

FARM TO FORK STRATEGY: A SUSTAINABLE SOLUTION FOR RURAL COMMUNITIES

Goulas Apostolos^{1&2}, Papachatzis Alexandros^{1&2},

¹Department of Agriculture – Agrotechnology, University of Thessaly, Geopolis Campus,
41500 Larissa, Greece, goulasap@yahoo.com

²HORTLAB, Horticultural & Soil Resources Laboratory, University of Thessaly
Correspondence author. E-mail: goulasap@yahoo.com

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ABSTRACT

The Farm to Fork (F2F) strategy, a key pillar of the European Green Deal, offers a comprehensive and sustainable solution for food systems, with particular benefits for rural communities. This strategy emphasizes the transformation of food production, processing, distribution, and consumption to achieve environmental sustainability, economic resilience, and food security. As rural communities often face unique challenges—such as limited access to markets, declining populations, and environmental degradation—the F2F strategy provides an integrated approach to addressing these issues. By promoting shorter supply chains, organic farming, reduced pesticide use, and climate-resilient agricultural practices, the F2F strategy can enhance rural livelihoods while contributing to global climate and health goals. This paper examines the economic, environmental, and social impacts of the F2F strategy on rural communities, and highlights the challenges and opportunities associated with its implementation. It argues that, while the strategy holds great promise for promoting sustainable rural development, its success depends on adequate financial support, infrastructure investments, and education for farmers and stakeholders.

INTRODUCTION

The global food system faces recently many challenges, including climate change, biodiversity loss, food insecurity, and public health concerns. The Farm to Fork (F2F) strategy was launched as a response to these challenges and forms a central component of the European Green Deal, which aims to make Europe the first climate-neutral continent by 2050 (European Commission, 2020). According to Schmidt (2019) research has further shown that the EU has previously adopted a number of ambitious legislative measures in the context of climate change. This strategy recognizes the need for a sustainable and resilient food system that can provide healthy, high-quality food for the growing global population, while simultaneously minimizing environmental impacts and supporting rural economies (European Commission, 2020). In simple words, as Heyl et. al. states, the Farm to Fork strategy of the EU aims at sustainable food systems. It is also important to

mention that according to Schunz (2022) 'sustainability pertains to the capacity of human societies to endure within biospherical limits'.

Rural communities, which play a critical role in food production, are at the heart of the Farm to Fork strategy. Singh et. al. (2023) claims that Farm to Fork strategy lauded as a cornerstone of the European Green Deal, and Schebesta and Candel (2020) mention that F2F intends to make the EU food system equitable, healthy, and ecologically sustainable. Also, according to Rivera et al. (2020) small – scale farming plays a significant role and contribute in food security. In the last few years a need for a new development model based on sustainability and transformation of the economy in a green way, it is highlighted (Goulas et al., 2023). Moreover, Ristic et. al. (2022) claim that EU must adapt, reform and change its rural development policy, in accordance with the numerous requirements of the global and local environment. These communities often depend heavily on agriculture for their livelihoods but are vulnerable to economic instability, environmental degradation, and population decline (OECD, 2020). By prioritizing local food production, reducing the distance food travels from farm to consumer, and promoting sustainable farming practices, the F2F strategy offers a pathway to revitalizing rural economies and addressing these vulnerabilities. The strategy also aligns with several of the United Nations' Sustainable Development Goals (SDGs), including SDG 2 (Zero Hunger), SDG 12 (Responsible Consumption and Production), and SDG 13 (Climate Action) (United Nations, 2015).

In essence, the F2F strategy proposes a shift away from the conventional industrialized food system towards a more localized, sustainable model that benefits both people and the planet. This is particularly crucial for rural areas, where the agricultural sector is a key economic driver but is also responsible for significant environmental impacts, including soil degradation, water pollution, and greenhouse gas emissions (FAO, 2019). According to Kotyza P. (2023), after 2019 the direction of many European policies has been determined by the defined policy direction related to the climatic change. The strategy's goals, such as reducing pesticide use by 50% and expanding organic farming to cover at least 25% of EU agricultural land by 2030, aim to reduce these impacts while supporting farmers in making this transition (European Commission, 2020).

By promoting sustainable agricultural practices and shorter supply chains, the Farm to Fork strategy not only contributes to environmental sustainability but also has the potential to enhance food security and improve public health outcomes. This is achieved by ensuring that communities have access to fresher, locally produced food that is less dependent on global supply chains, which can be vulnerable to disruptions such as those seen during the COVID-19 pandemic (OECD, 2020). The paper will explore the various dimensions of the Farm to Fork strategy, emphasizing its potential as a transformative solution for rural communities, while also acknowledging the challenges that need to be addressed to fully realize its benefits.

MATERIALS AND METHODS

The methodology used on the present research paper is based on existing bibliography, aimed at critically analyzing the Farm to Fork Strategy within the framework of sustainable rural development. This method involves the collection, analysis, and synthesis of existing literature, reports, and academic articles related to the Farm to Fork Strategy, its implementation, and its implications for rural

communities. The study follows a qualitative research design, grounded on a systematic review of published secondary sources. This design allows the identification of key trends and the major challenges regarding the Farm to Fork Strategy and its implementation in rural areas of Europe.

The data was collected by searching through various academic databases (e.g., Google Scholar, JSTOR, Science Direct) and government reports like EU's reports and directives. Keywords such as "Farm to Fork Strategy," "sustainability," "local development," "local economy," and "rural communities" were used to retrieve relevant documents and academic research papers. The search included peer-reviewed journal articles, books, policy papers, and case studies published within the last few years to ensure the inclusion of the most recent findings.

FARM TO FORK STRATEGY: AN OVERVIEW

1. The Farm to Fork Strategy: An Overview

The F2F strategy was introduced as part of the European Green Deal, aiming to transition the European Union (EU) to a climate-neutral economy by 2050. It emphasizes reducing the environmental footprint of food systems, enhancing food security, and promoting the health of European citizens (European Commission, 2020). The strategy aims to:

- Reduce the use of chemical pesticides by 50% by 2030

- Reduce nutrient losses by 50%, while ensuring no deterioration in soil fertility

- Promote organic farming, with a target of at least 25% of EU agricultural land under organic farming by 2030

- Encourage a shift towards healthier and more sustainable diets

- Ensure fair economic returns for all actors in the food supply chain (European Commission, 2020).

This strategy advocates for a "circular economy" in which food production, processing, and consumption are integrated into a sustainable system, where waste is minimized, and natural resources are efficiently used (European Commission, 2020).

2. Economic Implications for Rural Communities

One of the central benefits of the Farm to Fork strategy is its potential to revitalize rural economies. Rural areas often rely heavily on agriculture, yet they face challenges such as economic instability, migration, and limited access to markets (OECD, 2020). By promoting shorter supply chains and encouraging local food production and consumption, the F2F strategy creates new opportunities for rural farmers to access local and regional markets, thereby improving their income and economic security. Studies have demonstrated that Farm to Fork strategy improves the effectiveness of the innovation system by supplying a clear and consistent objective and a variety of practical measures intended to assist creativity, knowledge and skill development (Reinhardt, 2022).

Additionally, the focus on organic farming and sustainable agricultural practices provides farmers with access to new, niche markets that are experiencing growing demand. Organic produce and locally-sourced food products are increasingly valued by consumers who are willing to pay premium prices for food that is environmentally friendly and supports local economies (IFOAM, 2021). The shift towards organic farming not only enhances profitability for farmers but also reduces dependence on chemical inputs, thereby lowering production costs in the long term.

3. Environmental Sustainability and Climate Action

Agriculture is a significant contributor to environmental degradation, including soil erosion, biodiversity loss, and greenhouse gas (GHG) emissions (FAO, 2019). The Farm to Fork strategy seeks to mitigate these impacts by encouraging sustainable agricultural practices that conserve natural resources, reduce emissions, and enhance biodiversity.

Key environmental goals of the F2F strategy include:

Reducing GHG emissions from agriculture by promoting carbon sequestration in soils, optimizing fertilizer use, and encouraging agroecological practices.

Enhancing biodiversity by reducing pesticide use, promoting crop diversification, and increasing the share of organic farming.

Supporting climate adaptation and resilience by promoting practices such as agroforestry, crop rotation, and the use of climate-resilient crop varieties (European Commission, 2020).

In rural communities, these practices can lead to significant environmental benefits. For instance, reduced pesticide and fertilizer use can improve soil health and water quality, while agroforestry can provide habitat for wildlife and enhance carbon sequestration (Altieri, 2018). The promotion of organic farming, which is a key target of the F2F strategy, can help mitigate biodiversity loss and reduce the environmental impacts of agriculture (IFOAM, 2021).

4. Social and Public Health Benefits

The Farm to Fork strategy also has significant social and public health benefits for rural communities. By promoting local food production and reducing the distance that food travels from farm to consumer, the strategy supports the consumption of fresher, more nutritious food. This is particularly important in rural areas, where access to healthy, affordable food is often limited (FAO, 2019).

Moreover, the F2F strategy's emphasis on reducing the consumption of processed foods and promoting healthier, plant-based diets aligns with global public health recommendations to combat diet-related diseases such as obesity, diabetes, and cardiovascular disease (WHO, 2020). For rural populations, where rates of diet-related illnesses are often higher due to economic and geographic factors, these dietary shifts could have a profound impact on public health outcomes.

The strategy also aims to improve working conditions in agriculture and food production, particularly for vulnerable populations such as migrant workers. By ensuring fair economic returns and better labor conditions across the supply chain, the F2F strategy can help alleviate poverty and social inequality in rural areas (European Commission, 2020).

RESULTS AND DISCUSSIONS

Despite its potential, the Farm to Fork strategy faces several challenges in its implementation, particularly in rural communities. One of the primary challenges is the financial investment required for farmers to transition to more sustainable practices, such as organic farming or agroecology (IFOAM, 2021). Many rural farmers, particularly smallholders, may lack the capital and resources necessary to make these changes without financial support from governments or other institutions.

Additionally, the shift towards shorter supply chains and local markets may require significant infrastructure development, such as the creation of local food hubs, processing facilities and distribution networks. Rural areas often suffer from

underdeveloped infrastructure, and investments will be necessary to ensure that local food systems can operate efficiently and meet consumer demand (OECD, 2020).

Finally, the F2F strategy's focus on reducing pesticide and fertilizer use may pose challenges for some farmers, particularly those who rely on conventional farming methods. Although, according to Marek and Tosun (2023), Farm to Fork Strategy, currently, defines non – binding goals for reducing chemical inputs and increasing organic land area. Education, training and technical assistance will be essential to help farmers adopt new practices and maintain productivity while reducing their environmental impact.

CONCLUSIONS

The Farm to Fork strategy represents a holistic approach to creating sustainable food systems that benefit both the environment and rural communities. By promoting local food production, reducing the environmental footprint of agriculture, and fostering economic opportunities for rural farmers, the strategy has the potential to address the unique challenges faced by rural populations. However, successful implementation will require substantial investment in infrastructure, education, and financial support for farmers transitioning to more sustainable practices. Despite these challenges, the F2F strategy offers a promising path towards a more resilient and equitable food system, with significant benefits for rural communities and the global environment.

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