

### **#GrowingTheFuture**

## European Policy Developments Regarding NGTs

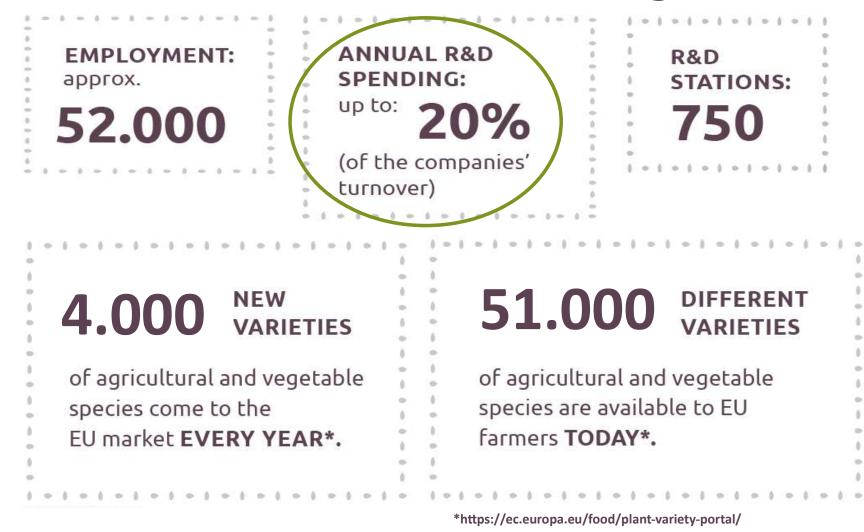
European Food Forum, 5 July 2023

Dr. Petra Jorasch

08/07/2023

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## The EU Seed Sector – Facts & Figures



Euroseeds number

seeds

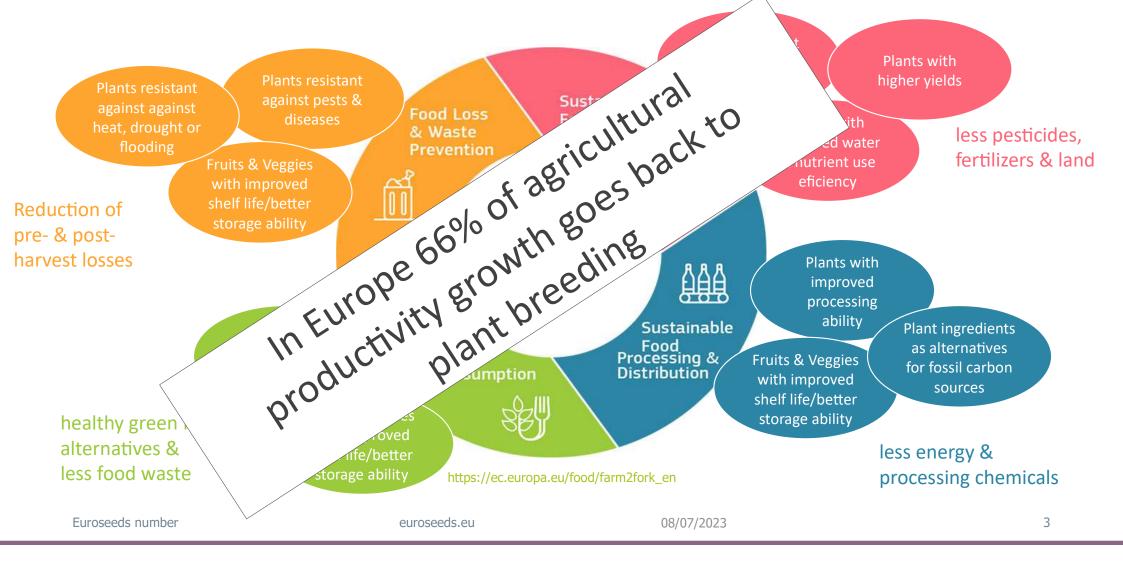
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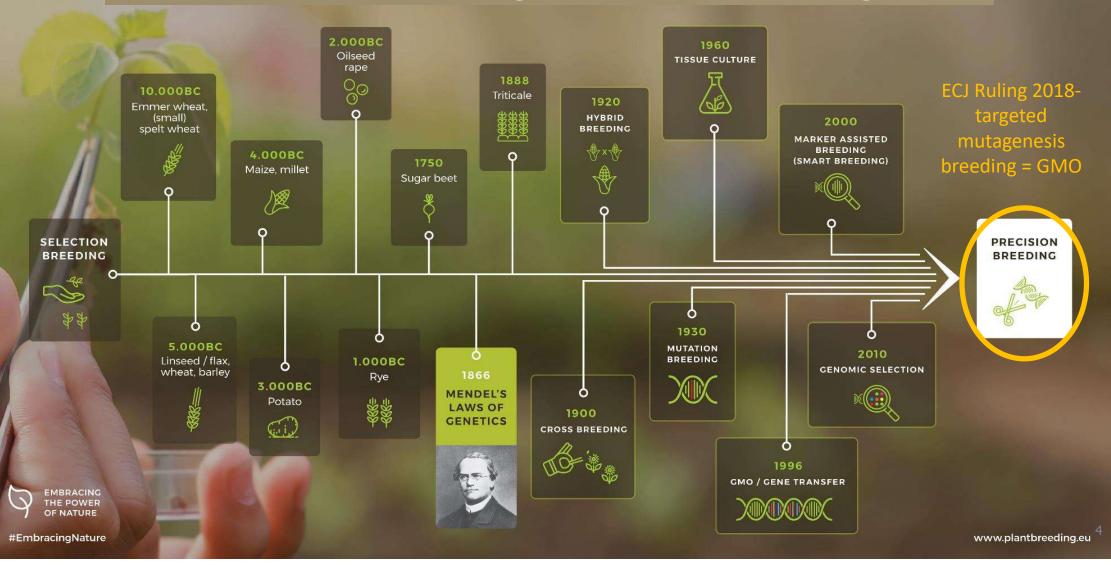
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# Plant Breeding Innovation can enable the sustainability goals of the F2F Strategy

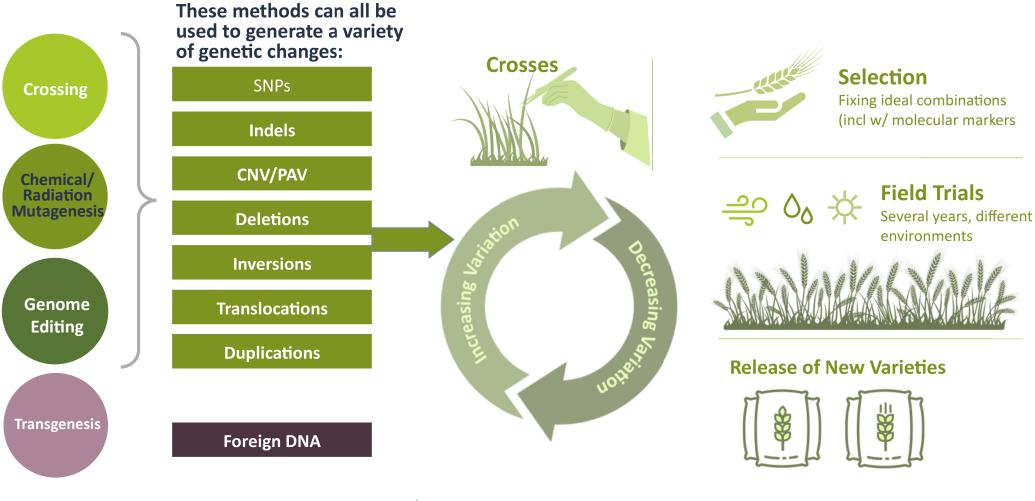


### We need an evolving toolkit in plant breeding





## Different breeding methods can introduce the same genetic variability into the breeding cycle:



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## **Euroseeds** Type of Products (according to draft proposal)

Conventional Products	NGT Category 1	Annex IB GMOs	NGT Category 2	GMO
cross-breeding, including by using advanced techniques such as embryo rescue, induced polyploidy and bridge crosses	equivalent to conventional plants if equivalence criteria are met	GMO techniques listed under Annex IB of 2001/18 Mutagenesis Protoplast fusion (cells from crossable species)	NGT plants not meeting the criteria of NGT Category 1 or NGT plants with herbicide tolerance traits	Transgenic plants
No risk assessment	Notification procedure No risk assessment	No risk assessment	Adapted GMO risk assessment	Full GMO risk assessment
No labelling	Seed bag labelling + NGT info public register	No labelling	GMO labelling (+ trait) + Public GMO register	GMO labelling + Public GMO register
No detection method	No detection method	No detection method	(No) detection method	detection method
Allowed for organic farming	Not allowed for organic farming	Allowed for organic farming	Not allowed for organic farming	Not allowed for organic farming
Listing in National and EU Variety Catalogue				

Canada: Product based approach; <u>Health</u> <u>Canada</u> and <u>CFIA</u> <u>guidance</u> for food finalized excluding plants without foreign DNA, CFIA guidance on feed tbd

US: USDA excludes certain products; others case-by case EPA: exempts certain products; FDA: tbd

Argentina, Chile, Brazil, Paraguay Colombia, Honduras, Guatemala, El Salvador: Case-by-case approach, excluding certain gene edited products without novel combinations of DNA Costa Rica, Uruguay: draft Case-draft case-by-case approach, excluding certain gene edited products without novel combinations of DNA

Differentiation from GMO regulations (at least by one agency/authority) Draft proposal to differentiate from GMO regulations (at least by one agency/authority) Products considered GMO's, but with simplified assessment procedures/requirements Draft proposal where products considered GMO's but with simplified assessment procedures/requirements All products considered GMO's Europe: GMOs, but policy proposal expected by 5/7/23 Norway: GMO, but discussion of a "tiered" approach England: case-by-case approach excluding certain gene edited products – secondary legislation expected Switzerland: GMO, government proposal expected until 2024

Israel: guidance that case-by-case certain gene edited products are excluded

> Malawi, Nigeria, Kenya: case-by-case approach excluding certain gene edited PBI products Burkina Faso, Ghana, Ethiopia: draft guidance excluding certain gene edited PBI products SA: government notice that NBTs are GMOs, ongoing appeal procedure

#### Policy developments around the world (07/2023)

<u>Russia</u>: decree for R&D program clarifying that gene editing products are "conventional-like"

> China: provisional "GMOlight" guidance South Korea: proposed revised LMO act (GMO-light) India: Exclusion of SDN 1/2, case by case approach with extensive data requirements Singapore/Indonesia: draft proposal to exempt certain gene edited products Japan: case-by-case approach excluding certain gene edited products Philippines: case by case excluding gene edited

#### AU-NZ - FSANZ:

Proposal for updated framework for food/ feed expected

products without foreign DNA

<u>NZ</u>: High Court decision that specific techniques are GMOs

#### Australia-OGTR: Revised gene tech regulation excludes SDN-1

gene editing applications & null-seggregants, new legislation is expected



- Plant breeding has a proven track record of boosting sustainability options for agriculture
  - Environmental: e.g. reduction of inputs by disease resistance, climate adaptation, reduction of land use
  - Societal: e.g. improved quality, health effects
  - Economic: e.g. improved income by improved yields and quality
- NGTs provide additional opportunities to support sustainability:
  - Reduction of breeding time
  - More targeted breeding approaches reducing complexity in breeding
- NGT applications are versatile and can be used in the development of a wide range of different plant products with many different characteristics:
  - GMO like products
  - Conventional like products
- Europe should join the increasing number of countries that follow a differentiated, science based and efficient regulatory approach according to these product categories.
- The EC proposal is a reasonable starting point for a more aligned approach- yet some of the regulatory considerations lack scientific evidence, create inconsistency as well complexity and inefficeency

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