

WEBINAR SERIES

Proteins and feed

Online webinar

31st August 2023, 12:30 GMT / 13:30 CET

REGISTER AT

www.climate-kic.org/SustainableFoodWebinar



Deep Demonstration

Sustainable food systems in Ireland



Co-funded by the
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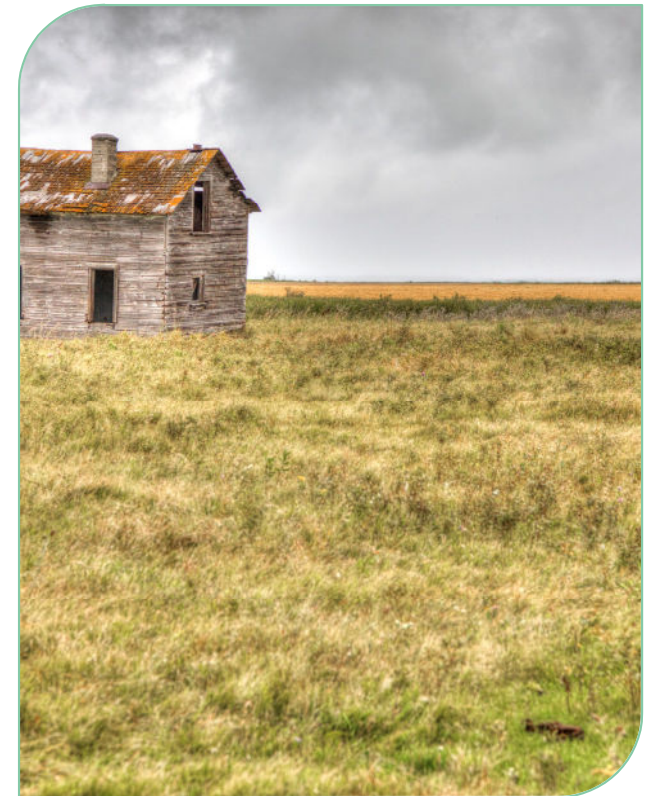
Housekeeping

- This session is being recorded & will be available on the below website
- Slides will be shared on the below website
- Questions in the chat please
- Please share your feedback with us at the end!

[More information: climate-kic.org/SustainableFoodIreland](https://climate-kic.org/SustainableFoodIreland)

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Agenda

10' welcome & setting the scene

10' presentation

40' discussion/ panel incl. Q&A

5' feedback & close

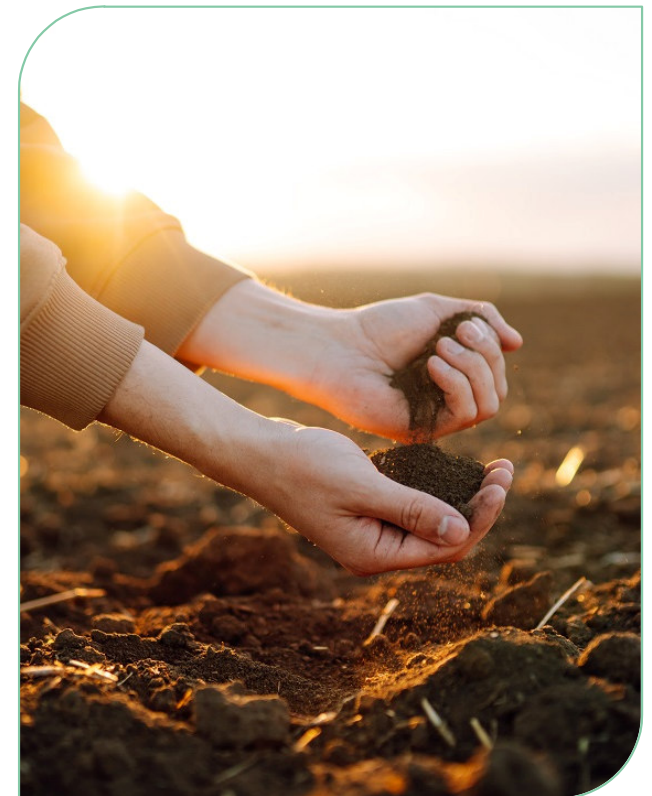
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Joining us today



Saskia Visser
Resilient & Climate
Neutral Regions Cluster
Manager, EIT Climate-KIC,
NL

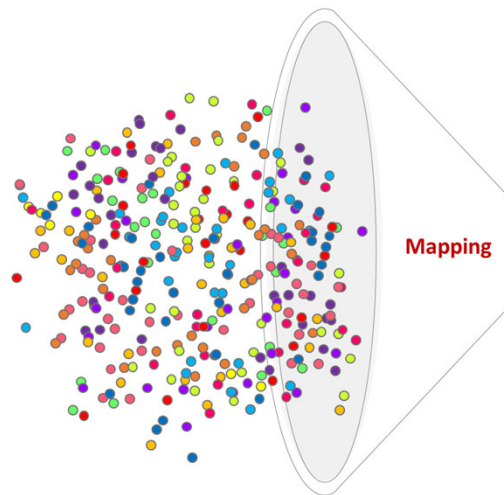


Prof. Steve Evans
Chairman, Project X
Global, UK



Sinead Fitzsimons
U-Protein Project
Manager, Teagasc, IRL

Why these sessions?



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Sustainable food systems in Ireland



Dealing with Climate Change and Sustainability Targets

The innovation potential for the Irish Agri-Food Sector

Editor | Saskia Visser
Amsterdam | March 2023



[More information: climate-kic.org/SustainableFoodIreland](https://climate-kic.org/SustainableFoodIreland)

The Report

Dealing with Climate Change and Sustainability Targets

The innovation potential for the Irish Agri-Food Sector

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More information: climate-kic.org/SustainableFoodIreland

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Join us!

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EVENT

From farm to fork: Shaping sustainable food systems



LOCATION

Dublin, Ireland & online

DATE

28 September 2023, 9:00 - 17:00 IST

REGISTER FOR THIS EVENT

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PROJECT X GLOBAL



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**Advisory, Design and
Implementation of
demand-led innovation
programmes, and
system's funding
products**

Project X is a certified B-corp

**PROGRESS AT
THE PACE THE
PLANET NEEDS IT**



GENERAL TRENDS FEED & PROTEIN



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Significant Growth in soy – increased supply risk

Localisation in feed production

High energy costs – fertilizer & feed increasing

Feed with methane busting additives – climate smart cows

Regenerative agriculture – demand for regenerative feed 

Diets moving to more sustainable eating and food systems

Plant based diet increasing

Low Carbon – Net Zero Carbon Commitments

Cheap meat availability

Alternative Protein Regulation

FEED SOURCES

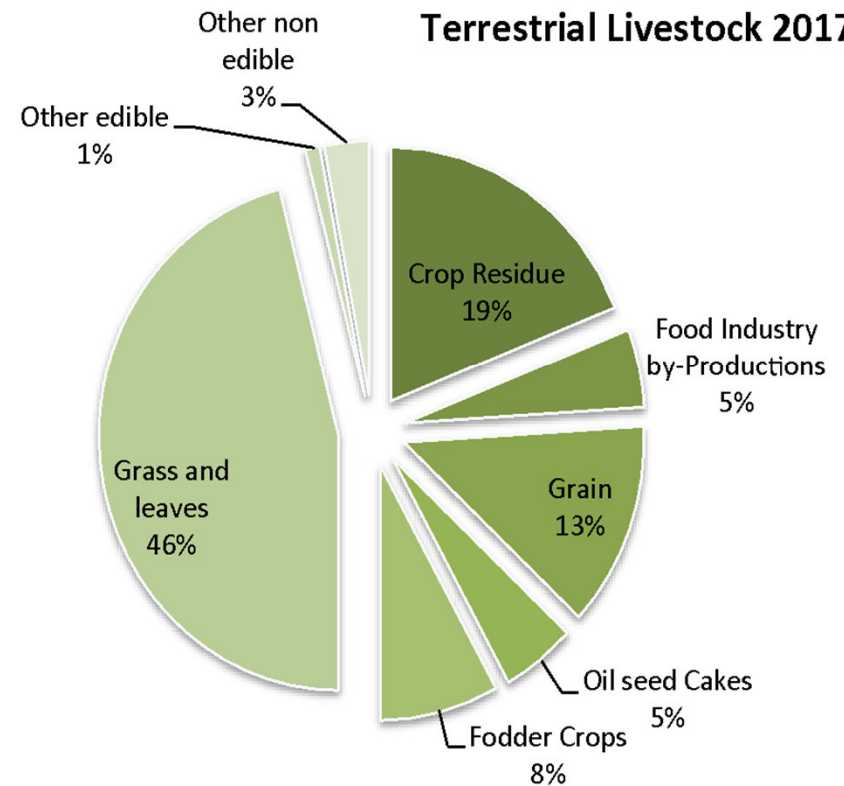
- Ireland increased feed production 6% 2020-21
- Ireland: cattle 56% (36% self-sufficient), pigs & poultry 28%
- 140mT pa
- Future growth in compound feed



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Global Feed Sources Terrestrial Livestock 2017



TRENDS

- Growth in aquaculture?
- Ireland in key location
- \$900M gov't invested
- 2021: \$5Bn, 258 deals
- No leadership (yet)



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Protein Types	Netherlands	Denmark	New Zealand	United Kingdom	Ireland	Pros for Ireland	Cons for Ireland
	PD*:PS*:IP*	PD:PS:IP	PD:PS:IP	PD:PS:IP	PD:PS:IP		
Plant Based	Moderately Strong Focus-all	Moderately Strong Focus-all	Low focus - all	Strong focus - all	Moderately low focus - all	Experience on Grass & legumes	Crowded with Au and Ca leading
Cell Based & Precision Fermentation	Moderately Strong Focus-all	Moderately low focus - all	Low focus - IP	Moderately low focus - all		Build from experience in distilleries	No investment so far
Insects	Moderately low focus - all	Low focus - all		Moderately low focus - all		Potential Link to potato water -	Depends on substrate availability
Fungi				Low focus - all		Only 3 others investing here	Limited experience to build on
Algae/seaweeds	Low focus - all	Low focus - all	Low focus - PD & IP	Moderately low focus - all	Low focus - all	Coast & existing aquaculture experience	Crowded & expensive
Methane busting additives	unknown	unknown	unknown	unknown	unknown	Offer field trials - opportunity for investment	Few technologies, Au, Sweden, US leads

ALTERNATIVE PROTEINS



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1
Growth in
aquaculture?

2
Kelp/ mussels /
insects / grass /
fermentation as new
sources of protein

3
Ireland in key
location

TRENDS: HUMAN DIETS

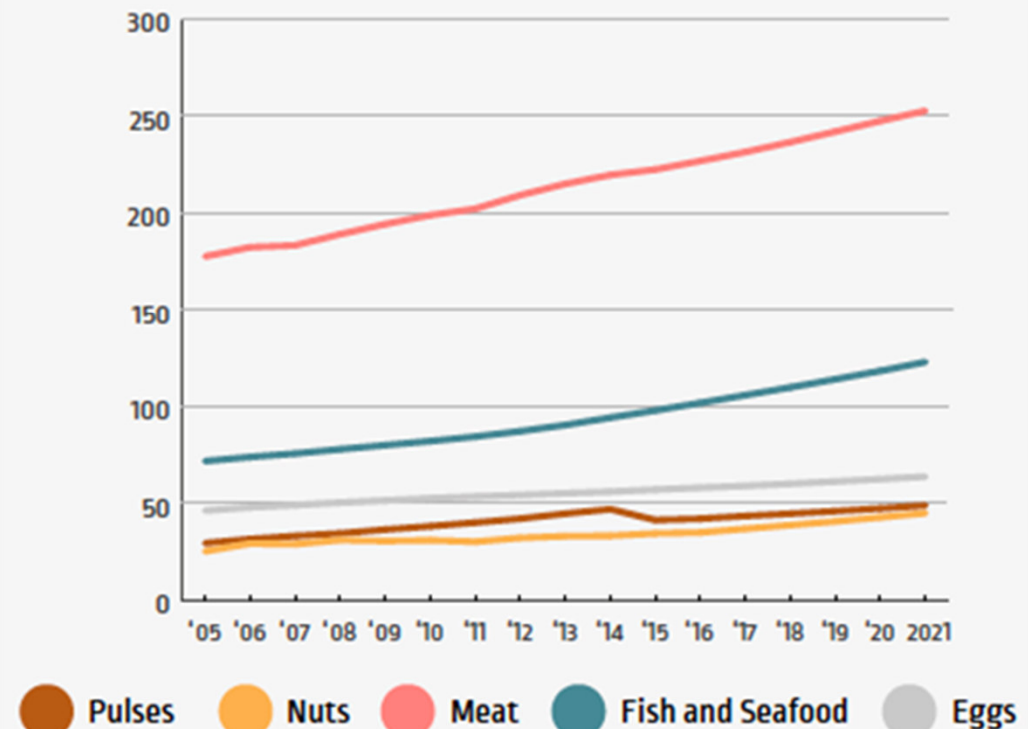
- Meat +42%
- Future:
 - 49% want chemical free food
 - 42% to plant based
 - 18% Ire 'less but better meat'



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Volume of Protein Type sold globally (in Millions of Tonnes)
Source: Euromonitor International, 2017 ¹



KEY FINDINGS



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1 Significant and fast moving trends
(soy feed risk, energy & fertilizer costs, cow methane, net zero policies, localised feed production, plant-based diets)

2 Potential Ireland advantage in cell-based & algae/seaweed

3 Irish gov't policy (agri-food, challenge based innovation) & co-ordination competence offer opportunities to mobilise finance toward a new sub-sector

RECOMMENDATIONS FOR IRISH GOV'T



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Implements a cross-Government Strategy on Alternative Proteins

Responds to the changing needs of modern consumers

Develops a DLI protocol & an eco-system to support the adoption at scale of sustainable protein alternatives

Enables equitable access for alternative proteins

Addresses the growing concern for the health of our lands & oceans & biodiversity through alternative protein strategies that lead to regeneration

Go raibh maith agat
Diolch
Thank you

Contact: [Steve Evans](mailto:Steve.Evans@projectxglobal.com) and / or [Marcela Navarro](mailto:Marcela.Navarro@projectxglobal.com) – mn@projectxglobal.com

Into the discussion



Saskia Visser
Resilient & Climate
Neutral Regions Cluster
Manager, EIT Climate-KIC,
NL



Prof. Steve Evans
Chairman, Project X
Global, UK



Sinead Fitzsimons
U-Protein Project
Manager, Teagasc, IRL



Thank you!

More information: climate-kic.org/SustainableFoodIreland