



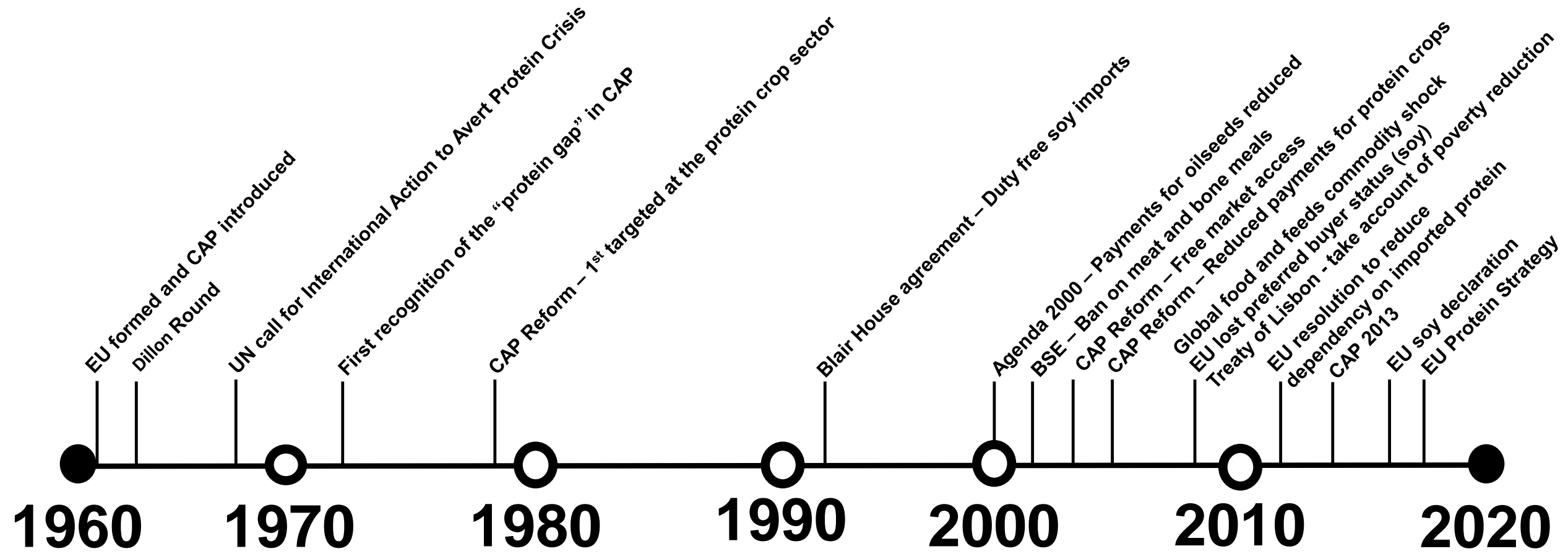
The Protein Gap

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How did we get here?



EU Protein Strategy (2018)

Promoting protein crops whilst reducing dependence on external sources

- **Greening**
 - Member States to allow legumes on Ecological Focus Areas (EFA)
 - Rural development programmes with Agri-environment-climate measures
- **Voluntary Coupled Support**
 - 16 Member States to use VCS in 2019
- **Research and Innovation**
 - Agricultural European Innovation Partnership (EIP-AGRI)
 - 16 programmes
 - Horizon2020
 - 4 programmes

Member State initiatives

Germany	Netherlands	France	Denmark
€17M (2014-2018)	€54M	€1B (2018-2023)	€53.7M
Sustainable feeds forum	Alliance for Sustainable Food	Protein consortium	National Bioeconomy Panel
R&I programme	R&I programme	R&I programme	R&I programme
Roadmap	Roadmap	Roadmap	Roadmap
Creating and reinforcing regional supply chains and reducing competitive disadvantage	Creating and reinforcing circular agriculture and the supply chains, both for feed and food	Creating and reinforcing supply chains, both for feed and food	Creating and reinforcing domestic raw material base for feeds and for foods
Improving domestic production, yield, return and environmental footprint	Improving domestic production, yield, return and environmental footprint	Improving domestic production, yield, return and environmental footprint	Extraction of proteins from grasses and other sources
Alternative proteins	Alternative proteins	Alternative proteins	Alternative proteins
Legumes!	Legumes!	Legumes!	Legumes?

The UK - Give peas a chance?

Absolutely...

- Ecosystem
- Diversity
- Soil
- Fertiliser
- Pests

But...

- Species
- Quality
- Price
- Land use
- Yield
- Climate change

Conclusions

- **Scotland's bioresource potential is enormous**
- **We still need to do more with what we've got**
- **Circular agriculture is part of the solution**
- **'Alternative' protein is the key**



Thank you.

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