# QUOTAS vs. INCENTIVES FOR THE DEVELOPMENT OF DOMESTIC AUDIOVISUAL PRODUCTION? AN ECONOMIC IMPACT ASSESSMENT

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#### GOVERNMENTS SEEK TO PROMOTE LOCAL AUDIOVISUAL PRODUCTION IN ORDER TO MEET THREE GOALS – RESEARCH ALSO SHOWS THAT QUOTAS CAN HAVE A NEGATIVE IMPACT

#### **POLICY DRIVERS**

- To preserve and promote their cultural heritage value ((Manning, 2006; Crampes; Hollander, 2008; Richardson, 2006; Petrona, 2015)
- To boost economic growth by developing the audiovisual industry (Manning, 2006)
- To leverage the comparative advantage in creative industries, thereby increasing national competitiveness

#### ASSESSMENT OF CONTENT QUOTAS

- The imposition of local quotas will diminish the overall size of content catalogs (Dixon, 2018)
- Imposing a local quota may lead the provider to choose old or low-quality content just to meet the requirement (Petrona, 2015)
- Quotas may be met by simply increasing the existing content offer, eliminating the incentives to promote new talent or local productions (Richardson and Wilkie, 2015)
- The increase in local production in free-to-air broadcasting was made based on journalistic programs where politicians and members of the civil society were interviewed, thereby broadcasting mostly unappealing content (Broughton Micova, 2013)
- Quotas only impact the supply side of the equation but cannot ensure that a higher percent of local content will meet the demand of users and trigger audience consumption (Richardson, 2006)

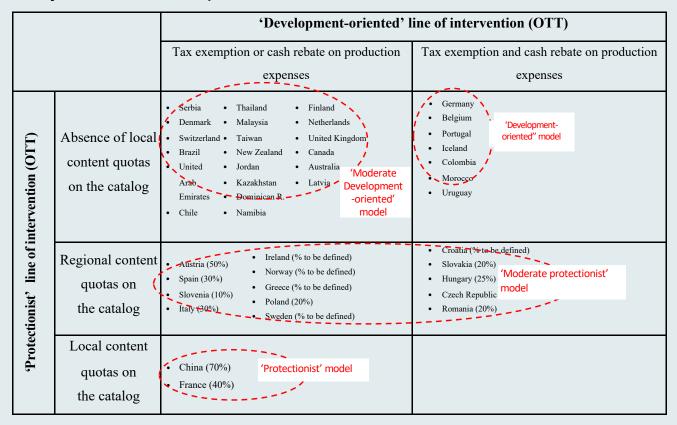
#### GOVERNMENTS IMPLEMENT SEVERAL MECHANISMS AS TOOLS TO ENCOURAGE THE DEVELOPMENT OF THE LOCAL AUDIOVISUAL INDUSTRY

#### PUBLIC POLICY INITIATIVES

	Film industry	Free-to-air/Pay TV	Audiovisual OTTs
Incentives for production of local content	<ul> <li>Cash rebate or tax         exemption</li> <li>Cash rebate on         production         expenditures</li> <li>Financial support for         production         infrastructure</li> </ul>	<ul> <li>Cash rebate or tax         exemption</li> <li>Cash rebate on         production expenses</li> <li>Financing opportunities</li> </ul>	<ul> <li>Cash rebate or tax         exemption</li> <li>Cash rebate on         production expenses</li> <li>Financing opportunities</li> </ul>
Local content quota requirements	Screen quotas     (cinemas required to screen national films or % by theater)	Transmission quota (% of transmission time dedicated to domestic or regional production)	<ul> <li>Catalog quota (% of titles dedicated to domestic or regional production)</li> <li>Prominence obligation</li> </ul>

## THESE POLICIES CAN BE CONSOLIDATED AROUND TWO MAIN LINES OF INTERVENTION: (I) DEVELOPMENT ORIENTED POLICIES, AND (II) A 'PROTECTIONIST' APPROACH

#### Policy models for the promotion of domestic audiovisual content on OTTs



Note: The percentage in parentheses shows the portion of the catalog that should be dedicated to regional or domestic content

#### A DESCRIPTIVE STATISTICAL ANALYSIS PROVIDES EVIDENCE OF THE COMPARATIVE IMPACT ON LOCAL CONTENT PRODUCTION RESULTING FROM EACH POLICY MODEL

# Domestic production (per 100,000 population) based on the models applied to OTTs

			'Development-oriented' line of intervention						
			Tax exemption or cash rebate on production	Tax exemption and cash rebate on production					
			expenses	expenses					
u		Absence of							
ntio		local content	. 2011-2018 average: 0.469	. 2011-2018 average: 1.610					
rve		quotas on	. 2018: 0.495	. 2018: 1.961					
inte		the catalog							
e of	(T)	Regional							
lin	(OTT)	content quotas	. 2011-2018 average: 0.383	· 2011-2018 average: 0.404					
Protectionist' line of intervention		on the catalog	. 2018: 0.410	. 2018: 0.454					
ctio		Local content							
ote		quotas on	. 2011-2018 average: 0.241						
·Pr		the catalog	. 2018: 0.263						

Source: Author analysis based on data from the European Audiovisual Observatory

#### A MODEL WAS DEVELOPED TO EXPLAIN AND QUANTIFY THE FACTORS DRIVING LOCAL AUDIOVISUAL PRODUCTION

$$\log(AUD) = \mu + \alpha\log\theta + \beta\log INCOME + \gamma\log C + \delta REG + \Omega COMP + \varepsilon$$

- AUD, which measures the number of locally produced or co-produced films and documentaries annually (weighted per 100,000 inhabitants)
- $\theta$  is a parameter that measures consumers' preference for audiovisual content;
- INCOME is measured based on the GDP per capita
- C is the average historical budget per film
- REG is a binary variable that takes the value 1 if regional or local content quotas are imposed on OTTs (and 0 if not)
- COMP is a measure of competitive intensity (Herfindahl–Hirschman index for the SVOD segment)
- E represents the error term that is assumed to meet the desired properties

Models are also run adding further controls to account for cross-country differences in audiovisual preferences, measured on the basis of the SVOD penetration and cinema attendance frequency

### TO ESTIMATE THE EQUATION, WE CONSTRUCTED A SAMPLE OF 60 COUNTRIES FOR WHICH REFERENCE VARIABLE DATA IS AVAILABLE

Variable	Description	Source
Audiovisual production	Local film and documentary production per 100,000 inhabitants.	European Audiovisual
per 100,000 population	Annual average by country 2016-2018	Observatory
GDP per capita	GDP per capita (US\$) at current prices PPP. Annual average 2016-2018	World Bank
Cost of films	Historical average budget per production (US\$). Measurement errors were omitted, and missing data was approximated by levels of similar countries	The Numbers / Authors' analysis
OTT quota	Binary variable taking the value 1 if a quota imposing a certain percentage of local or regional content on OTTs was imposed before 2016	Compilation from regulators sites
SVOD penetration	Percentage of SVOD users in the population. Latest available data (2020)	Statista/World Bank
Cinema penetration	Annual average cinema attendance frequency per capita. Annual average 2015-2017	UNESCO
SVOD HHI	Herfindahl-Hirschman index, SVOD market 2018.	Calculation from industry data
SVOD ARPU	Revenue per SVOD user (US\$), as proxy price. Latest available data (2020)	Statista
Cinema ticket	Average cinema ticket price (US\$). Annual average 2015-2017	UNESCO

# SUCCESSIVE MODEL ESTIMATIONS TESTING THE IMPACT OF QUOTAS ON DOMESTIC AUDIOVISUAL PRODUCTION

	[1]	[11]	[III]	[IV]	[V]	[VI]
Dependent variable: Log (Audiovisual pr	oduction per 100,000 i	nhabitants)				
OTT quota	-0.553***	-0.852*	-0.396*	-0.592***	-0.556***	-0.105*
- CTT quota	[0.197]	[0.498]	[0.226]	[0.204]	[0.190]	[0.058]
Log (GDP per capita)	0.731***	0.712***	0.541**	0.177	-0.971* [0.512]	-0.050 [0.148]
	-0.013	-0.004	[0.206]	-0.002	-0.007	-0.001
Log (Average cost)	[0.082]	[0.083]	[0.101]	[0.077]	[0.067]	[0.018]
  SVOD HHI			0.001***			
3,00,1111			[0.000]			
SVOD HHI (Squared)			-0.000***			
, , ,			[0.000]	0.422*	0.756	0.005
Log (SVOD penetration)				0.423*	0.756	0.095
Log (Cinoma nonstration)				0.350**	1.311***	0.110
Log (Cinema penetration)				[0.173]	[0.335]	[0.108]
Dependent variable: Log (SVOD penetra	tion)					
Log (CDD nor conita)					0.233**	0.234**
Log (GDP per capita)					[0.102]	[0.101]
Log (SVOD ARRU)					-0.282**	-0.283**
Log (SVOD ARPU)					[0.131]	[0.131]
. (5: .:.)					0.409***	0.409***
Log (Cinema ticket)					[0.146]	[0.146]
Dependent variable: Log (Cinema penet	ration)					
(600 :: )					0.929***	1.021***
Log (GDP per capita)					[0.134]	[0.148]
Log (Cinomo tiplot)					-0.891***	-0.944***
Log (Cinema ticket)					[0.211]	[0.214]
Log (SVOD APPLI)					0.315*	0.200
Log (SVOD ARPU)					[0.174]	[0.192]

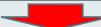
# TAKING THE BASELINE MODEL AS A REFERENCE, WE RE-ESTIMATED IT BY INTRODUCING RESPECTIVE DUMMIES WHICH IDENTIFY THE MODEL ADOPTED BY EACH COUNTRY

	[1]	[11]	[111]	[IV]	[V]	[VI]		
Dependent variable: Log (Audiovisual production per 100,000 inhabitants)								
. (600	0.788***	0.770***	0.741***	0.747***	0.712***	0.759***		
Log (GDP per capita)	[0.202]	[0.201]	[0.190]	[0.199]	[0.188]	[0.187]		
1(0)	-0.025	-0.029	-0.017	-0.018	-0.002	0.017		
Log (Average cost)	[0.084]	[0.084]	[0.083]	[0.082]	[0.085]	[0.093]		
Moderate Development-oriented	-0.121					-0.366		
model	[0.228]					[0.264]		
		0.220				-0.094		
Moderate Protectionist model		[0.360]				[0.363]		
			-0.443*		-0.483**	-0.654**		
Protectionist model			[0.227]		[0.233]	[0.264]		
Fixed effects by region				-0.416**	-0.558***	-0.727***		
R-squared				[0.174]	[0.185]	[0.230]		
Observations					YES	YES		
Estimation method					0.64	0.66		
Moderate Protectionist model					60			
Estimation method	OLS	OLS	OLS	OLS	OLS	OLS		

#### SO WHAT IS DRIVING LOCAL CONTENT DEVELOPMENT? PLATFORM COMPETITION

Latin America: Evolution of Audiovisual OTT platforms – By geographic reach

	2013	2014	2015	2016	2017	2018	2019	2020
Global platforms	3	3	4	6	7	7	9	9
Regional platforms	14	24	40	55	64	91	93	93
Local platforms								
Argentina	7	16	1 <i>7</i>	21	23	18	18	18
Brazil	13	16	22	23	26	29	30	31
Costa Rica	0	0	1	2	3	4	7	9
Ecuador	0	2	2	2	3	1	4	4
Peru	2	2	3	3	4	2	4	5
Uruguay	0	4	9	8	8	8	9	9
Total	39	67	98	120	138	160	174	1 <i>7</i> 8



Brazil: OTT catalog origin share

		Films		Series					
	Total titles	National titles Percent of catalog		Total titles	National titles	Percent of catalog			
Netflix	2,757	88	3.2%	1,188	39	3.3%			
Amazon Prime Video	2,750	17	0.6%	513	2	0.4%			
Globo Play	272	83	30.5%	314	232	73.9%			
Claro Video	2,696	63	2.3%	189	62	32.8%			
HBO GO	590	5	0.8%	128	13	10.2%			
Vivo Play	4,310	469	10.9%	614	244	39.7%			
Oi Play	3,930	358	9.1%	1,388	408	29.4%			

Source: Katz (2021). Audiovisual OTT business models in Latin America: recent trends and future evolution. WIPO working paper

#### TO SUM UP, WE ARE UNABLE TO IDENTIFY A POSITIVE EFFECT ON LOCAL CONTENT PRODUCTION RESULTING FROM THE IMPOSITION OF QUOTAS ON OTTS, BUT BELIEVE COMPETITION APPEARS TO BE KEY

- The estimates link the presence of quotas to lower audiovisual production, at least 10% lower than those countries that have not imposed that regulation
- In a context of intense demand and competitive pressures that characterize the OTT market, quotas tend to result in increased production costs, thereby distorting the supply-demand balance, leading to undesired market outcomes
- Ideally, governments should allow the development of the local audiovisual industry to be accelerated by the powerful market dynamics, already proven to deliver great value in 'content localization.'
- A 'Development-oriented' model that prioritizes incentives aimed at growing the local audiovisual industry sundry tax exemptions, financing opportunities, investment in infrastructure, and cash rebates— allowing the natural supply and demand factors to contribute and create increased OTT catalog 'localization' trends is key
- This model has the advantage of promoting the development of local OTTs based on a content demand and production cost balance, subsequently fostering "content localization" and diversity, and impacting positively the growth of the local audiovisual industry. At a disadvantage, this option requires the allocation of public funding.
- A complementary approach consists in imposing domestic content prominence obligations such as reserving a substantial portion of the platform home page to spotlight local content, or by publicizing the country of origin or the original language of programs through trailers in order to promote the local culture
- Research limitations: unavailability of reliable panel datasets covering a period long enough to analyze the market behavior before and after the imposition of a quota; sample only covered 60 countries, a modest number of observations; our unable to analyze local production in terms of TV series

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