Food Sustainability Index : An annual measure of 3 food production and consumption paradoxes

Overview & Key Findings Presentation for International Life Sciences Institute Annual Meeting, Bermuda

January 23, 2018



Overview

- The Food Sustainability Index (FSI) measures the sustainability of food systems in 34 countries
- Addresses three key issues outlined in the 2015 Barilla Center for Food and Nutrition (BCFN)'s Milan Protocol and designed around the Sustainable Development Goals (SDGs).
- The Index contains 35 indicators, and over 55 sub-indicators.
- These KPIs address societal, environmental and economic themes.



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Food Sustainability Index: indicator framework



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- Fish stocks
- Nitrogen Use Efficiency
- Land under organic ag
- Sustainable urban farming initiatives
- Laws to protect smallholders
- Quality of ag subsidies
- Biodiversity
- R&D expenditure
- Total factor productivity

* Select indicators only.

- SPARSE FSI ALTITIONALS
- Women in farming
- GHG emissions from ag
- Ag techniques for climate change mitigation

- Health life expectancy
- Prevalence of overweight
- DALYs for nutrition deficiencies
- Physical activity
- Sugar in diets
- Meat consumption
- Salt consumption
- GINI coefficient
- Policy response to dietary patterns
- Nutrition education



Geographic scope

The FSI represents over 85% of global GDP and two-thirds of the global population.



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Represents countries added in 2017



Key Finding: Policy impacts

Countries with robust policy environments have more sustainable food systems.



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Key Finding: Food system gaps

Even high-performing countries have challenge areas that still need to be addressed to maximise long-term food sustainability.



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The index and related materials can be found @ foodsustainability.eiu.com

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Spotlight: Food sustainability in the Mediterranean

While the northern Mediterranean countries perform well across the three index pillars, the southern and eastern countries have less sustainable food systems.



- Insufficient policies to address to food waste plague the SEMCs
- The northern Mediterranean countries have proactive government policies to limit food loss and waste
- Poor road infrastructure and low investment in transport hurt the SEMCs



- The water footprint of many SEMCs is lower than their northern counterparts
- Water withdrawals in the Middle East are particularly unsustainable
- Many SEMCs are in engaged in local initiatives to recycle water, but projects are small-scale



 Most countries across the region have embraced organic

 SEMCs have fewer policies to protect smallholders and poor animal welfare regulations

agriculture

 Educated farmers support the overall sustainability of food systems





- Malnourishment plagues the SEMCs
- Mediterranean countries suffer from higher obesity rates than Asian countries, but the SEMCs have the fewest DALYs from nutritional deficiencies globally
- SEMCs consume the recommended meat intake, unlike their northern neighbours



The FSI helps stakeholders understand sustainability challenges and identify best practices that can improve food systems globally.





Mapping the SDGs to the FSI

FSI theme	Corresponding SDGs
Food loss and waste	
Food loss	12, 2, 15
End-user food waste	12, 2, 15
Sustainable agriculture	
Water	6, 12, 14
Land	3, 4, 8, 9, 10, 12, 13, 15
Air	13, 15, 11, 12, 7
Nutritional challenges	
Life quality	1, 2, 3
Life expectancy	3, 4
Dietary natterns	1.3

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