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A MULTI-DIMENSIONAL SOLUTIONS APPROACH TO FISH LOSS AND WASTE AND STRATEGY DEVELOPMENT

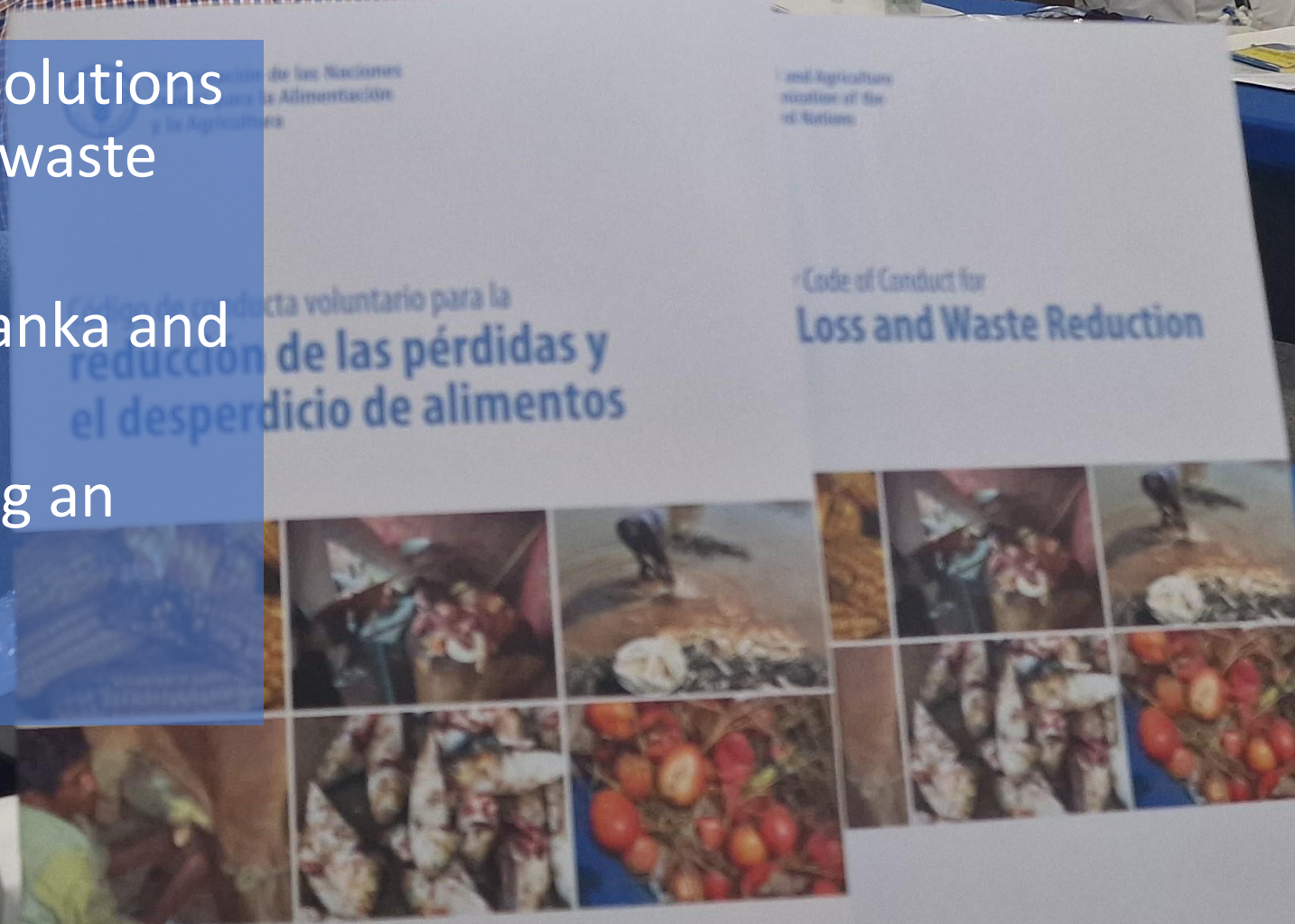
**Politécnico de Leiria
Escola Superior de Turismo e Tecnologia
do Mar (ESTM)
Peniche**

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- Describes a Multi-dimensional Solutions (MDS) approach to fish loss and waste reduction
- Experience from Colombia, Sri Lanka and United Republic of Tanzania
- Highlights key steps in developing an MDS strategy

	14,000,000	11,707,600	244,520,000
Comida	18,453,000	13,818,000	48,520,000
Proteína	17,542,500	7,900,000	48,520,000
Proteína	13,000,000	1,000,000	100,000,000
Total	817,904,776	818,542,000	279,104,922



SUSTAINABLE DEVELOPMENT GOALS



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



FAO'S STRATEGIC FRAMEWORK 2022-2031



BETTER PRODUCTION



BETTER NUTRITION



BETTER ENVIRONMENT



BETTER LIFE



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**BLUE
TRANSFORMATION**



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**CODE OF CONDUCT
FOR**

RESPONSIBLE FISHERIES

“Reducing loss of seafood (fish and fish products) will require complex and diverse actions by many different participants in the supply chain, from production to consumption.”

From: Wasted seafood in the United States (Love et al., 2015)

<https://www.sciencedirect.com/science/article/pii/S0959378015300340>



MULTI-DIMENSIONAL SOLUTIONS APPROACH



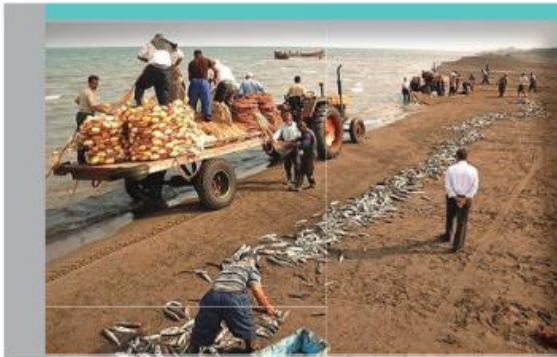
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FAO
FISHERIES AND
AQUACULTURE
PROCEEDINGS

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Regional Conference on food security and income generation through the reduction of losses and waste in fisheries

Nouakchott, Mauritania,
15-17 December 2013



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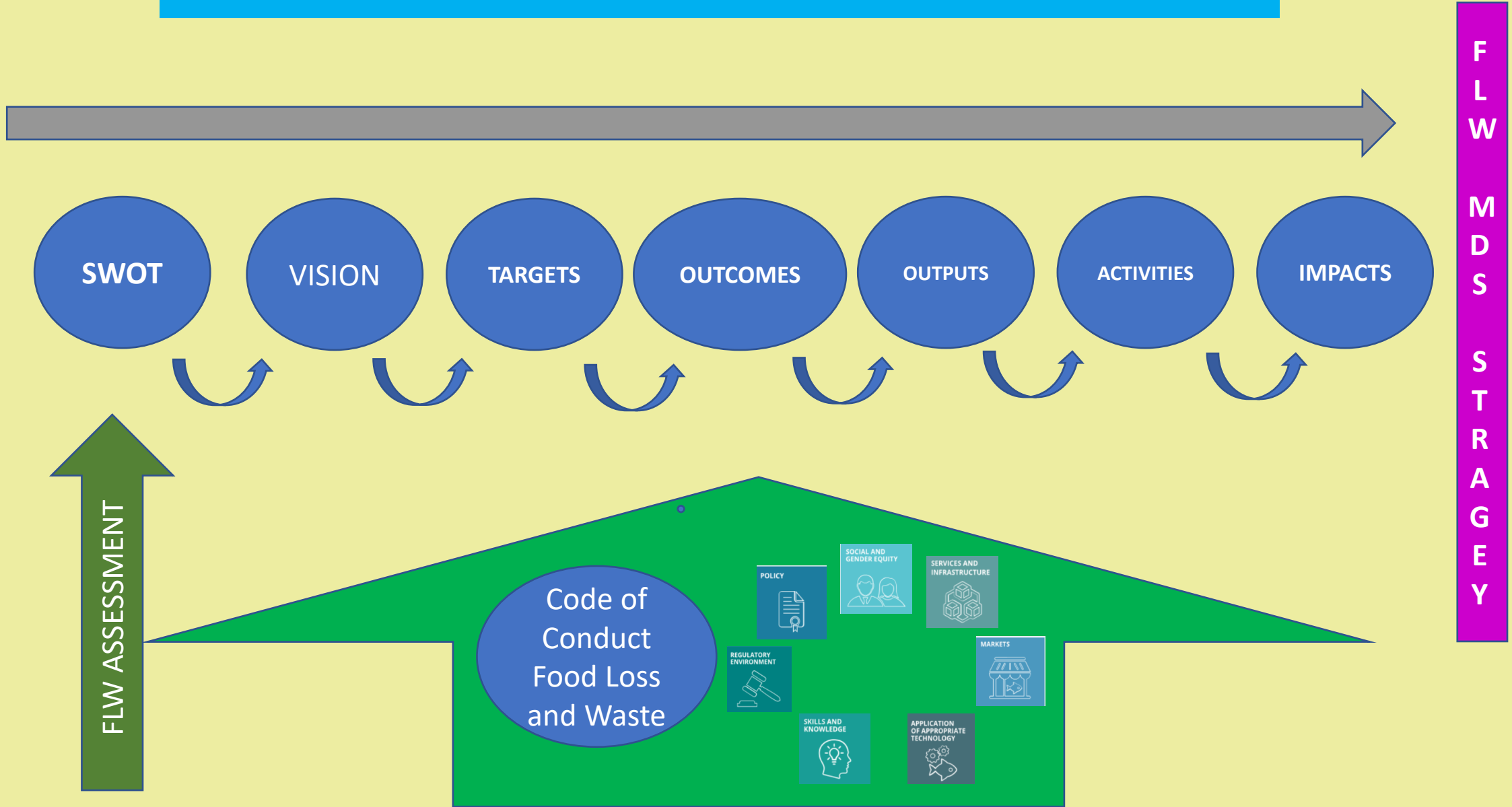
Voluntary Code of Conduct for Food Loss and Waste Reduction



A multi-dimensional solutions (MDS) approach to FLW reduction combines policy, technology, skills and knowledge, services and infrastructure, regulatory environment, social and gender equity, markets.



FLW MULTI-DIMENSIONAL SOLUTIONS STRATEGY PROCESS



MDS strategies recently been developed

- Colombia – various supply chains in Tumaco
- Sri Lanka – multi-day fishery
- Tanzania – small pelagics



A background image showing a busy fish market scene. In the foreground, several large, dark fish are laid out on a wooden surface, likely the deck of a boat. The fish have prominent eyes and some have their mouths open. In the background, a group of people, including men and women, are standing and talking. They are wearing various casual clothing like t-shirts and caps. The scene is outdoors, and the lighting suggests it's daytime. The overall atmosphere is one of a bustling, active market.

In Sri Lanka the focus was on the multi-day fishery where losses are linked to long fishing trips and inadequate handling at sea, the following shared **Vision** was developed by a mix of public and private stakeholders and then agreed at a national workshop:

“By 2033, the quality loss in the multi-day fishery of Sri Lanka will be reduced by 30% through the implementation of policies and the introduction of improved new technology, a strengthened regulatory framework, enhanced skills and knowledge, systems and practices as well as the development of infrastructure, contributing to an improved domestic and export sector and ultimately to the national economy and food security and nutrition. Sri Lanka will be a leading country in South Asia in fish loss and waste reduction.”

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- Plans and assessments
 - Technology transfer, innovation and design
 - Finance and investment
 - Capacity building
 - Policy and Regulatory framework reviews and reform
 - Empowerment of stakeholders

Boat owners, skippers and fishers apply improved technology and better practices

Consumers demand better quality of fish

Ice producers supply better quality ice

Regulatory bodies and government better able to implement legislation

Supply chain actors (transporters, wholesalers, retailers) improve handling practices

Processors and buyers supplying the domestic market demand better quality fish

Local government authorities empowered to invest in and apply fish loss and waste solutions

Research organizations disseminate and raise awareness of results amongst the grassroots

Uso responsable de los **recursos pesqueros** y acuícolas para el desarrollo sostenible

Reducir las pérdidas en el **sector pesquero** mejorará las condiciones económicas, ambientales y nutricionales de **pescadores artesanales**, los consumidores, los servicios e infraestructuras del mercado, la educación en su...

VISIÓN

- MDS approach to fish loss and waste reduction offers a joined-up approach to FLW reduction
- MDS strategy - road map to FLW reduction
- Work in progress
- FAO intend to promote this approach when and where possible
- Develop associated materials to support MDS uptake
- [Food Loss and Waste in Fish Value Chains webpage](#)

Thanks to....



- Norwegian Agency for Development Cooperation (Norad)
- National Aquatic Resources Research and Development Agency (NARA) and Department of Fisheries (DoF), Sri Lanka
- Institute for Marine and Coastal Research (INVEMAR - Instituto de Investigaciones Marinas y Costeras), Colombia
- Tanzania Fisheries Research Institute TAFIRI
- Pushpa Chandrani, Heysel Calderon and Joseph Luomba, FAO National Project Officers