

The Vision For The New Normal For Irish Dairy



This presentation provides a tentative vision of the New Normal for sustainable Irish dairy. The purpose of this vision is to inspire a general direction for action that is aligned with all stakeholders' interests, perspectives and values within the dairy system. It sees a thriving dairy sector that provides the country with safe, high quality, nutritious, sustainable food and contributes to Ireland's position as a world leader in sustainable food systems (SFSs).

The vision for the New Normal pushes for a radical transformation of the system that moves beyond incremental improvements. It acknowledges the complexities that exist within the dairy system yet is broad enough to be widely applicable and ambitious enough to deliver on targets for climate and beyond.

The framework of this vision therefore takes a holistic approach, covering four equally important and interrelated pillars: **inspiration**, **social**, **environmental** and **economic**. This draws from Commonland's 4 Returns approach to landscape restoration where the return of inspiration is as key in driving systems change as natural, social and financial levers. The four pillars are used as quiding principles to see

what a Safe and Just Operating Space (SJOS) could look like in the context of Irish dairy production. The model also draws from Kate Raworth's doughnut economics model where the safe and just operating space is determined by the minimum and maximum boundary conditions within the **inspiration**, **social**, **environmental** and **economic** space.

The SJOS can also be captured by the 'resilient, sufficient & efficient' concept developed by EIT ClimateKIC where future fit Irish dairy meets the basic standards across all pillars to be able to recuperate from shocks (resilient), produces what is needed and possible within the planetary boundaries (sufficient) and makes optimal use of resources (efficient).

The transformation to a future-fit dairy system relies on key stakeholders. We explore the different perspectives of these stakeholders starting with farming households at the center and looking more widely to the farm system as a whole, and the landscape in which they operate. We also identify how the enabling environment can play a crucial role in driving this transformation and keeping everybody within this SJOS.



The Vision For The New Normal For Irish Dairy



Inspiring new perspectives and mindset shifts

- Shift in activities and perception of dairy farming
- Recognition and valuation of sustainability efforts
- Farming households have a sense of hope, purpose and fulfilment



Promoting the wellbeing of individuals and communities

- Meaningful jobs
- Resilient livelihoods of farming households
- Good health and well-being of farmers
- Social and cultural capital of rural communities



Preserving and restoring the natural environment

- Diverse agroecosystems, integrated within the landscape
- Safe, high quality, nutritious food within the planetary boundaries



Ensuring long term economic viability and stability

- Financially rewarding jobs
- Valuing other services farmers provide
- Innovative business models for resilience



FOUR PILLARS:

INSPIRATION

inspiring new perspectives and mindset shifts

ECONOMIC

ensuring long term economic stability

ENVIRONMENTAL

preservation and restoration of the natural environment

SOCIAL

promoting the wellbeing of individual people and communities

Key stakeholders:



Farming household: Individuals who share responsibilities and benefits related to dairy production.



Farm system: All activities within the farm boundaries such as production, inputs and ecological processes.



Landscape: The local social, cultural, ecological and economic context in which the farm system operates e.g. the bio-region or the county.

Enabling environment

Actors that have a strong influence on the dairy system and key stakeholders who will also be impacted by the transformation. These include:

- Policy makers
- Value chain actors (co-operatives, processors, retailers)
- Consumers
- Communities

01 The Inspiration Pillar



The New Normal inspires new perspectives and mindset shifts

There is a tangible shift in the way dairy farming is delivered and perceived. Sustainability efforts are valued and recognized, giving farming households a sense of purpose and fulfilment. Farming households feel part of a greater movement that unites them with other stakeholders in the dairy system towards a more sustainable future for all.





Culture & community

cultural connection to their community and and the way they produce it. Society values they are able to actively participate in local and appreciates the significant contributions activities, community life and local boards/ made by farmers. They are being rewarded for associations/meetings. Dairy farming is ecosystem services they contribute to, not just an attractive profession to young farming production. There is a more direct and closer generations and new entrants. Generational connection between consumers and farmer and succession keeps generations living in the the mainstream media helps report on good countryside, regenerating rural communities. performance through clear and true messaging Farming households are part of a larger farmer regarding products' footprint and impact for community (in-country and cross-border) where that community. they can connect with other farming members to exchange information and best practices.



Value recognition

Farming households have a strong social and Farming households take pride in their product



Connection with nature and the landscape

Farming households are not just seen as providers Farmers can leverage their combined of food but also as stewards of the land, playing resources, knowledge, and influence to drive a vital role in fostering resilient agroecosystems and have co-ownership over meaningful and conserving nature. The rootedness they change. Moreover, farmer collective action feel to nature translates into care, respect fosters a sense of community and mutual and responsibility towards the land. Farming support, which are essential for navigating households recognize the interconnectedness the uncertainties of agricultural transitions. of their activities with the environment - their Through farmer cooperatives, associations, stewardship also carries beyond just their land and networks, individuals can access training, towards other landscapes/watersheds and they technical assistance, and peer-to-peer learning are inspired to seek solutions from nature.



Collective action

opportunities and have stronger voice in shaping agricultural policies.



O1 The Inspiration Pillar



The New Normal inspires new perspectives and mindset shifts

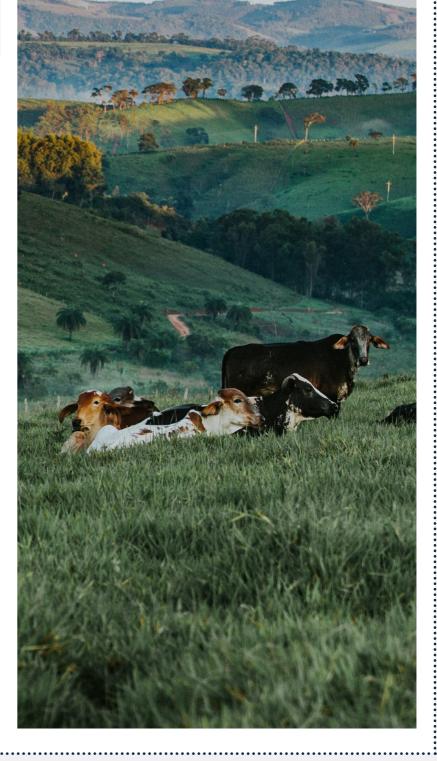
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Empowerment

Sustainable dairy farming empowers farming households, allowing them to recognize their own agency and become change-makers in the agricultural landscape - they have agency and control over their farms, are actively engaged in the transition process and policy discussions and know that their voices matter. Farming households are empowered to adopt and adapt sustainable practices more effectively and feel supported in their efforts by their community, by society and by policy.





02 The Social Pillar



The New Normal promotes the wellbeing of individuals and communities

Dairy farming contributes to satisfying livelihoods for farming households and to the social fabric and cultural capital of rural communities.





Health & well-being

good quality of life. There is time for rest and social connection which supports good physical good work-life balance also means farmers have time available to engage in transition activities, including education and training and implementing new approaches.



Meaningful jobs

The basis of sustainable dairy farming is a Dairy farmers find purpose and fulfillment in their work. Meaningful jobs empower farmers to cultivate a deeper connection with the land and mental health as well as farm safety. A and promotes continuity - they are likely to stay in the profession, passing down traditional knowledge and skills to future generations, which is important agricultural resilience and communities.



Community

Farming households have strong relationships and there are support mechanisms to address family conflict. The same applies to neighborly conflict. In addition, regional initiatives build connections and a shared sense of purpose, strengthening household and community resilience.



Culture

Dairy farmers are celebrated for their contribution to the country's cultural identity. They are custodians of traditions deeply rooted in Irish history, shaping a way of life that connects past and present. Milk products do not only sustain the Irish people but also exports a piece of Ireland's heritage worldwide.



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Education

education and opportunities to acquire and share knowledge and learn new skills. There is investment in peer-to-peer learning and making education more innovative, unlocking inspiration. young people practicing dairy farming enhances



Generational sustainability

Farming households have access to information, The next generation is supported in taking forward sustainable dairy farming, is given ownership and feels empowered to make decisions for the future of their farms. More the vitality of rural communities.



Equity and social inclusion

A sustainable dairy system involves, and benefits, everybody who participates in it. Dairy farming creates pathways for success through fair access to learning opportunities, farmland, capital, technical support and government programs taking into account people's circumstances. It engages and empowers everyone in the transition to a future fit dairy system regardless of gender, orientation or economic status.





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Health & well-being

supports the creation of sustainable and resilient networks between farmer communities, public rural landscapes. A focus on environmental health also supports the health and well-being of the community.



Community

The social wellbeing of farming households There are strong working relationships and social stakeholders and value chain stakeholders in the landscape. There is also space for regional diversity in approaches to sustainable farming through community-based social enterprise models in dairy farming. In some areas there is a partial (re-)localization of production that reduces the reliance on distant supply chains, promotes local production and economies and serves community food needs.



Farm system



Animal welfare

Dairy farm cows are treated with the gold standard in farm animal welfare. This has positive impacts on health and well-being and is also key for economic success.





03 The **Environmen**tal Pillar



The New Normal restores and preserves the natural environment

Sustainable dairy farms are diverse agroecosystems, integrated with the landscapes around them. They deliver a sustainable supply of safe, high quality, nutritious food while doing their fair share to stay within the ecological boundaries. To ensure this, environmental outcomes on the farm and landscape level are measured and monitored at the appropriate scale.





Soil health

the health and productivity of cows, and the much as maximising carbon sequestration. nutrient density of the food produced.



Emissions

Regenerative agriculture approaches help Future fit dairy farms contribute their fair share protect soils on dairy farms and restore them in mitigating climate change and deliver on to a 'healthy' state. This means improved soil Ireland's national climate goals. Carbon balance physical properties and fertility but also a sheets help identify actions to reduce emissions. flourishing, complex web of biological activity All efforts have been exhausted to reduce that plays an important role in maintaining absolute emissions and improve efficiency. ecosystem services. Rich soil also supports Maximising decarbonisation is prioritized as



Biodiversity

nature and quality of nature on the farm level national and EU policy. has improved.



Water

There is rich, thriving biodiversity on and Circularity in nutrient management and off farm which improves the functioning of implementation of nature-based solutions on agroecosystems and contributes to the resilience dairy farms ensures abundant and clean water of farms and wider landscapes. Both space for reserves and helps keep Ireland in line with



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Biodiversity

Dairy farming is collectively done in a way that Ecological boundaries are considered when protects and increases biodiversity on farm but designating land for dairy production or also serves to improve ecosystem connectivity alternative uses. For example, existing dairy and functionality on the landscape level. Farm farming on peatland is done more sustainably reductions in ammonia emissions improves and application of practices such as agroforestry the condition of nearby natural habitats in the provide additional income sources for dairy region.



Land use change

enterprises. In addition, local production of livestock feeds is encouraged.





FARM ZERO C

Farm Zero C is a collaboration between Carbery, an international food ingredients company based in West Cork, and BiOrbic, Ireland's National Bioeconomy Research Centre and other actors (Science Foundation Ireland (SFI), Teagasc, various universities) to create a climate-neutral, economically-viable dairy farm.

This pilot project aims to demonstrate that a new sustainable business model for large scale grass-based dairy farming is possible and profitable. It is a good example where dairy farm activities are brought within the planetary boundaries through reduction of emissions, increasing soil health and on-farm biodiversity and contributing to cleaner water supply by decreasing fertilizer usage. At the same time, the proposed interventions are commercially viable for farmers. Once this model has been tested over the next few years it can be rolled out rapidly to farmers.

Shinagh Farm, a heavily stocked 250 acre commercial dairy farm owned by four West Cork cooperatives, is the site of the project. The project takes a holistic approach, combining a range of technologies and practices targeting soil and grassland; animal diet and breeding; biodiversity; life cycle analysis; and renewable energy to reduce emissions and increase farm productivity and resilience.

The changes on the farm will be evaluated and compared with benchmark data to evaluate the impact each step can make in reducing emissions. Through various measures the Shinagh Farm has seen a reduction in its their carbon footprint from 0.95 to 0.78 kg $\rm CO_2$ eq./kg FPCM between 2018 and 2020. The goal is to eventually reach zero emissions by 2027.

A network of partners and collaborators drive this project. Recently, one of Ireland's leading financial institutions, AIB, has even partnered up with Farm Zero C which will provide the necessary financial support for research, promotion and public advocacy.



04 The **Economic** Pillar



The New Normal promotes long term economic viability and stability

Dairy farming is financially rewarding and values other services farmers provide. Flexible measures and new innovative business models bolster resilience against market volatility and climatic shocks.





Income

it is also financially rewarding and relatively adoption of innovative agricultural technologies constant over time. Farmers are paid not and practices means farmers can cultivate only for production volume but they are also resilient, profitable, and environmentally rewarded for the product qualities, services and valorizing positive environmental and social the value chain. This not only strengthens rural impact. Market systems exist that support economies but also attracts youth to agriculture the production/offtake of these certified and by offering avenues for entrepreneurship and sustainable products. A diverse array of public skill development. and private financing options help farmers cover the cost of transition. Local market growth supports shorter and more transparent supply chains and thus a more connected dairy food system.



Innovation

Dairy farming is not only economically viable, New sustainable business models and the responsible enterprises for the future. It also value they provide. This includes appropriately generates employment opportunities across



Economic resilience

Sustainability and resilience is embedded into farm priorities and management decisions. Farming households are able to deal with change and uncertainty that comes from market volatility and climatic shocks. Farmers are confident that their farm will be economically viable in the long-term.



