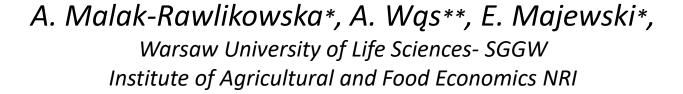


The CAP and national priorities within the EU budget after 2020

WPR i priorytety narodowe w warunkach budżetu UE po 2020 roku

Dilemas of support for short food supply chains (SFSC) in the context of their economic, environmental and social sustainability

FOOD QUALITY FOR SUSTAINABILITY AND HEALTH











Our Common Future

[Gro Harlem Brundtland 1987]

Sustainable development – TRWAŁY ROZWÓJ

development which meets the needs of the present without compromising the ability of future generations to meet their own needs

Bases on to two definitions:

"needs" - specially the most basic needs of the poorest part of population, which should have the higest priority;

"limitations" - given capabilities of environment to meet present and future needs.



Sustainable development

A - equity and fairness

B - burden

C - resilience

Society

Mobility
Natural heritage

C.

Fairness

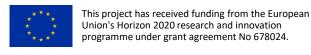
В.

Economics

Access to services
Needs of households
Development of industry
Development of agriculture
Labour productivity

Environment

Biodiversity
Natural resources
Ecosystems integrity
Capacity of environment
Clean air&water





European Model of Agriculture

Conditions for development of Agriculture in the EU:

- Lower potential (per unit) of the farms,
- High share of family-labour and part-time work,
- Low production scale,
- Low specialisation level (multi-directed production),
- High land prices.

EUROPEAN MODEL OF AGRICULTURE

- based on a strong relationship with the farm environment and the natural environment, using its own labour resources with relatively limited individual concentration,
- producing in modern way, but without excessive exploitation of nature and the environment,
- producing food primarily for **inhabitants of the region**, but also gradually increasing export possibilities,
- respecting strict quality, environmental and food safety standards.

[Source: Agenda 2000; The European Model of Agriculture 2006; Kowalczyk, Sobiecki 2011]

SFSC Legal basis and definition

Rozporządzenie Parlamentu Europejskiego i Rady (UE) nr 1305/2013 Art.2

PL - Krótki łańcuch dostaw oznacza łańcuch obejmujący ograniczoną liczbę podmiotów gospodarczych zaangażowanych we współpracę, lokalny rozwój gospodarczy oraz bliskie stosunki geograficzne i społeczne między producentami, przetwórcami i konsumentami ".

EN - "short supply chain": means a supply chain involving a limited number of economic operators, committed to co- operation, local economic development, and close geographical and social relations between producers, processors and consumers"

Support of SFSC Rural Development Plan 2007-2013

- Participation of farmers in food quality schemes (dz. 132)
- Information and promotion activities (dz. 133)
- Vocational training for people employed in agriculture and forestry (dz.111)
- Using consultancy services by farmers and forest owners (dz. 114)
- Other indirectly related to SFSC:

Setting-up of young farmers,
Modernisation of agricultural holdings,
Increasing the added value of agricultural and forestry production,
Agricultural producer groups,
Agri Environment Measures,
LEADER.

Support of SFSC RURAL DEVELOPMENT PLAN 2014-2020

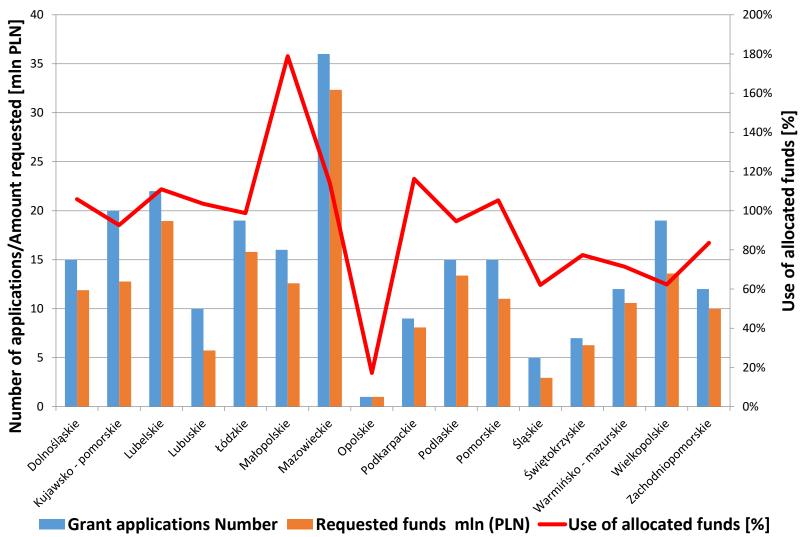
- Quality schemes for agricultural products, and foodstuffs
- Basic services and village renewal in rural areas "Investments in farmers' markets or places for promotion of local food products"
- **Knowledge transfer and information actions**
- Advisory services, farm management and farm relief services
- Farm and business development,
- Other indirectly related to SFSC:

Setting-up of producer groups and organisations **LEADER** co-operation activities, Organic farming, Investments in physical assets, Agri Environmental and Climate Measures, Organic farming





Investments in farmers' markets or places for promotion of local food products





STRENGTH2FOOD.EU

STRENGTH2FOOD.EU

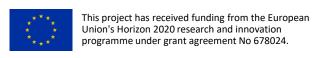
STRENGTH2FOOD

Support for participation in the food quality schemes

	Grant	Support	Allocated funds (mln PLN)		
	applications	granted	TOTAL	*EAFRD	spui
RDP 2014-2020	3373	2017	13.43	8.55	of allocated funds
- Call I	1186	739			oca
- Call II	1489	1278			of all
- Call III	698	-			Use c
Commitments RDP 2007-2013		14490**	24.64	15.68	
TOTAL			38.06	24.22	61.2%

^{*}EAFRD - European Agricultural Fund for Rural Development

^{**}Payment applications for RDP 2007-2013 grants





Research question

Does the support for development of Short Food Supply Chains enhance accomplishment of the challenges of European agriculture in social, economics and environmental dimensions?

Czy wsparcie rozwoju Krótkich Łańcuchów Żywnościowych stanowi odpowiedź na wyzwania europejskiego rolnictwa w wymiarze społecznym, ekonomicznym i środowiskowym?



Assessing sustainability of SFSC

Objective:

To provide quantitative and qualitative assessment of economic, environmental and social sustainability;

Approach:

Comparison of "short" and "long" (counterpart) chains

Countries: Poland, Norway, UK, Italy, France, Hungary

Pilot Case studies: in Poland and France



Types of Food Chains

""," "SHORT" CHAINS (0-1 INTERMEDIARIES) "LONG" – CHAINS (2+ INTERMEDIARIES)

- Pick your own
- •On-farm sales to individual consumers
- Direct sales: Internet deliveries
- Direct sales: delivery to consumer
- Direct sales on farmers markets (fairs)
- Sales to retail shops (1 intermediary)

- On-farm sales to intermediary
- Sales to wholesalers or wholesale market
- Sales to retail chain (2 intermediaries)
- Sales for processing



Sustainability INDICATORS

Economic

- **Price premium** /Price difference;
- Chain Value Added
- (Retailer Margin)
- (Chain Margin)
- Labour-to**production** ratio

Social

- **Gender equality**
- Value chain governance
 - bargaining power – self assessment;
 - chain importance evaluation;

Environmental

- **Carbon footprint** (CFP)
- **Extended food** miles
- (FOOD WASTE in retail)





FOOD QUALITY FOR SUSTAINABILITY AND HEALTH

Case studies

DATA COLLECTION by Excel questionaire



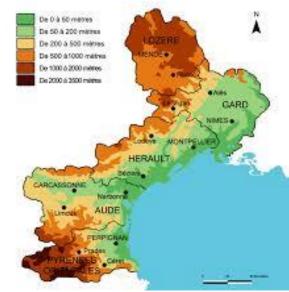


French case – LOCAVORIUM SHOP

The local shop "Locavorium": a gate into SFSCs in Languedoc-Roussillon, with a sourcing concept based on zero intermediaries and max 150 km between farm and shop.

 7 Farmers: suppliers to LOCAVORIUM SHOP (FR)

Products: apples, carrots, lettuce, cheese, ham,





Polish case – PGI Korycin Cheese **Producers**

- **Korycin Cheese** is a local variety of rennet cheese, maturing, produced from unpasteurized cow's milk based on the traditional, old recipe.
- **There is a group of 12 farmers** who in 2012 registered the Korycin Cheese as the product of the Protected Geographical Indication (PGI). The average farm size in the group is 29 hectares.
- Producers of the Korycin cheese participate in a variety of distribution channels, ranging from on-farm sales, through SFSCs and long chains involving a number of intermediates











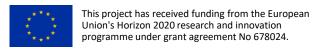
Polish case – EKOŁAN Organic grains producers



- Sample of 14 organic farms that supply with organic grains the pasta company "Bio Babalscy".
- Cereals are mainly **old varieties of wheat** which are not grown any longer in conventional production.
- All grains are sold for processing, but different short channels are used by farmers for selling vegetables and fruits.







[%]

2,1

1,4

91,4

1,8

89,6*

100

Sna	Share of Channels in French and Polish N. farmers Sales N. Sales through Number of Sales						
Sales of product by channels	N. farmers KORYCIN PL	Sales through channels [%]	N. farmers French case	Sales through channels [%]	Number of farmers Polish case - Ekolan	Sales through channels	
"Short" channels	9	38,3	7	88,2	14	8,6	
Pick your own	-	-	1	1,4			
On-farm sales to individual consumers	3	3,9	6	6,8	8	5,1	
Direct sales - Internet deliveries	4	8,1	1	1,0			
Direct sales - delivery to consumer	1	3,4	3	5,2			

1

6

5

5

1

0

73,7

11,8

3,7

8,1

100

3

3

14

2

13*

8,4

14,6

61,7

11,3

38,7

11,8

100

6

8

2

4

2

Direct sales on farmers

Sales to retail shops (1

"Long" channels

Sales to wholesalers or

Sales to retail chain (2

On-farm sales to

wholesale market

intermediaries)/ or

processing*

Total

intermediaries*

markets (fairs)

intermediary)

Price Chain CARBON Labour to Gender Chain									
Chains \ indicators		Premium [%]	Added Value [€]	FOOD MILES km/unit TOTAL	FOOTPRINT [kg CO ₂ /kg]	production ratio	equality [%]	Bargainin g power	evaluatio n
Korycin Cheese farmers									
Short chains	Mean	30	0,78	4,43	1,12	0,12	86	3,58	3,81
Long chains	Mean	16	0,50	2,47	0,86	0,06	47	3,13	3,38
				Locavoriu	ım shop				
Short chains	Mean	27	0,00	0,59	0,15	0,03	25	3,14	3,58
Long chains	Mean	-57	-0,47	0,60	0,15	0,02	24	2,5	3,00
kołan Organic producers									
Short chains	Mean	60	0,14	0,37	0,08	0,03	23	4,29	3,90
Long chains	Mean	49	0,14	0,05	0,03	0,00	25	4,71	4,32

Conclusions from case studies

- Individual farmers in most cases participate in a number of supply channels
- SFSCs are **economically more beneficial** for farmers
- It seems that "long supply" channels generate less negative environmental impacts per unit of production
- Social indicators are "better" for short chains
- Although initial results are indicative, they need to be verified on a larger sample of farms and supply chains.

