





STAAA PhD OPEN DAY

Dipartimenti di Eccellenza 2018-2022 DISTAL The Nexus Approach for Sustainability in Agriculture, Food, Energy & Water

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Short food supply chains and sustainable diets: combining life cycle costing and financial regulatory instruments to support the urban food policy agenda

> PhD candidate: **Mara Petruzzelli** Cycle: XXXVI

(supervisor: Prof. Matteo Vittuari; co-supervisor: Prof. Rico Ihle)



Background

Sustainable food consumption patterns are today at the heart of the global debate

guided by two major international policy documents



A consistent focus is toward the support of Short Food Supply Chains (SFSC) (Augère-Granier,

2016), considered as a major driver for sustainability (Galli & Brunori, 2013)

Background

Short Food Supply Chains can take a variety of structures



Problem

The diffusion of these chains remains limited due to a **declined affordability** (Galli & Brunori, 2013). Is this because their consumer price internalises a larger set of **social and environmental costs?**



(True Price, 2018)

Thesis Scope



Analyse the **true cost of food** in Short Food Supply Chains and develop **urban food policy strategies** to internalise food externalities and make their food more widely affordable to consumers

Three hypothesis to be verified:

- 1: Short Food Supply Chains are relevant for the achievement of today's policy objectives
- 2: Short Food Supply Chains internalise larger social and environmental costs than conventional chains
- 3: Urban food policies can tackle the price gap through regulatory tools

Work Flow

Activities Month		2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36
1)	Literature review & text analysis																		
	1) Common understanding of SFSC benefits																		
	2) Mapping of the role of SFSC in achieving Sustainable Development Goals and Milan Urban Food Policy Pact																		
2)	True cost analysis																		
	1) Development of a Life cycle costing methodology																		
	2) Case study assessment on SFSC																		
3)	Food Policy development																		
	1) Regulatory tool design																		
	2)Policy Impact																		
4)	Preparation of thesis																		

What we found so far?

1: SFSC are relevant for the achievement of today's policy objectives_Systematic Literature review

The positive impact of these chains, across time and space is largely confirmed by scientific literature



1: SFSC are relevant for the achievement of today's policy objectives_Text analysis

Map their contribution toward the Sustainable Development Goals Milan Urban Food Policy Pact Action



Hypothesis confirmed

What we found so far?

2: Short Food Supply Chains internalise larger social and environmental costs than conventional chains – Life Cycle Costing





Definition of an appropriate food basket



Selection of a case study



Reviews of Life Cycle Costing as a true cost methodology

Societal Impact

Demonstrates why short food supply chains are key for the SDGs and MUFPP

Reveals the environmental and social costs internalised by short food supply chains Provides evidencebased knowledge for the design of food policies







Thank you for the attention!

Essential References:

- Augère-Granier, M.-L. (2016). Short food supply chains and local food systems in the EU. European Parliamentary Research Service, September, 1–10. <u>https://www.researchgate.net/publication/264388299%0Ahttp://www.europarl.europa.eu/RegData/etudes/BRIE/2016/586650/EPRS_BRI(2016)586650_E</u> <u>N.pdf</u>
- Galli, F., & Brunori, G. (2013). Short food supply chains as drivers of sustainable development. In Evidence Document. Document Developed in the Framework of the FP7 Project FOODLINKS; (GA No. 265287).
- *MUFPP.* (2015). *Milan Urban Food Policy Pact and Framework for Action. Milan Urban Food Policy Pact, October.* <u>http://www.milanurbanfoodpolicypact.org/wp-content/uploads/2016/06/Milan-Urban-Food-Policy-Pact-EN.pdf</u>
- True Price (2018). The True Cost of Cocoa. Tony's Chocolonely 2018 progress report. Amsterdam, The Netherlands.
- UN. (2015). Transforming Our World: The 2030 Agenda for Sustainable Development.