



The World's Largest Open Access Agricultural & Applied Economics Digital Library

This document is discoverable and free to researchers across the globe due to the work of AgEcon Search.

Help ensure our sustainability.

Give to AgEcon Search

AgEcon Search
<http://ageconsearch.umn.edu>
aesearch@umn.edu

Papers downloaded from AgEcon Search may be used for non-commercial purposes and personal study only. No other use, including posting to another Internet site, is permitted without permission from the copyright owner (not AgEcon Search), or as allowed under the provisions of Fair Use, U.S. Copyright Act, Title 17 U.S.C.

No endorsement of AgEcon Search or its fundraising activities by the author(s) of the following work or their employer(s) is intended or implied.

Protection of Geographical Indications in Trade Agreements: Is It Worth It?

Charlotte Emlinger and Karine Latouche

Selected presentation for the International Agricultural Trade Research Consortium's (IATRC's) 2022 Annual Meeting: Transforming Global Value Chains, December 11-13, 2022, Clearwater Beach, FL.

Copyright 2022 by Charlotte Emlinger and Karine Latouche. All rights reserved. Readers may make verbatim copies of this document for non-commercial purposes by any means, provided that this copyright notice appears on all such copies.

Protection of Geographical Indications in Trade Agreements: is it worth it?

Charlotte Emlinger^a, Karine Latouche^b

^a CEPPII

^b SMART, INRAE

IATRC, 12/12/2022

BATModel better agri-food
trade modelling
for policy analysis



Geographical indications (GIs)

- Provide consumers with information on the geographical provenance and the characteristics of the products
- Aim at promoting and protecting the names of agricultural products and foodstuffs according to their origin
- Intend to sustain the competitiveness within the agri-food chains



European GIs in trade agreements

- Long time contentious issue in European trade relationships (WTO DSB in 1999 with the US, in 2003 with Canada...)
- Promoted by the European Union in multilateral and bilateral negotiations
- List of GIs included in recent EU trade agreements
 - EU-Korea (2012), EU-South Africa (2017), EU-Canada (2018), EU-Japan (2019)...

Literature on Gls

- Consumer's side : perception of labelled products (*Menapace et al. 2011, Hassan et al. 2011, Deselnicu 2013...*)
- Producer's side : Impact of Gls on survival of firms (*Bontemps et al. 2013*)
- Exporter's side : *Duvaleix, Emlinger, Gaigné et Latouche 2021* on the French cheese industry
 - Price and quality effect of GI on exports
 - Higher market access to European markets and to countries with a similar policy about geographical indications
 - No volume effect

This paper

- Investigates the impact of the inclusion of lists of GIs in European RTA on trade patterns
 - at the extensive margin (probability of export)
 - at the intensive margin (value)
 - on unit value (proxy for prices)
- Uses an original and exhaustive dataset of French agri-food firms data concerned by geographical indications
 - merged with customs data
 - merged with data on firms characteristics
- Shows that protection of GIs in RTA has a positive impact on trade

Data sources

- **INAO dataset** : authorized plants for a given GI product 2012-2019
- **French customs dataset** : export in value and quality, by firm, destination and NC8 product
- **FARE Dataset** from INSEE : characteristics by firm and year (size, productivity)
- list of GIs products included in RTA

Correspondance issues

1 Correspondence **GI products** \Rightarrow **NC8 codes**

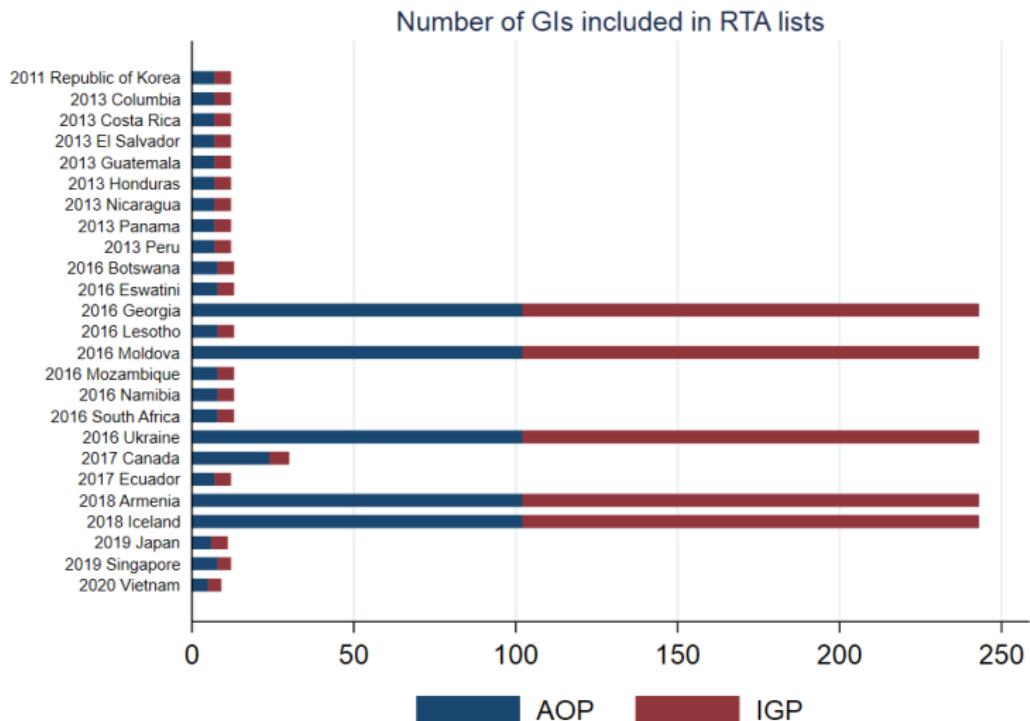
- A GI product may correspond to several NC8
- A NC8 may correspond both to GI and non-GI product
 - \Rightarrow All exports of a authorized firm of a NC8 code concerned by a GI are considered labelled in our dataset
 - \Rightarrow GI firms may export both labelled and non-labelled products

2 Correspondence **plant** (SIRET) \Rightarrow **firms** (SIREN)

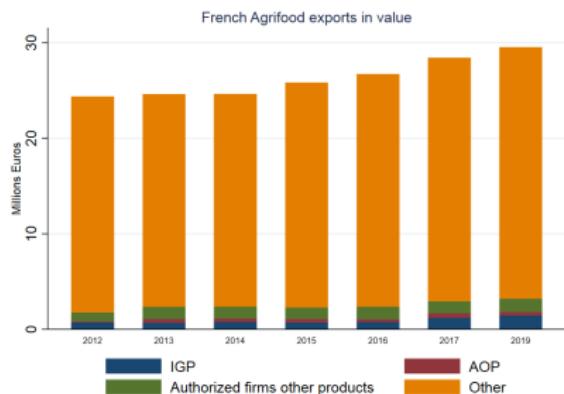
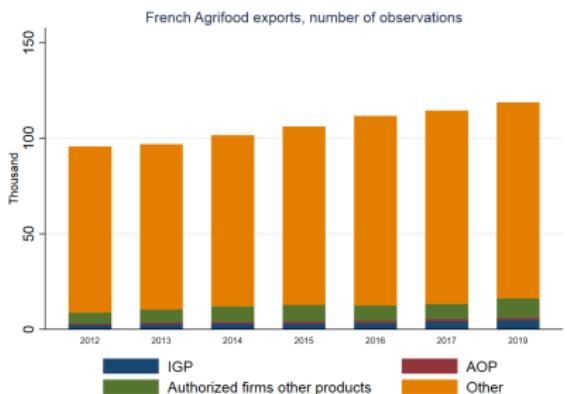
Descriptive statistics

- 225 French **Geographical Indications** (99 AOP and 126 IGP)
- 313 **NC8 codes** (over a total of 2,313), mainly in the dairy and meat sectors
- 337 **authorized firms** (over 5,046)
- GIs exported to 160 **destinations** (over 226)
- 25 countries have RTAs with the EU which include **lists of GIs**

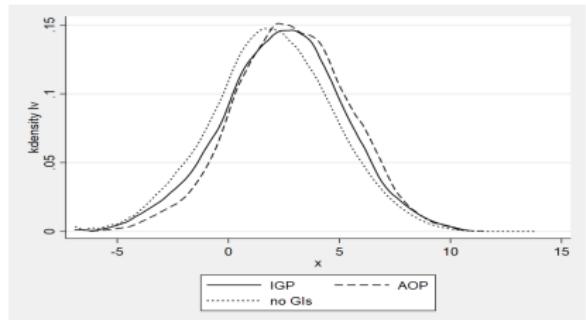
Descriptive statistics



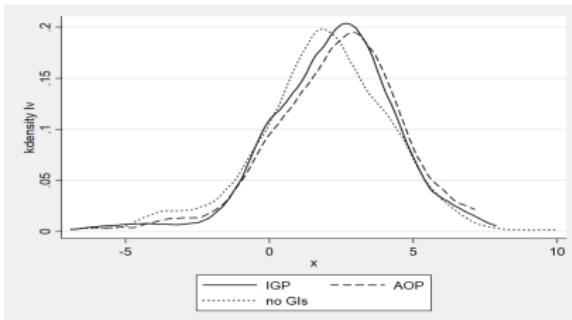
Descriptive statistics



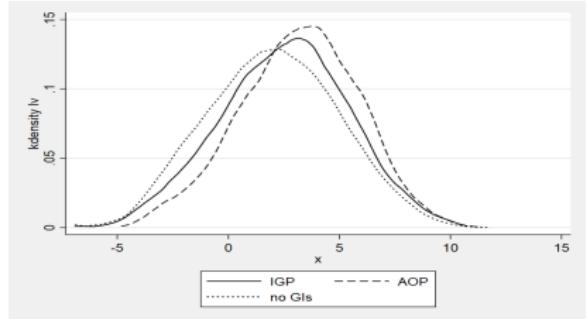
Descriptive statistics



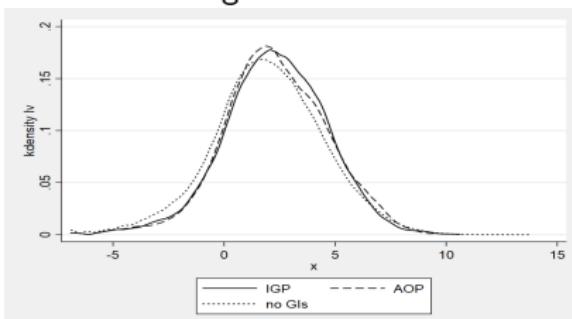
All



Markets with agreements



EU



Other markets

Specification

$$Exp_{fjkt} = \alpha GI_{fkt} + \beta GI_{fkt} \times Agreement_{jkt} + \Pi_{ft} + \xi_{jkt} + \varepsilon_{fjkt}$$

- GI_{ft} is a dummy indicating whether firm f is authorized to handle GIs for k in t
- $Agreement_{jkt}$ is a dummy indicating whether country j recognizes a GI for product k in t
- Π_{ft} time variant firm characteristics (productivity) or fixed effects
- ξ_{jkt} fixed effects controls for characteristics of the market of country j and good k the year t
- $Exp_{fjkt} =$
 - lv_{fjkt} log of export values of f to j for the k at t
 - X_{fjkt} dummy=0 if f exports k to j at t
 - luv_{fjkt} log of export unit values of f to j for the k at t

Results: intensive margin

	(1)	(2)	lv_{fikt} (3)	(4)	(5)
productivity _{ft}	0.0157 (0.0101)				
Gl _{fkt}	0.6885*** (0.0573)	0.8314*** (0.0598)	0.8654*** (0.0623)	0.3176 (0.9704)	
Gl _{fkt} × Agreement _{jkt}	0.3446* (0.1976)	0.3452* (0.2069)	0.5115** (0.2132)	0.4726** (0.2385)	0.8797** (0.3670)
Gl _{fkt} × EU _j	0.0906 (0.0597)	0.1206** (0.0598)	0.1113 (0.0715)	0.1111 (0.0806)	0.1171 (0.1015)
N	576,970	587,525	571,657	482,162	381,385
R2	0.52	0.53	0.67	0.83	0.87
destination-product-time	yes	yes	yes	yes	yes
Firm	yes	-	-	-	-
firm-time	no	yes	yes	yes	-
Firm-destination	no	no	yes	yes	-
Firm-product	no	no	no	yes	-
firm-product-time	no	no	no	no	yes
firm-destination-time	no	no	no	no	yes

Notes: All continuous variables are in logarithm. Clustered standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Results: extensive margin

	(1)	(2)	X_{fjkt} (3)	(4)	(5)
productivity _{ft}	0.0003 (0.0007)				
GI _{fkt}	0.0434*** (0.0036)	0.0516*** (0.0038)	0.0503*** (0.0033)	0.0128 (0.0376)	
GI _{fkt} × Agreement _{jkt}	0.0170*** (0.0062)	0.0162*** (0.0062)	0.0173*** (0.0066)	0.0097* (0.0058)	0.0123* (0.0069)
GI _{fkt} × EU _j	0.0600*** (0.0053)	0.0614*** (0.0053)	0.0598*** (0.0042)	0.0689*** (0.0040)	0.0758*** (0.0040)
N	9,850,369	10,253,238	10,090,376	10,090,165	9,116,999
R2	0.18	0.19	0.39	0.50	0.55
destination-product-time	yes	yes	yes	yes	yes
Firm	yes	-	-	-	-
firm-time	no	yes	yes	yes	-
Firm-destination	no	no	yes	yes	-
Firm-product	no	no	no	yes	-
firm-product-time	no	no	no	no	yes
firm-destination-time	no	no	no	no	yes

Notes: All continuous variables are in logarithm. Clustered standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Results: unit values

	luv _{fjkt}				
	(1)	(2)	(3)	(4)	(5)
productivity _{ft}	-0.0017 (0.0031)				
GI _{fkt}	0.0055 (0.0138)	0.0027 (0.0148)	-0.0015 (0.0154)	0.1948 (0.2269)	
GI _{fkt} × Agreement _{jkt}	0.1170* (0.0650)	0.0941 (0.0639)	0.1398* (0.0721)	0.2239*** (0.0811)	0.3426*** (0.1241)
GI _{fkt} × EU _j	-0.0047 (0.0140)	-0.0015 (0.0145)	0.0175 (0.0170)	0.0501** (0.0195)	0.0774*** (0.0235)
N	576,414	586,953	571,097	481,732	380,962
R2	0.77	0.78	0.84	0.90	0.92
destination-product-time	yes	yes	yes	yes	yes
Firm	yes	-	-	-	-
firm-time	no	yes	yes	yes	-
Firm-destination	no	no	yes	yes	-
Firm-product	no	no	no	yes	-
firm-product-time	no	no	no	no	yes
firm-destination-time	no	no	no	no	yes

Notes: All continuous variables are in logarithm. Clustered standard errors in parentheses

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Results: heterogeneity of Gls

	lv _{fjkt} (1)	luv _{fjkt} (2)	X _{fjkt} (3)
IGP _{fkt}	0.8593*** (0.0739)	-0.0530*** (0.0195)	0.0558*** (0.0043)
IGP _{fkt} × Agreement _{jkt}	0.3978 (0.2950)	-0.0764 (0.1099)	0.0122 (0.0085)
IGP _{fkt} × EU _j	0.0334 (0.0775)	0.0778*** (0.0200)	0.0447*** (0.0047)
AOP _{fkt}	0.6113*** (0.0917)	0.0572*** (0.0192)	0.0364*** (0.0042)
AOP _{fkt} × Agreement _{jkt}	0.5781** (0.2765)	0.2179** (0.0908)	0.0278*** (0.0089)
AOP _{fkt} × EU _j	0.2798** (0.1189)	-0.0788*** (0.0241)	0.0803*** (0.0082)
N	571,657	571,097	10,090,376
r2	0.67	0.84	0.39
destination-product-time	yes	yes	yes
firm-time	yes	yes	yes
Firm-destination	yes	yes	yes

Notes: All continuous variables are in logarithm. Clustered standard errors in parentheses. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$

Conclusion

- We show that :

- GIs foster exports of French agri-food firms
- the recognition of GIs in trade agreements increases both the intensive and extensive margins of trade, as well as unit values for these products
- this outcome is mainly driven by AOP, the oldest and most renowned geographical indication

→ In favor of the inclusion of lists of GIs in trade agreements

Future steps

- Investigate whether the inclusion of GIs in RTA increases the perceived quality of products (Khandelwal 2013)
- Look at potential spillover effects for the other products of the authorized firms
- Explore the heterogeneity by sector and by country