

Comparing European Cinema Markets

Methodological Hurdles and Data Challenges

Julia Noordegraaf, Jolanda Visser, Jaap Boter, Daniel Biltereyst, Philippe Meers, Ivan Kisjes



UNIVERSITY OF AMSTERDAM





Overview

- Introduction Research Project
- Research Design
- OP Methods (GIS & statistics)
 - Implications
 - Conclusion

disco





European Cinema Statistics

	YEAR	POPULATION (000)	FIXED CINEMAS						MOR	
			CINEMA HALLS		LS			SEATING	UNITS	
			NUMBER		SEATING			PER 1000	NUMBER	
COUNTRY			35 MM	16 MM	(000)	NUMBER	CAPA- CITY	INHA- BITANTS	35 MM	16 MM
BELGIUM	1955 1960 1965 1970 1975	8 868 9 153 9 464 9 660 9 796	1 520 1 506 1 082 714 562	300 135 51 18 6	850.0 761.5 575.9 *370.6 *267.7	- 1 -	- 1.2 -	95.9 83.2 60.9 38.4 27.3		
ITALY	1955 1960 1965 1970 1975	48 064 49 642 51 990 53 660 55 810	7 414 10 441 10 868 9 390 8 730	587 3 075 >	3465.4 5831.1	· · · · · · · 1 1 1	· · · 3.9 3.9	72.1 112.2	202 225 250	···· -
NETHERLANDS	1955 1960 1965 1970 1975	10 751 11 480 12 292 13 030 13 653	531 565 537 410 419		252.0 266.8 255.4 201.0 169.2	· · · · · · · · · · 1		23.4 23.8 20.8 15.4 12.4	···· ···· 13 12	
SWEDEN	1955 1960 1965 1970 1975	7 262 7 480 7 734 8 046 8 195	2 504 2 332 1 996 1 374 1 192	· · · · · · · –	622.6 580.0 344.4	-		85.7 77.5 42.0		
UNITED KINGDOM	1955 1960 1965 1970 1975	50 950 52 373 54 180 55 410 55 962	4 325 2 771 1 971 1 529 1 530		4020.8 2649.0 2012.6 1465.8 879.0	· · · · · · · · · ·	· · · · · · · · · ·	78.9 50.6 37.1 26.5 15.7		
CZECHOSLOVAKIA	1955 1960 1965 1970 1975	13 093 13 654 14 159 14 330 14 802	1 658 3 590 3 711 2 051 3 390	$ \begin{array}{c} 1 582 \\ \hline \\ \hline \\ 1 429 \\ \hline \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $	936.2 1043.0 1079.0 1013.2 958.7			71.5 76.4 76.2 70.7 64 8	235	$ \longrightarrow $

Unesco – Statistics on Film and Cinema (1955-1977)



Research Question

How can the differences in cinema markets between The Netherlands and Flanders be explained?



Existing Explanations

• Organisation of Industry

NL Cinema Alliance cartel

• Stratification of Society

Protestant, Catholic, Socialist & Liberal 'pillars'

• Class, income & cultural features







Research Design





Method I: GIS



Figure 1: Cinema distribution and the numbers of expected cinema audiences

Legend

number of expected cinema audiences









From GIS to Statistics

	Tickets sold in	Expected	
Municipalities:	1949	audiences	
			100/
> 100.000	38.254.099	15.487.660	40%
F0 000 100 000	0.022.124		400/
50.000-100.000	9.032.134	4.346.597	48%
20.000-50.0000	9.348.792	6.081.496	65%
< 20.000	7.555.474	18.202.134	241%
The Netherlands total in			
1949:	64.190.499	44.117.887	



Method II: Multiple Regression Analysis









Implications

• More fine-grained operationalization of research questions needed





Research requirements

How to operationalize questions? Some examples:

- Can the box office numbers (or seat per inhabitant) be related to:
 - Income
 - Religious denomination
 - Age
 - Class
- Are there commercial film screenings in a municipality? Can it be related to:
 - Composition of municipality council
 - Composition of board of Alderman and mayor





Implications

- More fine-grained operationalization of research questions needed
- Data collection and harmonisation:
 - Digitization (e.g., permits Cinema Association)
 - Check definitions used (e.g., urbanization)
 - Merging & changing units of analysis (municipalities)





Diachronic & Synchronic









Implications

- More fine-grained operationalization of research questions needed
- Data collection and harmonisation:
 - Digitization (e.g., permits Cinema Association)
 - Check definitions used (e.g., urbanization)
 - Merging & changing units of analysis (municipalities)
- Transnational comparison
 - Translate diverging definitions (e.g., type of cinemas)
 - Account for different contexts



Transnational Comparison

Cinema type definitions in NL:

- Permanent A: >156 days
- Permanent B: 31 124 days
- Mobile: < 31 days



Definitions: Organisation of the Industry

					Seating capacity			
Country	Date	Estimated population (thousands)	Category of cinema	Number	Total	Average per cinema	Per 1 000 inhabitants	
EUROPE								
Belgium	1952 "	8 730 ''	35mm 16mm	1 444 750	769 000 225 000	533 300	88 26	
Netherlands	1 Jan. 1955	10 670	35mm (522	243 000	466	23	



Conclusions

- Data requirements
 - Understanding provenance
 - Completeness, validity, consistency and accuracy
- Skills required
 - Computational (e.g. GIS, OCR, Excel)
 - Methodological (statistics)
- Multidisciplinary knowledge-base
 - History, economics, social sciences, political sciences, and geography

