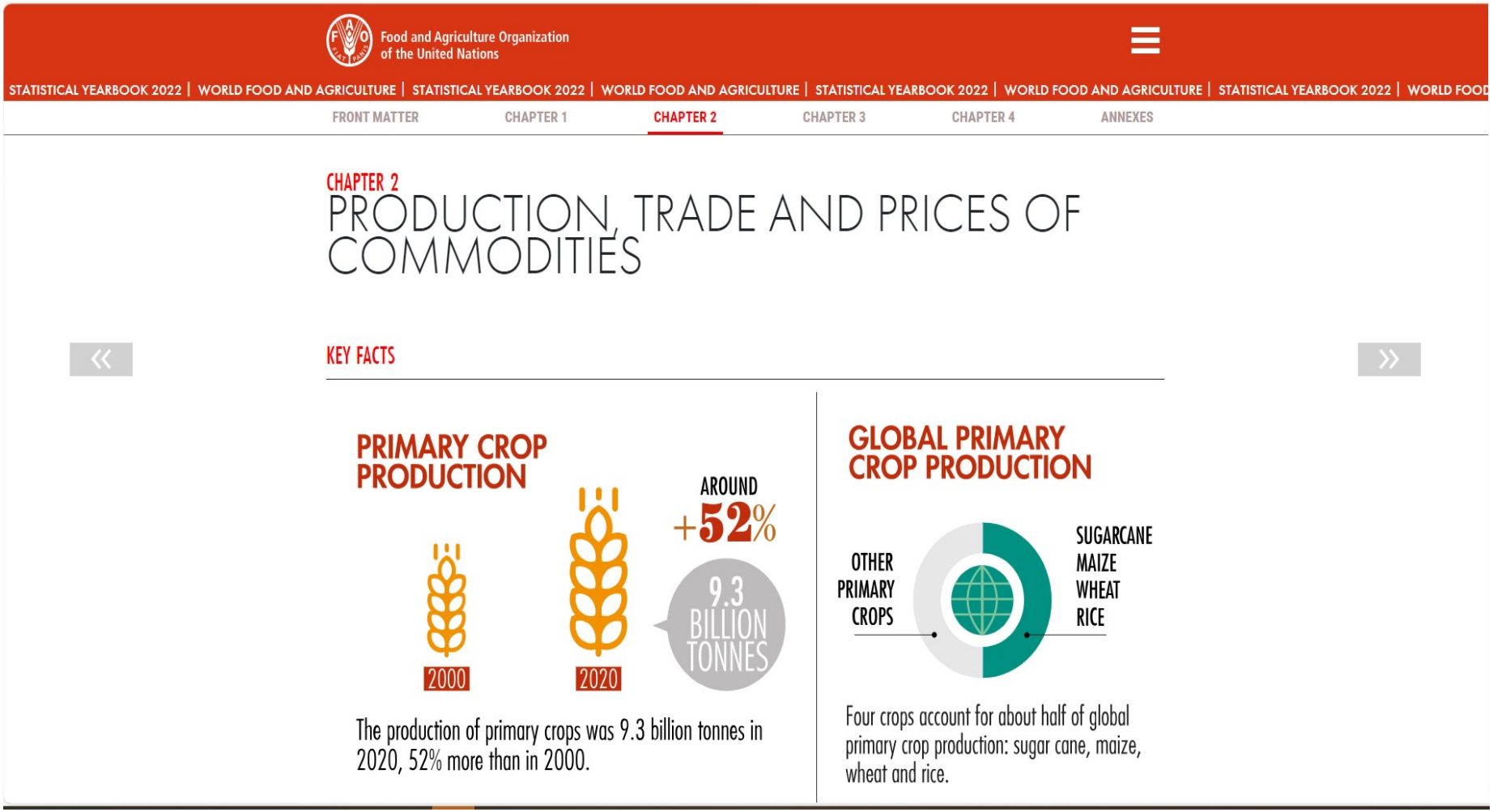


Oplemenjivanje kukuruza

Porast proizvodnje žitarica u svetu



Food and Agriculture Organization of the United Nations

STATISTICAL YEARBOOK 2022 | WORLD FOOD AND AGRICULTURE | STATISTICAL YEARBOOK 2022 | WORLD FOOD AND AGRICULTURE | STATISTICAL YEARBOOK 2022 | WORLD FOOD AND AGRICULTURE | STATISTICAL YEARBOOK 2022 | WORLD FOOD

FRONT MATTER | CHAPTER 1 | CHAPTER 2 | CHAPTER 3 | CHAPTER 4 | ANNEXES

CHAPTER 2

PRODUCTION, TRADE AND PRICES OF COMMODITIES

KEY FACTS

PRIMARY CROP PRODUCTION

2000

2020

AROUND +52%

9.3 BILLION TONNES

The production of primary crops was 9.3 billion tonnes in 2020, 52% more than in 2000.

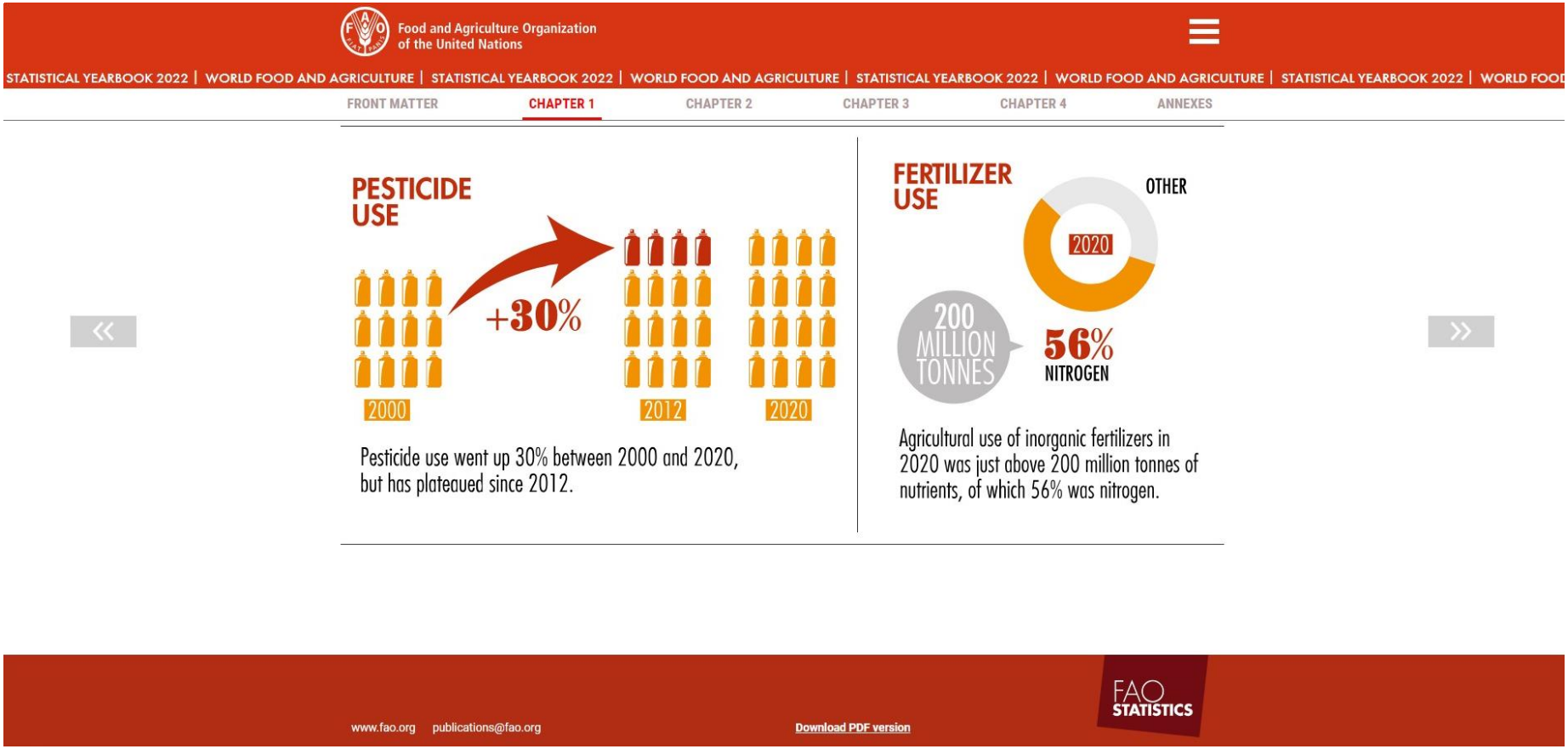
GLOBAL PRIMARY CROP PRODUCTION

OTHER PRIMARY CROPS

SUGARCANE
MAIZE
WHEAT
RICE

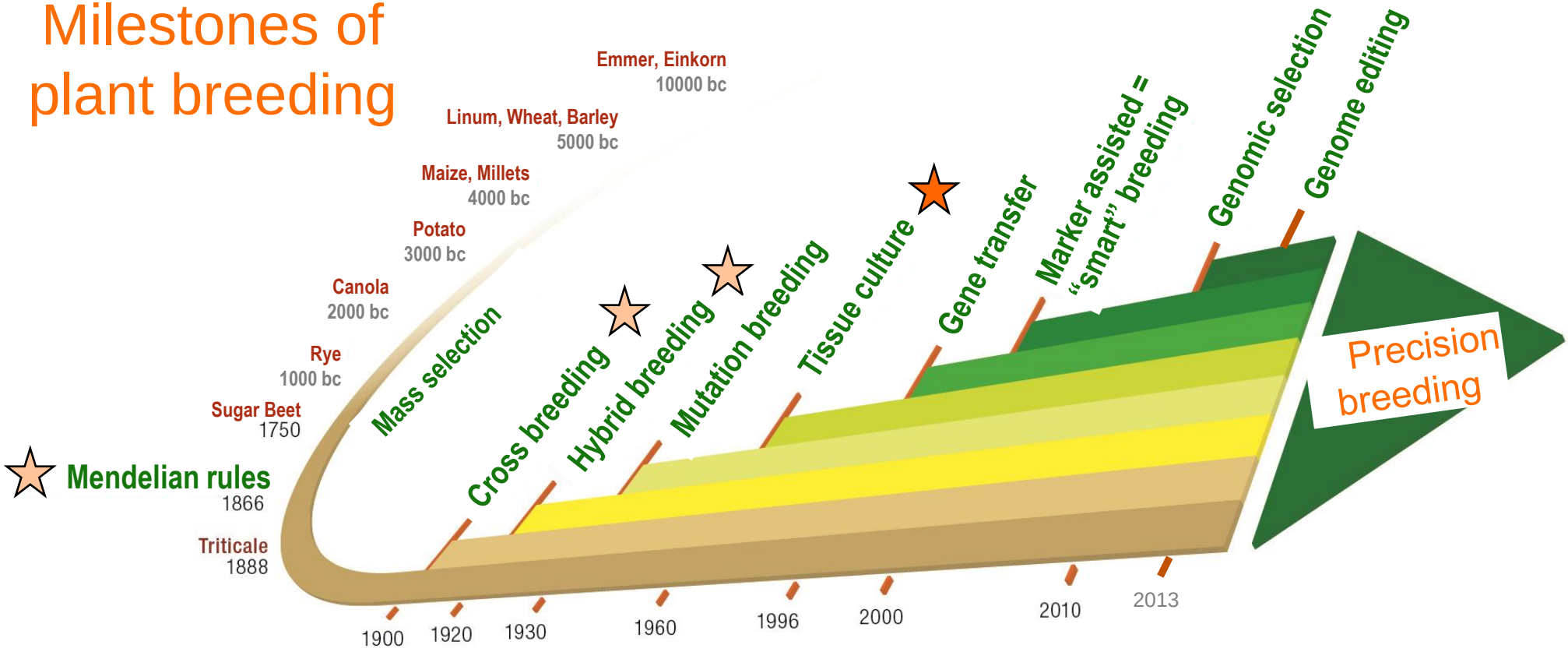
Four crops account for about half of global primary crop production: sugar cane, maize, wheat and rice.

Upotreba đubriva u svetu



Methods and technologies in plant breeding

Milestones of plant breeding



$$G = i \cdot h \cdot \sigma_g / t$$

Crossing: The aesthetics of maize



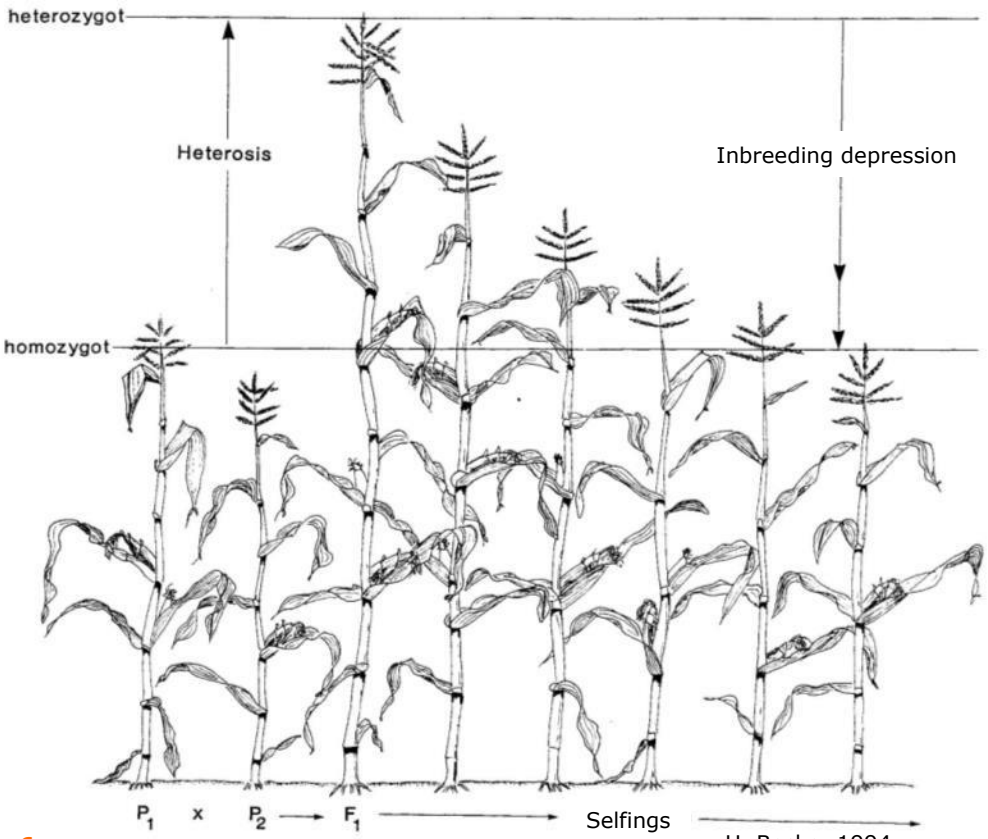







Basics: Heterosis

- **Heterosis**:
  Heterozygous plants are more vigorous and yield more than their homozygous / pure breeding relatives



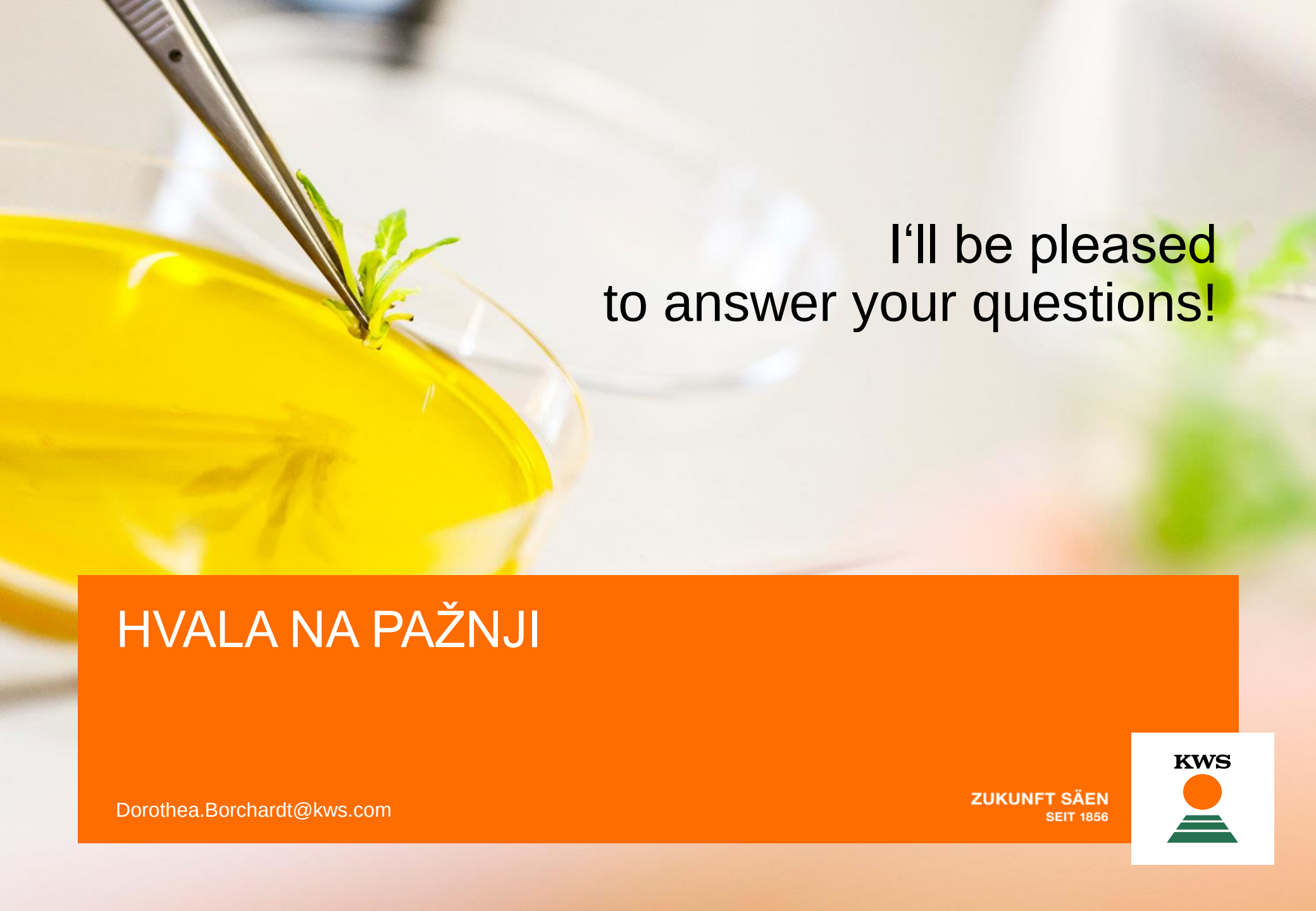


- **Inbreeding depression**:
  Pure (= homozygous) plants are smaller and more dwarfed than their heterozygous relatives

In general: The more genes encode a character, the higher the heterosis. In case of vigor and yield, many, many genes are involved!

All methods are designed to create new, improved varieties -> - final selection of best genotypes in field trials -





I‘ll be pleased
to answer your questions!

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