGE EXPANSION

WEED PRESSURE CHANGES

CROP DISEASE INCREASES

PLANTING ZONE SHIFTS



A Broad Range of Solutions



Collaborative Innovation

Making a **balanced meal** accessible for **everyone**, and doing it in a **sustainable way** requires a wide range of **ideas** and **resources**



Protection from Weeds, Insects and Diseases

At any stage, plants are threatened by weeds, insects and diseases.

Scientists and farmers look at the issues that might affect future crop growth and create solutions to help protect plant health and minimize environmental impact.



Solutions for Sustainable Agriculture

Precision Agriculture

Plant Breeding

Biotechnology

Microbials

Crop Protection



Precision Agriculture Helps Farmers Manage Multiple Decisions Every Season

Farmer considerations:

PLANNING	PRE-PLANTING	PLANTING	IN-SEASON	HARVEST
General Farm Planning	Pre-Plant Irrigation	Seed Depth	Keep Stand or Re-Plant	Weed Control
Weed Control Program	Fertility Program	Planting Speed Through the Field	Post-Emergent Herbicide Application	Insect Control
Row Spacing	pH Management	Other Planting Operation Decisions	Foliar Insect Control	Disease Control
Variety/Hybrid Selection	Burn-Down Program	Starter Fertilizer	Fertility Program	
Refuge Options	Tillage Level	Herbicide Application	Foliar Disease Control	
Plant Population	Primary Tillage Program	Soil Insecticides	Irrigation Application	
Seed Treatment		Fungicide Application In-Furrow		
Soil Insecticides				



Innovators in agriculture are responsibly discovering ways to increase production and quality of crops while reducing inputs and maximizing sustainability



Presenter Notes

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