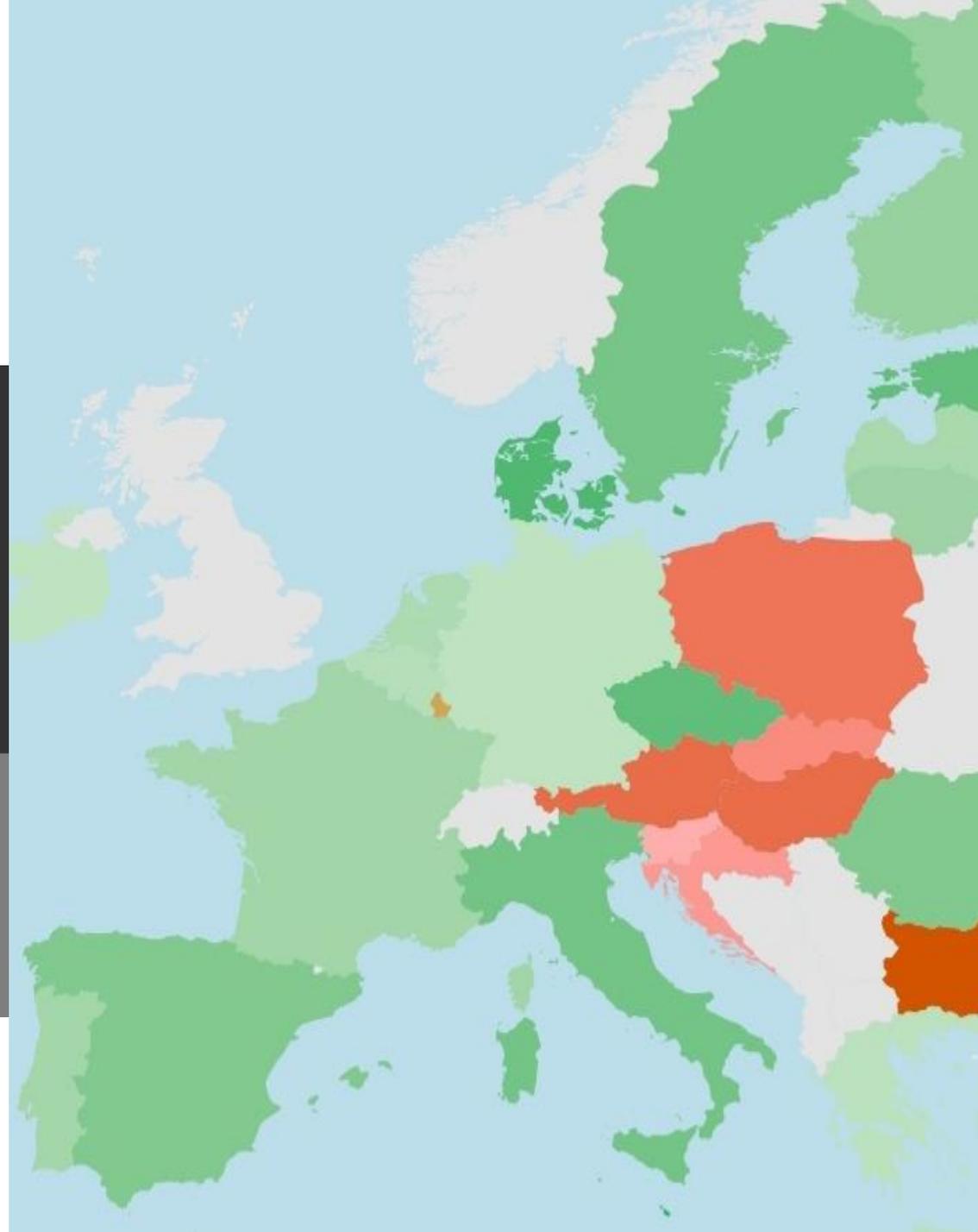


Norway – Regulation and Innovation

Knut Berdal, Specialist Director

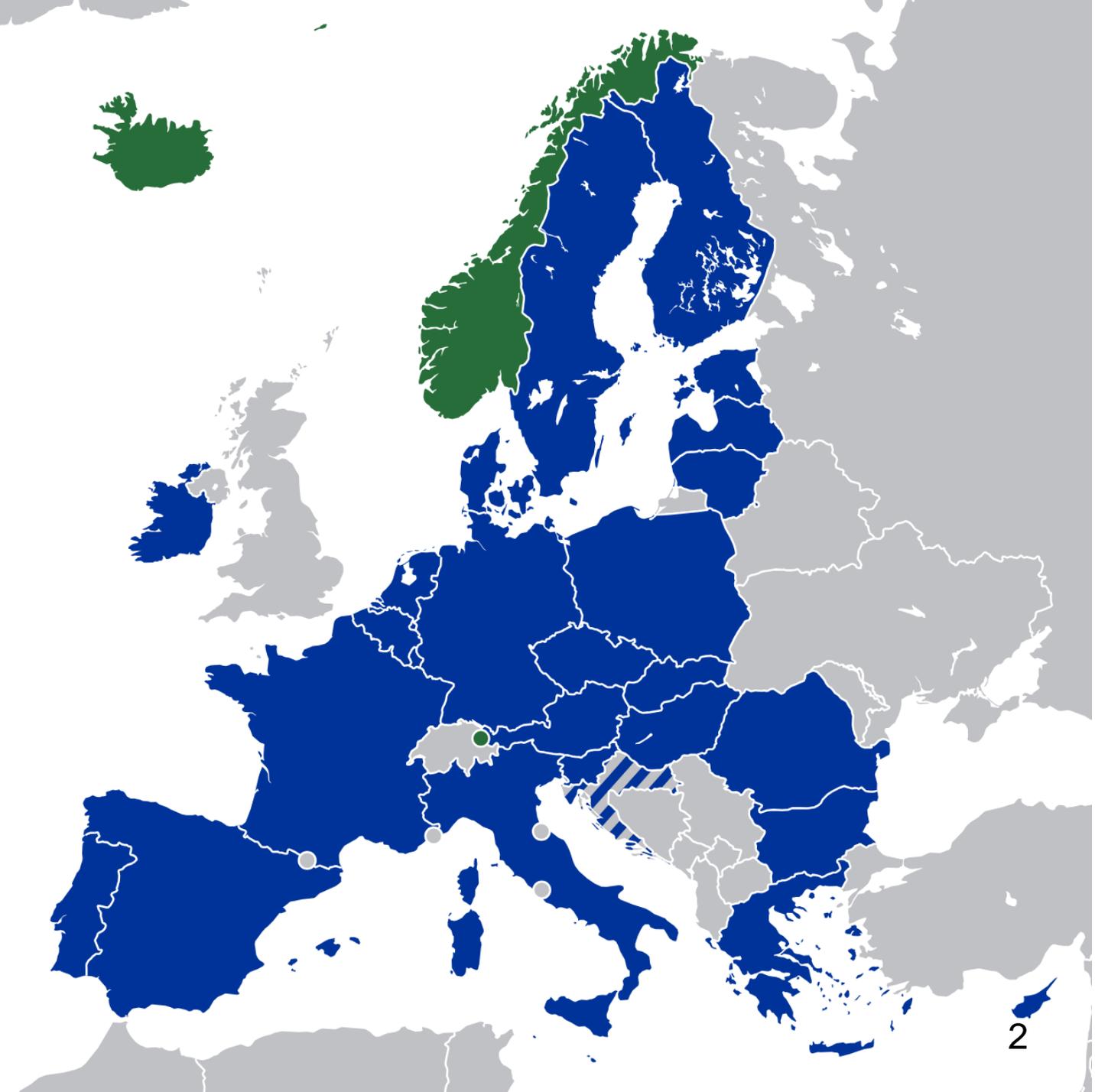
5th International Workshop on Regulatory Approaches
for Agricultural Applications of Animal Biotechnologies

August 27th 2024



Norway and the EEA

- Norway is not a member of the EU
- Part of the European Economic area (EEA)
- Single market with free movement of
 - Goods
 - Capital
 - Services
 - People



EU Food law and GMO regulations

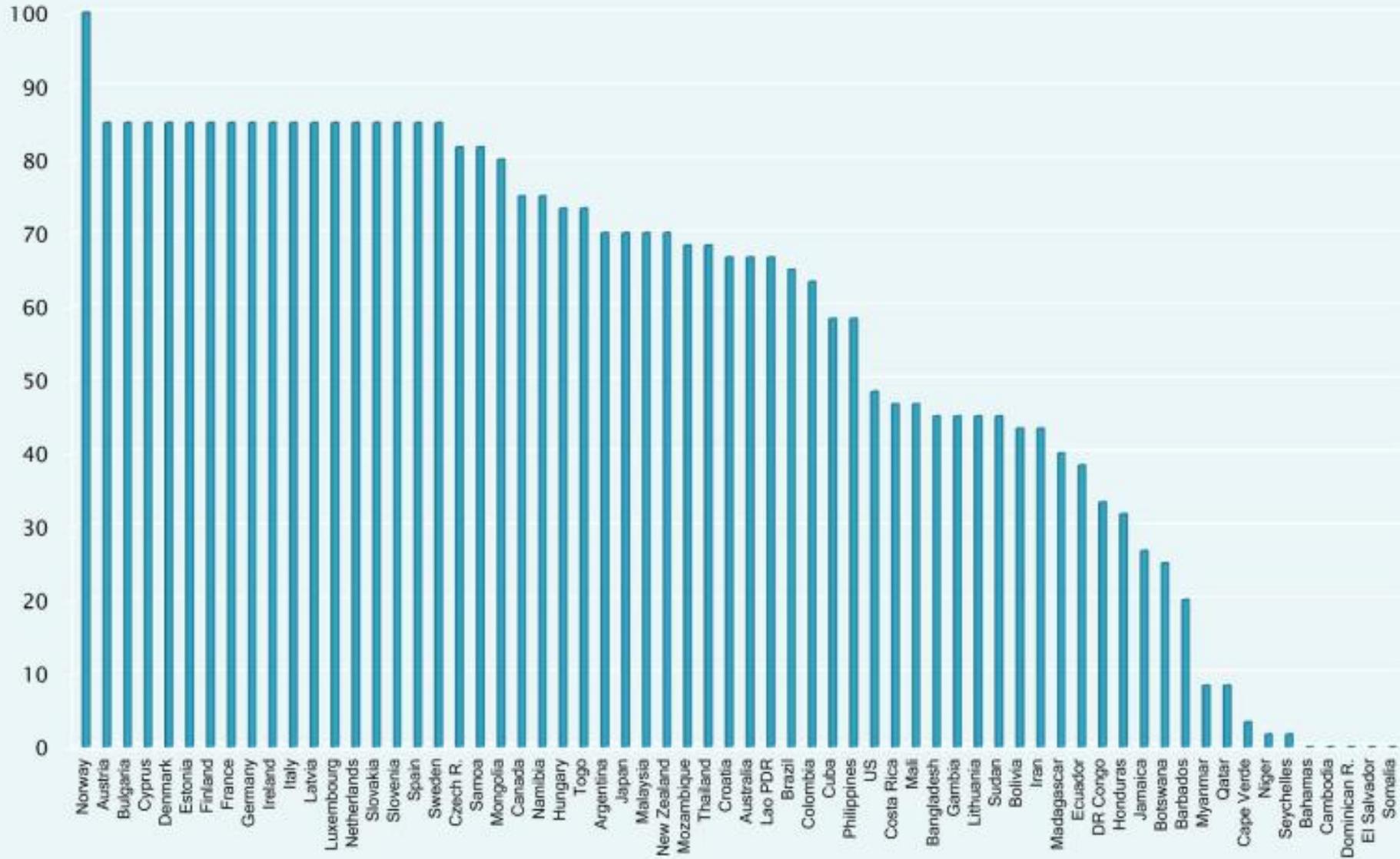
- EU General Food Law (178/2003)

- EU GMO Directive (2001/18)
 - EU approvals under 2001/18 valid in Norway, unless being prohibited
 - Adaptation; ethics, sustainability and societal utility

- EU GMO food and feed regulation (1829/2003)
 - not yet implemented in EEA and Norway

- National rules are partly harmonized

GMO Regulation Index



Low Levels of Genetically Modified Crops in International Food and Feed Trade: FAO International Survey and Economic Analysis

FAO 2014

National reports on genome editing in Norway

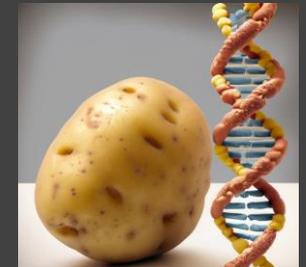
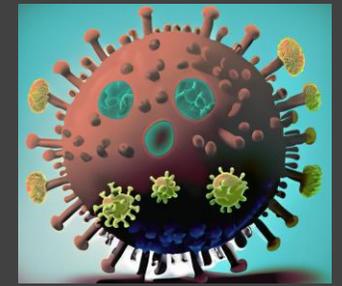
- **The Norwegian Biotechnology Advisory Board - 2018**
 - Majority advice; Tiered approach including notification
 - Plants, animals and microorganisms
- **Norwegian Official Report (Green Paper) – 2023**
 - Plants, animals and microorganisms
 - Public hearing 2023/2024

Summary of the Norwegian Official Report

General agreement

- Include all living organisms – plants, animals and microorganisms
- Promote development of sustainable products
- Include assessment of the trait of product/organism
- Consumer interests and transparency is important
- Promote research and innovation
- Modernisation of the 3 additional criteria (sustainability, societal utility and ethics) into ethical justifiability

- Minority ask for a continuation of GMO framework, with updates
- Majority ask for a substantial liberalization (similarities with EU proposal on NGT)



Majority recommendation in official report

Exempt
from GMO
regulation

PB –precision
breeding

Exempt
from GMO
regulation

GMO

Non-
heritable
modificaton

Modificaton within
species (PB)

Conventional
breeding

Transgenes
(old GMO)

Level of genetic change



Animal breeding in Norway is important globally



- Norwegian pig, cattle and salmon breeding companies with joint consultation input to the green paper;
 - «*The current regulatory requirements for approval are prohibitive and deny commercialisation of products from genome editing*»
 - «*Should be regulated similarly as conventional breeding*»
 - «*Risk-proportional*»
 - «*No labelling*»

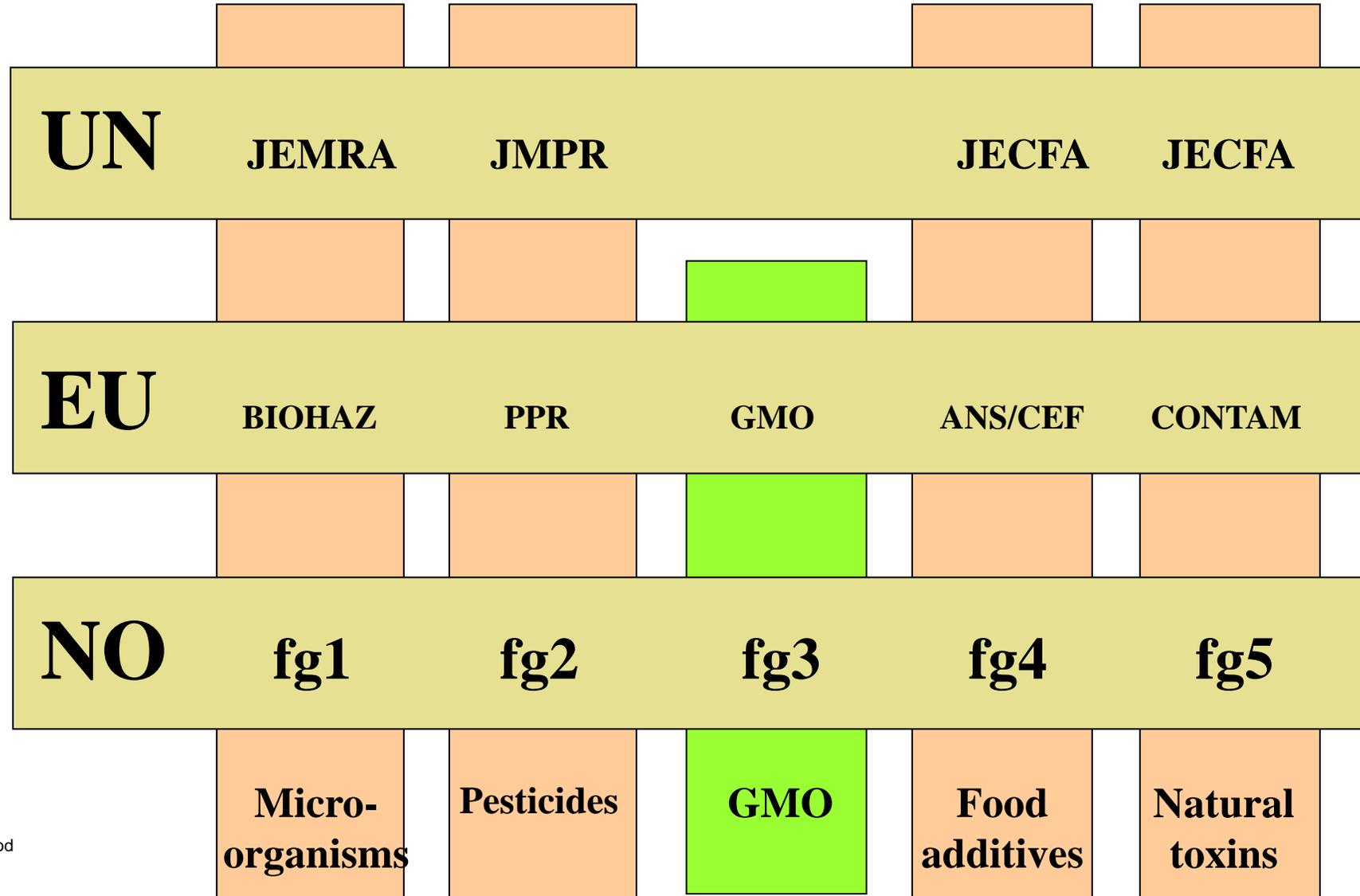
The road ahead

- The Norwegian government currently considers the Green paper, inputs and the overall development
- The future EU regulation will be important to Norway
- International regulatory cooperation is important

International Regulatory Cooperation



Risk assessments as global public goods



Thank you!

Please stay in touch for
further discussion or
questions;

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