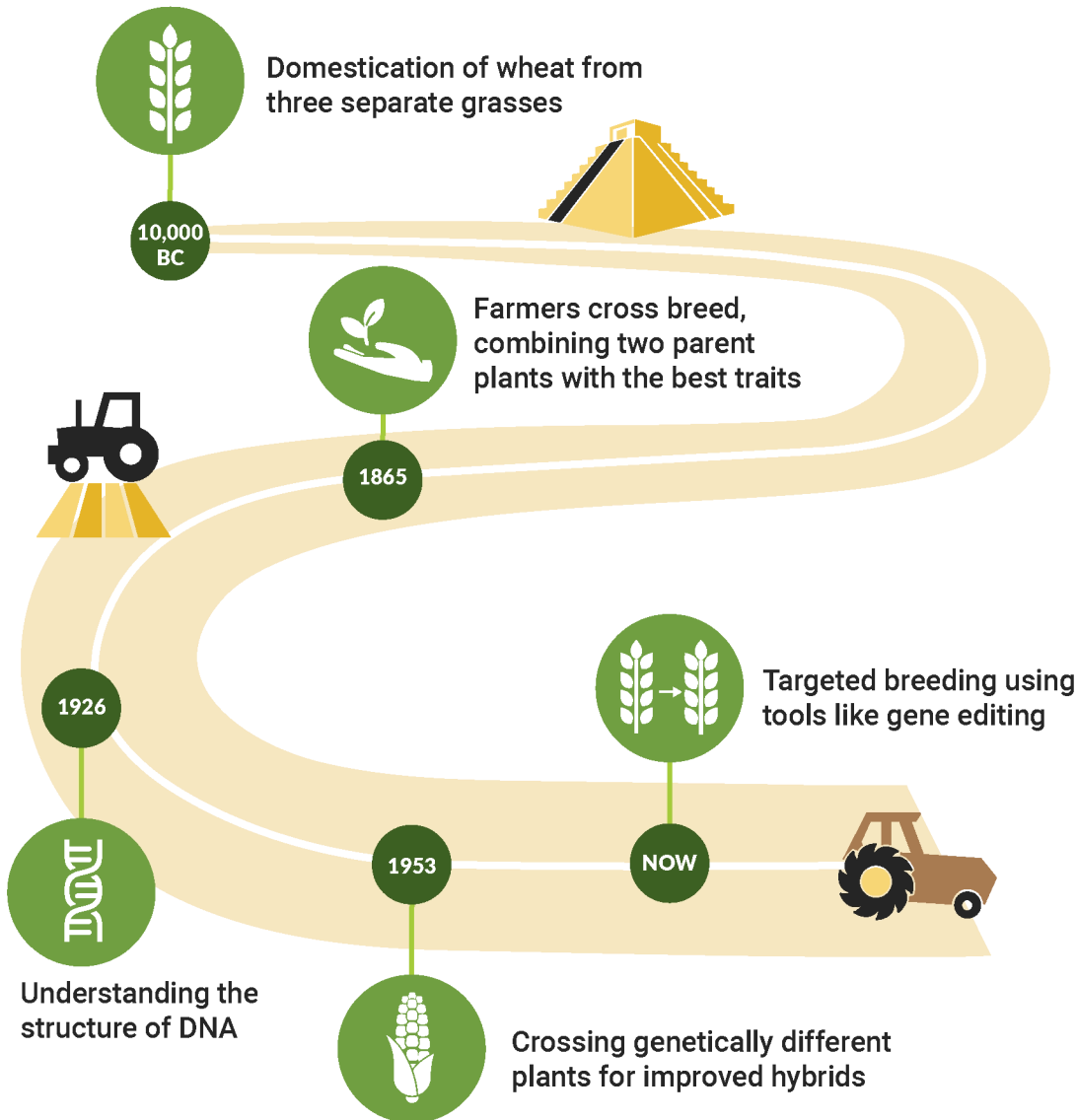


Plant Breeding Innovation

Building on the Long History of Farming Innovation

For centuries, farmers have used the best available science to improve upon and create new crop varieties. Historically, these traditional breeding techniques took many generations for noticeable change.



FACTS

For **10,000 YEARS**, farmers and breeders have been developing and improving crops

For **150 YEARS**, plant scientists and breeders have improved plant breeding on a scientific basis

Today, farmers feed at least **10 TIMES** more people using the same amount of land as 100 years ago

By 2050, we will need **50% MORE** food to feed a population of 11 billion

Gene Editing

Gene editing involves the small, controlled changes of DNA within a living organism to improve its health and sustainability. Across the world, scientists are using this technique to help solve a wide range of challenges related to human health and nutrition, environmental stewardship and food insecurity.



often mirrors changes that occur in nature or through traditional breeding



helps farmers keep pace with the growing demand for more and better food