

# INDIAN HUMAN GEOGRAPHY

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## Population Geography of India

① Growth, distribution, density of Pop'n

② Demographic Attributes

③ Age structure

- work force
- Longevity (Life Expectancy)
- dependency ratio

\* Demographic Revolution (windows)  
\* Geriatrics

0-18 - Young

53% 18-60 - Mature

60+ - Old

④ Sex-ratio 940 female/1000 male

→ HDI → Gender Inequality Index

→ Women Empowerment Mission - 2017  
National

⑤ Literacy rate

⑥ Migration

- Domestic
- International

Problems

⑦ Pop'n Problems & Policies

⑧ Geriatrics, Demo. dividends, anti-natalism, health)  
work force, longevity etc

⑨ Health Indicators + Food security

→ Pattern

## Distribution, Density & Growth of Indian pop'n

- India accounts for 17.5% of global pop'n forming 2nd most populous country of world. [ 2.4% Land area  
17.5% Pop'n ]
- In terms of natural conditions (relief & climate) along with different levels of demographic cycle,  
↳ diff. demo stages

Pop'n Distribution is highly uneven.

This is justified with UP<sup>1<sup>st</sup></sup>, MH<sup>2<sup>nd</sup></sup>, BR<sup>3<sup>rd</sup></sup>, WB, Andhra P., MP accounting for more than 50% of country's pop'n.

### Density Distribution (for geographical analysis of pattern)

- India is a dense clustered country with pop'n density of 382 persons per sq. km. (Global - 40 persons/sq. km)  
(UNFPA)
- Density distribution involves uneven pattern with  
Dense clustered  
Moderate clustered  
sparse clustered locations

### Dense Clustered Locations (BR, UP, PB, HR, Assam, KL, TN, JH, Goa, WB, All UTs except A&N)

- have pop'n density more than country's average
- it includes states of Northern plain along with (4) Peninsular states (KL, TN, Goa, JH)  
Jharkhand
- \*- Bihar (1100 persons/sq. km) and U.P. forms dense clustered states due to their surplus pop'n (beoz they are in older demo. cycle)
- \* Punjab, HR and Assam projects dense clustered characteristics due to agricultural attractiveness & thus unabated immigration  
(uncontrolled)

4- KL, TN represents dense clustered states due to economic attractiveness involving both agriculture & industries

- JH with industrial attractiveness &  
Goa with tourism related attractiveness

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- W.B (1000 persons/sq.km) is gradually declining as attractive centre with both agrarian & industrial attractiveness due to lack of generation of economic prospects. (economic)

- All Union Territories (UTs), except Andaman & Nicobar Islands, represents high pop'n density.

It is largely due to their small geographical size

For National Capital Territory (NCT) (11,000 persons/sq.km) & Chandigarh (9000 persons/sq.km), exponentially high pop'n density is due to politico-economic attractiveness & thus immigration.

Moderate density Zones (RJ, GJ, MP, CR, A.P., OR, UK, MH, KN, Meghalaya, Tripura)

- It includes the states that have pop'n density fringing near country's average.

- It fundamentally includes those states of the country which combines extremely dense clustered as well as sparse clustered locations within their political domain.

- (RJ, GJ, MP, CR, Andhra.P., OR) <sup>(Chattisgarh)</sup> <sup>(Odisha)</sup>

\* The states of <sup>UK,</sup> MH, KN, Meghalaya & Tripura are also included in this category.

## Sparse Clustered Locations (Arunachal P., A&N Is., J&K, HP, Sikkim, Nagaland, Manipur) Mizoram

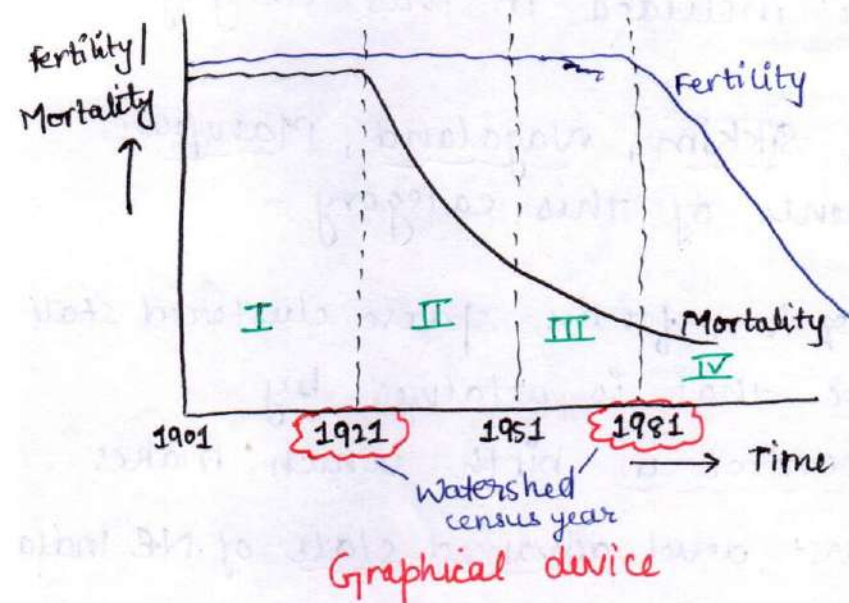
- It includes the administrative units with pop'n density lower than the country's average.
- It is thus composed of unfavourable locations having lesser pop'n.
- Arunachal P. sparsest clustered state (17 persons/sq. km)  
(Primitive cultural identity majority. Eg: Lohitak, Cookis) (High birth & death rate)  
&  
Andaman & Nicobar Islands the sparsest clustered UT  
(46 persons/sq. km) are included in this category
- Jammu & Kashmir, HP, Sikkim, Nagaland, Manipur,  
are the other constituents of this category
- \* \* Mizoram (52 persons/sq. km) forms sparse clustered state  
due to small pop'n size that is attained by  
pop'n planning thus control in birth which makes  
Mizoram culturally most advanced state of NE India

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Growth - Trend - Demographic Cycle in India traced since beginning of 20<sup>th</sup> century (1901 census)

- Phase
- I 1901 - 21 - Phase Stable Pop'n Phase
  - II 1921 - 51 - Phase of slow growth of Pop'n
  - III 1951 - 81 - Phase of Explosive/Exponential Growth of Pop'n
  - IV 1981 - 2011 - Phase of growth (Pop'n) with stability



#### Decadal Growth Rate

1971-81 - 24%

1981-91 - 23%

1991-2001 - 25%

2001-2011 - 17%

Fer - Birth Rate  
Mor - Death Rate

#### I Stable Pop'n Phase

- demarcated b/w 1901-21 Censuses
- India having high fertility with counter-balancing high mortality (due to lesser life expectancy & higher infant mortality)
- The total pop'n thus remained stable.

## II Phase of slow growth of Pop'n

- \* - 1921 census is considered to be watershed census year because India started controlling the death rate (by controlling starvations & outbreak of epidemics)  
(Food insecurity)
- Demarcated b/w 1921-51 censuses, this phase involved consistent high fertility
- The ever-increasing gap b/w dipping mortality and high fertility reflected in growth of total pop'n.

## III Phase of Explosive/Exponential Pop'n Growth

- B/w 1951-81 censuses.
- Reflecting consistent dip in mortality with static high fertility.
- Exponentially high developed gap b/w the 2 reflected in exponential growth rate of pop'n,  
\* with 1981 census recording highest decadal growth rate of 24%.

## IV Phase of growth of Pop'n with stability

- \* 1981 census the watershed census year with recognizable decline in fertility trend.
- Demarcated b/w 1981-2011 censuses, this phase reflects ever-decreasing gap b/w dipped mortality & dipping fertility.

(in 2011 census)

- The 17% of decadal growth rate involves

a) Higher than global decadal growth of 13%.

b) 3<sup>rd</sup> highest from among the most populous 10 countries of the world (after Nigeria (24%) & Pakistan (23% of decadal growth rate)

\* c) for the 1st time, Empowered Action Group (EAG) states collectively accounting for 46% of country's total pop'n have started controlling fertility (projecting significant decline in the decadal growth rate of country's pop'n)

EAG states ⇒ ⑧

UK	CR
UP	MP
BR	OD
JH	RJ

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# Demographic Attributes

- Indian demographic attributes (or variables) involves the analysis of

- a) Age structure workforce dependency ratio  
longevity demographic dividend  
geriatrics dividend  
revolution  
windows
- b) Sex-ratio
- c) Migration

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- Analysis of these demo attributes facilitates understanding of requirements of

- Planning demographic dividend
- Planning Geriatrics
- Women Empowerment
- Generating Regional parity.

## Age Structure

- Represented by Age-sex Pyramid in the demographic studies

Age Structure depicts share of total pop'n in 3 different age groups (Young age, Mature age, Old age)

- In this age groupings, young and old age are considered to be dependent pop'n

- India is presently incorporating 53% of total pop'n in working age group thus depicts (↓)ed dependency ratio

Pop'n projections reveal that by 2031 census, share of working age pop'n will (↑) to 60%.



Additionally, by 2031 half of the working age pop'n will be in the most productive age group (39 to 49 years which combines experience with physical caliber/capability)

Indian dominance of working age pop'n (or Med dependency ratio) is thus here to stay.

\* This is recognised as Demographic Dividend <sup>(census)</sup> or Demographic Revolution.  
(max share of pop'n in working age grp)  
(Med dependant ratio)

(UNFPA 2018-19 Projections)

- In comparison to countries like China (which started its demographic revolution in 1994 & will experience the revolution till 2031), India marks the demographic windows to remain open till 2055 (2018-55 that is 37 years) of dominating share of work-er force in total pop'n.

- The Regional Pattern of demographic windows projects major variations as different states are in different stages of demographic cycles.

Southern states like Kerala & Tamil Nadu have closed their demographic windows in 2018. <sup>(they were 1st to reach the levels of demo-divi.)</sup>

In comparison, most of the EAG states (except UK & OR) have demographic windows fully open till 2055.

EAG States → ⑧  
↑ Uttarakhand  
↓ Odisha  
UK, UP, BR, JH,  
OR, CR, MP, RJ

(Census projections)

- This regional pattern of the demographic windows projects evolving generational gap b/w North & South India.

This is depicted by

a) Almost 15 years from <sup>(2016)</sup> now, Tamil Nadu will have average age of 12 years older compared to pop'n in Bihar.

Moreover, no. of child birth in Bihar will continue to be greater than the no. of child birth in Kerala 40 years ago.

b) Indian demographic trend though overall is projecting much stability however with 2 defined speeds relating to North & South of India, and it is therefore that more than 1/3<sup>rd</sup> of the total pop'n (↑) in the country (b/w 2011 to 2036) will be from the states of Uttar Pradesh & Bihar (in comparison, T.N & K.L will project decline in pop'n).

It is also projected that Bihar will surpass Maharashtra to be 2nd most populous state of the country & Rajasthan will (↑) the pop'n size greater than T.N.

c) Indian Age structure transition from very young country to mid aged country will also project North-South divide with southern states having average age of more than 40 years whereas Bihar will continue to hold the tag of the only state with average age of less than 30 years.

\* Demographic analysis of workforce though essentially is based on levels of dependency ratio but economically it involves 3 more indicators (outlined by NITI Aayog as sources of growth) Total 4 indicators of growth

a) (↑) in Labour Force Participation Rate

that is (↑) in proportion of pop'n in working age grp willing to work. (Gender empowerment)

(to trigger demo. dividend for growth of economy)

b) (↑) in Employment Rate

that is (↑) in the proportion of the pop'n willing to work and finds gainful job.

c) (↑) in Labour Productivity Rate

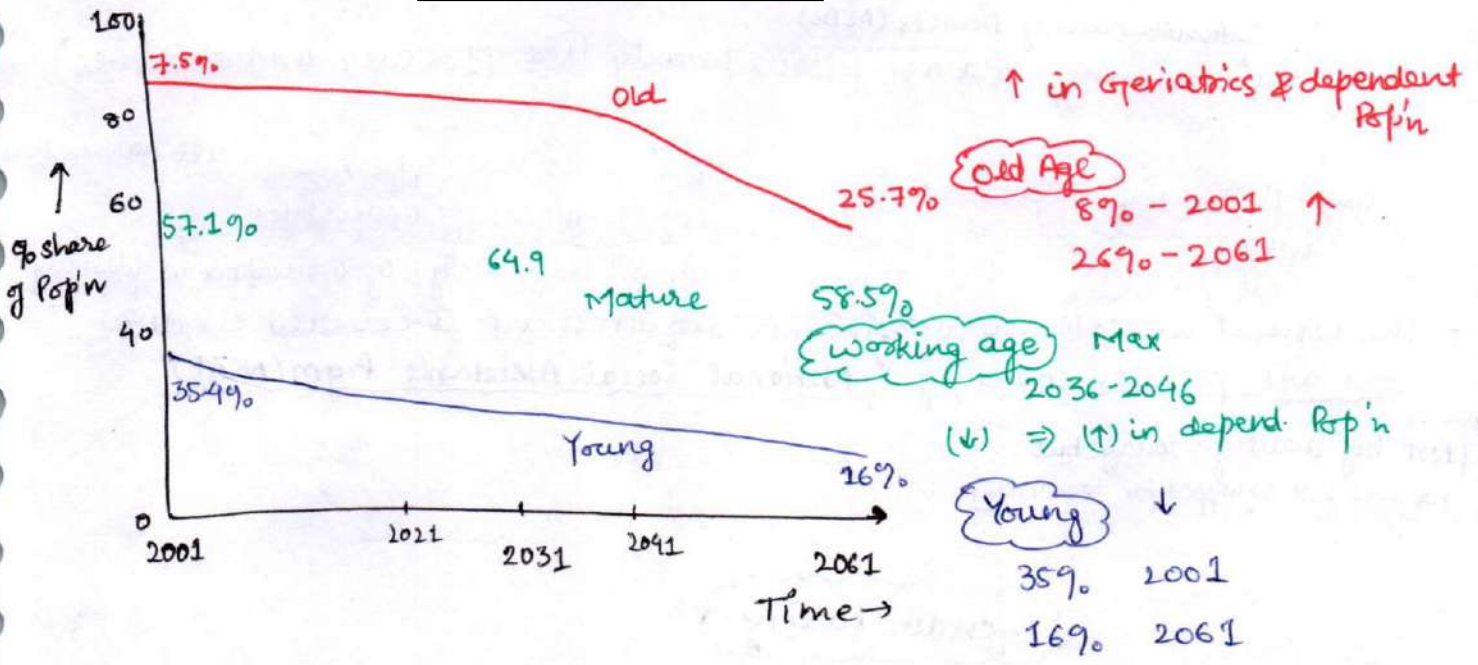
that is (↑) in output per capita that depicts work efficiency. (skilling)

d) (↓) in dependency ratio (already done)

i.e. (↑) in the share of working age pop'n which is attained in the country & will remain prevalent for 25-30 years.

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**Geriatrics** → Pop'n study that is related to an old age cohort.

By 2050-55,

- demographic window will be closed
- ↑ in dependency ratio i.e. ↑ in pop'n share of old age pop'n **Geriatrics**
- ↑ in  $e^0$  that represents ↑ in health facilities, nutritional support, favourable Eco-Social envr.

**India**

- ↑ med  $e^0$  (67 yr - M, 72 - F)
- Higher  $e^0$  in urban areas than rural, however with outmigration of working age pop'n from rural areas, there is higher share of concentration of old age pop'n in rural India (accounting for >70% of old age pop'n)

**Geriatrics**

**-ve**

**Problems of ↑ in Longevity**

- rise in nuclear families (growth of occidental culture)
- absence of desired health infra. (in tackling age related diseases)
- absence of social acceptance (>75% of old age pop'n in rural India) of "requirements" of aged pop'n  
\*(90% were engaged in unorganised thus not entitled to pension)
- general absence of centrality of geriatrics in demographic planning

- Rashtriya Vayoshri Yojana 2017 Assisted by Mo Social Justice & Employment

↓ <sup>2</sup> Assisted living Devices (ALDs)  
 Phys. aid to ~~any~~ old age below poverty line (for any immobilities)

↓  
 dignified (self dependency) living

But it is not effective in all parameters of Problems of Geriatrics (not centrality of Geriatrics in planning)

- The consistent catering of financial requirement is covered under old age pension part of National Social Assistance Prgm (NSAP)

geriatrics  
 [Not big challenge today but we are not equipped for tomorrow]

Sex Ratio - Gender Parity

- India has been historically eg. of gender based discrimination oriented society

a) reflected by Sex Ratio

Temporally

- in 1951 11 Adm. Units were having sex ratio above equity
- in 2011 ② Adm. Units Kerala, Puducherry have above equity sex ratio.

Spatially

Compared to World

- UNFPA identifies that any sex ratio < 990 to be regressive
- India → 940 females/1000 males

- Global sex ratio at 984/1000 male
- 2nd lowest sex ratio of India among top 10 most populous country

Internal Regional Pattern

- Kerala, TN, Andhra P, Pudue, Lak., A&N, have higher levels of sex ratio
- HR(877) Chand(818) PB NCT
- ↳ poorest sex-ratio

Russia  
 Japan  
 USA  
 Brazil } above equity

Indonesia  
 Pakistan  
 BAN  
 Nigeria } higher than India

India 2nd lowest after China - 927 (rigidly implemented) anti-natalism

Child sex Ratio is more challenging at 914

No. of girls 0-6 yrs / 1000 boys of 0-6 yr.

with consistent decline in last 3 censuses (child sex Ratio)

None of N<sup>n</sup> states have child sex ratio above 900

Only N-E states girls child is welcomed (better child sex ratio)

b) reflected by Gender Inequality Index (GII of HDI)  
GII (National Women Empowerment Mission 2017)

- GII is a composite measure of reflecting inequality in achievements b/w Male-Female pop'n in 3 dimensions

i) Reproductive health — Maternal Mortality Ratio (MMR)

Ratio of no. of maternal deaths per lakh live births to the no. of live births per year  
No./Lakh live births  
at 122 deaths/lakh live births

Adolescent fertility Rate (AFR)

ii) Labour force Participation Rate

No. of births to women aged 15-18 yrs/ 1000 women in same age group

highest among BRICS

highest MMR among BRICS countries

National Women Emp. Mission 2017

① PM Matru Vandana Kojana

conditional wage loss compensation programme (to ↓ MMR) so as to ensure medically required leave to females in unorg. sector. along with

Integrated Child Devt Scheme ← • ICDS, 1975  
• Janshiksha Suraksha (institutional) delivery

② Sabla (to ↓ AFR) (2010)

Adolescent Girls Empowerment Pogram

Nutritional  
(Centre sponsored)  
State 50:50

Non-Nutritional  
(80:20 share)  
(Centre & state)  
(100% Centre sponsored)

girls entitled to take home ration/hot cooked meals

out of schl girls 11-15 age & all b/w 15-18 are entitled to it.  
(not attending school)

( coz schl attending girls are getting mid-day meal in schl.)

Non-Nutritional  
↳ Health Counselling  
Career " "  
Skill devt  
Sanitary  
Folic Acid tablets (supplements)

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### ② indicators of gender inequality:

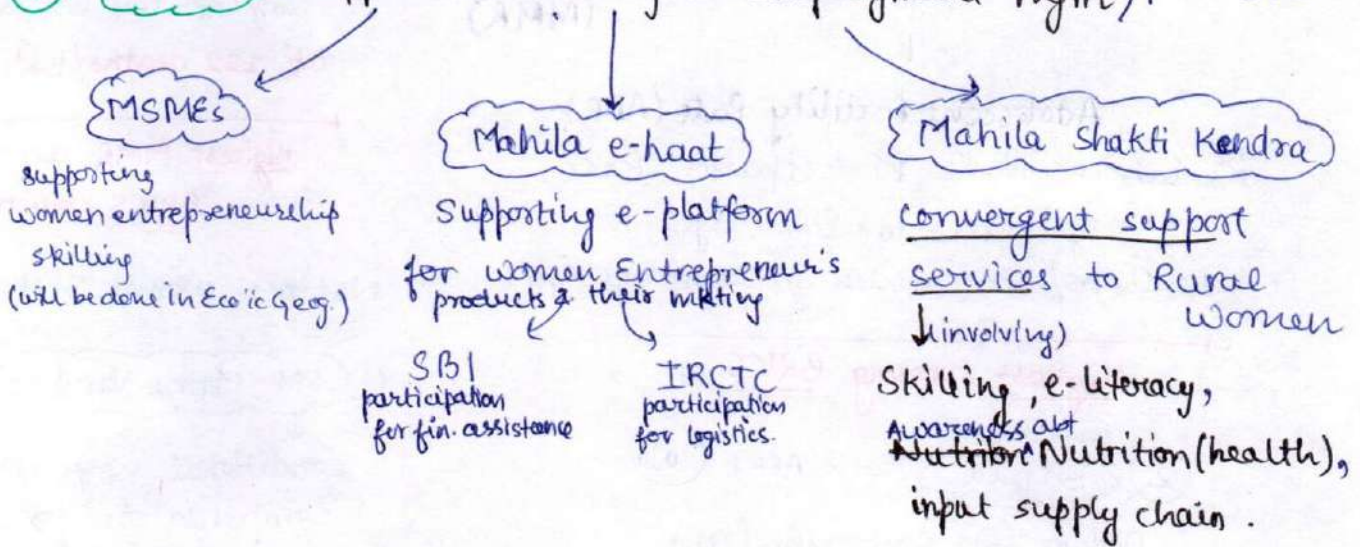
- i) Reproductive health - MMR & AFR
- ii) Labour force Participation Rate (synonymous to Employt Rate)
- iii) Empowerment

ii) Labour force Participation Rate = Employt Rate (in global) In India Both are different

Proportion of country's working age pop'n engaged in labour Mkt.  
% share

India depicts lowest female participation  
+ highest gap b/w F & M participation among BRICS members

### ③ STEP (Support to training in Employment Prgm) priority prgm



### ④ Protection (protective clause of Nat. Women Empowerment mission so as to minimize vulnerability of female pop'n)

- Swadhar Greh for all women in difficult circumstances, providing temporary shelter till the time that rehabilitation with displaced female or regeneration of economic prospect is attained.
- Sakhi One Stop Centre for Med., legal, police, counselling support for women.
- SHE - Box sexual harassment electronic box & protection (e-box) oriented towards protect<sup>n</sup> of females at workplace.

iii) Empowerment

↙  
% share of seats  
in National Parliament  
held by females

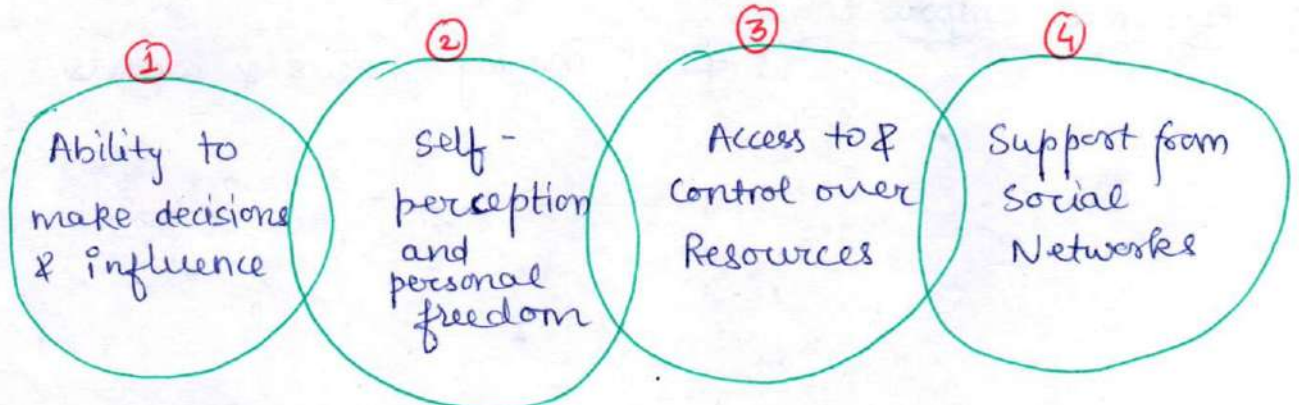
Poor status of India  
(2<sup>nd</sup> Poor, after South Africa)  
among BRICS

↘  
total  
% share of Pop'n  
aged >25 years  
to have attained  
secondary education

Poor status of India  
among BRICS  
for both males & females

Key Dimensions of Women's Empowerment UNFPA

what affects a women's ability to control her own  
circumstances and fulfil her own interests and priorities?





# Types of Empowerment

There are 5 main different types of empowerment

## ① Cultural Empowerment

Things to do with: language, food, clothing, religion, customs & history.

## ② Political Empowerment:

Things to do with: government, voting and politics

## ③ National Empowerment

: decision making

## ④ Societal Empowerment

: the community, other people, protesting or complaining when one section of society is treated unfairly.

## ⑤ Economic Empowerment

: jobs, money, needs & wants

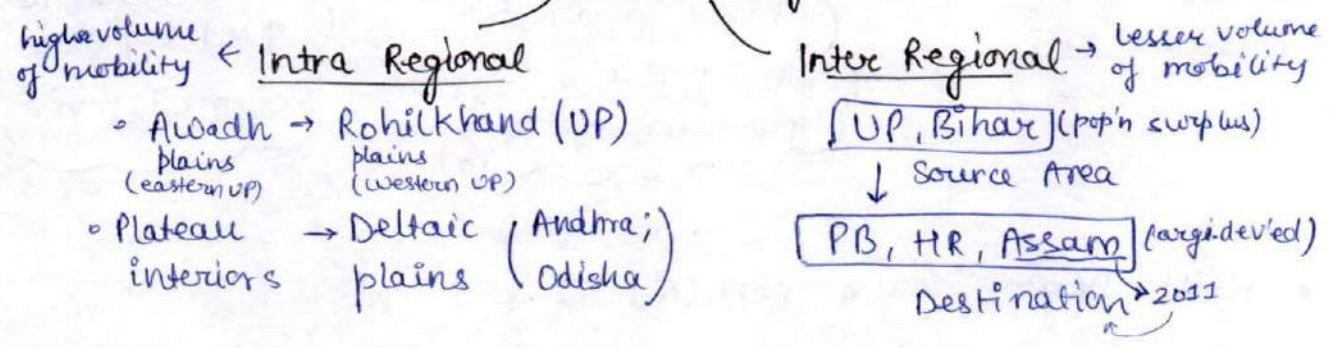
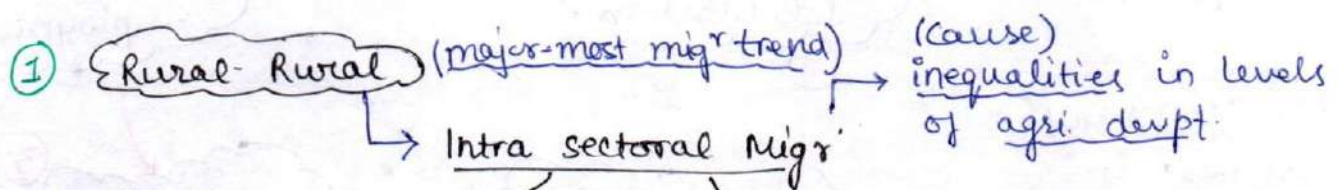
# Migration - Demo. Attribute

- based on census data that involves
    - migr. by place of birth
    - migr. by place of last residence
- Cause of Mig.
- Since 1981 census

- In accordance of 2011 census,
  - 25% of total pop'n are migrant
  - Majority of migrants (>75% migrants) have economic cause of migration.

## Trends of Migration (Intra-national)

- ① Rural-Rural
  - ② Rural-Urban
  - ③ Urban-Urban
  - ④\* Urban-Rural
- \* includes both Sectoral (Rural, Urban) & Regional migr (same state, different states)



② Rural - Urban - Inter Sectoral Migr has been the dominating most migr in Independent India, however, \* 2001 census onwards, dipped to 2<sup>nd</sup> rank.

\* India has successfully bridged "gap" b/w Rural & Urban areas

Cause:

- sustained push both real or percep. in rural India
- additionally multiplied due to ec. related vulnerabilities of rural activities

(Real or perceptual)

• Real &

- Rural migrants gamble or 'queue' for formal urban jobs, accepting unemployment or under employment in the informal sector in the hope of being absorbed in the formal sector.

This leads to

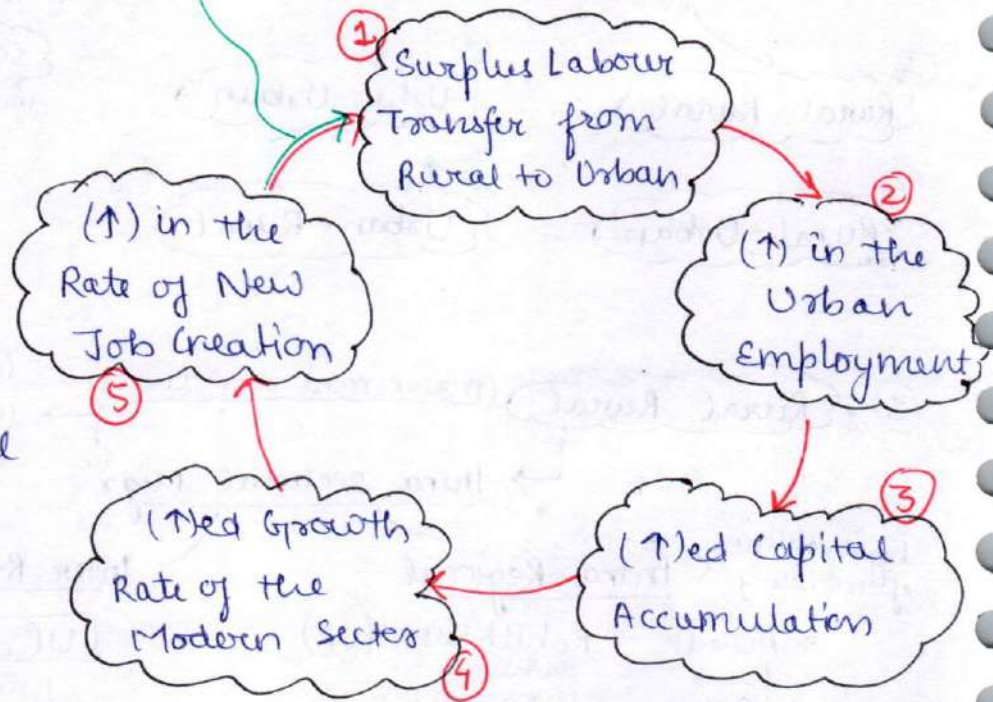
• Urban pop'n (↑)

• deprivation (↑) in urban area, i.e. poverty

• (↑) Economic/Social unrest in urban areas

**PROCESS OF RURAL-URBAN MIGRATION**

(Harris Todaro) 1969



- • R-U Migr have resulted in

- (↑)ed gap b/w census & Adm. towns

- caused explosive urbanisation in India

will be discussed in 'Urbanisation'

→ Source UP, Bihar (Pop'n surplus areas)

Destination NCT, Maharashtra (eco'ic attractive, cultural, geog. compatibility)

+ Bengaluru are the only Urban Agglomeration with →

Strong R-U Migration, thus contributing to Top heavy pattern in Delhi & Bengaluru (Rural influx)

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③ Urban-Urban - Intrasectoral migration

- have generated TOP HEAVY PATTERN (heavy heavy influx of immigration in top agglomerations)

i.e., 6 Top Urban Agglomerations Mumbai, Delhi, Kolkata, Chennai, Hyderabad, Bengaluru

accounting for 26% of total Urban pop'n

	Greater Mumbai	Delhi	Kolkata	Chennai	Hyderabad	Bengaluru
I Migrants in pop'n (%)	54%	42%	37%	50%	64%	52%

	Greater Mumbai	Delhi	Kolkata	Chennai	Hyderabad	Bengaluru
II Migrants from home State in total migrant pop'n (%) (Intra Regional) (From the same state)	53%	99%	80%	9	93%	64%

	Greater Mumbai	Delhi	Kolkata	Chennai	Hyderabad	Bengaluru
III Top 5 'other states' (Inter Regional)	UP, GJ, KN, RJ, BR	UP, BR, HR, RJ, UK	BR, UP, JK, OR, RJ	KN, MH, TN, RJ, UP	KN, MH, TN, RJ, UP	TN, AP, KL, RJ, MH

'other states' is defined as states other than the state in which the urban centre is located; Hyderabad has been considered as part of undivided Andhra P. (AP). Census 2011

IV \* for G. Mumbai, Kolkata, Chennai, Hyderabad → U-U Migr (influx from urban areas)  
Delhi, Bengaluru → R-U Migr

V For the 1<sup>st</sup> time (census 2011), Major Migr. has been noticed \* South of Vindhyans (G. Mumbai, Kol., Chennai, Hyderabad)

④ Urban-Rural Inter sectoral migration (<5% of total migr trend)

- Old age pop'n movement (after retiring from working)
- shows ↑ed longevity ( $e^0$ )
- Unique type of migr as different from common trend.

\* Pattern of Internal Migration

- i) Pop'n surplus UP + BR are major source area in internal migration.
- ii) Geographically & culturally PROXIMATE <sup>& economically sound</sup> NCT & Maharashtra are Major Destination
- iii) W-B in general & Kolkata in specific are declining in attractiveness, & **\* Assam has evolved as agrarian destination.**  
(not kept pace with economic growth) as required since globalisation  
(R-R migr)  
inter-seg.    Intra-seg.
- iv) Southern states inspite of being High Growth States (HGS) are stable <sup>in terms of internal migration. However,</sup> (culturally & geog. distant from source areas), <sup>exception - Bengaluru as evolved destination area.</sup>  
**\* However,** For the 1st time, migration south of Vindhyans have shown prominence.
- v) NW Himalayas, NE Himalayas, Marusthali, Rann of Kutch  
↳ Unfavourable locations, isolated in internal migration  
(no movements)  
Major

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## Migration Trends (International)

### ① Top 7 destination countries for global diaspora

	No. of Intl. migrants (in millions)
① USA	46.6
② Germany	12.0
③ Russia	11.6
④ Saudi Arabia	10.0
⑤ UK	8.5
⑥ UAE	8.0
⑦ Canada	7.8

### ② Top 7 countries of origin for global diaspora

	No. of Intl. migrants (in millions)
① India	15.6
② Mexico	12.3
③ Russia	10.6
④ China (+ Hong Kong)	10.5
⑤ Bangladesh	7.2
⑥ Pakistan	5.9
⑦ UKrain	5.8

### ③ Home away from home : where Indians go

	No. of Indians (in million)	% of total Indian diaspora
① UAE	- 3.5	22.4%
② USA	- 2.0	12.8
③ Saudi Arabia	- 1.9	12.1
④ Kuwait	- 1.0	6.4
⑤ Oman	- 0.7	4.5
⑥ UK	- 0.7	4.5
⑦ Qatar	- 0.6	3.8

→ SW Asia  
→ US  
→ UK

Persisting real/perceptual **PUSH** inequalities in

- levels of devpt.
- avail. of oppor.
- huge competition
- general deprivation

↑ Economic causes

## Population Problems (Policies)

- ① Demo. Revolution → Economic Policy of - Inclusion, decentralisation  
(4 indicator of growth)
- ② Geriatrics → old Age related Planning Vayoshri
- ③ Gender inequality → National Women Empowerment Mission 2017
- ④ Health \* → Indian National Health Policy 2017
- ⑤ Over pop'n → Antinatalism

2.4% area, 17.5% Pop'n

2<sup>nd</sup> India (pop'n) → 3<sup>rd</sup> USA + 4<sup>th</sup> Indonesia + 5<sup>th</sup> Brazil + 6<sup>th</sup> Pak + 7<sup>th</sup> BAN + Russia

Overpop'n → demand-supply mismatch → eco'ic deprivation & absence of parity

1940s, KAP (Knowledge Applications & Practice) Prgm by UNFPA

Failed: Academic nature; unclear objectives; mistrust among independent countries.

Lack of opportunity → eco'ic & social unrest → politico-economic instability → multiplying geopolitical vulnerability

**Antinatalism** Pop'n policy oriented towards controlling births

- (1951 since) thus pop'n size
- India - 1<sup>st</sup> deving entry to mobilize Nat. Pop'n Policy.
- I Voluntary & Informative (1951-1975)
  - II family Planning as family Welfare (1975-2000)
  - III Social Justice + Gender Empowerment (2000 onwards)

## I Voluntary + Informative (1951-1975) Preliminary Phase

- 1st country with explicit National Pop'n Policy
- on absolute democratic line (as per the choice of people)
- absence of desired health/transp./Communication Infra (marked genesis of infra)
- awareness creation with benefits of
  - ↳ small family
  - ↳ gap b/w successive births
  - ↳ means of contraception

↳ **STATISTICALLY FAILED PHASE** as India experienced pop'n explosion in 1970s however practically this phase created ideological & infrastructural foundation.

## II Family Planning as family welfare (1975-2000) Developmental/Modern Phase

- continued with Voluntary + Informative
- added welfare as part of Planning
  - ↳ based on realisation that parents will adopt family planning only after HEALTHY SURVIVAL of children thus orientation towards ensuring health & medical service
  - ↳ beginning of Immunisation + Vaccination program
    - Prenatal (before birth)
    - Post natal (after birth)

\* 1981 watershed - Birth rate started declining (India entering 3<sup>rd</sup> stage of dem. cycle)

↳ **WAS STATISTICALLY SUCCESSFUL**

- led to realisation of (N) & (S) & divide (Regional disparity) (EAG states not participated in antinatalism, S states were yielding results in antinatalism)



### III. Social Justice + Gender Empowerment (2000 onwards)

- N<sup>n</sup> states (EAG states) failed to respond to anti-natalism due to
  - ↳ poor societal status of females
  - ↳ mass widespread misconceptions
  - ↳ strong desire for male child
  - ↳ grave dimension of societal divide
- With Gender Emp. & Social Justice, EAG states since 2011 have started controlling birth rate.

↳ India is slow & steady successful case of Anti-natalism

### \* Health Indicators — (UNDP's 3 Aspects of Health indicators + IPCC (INCCA)'s Impact of CC on Health)

I. UNDP 3 Aspects of health indicator  
(overlaps)

WMO + UNEP

II. IPCC (INCCA)

Intl. Govt'l Panel on C.C. (Indian Network for CC Assessment)

MoEFCC

WMO  
World Meteorological Organisation

↳ Impact of CC on health

III Indian Health Planning  
↓  
different Progs

Mo Health & Family Welfare (MoHFW)

\* Health Index Initiative

interlinked with SDGs 1, 2, 3

\* NITI Aayog dashboard

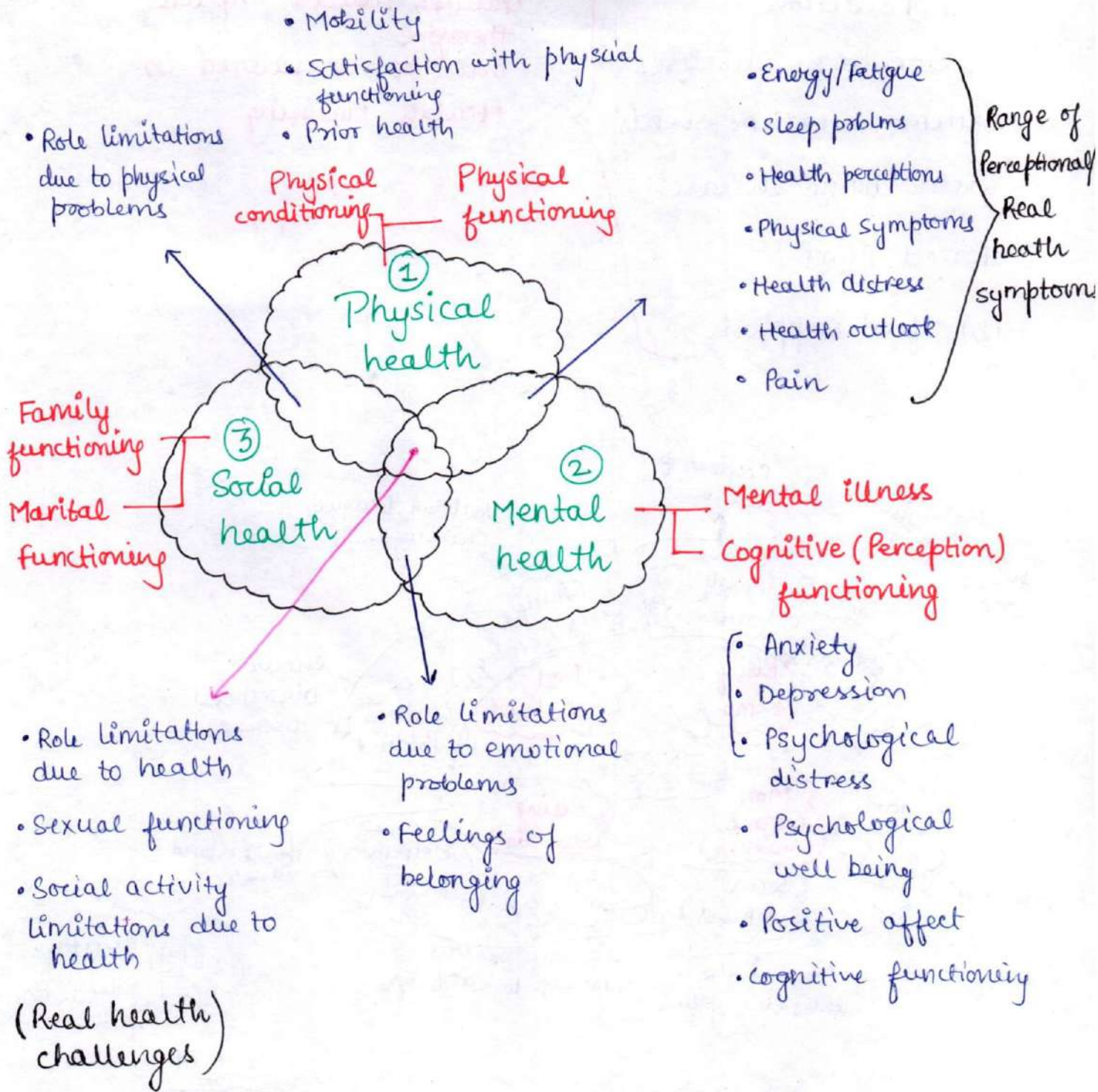
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**DIRECTION**  
INSTITUTE FOR IAS EXAMINATION

# I. UNDP

## 3 Aspects of Health Indicators

→ Overlaps in all demographic functioning thus planning



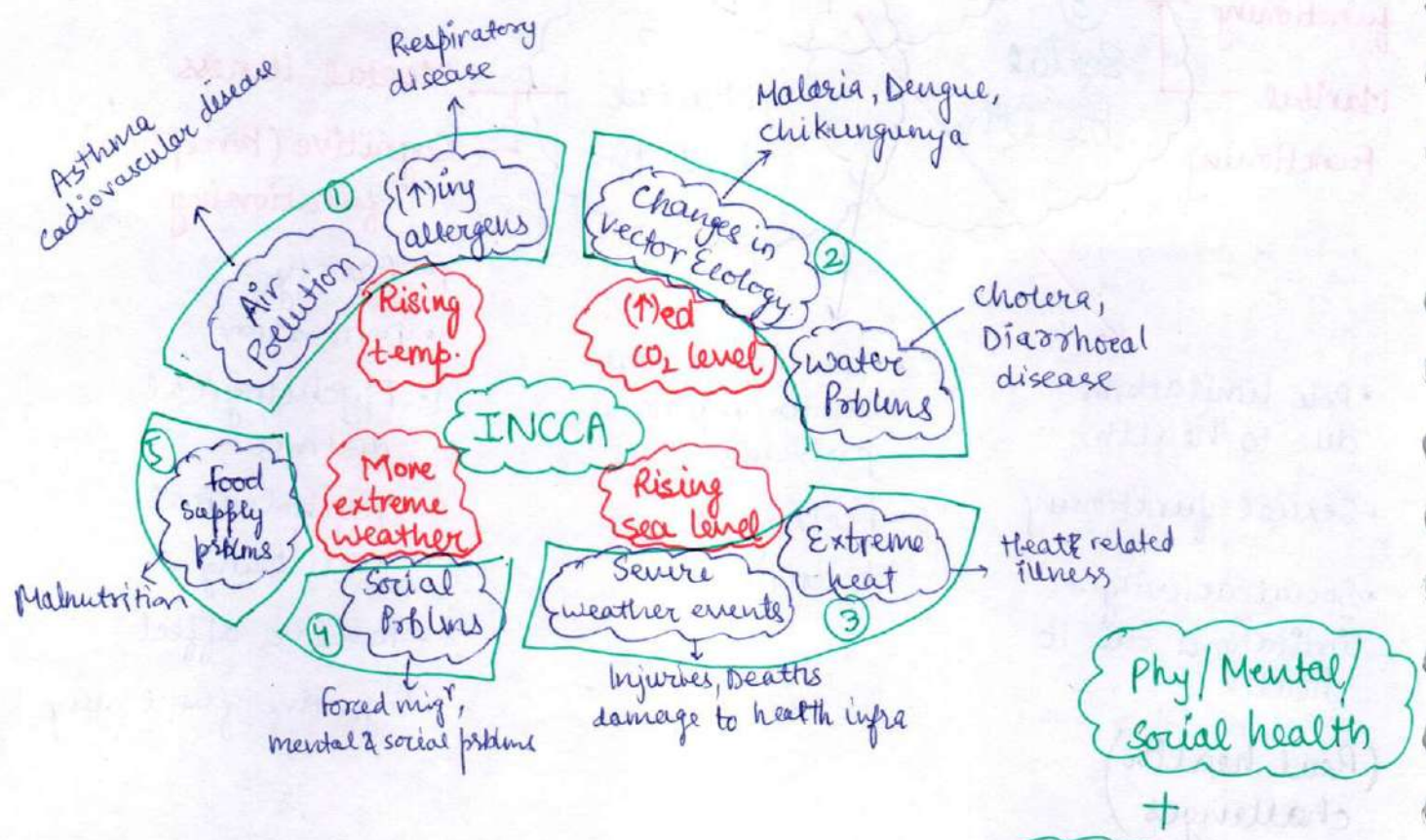
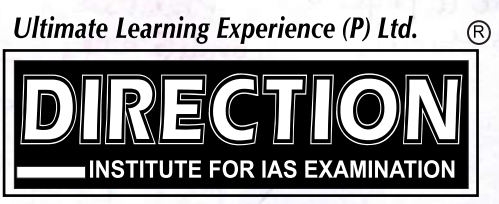
→ They overlap with each other (influencing each other & getting influenced)

→ Indian network for CC Assessment.

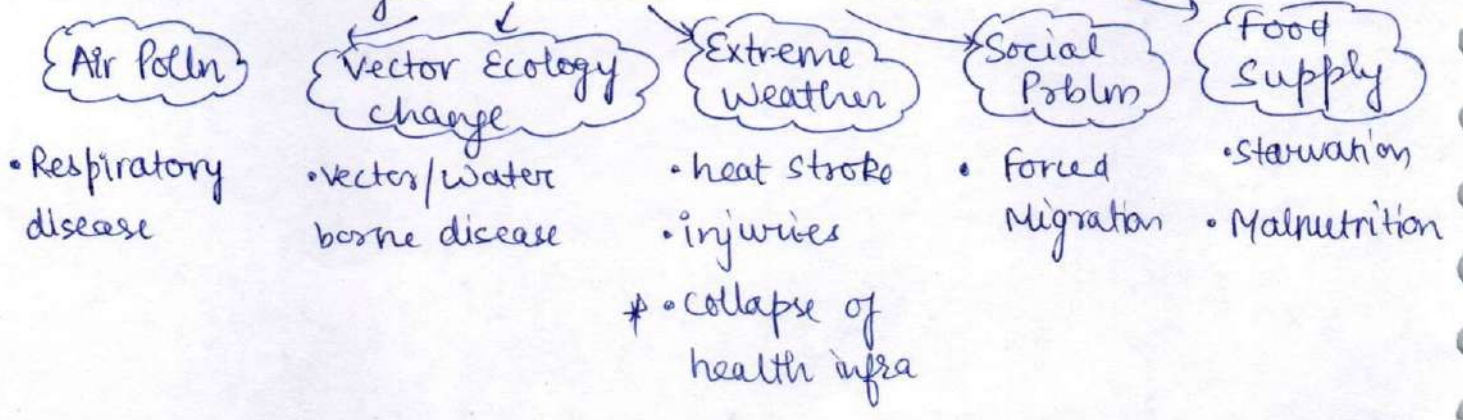
## II. IPCC (INCCA)

- Air Pollution
- Vector borne diseases
- Extreme weather events
- water borne diseases
- forced Mig<sup>n</sup>
- (↓) food supplies

**IPCC** Impact of CC on health  
 induces Health Impacts  
 therefore must be considered in  
 Health Planning



India as per **INCCA** is reeling under **5 fold** health challenges induced due to CC



I Health Indicators - UNDP → Physical  
Mental  
Social } MoHFW

II climate change is Real → influence/impact on health indicators is inevitable

IPCC + INCCA  
Global Indian

India needs / thus have integrated climate resilient health planning

II

\* India gives recognition to UNDP's Health Indicators along with inevitable impact of CC on health.

That is the reason that India involves Climate Resilient Health Planning.

### III Indian National Health Policy 2017

- National Health Mission
- Ayushman Bharat PM Jan Arogya Yojna
- PM Swasthya Suraksha Yojna
- PM Bhartiya Janashakti Pariyojna (Indian pharmaceutical industry)
- Poshan Abhiyan (National Nutrition Mission)

#### PM Bhartiya Janashakti Pariyojna

- Generic medicines distribution
- provide all-time availability of medicines

- In order to achieve desired success in health planning all programs (written back page) are integrated with Global Goals - SDG

↓  
SDG 1, 2, 3

### a) SDG 1 No Poverty

stands for - end poverty in all its forms everywhere so as to (↑) resilience of pop'n & (↓) vulnerabilities.

② imp programs mobilized to achieve the goal

- Safety Nets (MGNREGA)  
creating

- Access to basic services (PM Jan Dhan Yojna, basic insurance)  
facilitating  
Housing for all, bank accounts

### b) SDG 2 Zero Hunger

aims at - end hunger, achieve food security, improve nutrition and promote sustainable agriculture.

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### c) SDG 3 Good Health and Well-being

Ensure healthy lives and promote well-being for all at all ages

#### Ayushman Bharat

- (↑) network of health & wellness centres (1,50,000 H&W centres by 2022)

- (↑) health insurance (₹5 lakh health insurance for 100 million families)

- (↓)ing Maternal Mortality Rate (122 in 2015-17 from 130 in 2014-16)

are caused by - (↓)ing child mortality (37 per 1000 live births in 2017)  
(0-5 yr age)

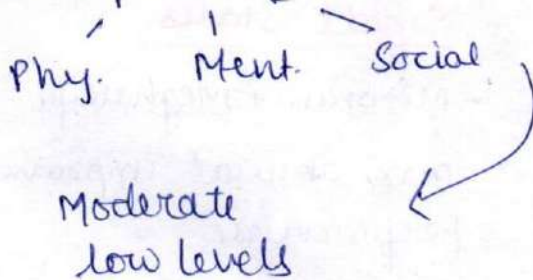
• Lack of awareness (mothers)

• Women ~~not~~ malnutrition (>50% of Indian women in reproductive age are anaemic)

- age of mother
- spacing b/w births
- delivery locations

- In spite of health planning involving

- climate resilience
- inclusion
- 3 Aspects of inclusion



Global Health Index scores, by UNDP + UNFPA

Barring the exception of S. Africa (lowest)

India's Global Health Index Score is poor <sup>even</sup> among BRICS

Thus,

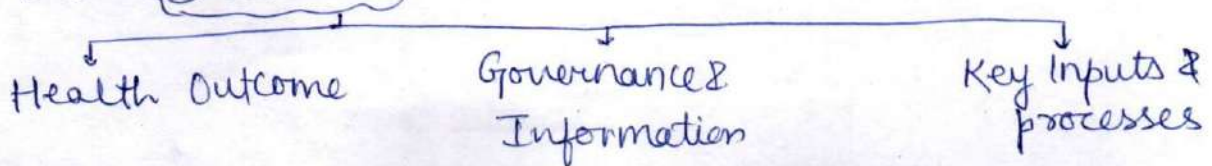
lot of health planning & implementation is to be attempted in India.

- NITI Aayog - State Health Index 2019-20 (4<sup>th</sup> edition)

NITI Aayog  
+ World Bank  
+ MoHFW

↳ Healthy states, Progressive India → rank adm. units on their year-on-year health performance.

↳ It is a composite index based on 24 indicators grouped into (3) domains



3 domains of indicators in NITI Aayog's State Health Index 2019-20

Health Outcome

- Neonatal mortality (infant)
- Under 5 mortality (child)
- sex ratio at birth

Governance & Information

- institutional delivery

Key Inputs & Processes

- functional medical facilities
- birth & death registration

For Comparison

Larger States

- UP/Assam/Telangana have highest annual <sup>level</sup> performance improvement.

\* KL, TN are top ranking

UP at bottom  
BR

Small States

- Mizoram + Meghalaya max. annual improvement in performance

\* Delhi, J&K - Top ranking

UTs

- So, there is regional disparity in health performance of states  
 - whereas some states are performing well & some are lagging behind  
 - creates competitiveness among states.

② National Social Assistance (Annapurna)

③ Sabla (Nutrition)

④ Mid-Day Meal

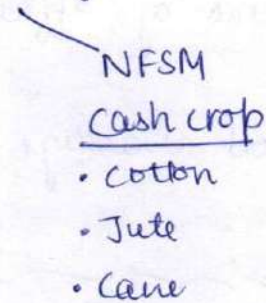
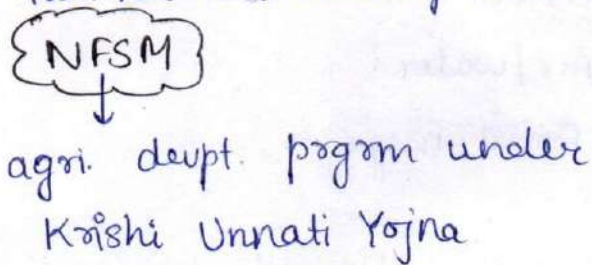
⑤ ICDS

NOTE: Nat. Food Security Act



≠

National Food Security Mission



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