

Building Bangalore's Competitive Advantage

A case for collaboration between Corporations and the City





Research definition

Theoretical underpinnings

3 Methodology

4 Empirical research

S Evaluation

RESEARCH DEFINITION

Problem statement . Research intent



"The raison d'être of large cities is the increasing return to scale inherent to large labor markets."

-Alain Bertaud



Unprecedented growth has challenged some cities, leaving them struggling to support either residents or businesses.

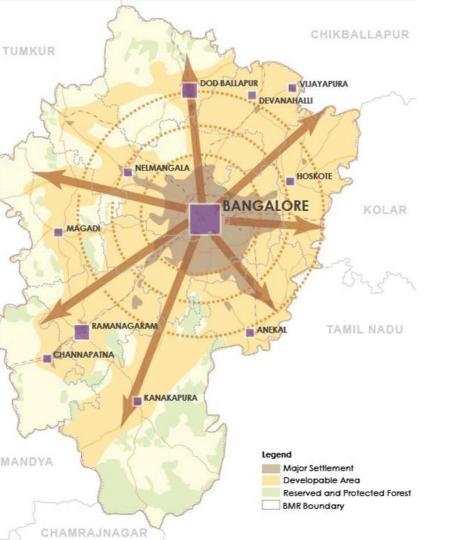
In cities driven by the economy of businesses, negative externalities of agglomerations are intensified, calling for an incentive to tackle these externalities to maintain a competitive edge in a globalized world.

Problem statement. Motivation. WHY?

Exponential growth Real estate is a prime market Silicon Valley of India Structural changes in policy development and business growth Bangalore, Karnataka India Research intent WHERE?WHE







If the trend continues...

Urban sprawl

Encroachment of green belt

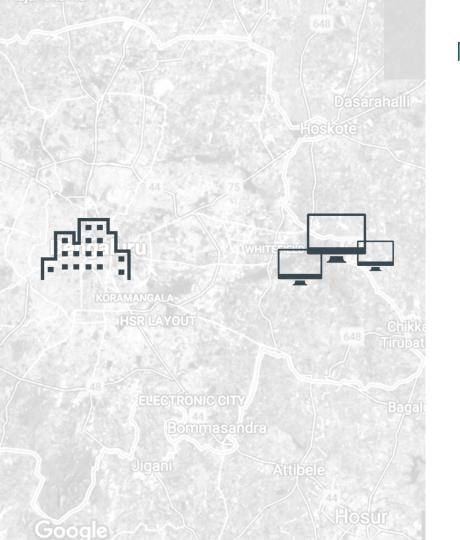
Development triggered by

existing industries

Infrastructure challenges

Business interest threatened

MOTIVATION



Macro-level drivers of location preferences of service sector businesses



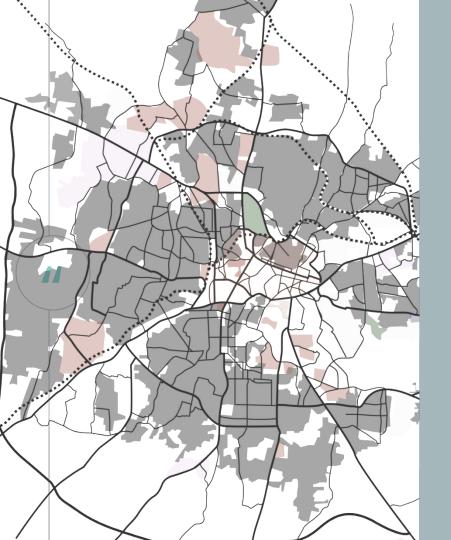
Competitive environment for businesses



Gaining a competitive city advantage



Research scope WHAT?



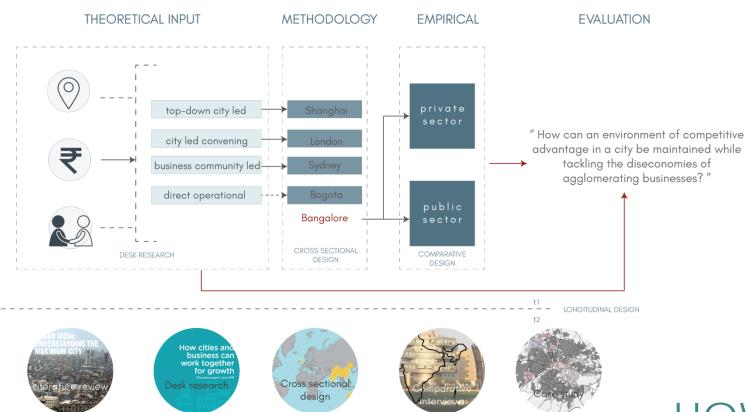
How can an environment of competitive advantage in a city be maintained while tackling the diseconomies of agglomeration?

The manner in which a city develops is heavily dependent on the agenda of businesses and their location decisions.

METHODOLOGY
Design . Tools

Research design

Qualitative . Iterative . Deductive





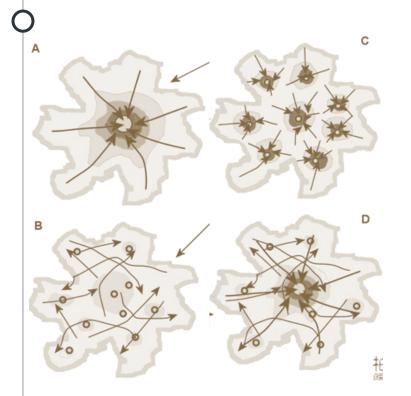
THEOETICAL UNDERPINNINGS

Explorative themes . Literature review



Figure 31: Research themes and scope (own illustration)

EXPLORATIVE THEMES



Central Business District determines urban form

Polycentric cities are formed when multiple business districts are formed

(Bertaud, 2001)

LOCATION DECISIONS

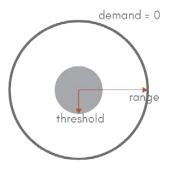


Figure 13: Market threshold and tange (adapted from Christaller, 1966)

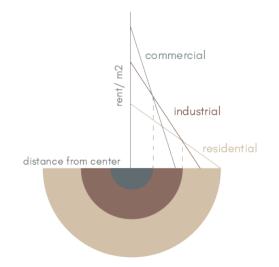


Figure 14: Bid rent curve (adapted from Alonso, 1964)



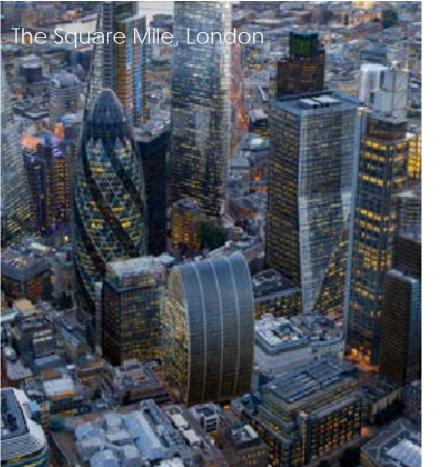
Economics of geography
Economic activities arrange
themselves to take best
advantage of the location

Pull factors

Thick labor markets, knowledge spillovers, infrastructure sharing

Push factors
High transport costs, high rents,
pollution

LOCATION DECISIONS





"We're not just going to back the big businesses of today, we're going to back the big businesses of tomorrow."

- David Cameron, ex PM, U.K.

COMPETITIVE ADVANTAGE





DED TO THE COS

competitive city

More jobs. Higher productivity. Increased standard of living.

sources of growth

Expansion of existing firms. creation of new firms investment

(World Bank, 2015)

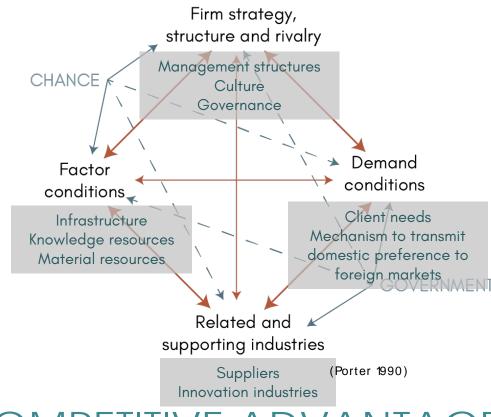
COMPETITIVE ADVANTAGE

Social Relevance Interdependency

- Cities and businesses are interdependent.
- Issues need to be tackled together.

Scientific Relevance Porter's Diamond





COMPETITIVE ADVANTAGE

Plan led schemes public investment planning, regulative planning, top down

Market led schemes trend planning, citizen empowerment, bottom up

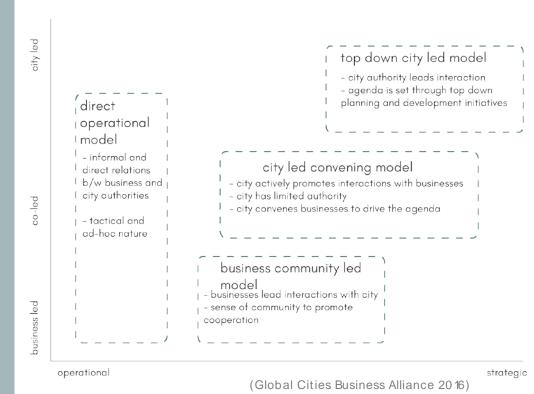
(Galland and Hansen 2012

City-led interactions government authorities at the city level drive change

Strategic long term vision planning

(Global Cities Business Alliance 20 16)





OLLABORATIVE PLANNING

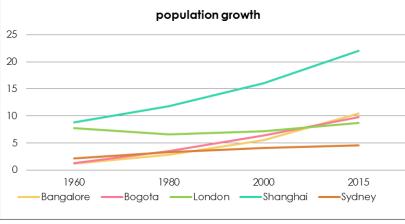
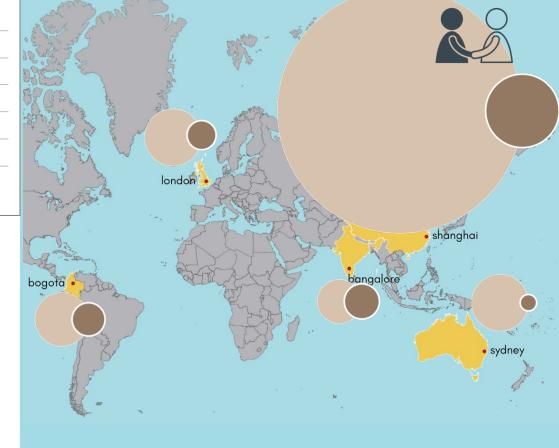


Figure 20: Urbanization in cities (own illustration from World Population Review)

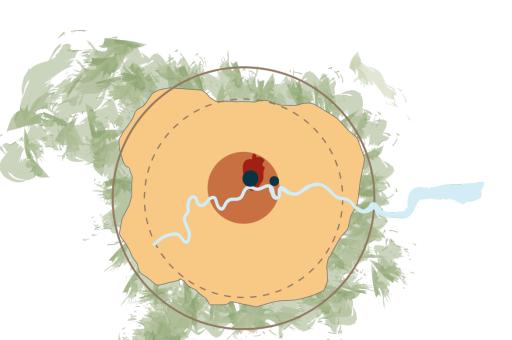


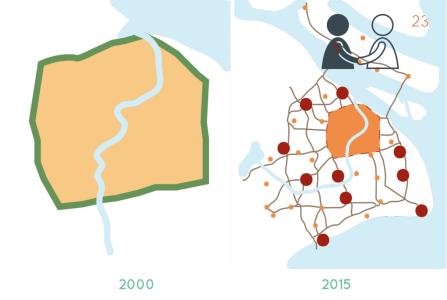


GLOBAL COMPARISONS

Shanghai

- Top down city led planning
- Compact (2000)
- Planned sprawl through 1 city 9 towns (2015)
- Economic reforms for competitive advantage
- Communist



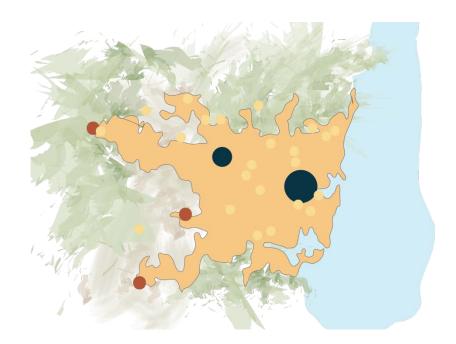


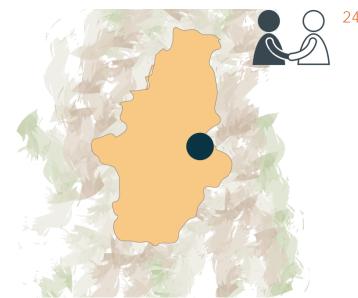
London

- City led convening model
- Compact- green belt, inner city development. 2010- deviation reflected in City Fringe and the Eastern Cluster
- City authority

Bogota

- Direct-operational
- Invest in Bogota initiative- PPP between the Bogota Chamber of Commerce and the Bogota City Government
- Compact (2000)

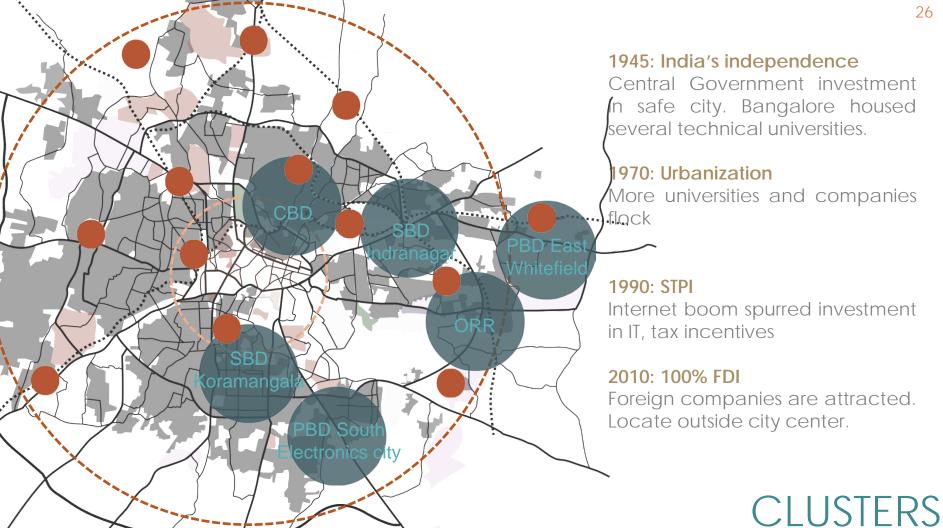


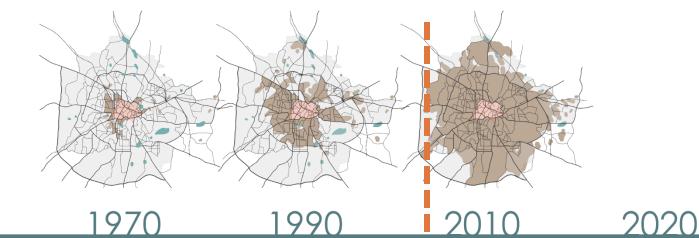


Sydney

- **Business-led**
- Committee of Sydney advocated for a consolidated city Government- the Greater Sydney Commission (2015)
- Regional integration







1947-60

1950

Public sector investments

1945

India's independence



FERA



Software export scheme

1978

Electronic City



Central investment in technology

1991

STPI scheme

1994 ITPb

1999 BATF



100% FDI

2005

SEZ JnNURM

2015 AMRUT

OVERVIEW



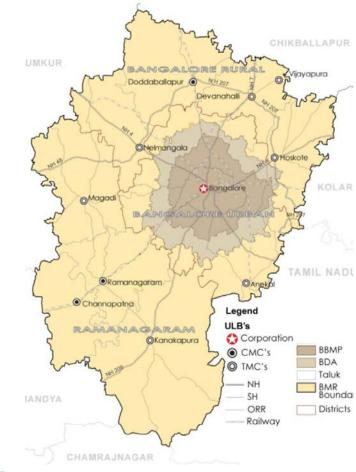
How top companies are blending CSR with responsible growth



By Utkarsh Majumdar, Namrata Rana and Neeti Sanan

Can a company that allocates sumptuous amounts for social initiatives be hailed a good company when its business operations cause long term systemic damages to the environment or economy?





NEGATIVE EXTERNALITIES

7/10 subjects interviewed

Semi structured interviews

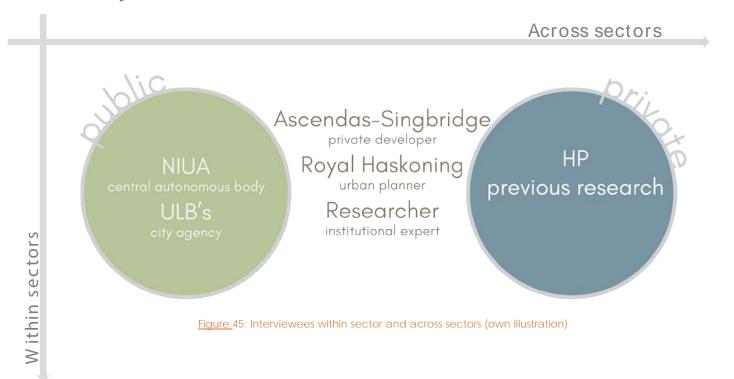
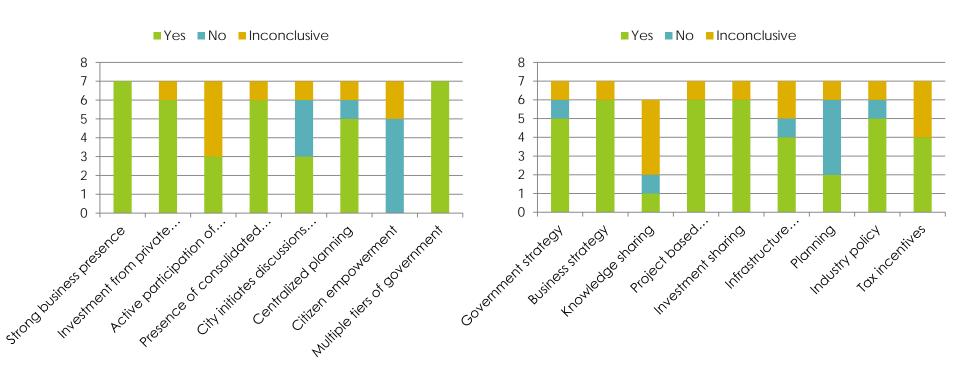




Table 5: Classification matrix with interview data coded (own illustration)

	Purpose	Feature	Criteria	Values	Ascendas- Singbridge	Hewlett Packard	Royal HaskoningD HV	Institutional expert	NIUA	BMRDA	BDA
					2017	2017	2017	2017	2017	2017	2017
	What was the direction of the initiative?	Business led	Strong business presence	Yes/ no/ inconclusive	yes	yes	yes	yes	yes	yes	yes
Driving agent			Investment from private	Yes/ no/ inconclusive	yes	inconclusive	yes	yes	yes	yes	yes
			Active participation of businesses in city issues	Yes/ no/ inconclusive	inconclusive	inconclusive	yes	inconclusive	inconclusive	yes	yes
		City led	Presence of consolidated city authority	Yes/ no/ inconclusive	inconclusive	no	no	no	no	no	no
			City initiates discussions with private sector	Yes/ no/ inconclusive	no	no	yes	no	inconclusive	yes	yes
		Hybrid	Centralized planning	Yes/ no/ inconclusive	yes	yes	no	inconclusive	yes	yes	yes
			Citizen empowerment	Yes/ no/ inconclusive	no	inconclusive	no	no	no	inconclusive	no
			Multiple tiers of government	Yes/ no/ inconclusive	yes	yes	yes	yes	yes	yes	yes
Motive	What was the motive for collaboration?	Strategic	Government strategy	Yes/ no/ inconclusive	yes	yes	inconclusive	no	yes	yes	yes
			Business strategy	Yes/ no/ inconclusive	yes	yes	yes	yes	inconclusive	yes	yes
			Knowledge sharing	Yes/ no/ inconclusive	inconclusive	inconclusive	no	inconclusive	inconclusive	inconclusive	yes
		Operational	Project based collaboration	Yes/ no/ inconclusive	yes	inconclusive	yes	yes	yes	yes	yes
≨			Investment sharing	Yes/ no/ inconclusive	yes	yes	yes	yes	inconclusive	yes	yes
Motive			Infrastructure improvements	Yes/ no/ inconclusive	yes	no	yes	inconclusive	yes	-	yes
		Outcome (dialogues	Planning	Yes/ no/ inconclusive	yes	yes	no	no	inconclusive	no	no
		translated into	Industry policy	Yes/ no/ inconclusive	no	yes	yes	yes	inconclusive	yes	yes
		action)	Tax incentives	Yes/ no/ inconclusive	inconclusive	yes	yes	yes	inconclusive	yes	inconclusive
	What was the nature of collaboration?	Mediated collaboration	presence of third party mediators	Yes/ no/ inconclusive	no	no	no	no	no	no	no
Nature			Interaction with government/ private sector	city/ state/ center	center	center	all	state, center	no	state	state
ž		Nature	Formality	Organised/ adhoc/ both	organised	both	both	adhoc	inconclusive	organised	organised
			Frequency of meetings	Not frequent/ frequent/ very	inconclusive	frequent	frequent	frequent	not frequent	frequent	frequent

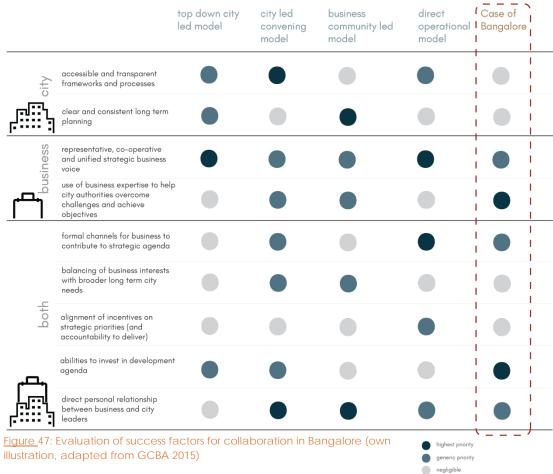


Driving agent of collaborations

Motive for collaborations

EVALUATION





EVALUATION

Driving agent

Collaboration invited, but a weak City government is a hindrance Driving agent behind initiatives and development patterns

Strategic/operational

Strategic collaboration at State and Central level

Operational collaboration at City level

Business growth and competitive advantage in select cities

Collaboration is adhoc, particularly for infrastructure

Nature

Inconclusive

Inconclusive

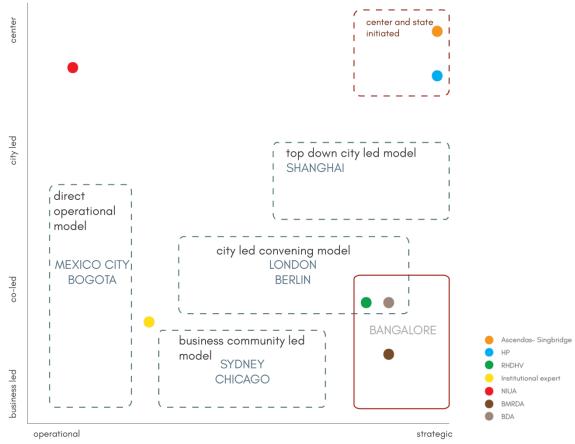
EVALUATION

Hybrid model

Policy level collaboration is solid at the central level

Translation of policy to planning lacks foresight

Planning is private led to a large extent



<u>Figure 49:Collaboration in Bangalore as per the GCBA framework (own illustration, adapted from GCBA 2015)</u>



- Healthy and productive collaboration across sectors
- Outcomes in policies like STPI, SEZ.
- Raised investment interest

JnNurm, AMRUT, NASSCOM

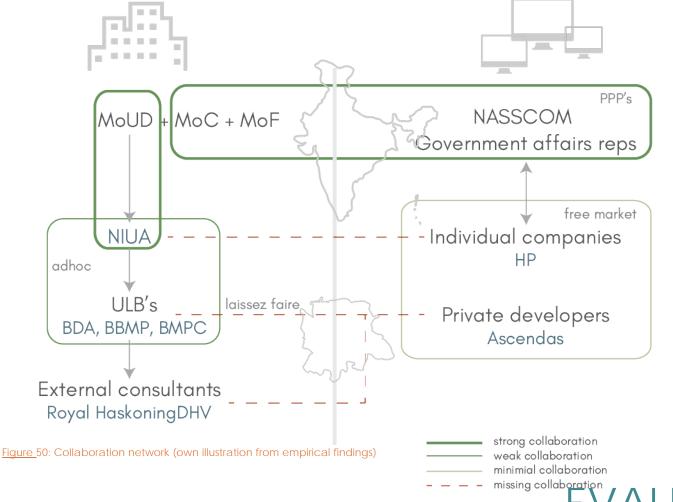
- Industrial promotion through interactions
- Approvals, permissions
- State interest in maintaining Bangalore's competitive status

KEONICS, IT Policy

- Minimal collaboration on planning
- Collaboration (if at all) on infrasturcture
- Weak City government
- Large real estate developments approved at higher levels

BATF, ABIDe

FVAIUATION



EVALUATION



What factors influence the location decisions of businesses at the macro level?

SEZ's

1978 Electronics City

1994 ITPL

2005 Manyata Embassy

Business Park

2015 ORR corridor

Causes

- Skilled labor pool
- Climate
- Accommodation costs
- Government vision and support-SEZ

Effects

- Traffic congestion
- Crowding
- Lack of solid waste management
- Power shortage

SUB QUESTIONS



What role does competitive advantage play in determining the collaboration model used in a city?

Policy instruments

1986 Computer Software Export, Development and Training Policy
1991 STPI
2005 SEZ



Pursuing competitive advantage

- Central policies to improve GDP
- State agenda to attract investment via SEZ's

Collaboration enhancing competitive advantage

- Welcomed for financial reasons
- Unwelcome at planning level
- Other cities have successfully collaborated on both fronts

SUB QUESTIONS



What are the changes seen in the city when the private sector (or public sector) lead real estate development?

PPP Initiatives

1988 NASSCOM

1999 BATF

2005 JNNURM

2015 AMRUT

Existing institutional framework

Overlapping jurisdictions impede a holistic vision for competitive city advantage.



Existing cross-sector interaction

- Hybrid
- Healthy Central level collaborationprofitable policies
- Weak City level collaborationinfrastructure woes.

SUB QUESTIONS



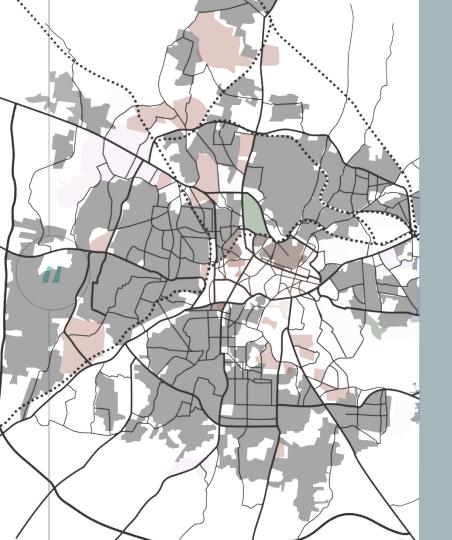
- No prescribed urban structure
- Collaboration adopted for competitive advantage
- Strong and consolidated City authority
- Decreased livability can threaten city advantage



LESSONS

Shanghai	London	Sydney	Bogota	Bangalore
22 mil	8.4 mil	5 mil	9.8 mil	10.4 mil
7300	1700	1700	1600	1300
Trade, finance	Finance	Trade, tourism	Trade, tourism	IT
Top down	City-led convening	Business-led	Direct operational	Hybrid
Contained (2000) 1 city 9 towns (2015)	Compact (1935) inner city regen	Regional integration (2005)	Compact (2000)	Compromised green belt
Central	Consolidated City authority	Consolidated City authority	City authority	Central + State authority

THESIS



How can an environment of competitive advantage in a city be maintained while tackling the diseconomies of agglomeration?

The manner in which a city develops is heavily dependent on the agenda of businesses and their location decisions.

THESIS

Collaboration is essential between City authorities and the private sector.

Dialogues between
State, City and private sector should happen on matters of real estate development.

	To maintain competitive advantage	To tackle negative externalities	Both (maintain while tackling)
1	Devolved city		
	government with	Development (LED) *	
	increased steering		
	capacity		Prioritise degrading
2	Investment in	Infrastructure before	city over pure
	infrastructure and		economic gain
	regeneration *	development *	
3	Investment in	Compact urban	
	research and	development	
	educational		Collaboration
	institutions		between businesses
4	Strategies for business	Restricted greenfield	and City
	retention through	conversion	
	industrial policies *		

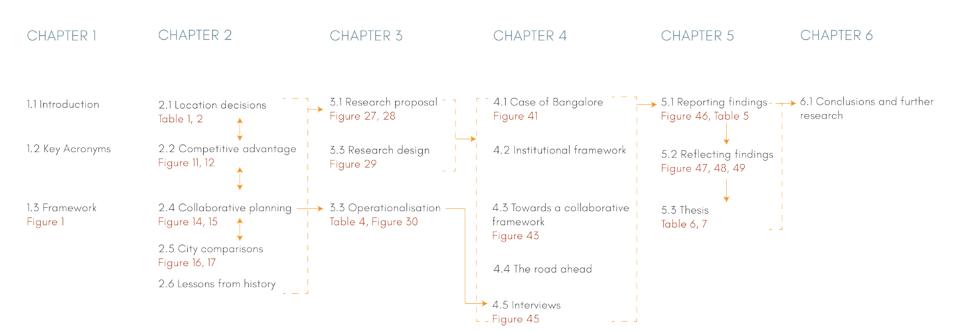
THESIS





Bangalore.
Where the world comes to work.





RESEARCH STRUCTURE