

First ever maize genomes mapped

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Delivering results in under a week for each genome, the platform has constructed very detailed and highly accurate assemblies that have led to the discovery of new genes.

Previous attempts at mapping took months and years.

The platform is proven to allow quick and accurate re-construction of reference genomes for even the most complex genomes like maize, wheat, and other crops critical to the world's food supply.

As reference genomes are vital tools in the discovery of the optimal genetic makeup of crops, DeNovoMAGIC's speed and accuracy now allows reference genome reconstruction to be a common practice in crop research and seed industry R&D.

"Global food scarcity means that plant geneticists and breeders must produce better seeds much faster," said Dr Gil Ronen, NRGene's CEO. "Our genomic big data DeNovoMAGIC technology is already supporting them with the precise and relevant data required to boost their research toward gaining heartier yields."

NRGene's genomic big data technology can quickly and efficiently produce more than 20 complex reference genomes a month, meaning its DeNovoMAGIC solution can triple the world's plant reference genome collection within a single year.