

# Change for the Better: GMOs



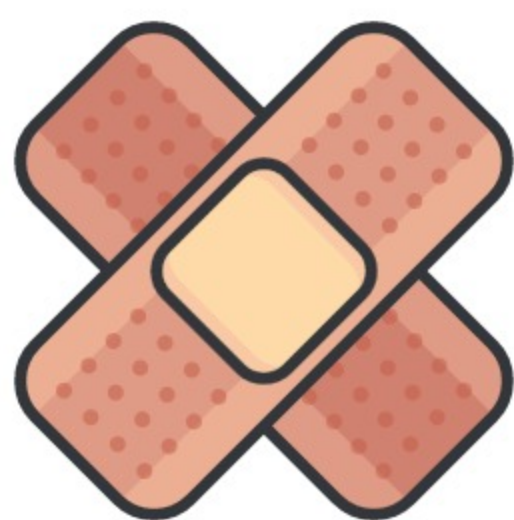
## WALLET FRIENDLY

Because crop losses are reduced, farmers make a greater profit and consumers pay less.<sup>4</sup>



## GLOBAL BENEFITS

Rich in beta-carotene, golden rice has helped combat Vitamin A deficiency, the leading cause of preventable blindness in kids.<sup>3</sup>



## HELPING HAND

Tobacco plants have been genetically engineered to produce collagen, a human skin protein.<sup>5</sup>



Collagen plays a major role in wound healing of skin and other connective tissues. This holds great promise for the field of medicine, especially surgery.<sup>5</sup>



The shelf life of tomatoes can increase by more than 14 days. Genetic alterations inhibit the gene that promotes breakdown of the cell wall.<sup>6</sup>

# 14



Vitamin A deficiency affects 250 million children under five years old. Nearly one-third of the resulting deaths can be prevented.<sup>3</sup>



## SAFETY FIRST

GMO products are tested frequently and it may take up to 10 years before they are approved for grocery shelves.<sup>4</sup>

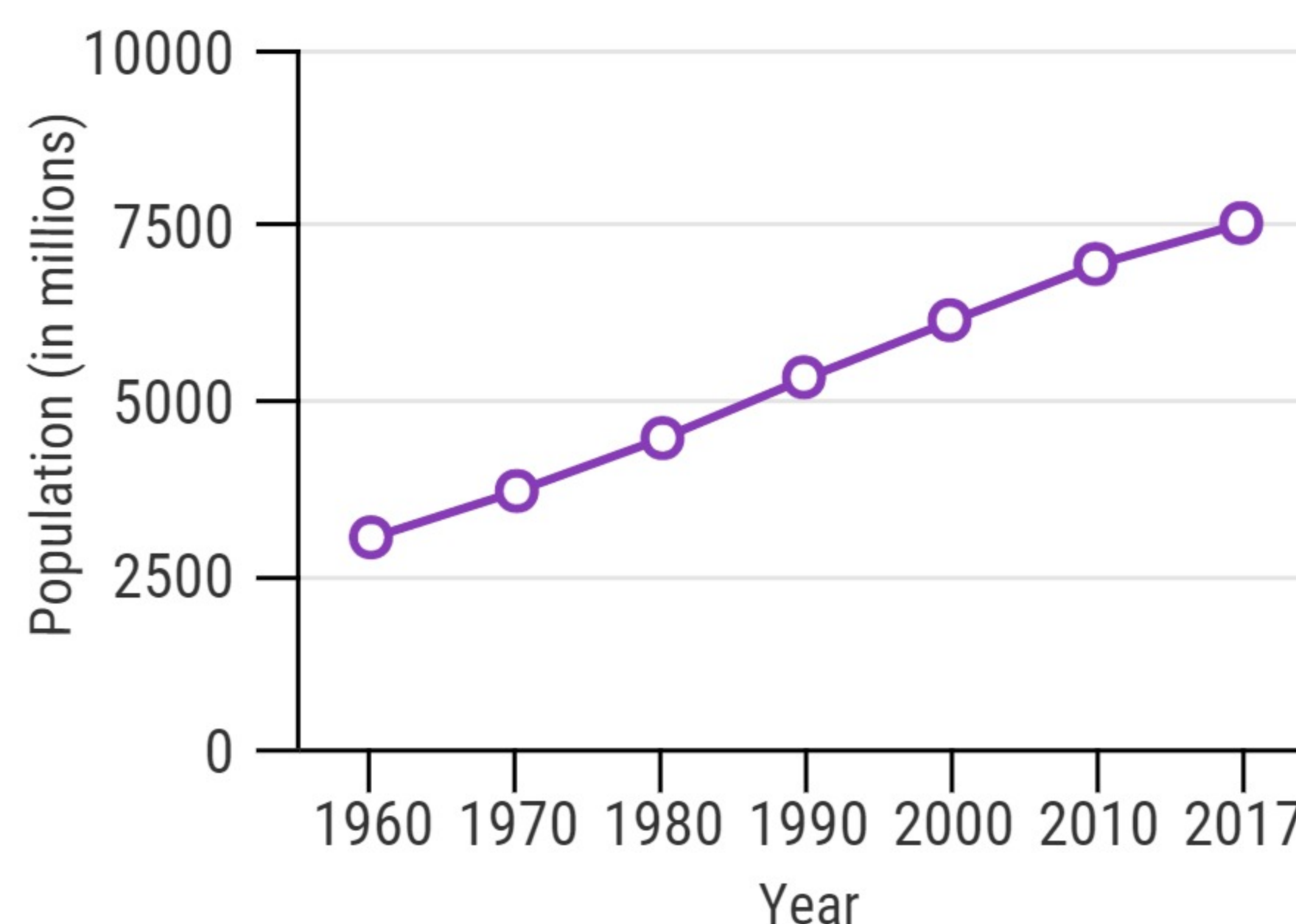


## CLEANER AIR

GMO crops result in decreased greenhouse gas emissions. With the greater yield of GMOs, less land is converted to crop land, meaning less carbon is released into the air.<sup>2</sup>

## WASTE NO MORE

Every year, the U.S. discards up to 45% of its fruits and vegetables because of browning and the decline of visual appearance.<sup>1</sup>



## A GROWING WORLD

With a constantly growing population to feed, and less crop land available because of urbanization, GMOs are a great option to help meet the food demand.<sup>7</sup>



## HAPPY OCEANS

Because of the added insect resistance of GMOs, pesticide use drops, leading to cleaner waterways.<sup>4</sup>

### Sources:

1. Goldenberg, S. (2016)

4. Phillips, T. (2008)

7. <http://www.worldometers.info/world-population/>

2. Mahaffey H, et al. (2016)

5. Shoseyov, O, et al. (2013)

3. Mayer, J. [www.goldenrice.org](http://www.goldenrice.org)

6. Uluisik, S, et al. (2016)