The Delineation of Philippine Federal State Boundaries: An Approach based on Hierarchies and Sizes of Urban Centers

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Outline

- Introduction
- Hierarchy of centers and criteria
- State boundary scenarios
- Conclusion

Introduction

- Delineating state boundaries, whether purposeful or not, should be viewed as part of a larger and continuing historical process.
- Two sets of objectives: (1) efficiency; (2) equity
- Objective: define an efficiency-oriented approach to identify boundaries that enhance state competitiveness
 - An approach; technical inputs for consideration
 - State as an autonomous form of a region;
 competitiveness as the ability to attract leading firms
- Private sector investment perspective



The subjective and political nature of boundaries

- E.g. Objectives re Metro Manila
- Efficiency: merge with surrounding areas (Mega Manila)
- "Anti-imperial": maintain boundaries or break up metropolis





- Boundaries define location.
- Location has value.
- Change in location means change in value, i.e. changes in the extent and identity of representation as well as changes in ownership or control of resources.

Hierarchy of Centers







- Centers of production
 and consumption
- Functional spatial units of a region or state

Metropolitan Centers • Largest cities.



- Anchor the region's economic geography.
- The larger and more complex they are, the stronger and more diverse the region: scale and level of services, economic base and employment opportunities.
- Serve as external linkages to markets and employment outside the region.



Primary Corridors .

Connect metro areas and carry the largest volumes of people and goods within the region. The less friction (physical and institutional) within the corridors, the more efficient and productive the regional economy.

 Production and service capabilities of the corridors depend on the number, size and efficiency of the urban centers along each corridor.

Lateral Linkages



- The longer the lateral linkages extend from the corridor—the "fatter" the corridors—the larger the area and population that benefits from the region's activities. (Srivastera 2011, Brunner 2013)
- Enhance urban-rural integration as well as agricultureindustry-service linkages.



In general, the regional economy benefits:

- as the size, economic diversity and external linkages of its largest center increases,
- as the corridors of the hierarchy become more efficient in terms of transportation and logistics, and
- as the number of urban centers and their lateral linkages within the corridors increase.
- No a priori reason for a state to have a full hierarchy of centers within its boundaries, as long as it has a metro centeranchor, e.g. city-states.
- What should be the size of the metro center-anchor so that it will support state competitiveness?

Criteria 1

What should be the size of the metro center-anchor so that it will support state competitiveness?

Size should be sufficient to allow:

Inc	licator/criteria	Population ("market size")
1.	A purpose built CBD* (indicator of the presence of leading firms, which usually operate or also cater to external markets)	700,000
2.	International airport/port (a requirement of the CBD)	1,200,000

*CBD: minimum of regional scale retail, residential/hotel, office (traditional and/or BPO)



Table 4. Metro Centers with Population > 700k (2015)						
Rank	Metro Area	Pop 2015	CBD			
1	Metro Manila	12,877,253	Makati, BGC, Ortigas, Alabang, Eastwood, MOA, V	ertis		
2	Metro Dasmarinas	2,546,728	Vistacity, Evocity,* Vermosa,* Alabang West*			
3	Metro Cebu	2,526,798	Cebu BP, AITP, SRP, Mactan Newtown, Gatewalk*			
4	Metro Calamba	2,028,535	Nuvali, Greenfield, Eton City*		6	Fig 4 Metro
5	Metro Antipolo	1,871,130			5 min	Centers with Pop >
6	Metro Davao	1,737,114	Abreeza, SM Lanang, Davao Park,* Landco*, Dam	osa*	to a second	700k (2015)
7	Metro Malolos	1,600,089				
8	Metro Angeles	1,328,032	Clark, Marquee, Alviera,* Nepo Center*			
9	Zamboanga City	861,799				
10	Metro Cagayan de Oro	810,603	Centero, Limketkai, Pueblo BP*	M An	geles	
11	Metro Bacolod	791,019	Northpoint, Capitolyo, Goldenfield*	M Ma	lolos	
12	Metro Iloilo	713,091	lloilo BP, Atria	M Ma M Ant		•
Source	of population data: PSA	- (- 1)	:-1/L(-1)	M Da	smarinas	the stresser of the
			- State	in the second second	M Iloilo M Bacolod M Cebu	M CdO G M CdO G M Davao











*Potential linkages, based on gravity model using population and road distance, pop>200k, maximum 1,000 km.



Criteria 2

Metro clusters should be kept intact (within the same state) to enhance scale and agglomeration economies.

Table 4a. Metro Centers with Population > 700k (2015)								
Rank Metro Area		Pop 2015	CBD					
1	Mega Manila	22,251,767	Makati, BGC, Ortigas, Alabang, Eastwood, MOA, Vertis					
			Vistacity, Evocity,* Vermosa,* Alabang West*					
			Nuvali, Greenfield, Eton City*					
			Clark, Marquee, Alviera,* Nepo Center*					
2	Metro Cebu-lloilo-Bacolod	4,030,908	08 Cebu BP, AITP, SRP, Mactan Newtown, Gatewalk*					
			Northpoint, Capitolyo, Goldenfield*					
			lloilo BP, Atria					
3	Metro Davao	1,737,114	Abreeza, SM Lanang, Davao Park,* Landco*, Damosa*					
4	Zamboanga City	861,799						
5	Metro Cagayan de Oro	810,603	Centero, Limketkai, Pueblo BP*					
Source	e of population data: PSA							
*Emer	ging CBD (lacking office or retail)	or residential/ho	tel)					

















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Tab	le 5	. State Scenarios										
		01-1-	Pop 2015		GRDP 2015		GRDP/cap 2015					
		State	Mil	%	Bil	%	widest gap	Thou	% of largest	widest gap		
Α	1	Luzon	57.5	57%	9,654	73%	<u> </u>	168.0	100%			
	2	Visayas + Mindanao	43.5	43%	3,653	27%	45%	84.0	50%	50%		Ок
В	1	Luzon	57.5	57%	9,654	73%		168.0	100%			
	2	Visayas	19.4	19%	1,684	13%	60%	86.9	52%			Ok
	3	Mindanao	24.1	24%	1,969	15%		81.6	49%	51%		
С	1	North Luzon	21.4	21%	2,060	15%		96.2	46%			
	2	South Luzon + NCR	36.1	36%	7,594	57%		210.6	100%			Breaks up Mega
	3	Visayas	19.4	19%	1,684	13%	44%	86.9	41%			Manila cluster
	4	Mindanao	24.1	24%	1,969	15%		81.6	39%	61%	1	
D	1	North Luzon	21.4	21%	2,060	15%		96.2	25%			
	2	NCR	12.9	13%	5,048	38%		392.0	100%			Breaks up Mega
	3	South Luzon	23.2	23%	2,546	19%		109.9	28%			Manila ductor
	4	Visayas	19.4	19%	1,684	13%		86.9	22%			Marina ciuster
	5	Mindanao	24.1	24%	1,969	15%	25%	81.6	21%	79%		
Е	1	North Luzon (ex CAR)	19.7	20%	1,826	14%		92.7	24%			Dracke un Mere
	2	CAR	1.7	2%	234	2%		135.8	35%			Breaks up wega
	3	NCR	12.9	13%	5,048	38%		392.0	100%			Manila cluster, and
	4	South Luzon	23.2	23%	2,546	19%		109.9	28%			has metro anchors
	5	Visayas	19.4	19%	1,684	13%		86.9	22%			with less than
	6	Mindanao (ex ARMM)	20.4	20%	1,870	14%		91.9	23%			700.000 pop
	7	ARMM	3.8	4%	99	1%	37%	26.2	7%	93%		
		Philippines	101.0	100%	13,307	100%		131.8				
Sourc	e of d	ata: PSA										

Conclusion

- In summary, the approach leads to the ff criteria:
 - First, each state territory to include a metro center capable of supporting a purpose built CBD. (Pop=700k min)
 - Second, clustered metro centers should be kept within the same state.
- Among the five scenarios presented, only A (Luzon, Vis+Min) and B (Luzon, Visayas, Mindanao) satisfy the criteria.
- Other scenarios can be derived; other objectives are expected to weigh in, e.g. environmental management efficiency
- Need for additional data at the city-municipal level.
- State or LGU boundaries, like geography, are not destiny. A lot depends on how cross-border relationships are managed. No matter where the boundaries are, whether under a unitary or federal republic, there will always be a need for efficient interstate or inter-LGU coordination.



Thank you