



Science For A Better Life

Innovitation !

April, 2017 – Amsterdam – An Michiels

Global trends in Agriculture





We need a new revolution in Agriculture



A holistic approach where stakeholders in agriculture unite to achieve a more sustainable way of growing crops, at the quantities we need to help advance world food security.

Leading innovation

...helping address the key challenges of modern agriculture through new solutions

Enabling farmers big and small ... providing them with tools, technology and training to thrive economically in the long-term



Driving a sustainable intensification of agriculture ...helping to raise both productivity and environmental compatibility



Enhancing human health ...improving the nutritional value of certain crops and contributing to a healthy food supply

Extending partnerships ...leveraging the potential of collaboration in modern, sustainable agriculture



Bayer Crop Science is in an unique position to deliver next generation products



Next generation products in Vegetable Seeds





Exercise I : Connect the six boxes without crossing any lines





Exercise I







How we foster Innovation in Vegetable Seeds ?



Experimentation





Experimentation



Targeted Genome Optimization

Technology:

Targeted optimization of crop and microbial genomes, e.g., by genome editing, optimizing simultaneously multiple genes directly or by grouping desired genes

Benefit:

More effective, faster and cheaper development of products with the desired profile



CLS – Computational LifeSciences

Technology:

- Integration and analysis of data from a broad range of sources and experiments
- Computer models and simulations to supplement lab tests

Benefit:

- Generate innovative insights and improve the quality of findings
- Increased efficiency of the screening approach and shortened timelines

Exercise II







How to foster Innovation in Vegetable Seeds ?



Innovitation



Urban farming enabled by modern technologies...



Innovitation







How we foster Innovation in Vegetable Seeds ?

