

Supplementary material

Food sovereignty at the organizational level: A framework for characterizing the diversity of economic actors

Overview:

1. Literature sample
2. Main analytical questions of the theoretical thematic analysis
3. Table 6: Diversity of Economic Actors striving for Food Sovereignty (EAFS) identified from the literature sample

1. Literature sample

List of the 108 reviewed publications chosen for thematic analysis during the integrative literature review (in alphabetical order).

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2. Main analytical questions of the thematic analysis

For the thematic analysis (outlined in chapter 3.3), we used analytic questions starting from the two overarching research questions (see chapter 1). These are:

- 1 Which patterns regarding EAFS can be identified in the food sovereignty literature?
- 2 How can the diversity of EAFS be conceptualized?

The aim of the study was to extract the data aligned with the research questions and the Conceptual and theoretical background (organizational perspectives see chapter 2) for an understanding of how the topic under research (conceptualization of EAFS; term definition, see chapter 1) has evolved in the food sovereignty literature (literature data sample see chapter 3.2). Starting from the two overarching research questions, the main analytical questions during the thematic analysis are:

What do the food sovereignty data sample reveal about

- individual organizations (along the agri-food supply chain) which are engaged in economic activity (e.g., CSA),
- individual actors which are engaged in economic activity,
- examples that are covered by the understanding of EAFS,
- existing self-definitions and/or understandings of food sovereignty by the identified individual organizations and individual actors,
- used and cited food sovereignty definitions,
- food sovereignty practices,
- production related patterns (along the agri-food supply chain (e.g. processing, processors, CSA),
- organization(al) related patterns,
- food sovereignty generation,
- food sovereignty frameworks with links to the above questions/aspects,
- food sovereignty indicators with links to the above questions/aspects?

3. Table S6: Diversity of Economic Actors striving for Food Sovereignty (EAFS) identified from the literature sample

TABLE S6 Diversity of Economic Actors striving for Food Sovereignty (EAFS) identified from the literature sample

The diversity of EAFS was identified from the literature sample. Economic actors are grouped along the agri-food supply chain (grouping and illustration by the authors).

Agri-food supply chain view with various positions, stages, and sectors:	Identified EAFS (selection). This includes both individual organizations engaged in economic activity and their individual actors (organizational members including founders, organizers, workers, volunteers, etc.)	Mentioned in the following references from the literature sample (selection):
Pre-production activities and agricultural inputs sector	Producers, manufactures, agricultural supply stores, agricultural input stores, agro-input stores and service providers for credit, implements, tractors, manure and compost fertilizers, fuel, digital technology.	e.g., Ortega-Cerdà and Rivera-Ferre 2010; Badal et al. 2011; Kerr 2013; Calix de Dios et al. 2014; First Nations Development Institute 2014; Pimbert 2018; Carolan 2018; Pollans 2018; Ruiz-Almeida and Rivera-Ferre 2019; Soper 2020.
	Seed and seedlings production, peasant own-seed production, on-farm seed production, seed storage and treatment, open source licenses for seed development.	e.g., Kerr 2013; Binimelis et al. 2014; Dekeyser et al. 2018; Porcuna-Ferrer et al 2019.
	Providing land by land cooperatives and land trust organizations.	e.g., Wittman et al. 2017.
Primary production sector	Primary production and small-scale producers, especially peasants as key players of a first food sovereignty generation with different types of farming, fishing and livestock keeping.	e.g., Dunford 2015; Borras et al. 2015; Dekeyser et al. 2018; Soper 2020.
	Peasants, peasant farmers, peasant farms, peasant agriculture, peasant producers, peasant-driven agriculture, poor peasants, rich peasants.	e.g., Figueroa 2015; Pimbert 2018; Calvário et al. 2019; Paddock and Smith 2017; Soper 2019; Gliessman et al. 2019; Thiemann and Roman-Alcalá 2019; Madsen 2021; van der Ploeg 2021; Seminar et al. 2018; Borras et al. 2015.
	Farms, small farmers, smallholder farmers, local farmers, part-time farmers.	e.g., Ayres and Bosia 2011; Fairbairn 2011; Kerr 2013; Borras et al. 2015; Blesh and Wittman 2015; Beingassner and Fletcher 2019; Gliessman et al. 2019; Naylor 2019; Blue et al. 2021.
	Family farm, family farms, family farming, family-farmer driven agriculture.	e.g., Fairbairn 2011; Blesh and Wittman 2015; Pimbert 2018; Thiemann and Roman-Alcalá 2019; Gliessman et al. 2019; Sippel and Larder 2019.
	Immigrant farmers.	e.g., Alkon and Mares 2012; Korsunsky 2020.
	Indigenous peasants, indigenous peasant producers, indigenous peasants producer cooperative.	e.g., Soper 2019.
	Black farming, black farmers, black urban farmers, black family farms, black farming communities.	e.g., Alkon and Mares 2011; Figueroa 2015; Taylor 2018.
	Urban farmers, black urban farmers, urban farming, urban agriculture, urban agricultural practitioners; urban agriculture organization, urban agriculture organizations and businesses, community-supported agriculture (CSA) urban farm, CSA urban farm organization.	e.g., Reardon and Pérez 2010; Kato 2013; Clendenning et al. 2015; Leitgeb et al. 2015; Hoey and Sponseller 2018; McClintock 2018; Powell and Wittman 2018; Taylor 2018; Resler and Hagolani-Albov 2019 ; Sieger et al. 2019.
	Urban gardens, urban gardeners, community gardens, urban community gardens, homegardens, guerilla gardening, community and school gardens and backyard food, food gardening in practices (urban, peri-urban, rural).	e.g., Alkon and Mares 2011; First Nations Development Institute 2014; Borras et al. 2015; Desmarais and Wittman 2015 ; Garcia-Sempere et al. 2018; Naylor 2019; Resler and Hagolani-Albov 2019; Abdoellah et al. 2020; Sippel and Larder 2021.
	Small- to medium, small- to medium-scale, small and medium-sized farms, small- and medium-scale farmers, small-to-medium-sized farms, small-to-medium-size family farms, small and medium-sized producers, small and medium scale abattoirs and processors, small-scale, small-scale peasant	e.g., Lutz and Schachinger 2013; Desmarais and Wittman 2015 ; Roman-Alcalá 2015; Calvário 2017; Powell and Wittman 2018; Pimbert 2018; Taylor 2018; Lubbock 2019; Pye 2019; James et al. 2021.

	agriculture, peasant, family, and collective production.	
	Agroecological producers; producers using agroecological production practices, diversified agroecological system, agroecological model, agroecological production models.	e.g., Blesh_Wittman_2015; Vallejo-Rojas et al. 2016; Calvário 2017; Dekeyser et al. 2018; Garcia-Sempere_Garcia_Sempere_et al 2018; Gliessman et al. 2019.
	Organic farming, organic practices, organic products.	e.g., Lutz and Schachinger 2013; Di Masso et al. 2014; Gordon 2016; Al Shamsi et al. 2018; Alberio and Moralli 2021; Levkoe and Blay-Palmer 2018.
Other producers	Peasants and farmers various work roles such as preparation of agricultural inputs, food processing, post-harvesting, and distribution.	e.g., Seminar et al. 2018; Pye 2021.
	Food producers, small producers, food and small and marginal producers, marginalized small-scale producers, small-scale producers, domestic producers, local producers, greater producer autonomy, diverse food providers.	e.g., Fairbairn 2012; Desmarais and Wittman 2014; Larder et al. 2014; Borrás et al. 2015; Dunford 2015; Plahe et al. 2017; Anderson 2018; Dekeyser et al. 2018; Pimbert 2018; Portman 2018; Powell and Wittman 2018; Tramel 2018; Naylor 2019; Ruiz-Almeida and Rivera-Ferre 2019; Blue et al. 2021.
	Food businesses, small-scale food businesses, worker-owned food businesses, organic food businesses, food businesses that implement sustainable sourcing and/or fair remuneration.	e.g., First Nations Development Institute 2014; Pimbert 2018; Thiemann and Roman-Alcalá 2019; Koenlsler 2020.
	Small food enterprises, local food enterprises. Local food entrepreneurs, cooperative food enterprises, peasants network with small or mid-sized food enterprises to distribute products.	e.g., Alkon and Mares 2012; First Nations Development Institute 2014; Clendenning et al. 2016; Pimbert 2018; Seminar et al. 2018.
Postproduction activities with need for food infrastructure	Food infrastructure, local food infrastructure, aggregation hubs and distribution infrastructure; Connection, flows, and links of goods and services (e.g., purchase, transport, processing, storage, cooling, related equipment) between producing farms and final consumption.	e.g., Lutz and Schachinger 2013; Binimelis et al. 2014; Desmarais and Wittman 2014; Campbell and Veteto 2015; Leitgeb et al. 2016; Sonnino et al. 2016; Levkoe and Blay-Palmer 2018; Pollans 2018; Schiavoni et al. 2018; Seminar et al. 2018; Thiemann and Roman-Alcalá 2019; Siegner et al. 2020; van der Ploeg 2020; Keske 2021; Levkoe et al. 2021.
Food processing	Food processors, food processing facilities, food processing, processed food, local food processing, local processing, locally-based food processing facilities, less industrialized food processing chains, seafood processing, local processed food, 'food sovereign' channels of food processing.	e.g., Fairbairn 2012; Kato 2013; First Nations Development Institute 2014; Larder et al. 2014; Borrás et al. 2015; Schiavoni 2016; Pollans 2018; Courtheyn 2018; Hoey and Sponseller 2018; Anderson 2018; Levkoe and Blay-Palmer 2018; Paddock and Smith 2018; Pimbert 2018; Garcia-Sempere et al. 2019; Thiemann and Roman-Alcalá 2019; Ertor-Akyazi 2020; Matacena and Corvo 2020; Keske 2021; Robinson 2021.
	Small-scale processors, small-scale food processors, small-scale processing, small scale food supply and processing, small food processing laboratories, small regional processors, decentralized processing, re-establish small- and medium-scale abattoirs and processors.	e.g., Lutz and Schachinger 2013; Hoey and Sponseller 2018; Garcia-Sempere et al. 2019; Beingessner and Fletcher 2020; Koenlsler 2020; James et al. 2021.
	Abattoirs, re-establish small- and medium-scale abattoir, culturally appropriate butcher shop, meat processing, slaughterhouses.	e.g., Levkoe and Blay-Palmer 2018; van der Ploeg 2020; James et al. 2021.
	Mill, businesses milling flour.	e.g., Levkoe and Blay-Palmer 2018
Distribution	Distribution, food distribution, food distributor, distributor, distributors, local distribution, different modes of distribution, means of distribution, decentralized distribution, 'food sovereign' channels of food distribution, distribution of resources, critique of existing systems of food distribution.	e.g., Kato 2013; First Nations Development Institute 2014; Larder et al. 2014; Borrás et al. 2015; Plahe et al. 2017; Anderson 2018; Dekeyser et al. 2018; Pollans 2018; Courtheyn 2018; Hoey and Sponseller 2018; Taylor 2018; Garcia-Sempere et al. 2019; Thiemann and Roman-Alcalá 2019; Beingessner and Fletcher 2020; Matacena and Corvo 2020; Blue et al. 2021; Sippel and Larder 2021.
	Farmers' markets, local farmers markets, black farmers' markets.	e.g., Holt Giménez and Shattuck 2011; Alkon and Mares 2012; Fairbairn 2012; Larder et al. 2014; Clendenning et al. 2016; Pollans 2018; Taylor 2018.
	Direct producer–consumer markets and other direct trade links such as food co-ops, food co-op, community-run co-ops, collective-purchasing groups, purchasing groups, collectively purchasing direct	e.g., Lutz and Schachinger 2013; First Nations Development Institute 2014; Borrás et al. 2015; Hoey and Sponseller 2018; Garcia-Sempere et al. 2018; Thiemann and

	from the farmers, and other organizations of consumers (see also AFNs); bypassing merchants, peddlers and vendors to promote direct producer–consumer markets.	Roman-Alcalá 2019; Maticena and Corvo 2020.
Retail	Wholesalers, supermarkets, local commerce and supermarkets, family-run stores, small family stores, grocery stores, cooperative-supermarket, cooperatively owned grocery stores, community-led grocery stores, local stores, food store keepers, health food shops and supermarkets, farmers store.	e.g., Alkon and Mares 2012; Lutz and Schachinger 2013; First Nations Development Institute 2014; Borrás et al. 2015; Clendenning et al. 2016; Calvário 2017; García-Sempere et al. 2018; Loyer and Knight 2018; Paddock and Smith 2018; Thiemann and Roman-Alcalá 2019; Beingessner and Fletcher 2020; Alberio and Moralli 2021.
Cross-sector forms / interactions	Alternative food networks (AFNs) – see also local food networks, CSA, food hubs etc. In addition, see the conceptualization of civic food networks (CFNs) by Renting et al. (2012).	e.g., Di Masso and Zografos 2015; Moragues-Faus 2016; Moragues-Faus and Marsden 2017; Maticena and Corvo 2020; Blue et al. 2021.
	Community-supported agriculture (CSA), CSA model, CSA farm, CSA initiatives, CSAs, local CSA farm, local marketing arrangements like CSA, direct producer–consumer markets and other forms of CSA, forms of CSAs, food sovereignty 'from below' by reinforcing the link with consumers through CSA.	e.g., Ayres and Bosia 2011; Holt Giménez and Shattuck 2011; Alkon and Mares 2012; Claeys 2012; Fairbairn 2012; Lutz and Schachinger 2013; Larder et al. 2014; Borrás et al. 2015; Wittman et al. 2017; García-Sempere et al. 2018; Levkoe and Blay-Palmer 2018; Pimbert 2018; Gliessman et al. 2019; Naylor 2019; Stapleton 2019; Beingessner and Fletcher 2020; Maticena and Corvo 2020; Sippel and Larder 2021.
	Short food-supply chains	e.g., Al Shamsi et al. 2018; Maticena and Corvo 2020; Alberio and Moralli 2021.
	Food hub, food hub models, local food hubs, regional food hubs, regional distribution infrastructure such as food hubs, food hub.	e.g., Lutz and Schachinger 2013; Figueroa 2015; Laidlaw and Magee 2016; Moragues-Faus and Marsden 2017; Hoey and Sponseller 2018; Levkoe and Blay-Palmer 2018; Pollans 2018; Siegner et al. 2020.
Vertical forms	Active vertical network building by food initiatives, construction of (vertical) cooperatives, vertical enterprises to build their own (black) agri-food supply chains, other (black) supply chain organizations.	e.g., Sonnino et al. 2016; Taylor 2018; van der Ploeg 2020.
	Cooperation, networks, alliances across the supply chain as between producers, processors, and consumers; networks involving farmers, retailers, consumers, and food processors; new alliances that can be developed between producers and consumers in new rural-urban alliances.	e.g., Lutz and Schachinger 2013; Borrás et al. 2015; Figueroa 2015; Moragues-Faus 2016; Dekeyser et al. 2018; Pollans 2018; García-Sempere et al. 2019; Beingessner and Fletcher 2020; Maticena and Corvo 2020.
Out-of-home consumption	Restaurants, local restaurants, non-fast food restaurants, community-supported restaurant, participating restaurants, restaurant with direct producers/sales, supplying nearby restaurants, intermediate buyers such as small restaurants and catering businesses, canteens, schools, public schools, farm to school movement, farm-to-school programs, farm to school non-profit organization, farm-to-cafeteria.	e.g., Ayres and Bosia 2011; Alkon and Mares 2012; Fairbairn 2012; First Nations Development Institute 2014; Clendenning et al. 2016; Al Shamsi et al. 2018; McClintock and Simpson 2018; Powell and Wittman 2018; Taylor 2018; Stapleton 2019; Thiemann and Roman-Alcalá 2019; Beingessner and Fletcher 2020; van der Ploeg 2020.