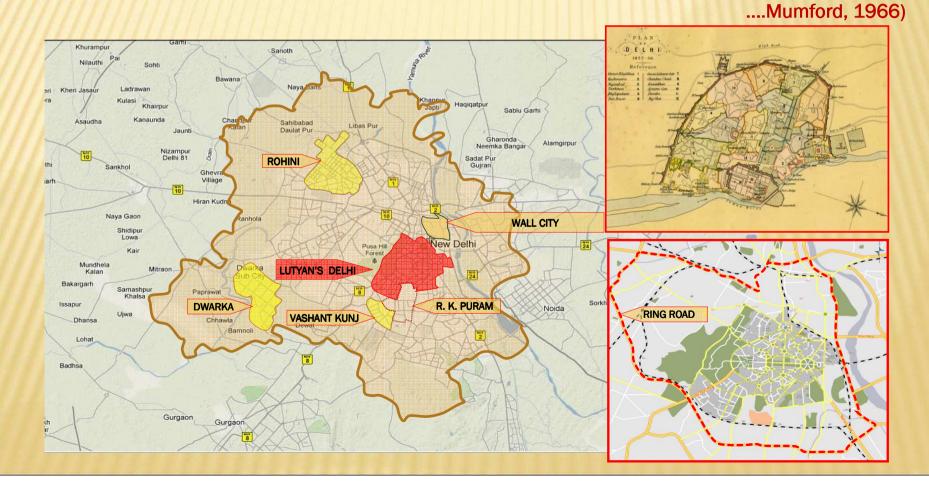




- > INTRODUTION
- > NEED OF STUDY
- > DAWN OF CITY
- > SPATIO-TEMPORAL GROWTH OF DELHI
- > CITY GROWTH WITH DIFFERENT MASTER PLANS
- > PULL AND PUSH FACTOR FOR SHRINKAGE OF PRIMACY
- > CONCLUSION



All cities are "living entities", which go through a life-cycle as the birth, growth, consolidation, expansion, decline, and quite often some kind of end, or state of decay, unless they are "turned-around" and "revived" by combined human effort





> Delhi, the fast growing Capital City of India presently 17 million population. After Independence (1951) Delhi had 1.43 million and increased to 8.42 million by 1991.

>By the year 2021 estimated to grow in 23 million population: A MEGA CITY, almost at par with other megapolises including Tokyo, Seoul, New York, Mexico city, London.

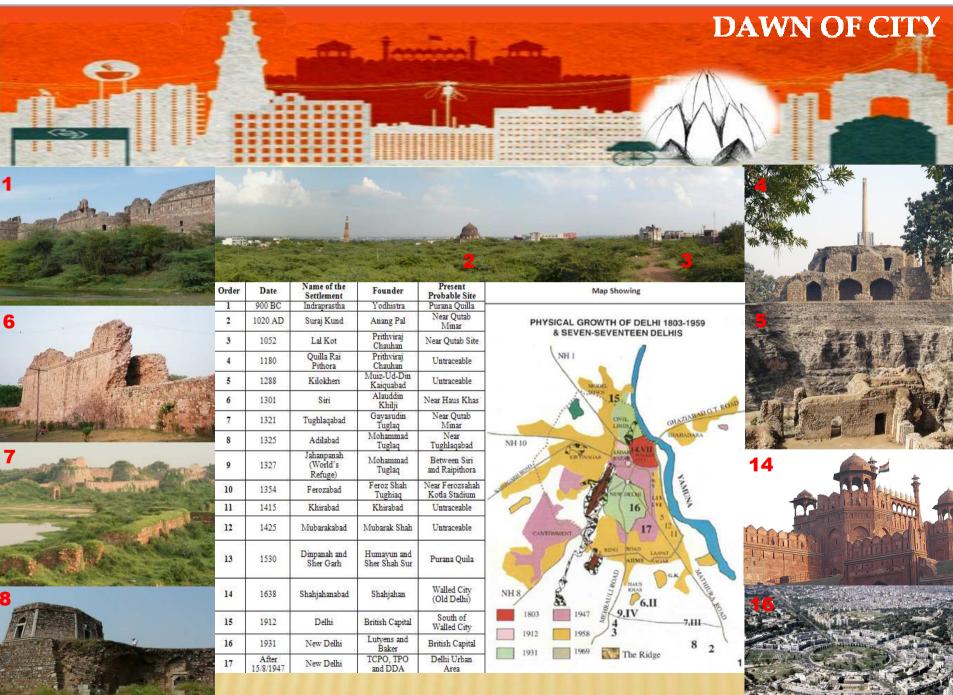
➤Total land: 1483 sq km, length 51.90 kms, width 48.48 kms, about 50% been urbanised and the rest is under heavy pressure of urbanisation.

> Huge population not well dispersed. About 30 sq. km. around the Raisina Hill, most of the human habitats and activities are concentrated.

>During last two decades settlement of new colonies, business centres and other commercial activities have started expanding to the rural areas of the NCT

➤The runway growth of Delhi continues and form new urban pockets i.e Gurgaon, Faridabad, Ghaziabad, Noida, Greater Noida etc.

> Whether economic and demographic concentration in Delhi has already reached a point at which the social cost of agglomeration exceeds the benefits and need a combined effort to REVIVE THE SHRINKAGE ITS PRIMACY.



Spatial Growth of Delhi in Chronolological Order



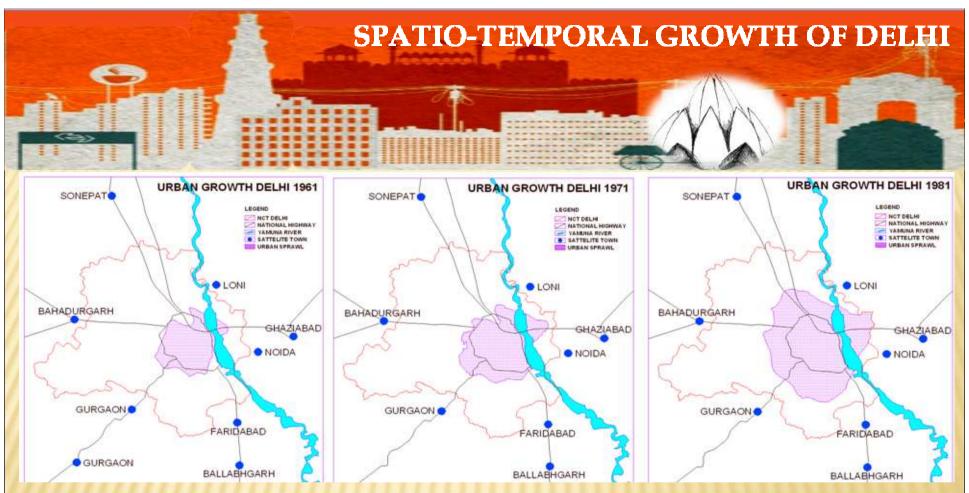
➢Urban planning commenced in 1824 when a Town Duties Committee was constituted for the development of the Cantonment, Khyber Pass, the Ridge area and the Civil Lines area by the Britishers.

➢ First Municipal Committee of Delhi in 1883 and The Municipal Building byelaws were in operational in Sadar Baazar, Subzi Mandi and other suburbs. City spreads with single floor spatial extents.

➤The Delhi Improvement Trust (DIT) was contributed in March 1937. In addition to manage the acquired land, Najul Land, DIT was also assigned the job of rehabilitation of the households to be shifted from slums and substandard areas.

>On December 30, 1957, Delhi Development Authority (DDA) was set up under the Delhi Development Act, 1957 as a successor to DIT for the planned development of Delhi. DDA prepared a Master Plan for Delhi (MPD), which was published in 1962.

>The Yamuna River and terminal part of the Aravalli hill range are the two main geographical features of the city.



1961:Growth over years ring and radial pattern with reliance on road based transport with a hierarchy of commercial centres located on either ring or radial roads.

1971:City sprawls starts from single Central Business District (CBD) Cannught place to several CBDs like Nehru Place, Bikaji Cama, Janakpuri, IP Extension.

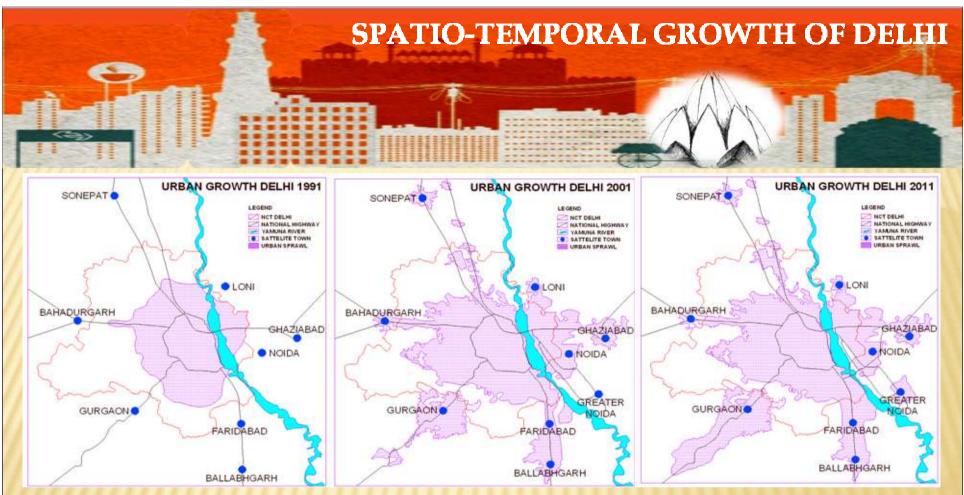
1981:Development of 44,770 hectares (ha) for 46 lakhs. Subsequently, development of an additional 4000 ha of urban area at Patpar Ganj (East Delhi), Sarita Vihar (South West Delhi) and Vasant Kunj (South Delhi) was added in the target of the first MPD with flats. The plotted development Delhi turns to group housing stocks.



Sharp increase in the density of population. In 1901, the density was 274 persons per Sq. Km. 1176 persons per Sq. Km. in 1951, 9294 persons per Sq. Km. in 2001.

Census	Population			Annual Exponential
Year	Total	Urban	% Urban	Growth Rate
1901	405819	214115	52.76	
1911	413851	237944	57.50	1.1
1921	488452	304420	62.32	2.5
1931	636246	447442	70.33	3.9
1941	917939	695686	75.79	4.4
1951	1744072	1437134	82.40	7.3
1961	2658612	2359408	88.75	5.0
1971	4065698	3647023	89.68	4.4
1981	6220406	5768200	92.73	4.6
1991	9420644	8471625	89.93	3.8
2001	13782976	12819761	93.01	4.1

Trend of Urbanization in Delhi 1901-2001

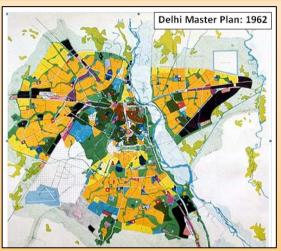


1991: Envisaged acquisition of 20,000 Ha of land for making a target for development of 68,770 Ha urban area.

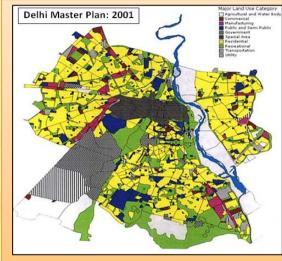
2001: 83,804 ha of land within the framework of MPD 2001. includes 3360 ha area for urban development along National Highways, 1996 ha of Dwarka Ph II and 9700 ha of Yamuna River bed with High Rise building.

2011:NCR projected population of **11.2** million for Delhi by 2001, on the assumption 2 million people would be deflected to other ring towns, earlier DMA Towns: Ghaziabad and Noida, Greater Noida, Faidabad, Gurgaon, Bahadurgarh-Kondli, Loni, Sonepath, Panipath





 Accomodation for Government Employee.(Ramkrisna Puram, Moti Bagh, Gol Market)
 Secretariat as the nucleus
 Growth towards Civil Lines
 Business Centre: C.P., Along Ring roads,Shahdara
 Industrial: Availability of Railroad & facilities: Rohtak Road, Najafgarh Road Okhla & Shahdara ect.....



 Accomodation High density urban development :Public & private (Dwarka, Patpar Ganj, Rohini, Vasant Kunj)
 Policy on tall Buildings, Environment and Heritage Conservation, Restriction for institional development moving towards ring towns
 Business Centre: Multi core



PPP: Real Estate Development
 Change in FAR (Plotted to multi storyed)

Restructuring with Mass
 Trasport: Metro, BRTS, DMIC,
 Airport expansion, Dry Port,
 Integrated Office Complex.
 100% Area Covered, no future
 spatial expansion





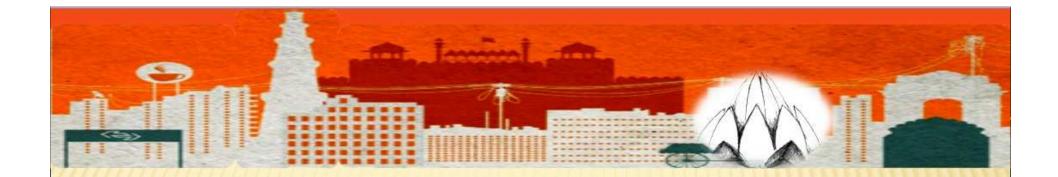
> At this pace of population growth, the entire NCR Delhi may have to be declared as 'urban' with very limited scope for horizontal expansion as the situation has reached saturation level

> To manage 23 million populations in NCT Delhi by 2021 will be a challenging task for all concerned

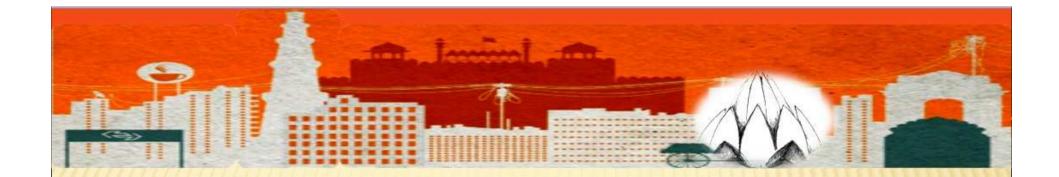
NCT Delhi cannot be viewed as the sole center of development.

Instead of NCT Delhi National Capital Region will be more prominant for future development. To make this possible there is need to reframe:

1.Institutional Strengthening
2. Removal of Ring Towns entity into one unit (NCR)
3.Ensuring supply of basic services in all localities
4.Ensuring universal access to space and services
5.Augmentation of infrastructure
6.Improving physical planning and design: Urban renewal
7.Enhancing Floor Area Ratio
8.Public-Private partnership for revenue generation



ANY QUESTIONES ?



THANK YOU