

Focus

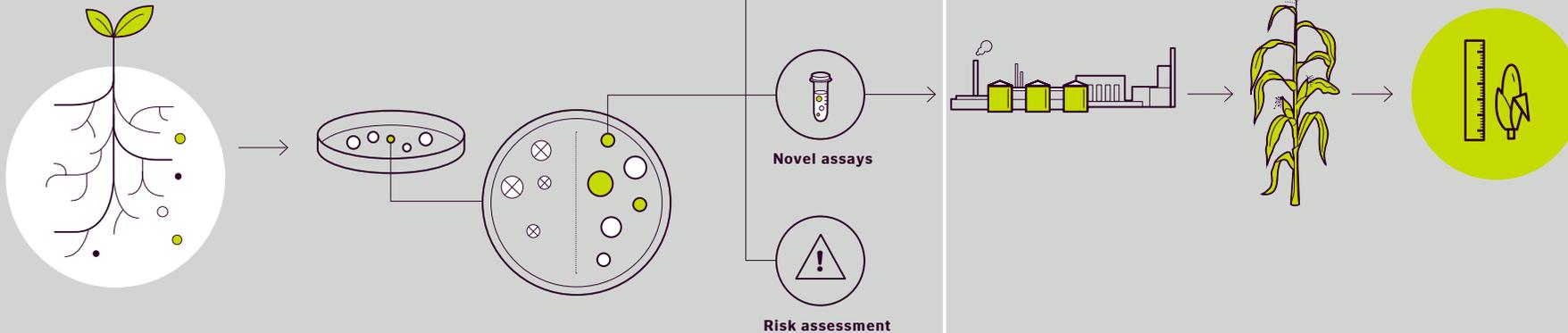
The BioAg Alliance

Novozymes entered into The BioAg Alliance with Monsanto in February 2014 to research, develop and commercialize sustainable biological solutions that use natural, non-GMO-derived microbial technology to significantly increase the productivity of the world's crops. Our current product portfolio includes inoculants, which help plants take up nutrients, and biocontrol products, which protect plants against pests and disease. The BioAg Alliance combines Novozymes' expertise in discovering, developing and producing microorganisms with Monsanto's discovery capabilities, field testing and market reach. The BioAg Alliance is now open for business and looking to incense and outlicense strains.

The BioAg Alliance targets 250-500 million acres by 2025
 In November 2015, Monsanto and Novozymes announced a new 2025 acreage target. The two partners in The BioAg Alliance are dedicated to catalyzing the development of new microbial solutions to transform global agriculture and envision that their products will be used on 250-500 million acres globally by 2025, equivalent to 25-50% of all U.S. farmland. Today, the Alliance's products are used on around 65 million acres.

Microbial discovery

The BioAg Alliance runs a microbial discovery process as illustrated here. When this process is complete, the selected microorganisms go through further testing and then fermentation scale-up before commercialization.



1 Collect
 Soil samples are collected from targeted fields by agronomists. A tablespoon of soil can contain up to 50 billion microorganisms.

2 Grow
 From these samples, thousands of microorganisms are grown in special media and under special conditions.

3 Identify
 Pure colonies of the isolated microorganisms are DNA-sequenced, identified, characterized and classified.

4 Assess
 Novel laboratory tests are developed to screen the identified microorganisms for their potential benefits.

5 Produce
 Beneficial microorganisms are then fermented and formulated.

6 Test
 In 2015, more than 2,000 microbial strains were tested across 500,000 field trial plots in more than 50 locations in the U.S.

7 Measure
 The top new microorganisms in the 2015 research program increased corn and soy yields by 4-5 and 1.5 bushels per acre respectively.

8 Commercialize
 Global commercial reach across crops, brands and geographies.