

7 bn ~

Spatial variaⁿ explained by aristotle

he gave ↑ attenⁿ 2 climate factors.
env determinism. } ex of these.

Major Popⁿ pockets

E. asia (1/4th of world Popⁿ) 25%.

- ① china, Korea, Japan
- ② china: 5/6 of region's pop. 11 cities with Popⁿ > 2mm.
due to ↑ Popⁿ inertia due to long history &
- ③ civilisaⁿ (Yunan civilisaⁿ)
- ④ 770% of china's Popⁿ along coast.
- ⑤ Japan: Honshu (kyoto, tokyo, nagoya, osaka, Kobe).

S. asia

20%.

- ① 1/5th. fastest growing region. Bangladesh fastest.
- Indus valley civilisaⁿ. Popⁿ in plains.
- S. asia urbanisaⁿ ↓. Poor popⁿ. ↓ demographic attributes.

S.E. asia

16%.

- ① 1/6th Popⁿ (1/6 - 1/7)
- ② along river valleys: irawadi, Mekong etc.
- ③ Indonesia has largest.
- ④ ↓ history. ↓ fav phy factors (equatorial)
Popⁿ growth due to colonial de-dev. ↑↑ migrants.
- ⑤ Indo-china culture.

W. Europe

(1/8th Popⁿ) 12%.

fairly long history but not ancient.

Popⁿ growth w/ ind. industrial rev. (give reason for this)

Now rates are ↓.

-ve for germany

Migran 4m E. to W.
after fall of USSR.

↓ land, 2. ↑ density.

cities developed as clusters.

Netherlands: Made land 4m sea: Polders.

Medit climate.

N.E. US (10% total America)

New England states. Eng/Eu → US.

NY, Connecticut, Maine, Delaware

NY
Connecticut
Delaware

Not ancient. (16th-17th cent)

↑↑ urbanisation, tertiary sectors.

Secondary and tertiary conc regions:

S.E. Brazil, S.E. Aus, Mexico, Nile valley has

40% popn of Egypt, Canadian-US border &
St. Lawrence river, Medi coast of Africa-EU (Algeria,
Libya, Morocco).

continental distribⁿ
(1985)

Asia 58

Africa 13.2

EU 11

N. America 5

Latin 8.5

(2006-07)

61%

13.5%

12%

(5)
7 12%

(fastest growing)

Africa will ~~have~~ 100% popn growth by end of century.

yet now life expectancy is ↓. other factors are
- too but due to intervenⁿ area will improve.

Europe is recording stagnation. some ↑ due to immigration.

~~from~~ Africa → France, Poland → Germany,

Hispanics, Asians in US.

Latin America pop ↓ due to
outmigration is main reason.

gov partly but

mudit jam

Factors of distribⁿ

- ① Phy factors : soil, terrain, rivers, deltas, condⁿ
adverse: siberia, tundra, greenland (ecumene n non
ecumene approach.)
- ② env determinism. (discarded) ✓
- ③ human factors
 - Urbanisⁿ
 - Industrialisⁿ
 - growth rate
(↓ dev, ↓ edu, ↓ health etc)
↑ IMR → ↑ TFR.

distribⁿ in terms of migrⁿ pattern

- ① Migrⁿ imp 4 inter n intra regional distrib of popⁿ.
- ② Voluntary n involuntary.
- ③ ex: africa due to adverse condⁿ, c. asian countries,
republic of russia, tibet, kashmir pandits, afghanistan
etc.
- ④ 4/5th of world popⁿ lives within 800 km of coast
(problems of CC).
- ⑤ Ind-Pak Partitⁿ (300 mn people.)
migrated.
- ⑥ outmigrⁿ of jews from europe (WW)

Popⁿ Growth

- ① Social probs due to popⁿ growth.
- ② 7 bn. $\text{GR} = \text{BR} - \text{DR} \pm \text{Net Migrⁿ}. \quad \text{annual } \uparrow. (70-80 \text{ Mn } / \text{yr})$
1.2% in 1963. Av 20th cent: 1.8%.
- ③ Highest GR: 2.2% in 1963.
- ④ temporal and spatial Variation.

Temporal

- 1) vilvilisⁿ 3-4000 yrs old.
- 2) hominids 70000 yrs BR.

3 phases

Neolithic : new stone age : ✓agri, ✓domesticaⁿ,
no longer hunter alone, ↓ DR, controlled fire.
food range ↑.

② Industrial rev
Talk abt Malthus too in this.

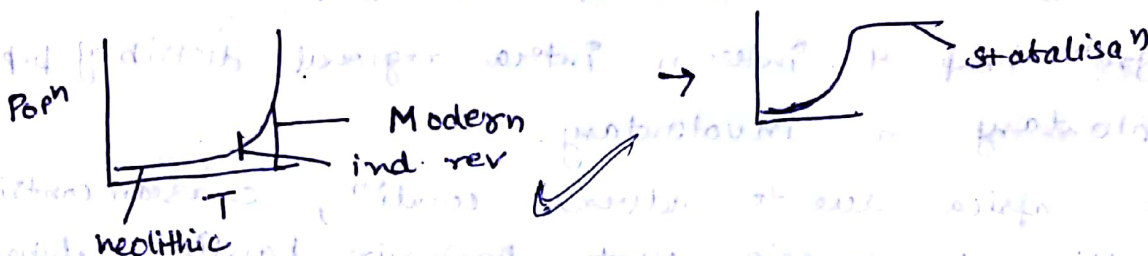
neolithic
ind rev
modern.

③ Modern :

After 19th cent (Africa + Asia)
growth due to ↓ (dev + medical revolution, life expectancy ↑.

Talk abt 4 Asian regions. The present growth n future scenarios.

E. Asian ↓ in future, S. Asia ↑, S.E ↓, W. Asia ↑.



Spatial (2000-05)

Asia: +240 mn, Africa: +90 mn, L. America: +40 mn
N. America: +15 mn, Europe: -3 mn
World: +390 mn

→ Africa's future.

→ Asia's

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doubling time

1 bn: 1804, 2 bn: 1904, 4 bn: 1950, 6 bn: 1986-85.

8-9 bn by 2050

rapid fall of Europe in absolute proportion terms.

Reasons of growth

① declining mortality, ↑ quality of life, medical rev. (Malthusian) (Asia, Africa)

② Marxian interpretation. Structural theory of classes and (at top) have: notes (at bottom) growth in popn has → ↑ capital. → accumulate labour an incentive in poverty.

③ This is discarded. Poverty creates ↓ (edu, awareness health etc)

Int conf pop dev (ICPD) talked abt women's reproduction rights.

③ Sodo economic seasons.

Probs

- ① ↑ P on resources
 - ② xenophobia, conflicts
 - ③ disparities, deprivation
 - ④ old popⁿ in dev nations. → ↑ cost of support.
- C ↓ pop, ↓ gr, ↓ br, old age)

Theories of growth

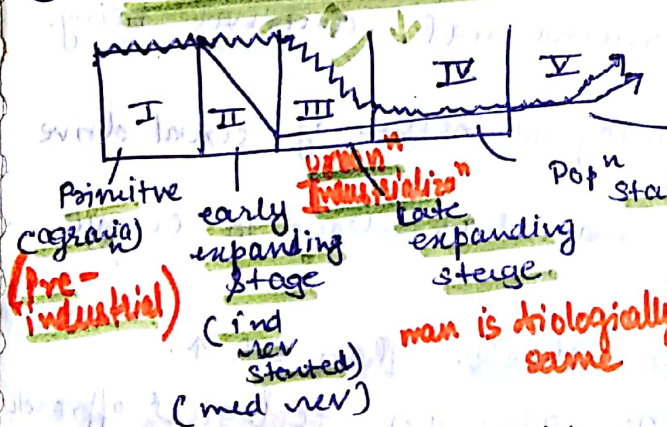
DTM (notestein & thompson)

DR, BR, GR A Link wld socio-
eco transition.

- DTM (noted in a theory)
- ① based on study of Europe, N. America, Aus.
 - ② descriptive, superficial, non-analytical, empirical, scientific
 - ③ traces changes in BR, DR, GR; socio-econ transition
 - ④ generalisation for whole world. → not valid. (Prob)
 - ⑤ assumpn:
 - (a) $\uparrow$ BR, $\uparrow$ DR (primitive)
 - (b) then $\downarrow$ DR, $\uparrow$ BR (expansion) (DR falls 1st)
 - (c) $\downarrow$ BR, $\downarrow$ DR (mature)

trans in three stages lls. social n tech dev in society.

- ② don't a/c 4 birth control policies.



predicted future

DR
diff countries &
in diff stages

Pol'n ^{Pop'n} statalisan
 (No developing entry here)
 (And may b in 2060)
 man is biologically same
 cultural diversity → diff s across

- ② another prob: predicts a linear unidirectional stage OTM. It is deterministic. observed changes in a society's interpretation of how society changes along predictable lines but urban Iraq have reversed the process due to internal conflicts. And, China have telescoped stages by birth control programs. Based on Europe, N. America, Aus. role of technology is underestimated (medicine)
- ③ Baby boomer phase: Post WW-2, economic hardships, depreⁿ, ↑ BR resulted in ↑ MR → ↑ BR in EU & US.

① 5th stage suggested by modern theorists who
MR can ↑ due to ↑ % of aging popⁿ.

(ex: Japan, Germany, Scandinavian)

② Migrant effects not a/c'd.

ex: EU → US & Aus.

③ theory is still a base for many modern popⁿ
policies whr gov try to control ↑ BR. but policies
using DTM focus ↑ on popⁿ size as a problem
and focused only on controlling the numbers.

But now focus is on social dev.

helps in understanding process in
Socio-eco context

TN, Goa, Kerala: IV stage.

AP towards IV

rest II. not even 3rd.

unless N pushes, Ind can't achieve

3rd stage by 2025.

Popⁿ is Problem, not considers migration.
-res: ethnocentric, descriptive, linear-unidir,
does not cover gov-intervenⁿ, tech-neutral,
superficial, non-analytical. ex China, Ind,
Cuba, Iraq, Baby Boomer phase, 5th stage
(now China ↑ popⁿ)

World - DTM

- ① from 18th cent W. Europe moved into 2nd stage due to IP
1st stage was Europe after 1900. In 904+3 / 100
In ④ since 1990.
- ② till 1900, Russia & E. Europe in ①. didn't move into
- ③ N. America in ② till 1930 → ③. cultural homogeneity.
- ④ Aus, NZ in ③
- ⑤ WW1 + : afro-asia into ②. 1921 Ind
- ⑥ Japan stage ④
- ⑦ sub-sahara, E. America in ①.
- ⑧ China ③.

mudt'ain

Malthusian theory (UK)

① 1st to give theory on Popn growth: 18th, 19th century. And rev.

↑ std of living. he predicts wt is society moving towards limits to growth & food production. **Pop growth > means of subsistence.**

② uncontrolled growth, ↓ social growth, ↓ agri productivity, rural outmigration. Forsees demographic catastrophe.

③ acc to him capacity of human growth > food growth. (arithmetic) (geometric) **(subsistence means)**
→ social probs.

④ sees man as unthinking mechanical animal being. has 2 instincts: foraging (survival) & biological instinct of sexual drive

⑤ if procure 1st instinct than man has urge to engage in procrean → ↑ BR. ✓

⑥ limited food acts as a +ve check. than DR ↑.

⑦ this is ex of env determinism. also an ecological approach. In interpretation of popn growth. empirical theory.

⑧ Flaws: mechanical interpretation, pessimistic view, no diff b/w biological and social drive. give reasons for ↑ BR. env. mech.

⑨ controls: +ve (env'tal controls: epidemics, wars, miseries).

natural: +ve -ve: deviant sexual behavior.

man made: -ve (preventive) homosexuality, extra marital affairs etc

• he did recognize migration & techniques of production and temporarily mitigate the effects but would not imagine productivity checks.
• criticized by Marx for reason of poverty.
• only Europe, N. America (improved)
• assumption of passion b/w sexes questioned
• lost premisence after ww-2. succeeded in relating means of subsistence & popn. He brought study of popn in social science. He brought out relationship (popn & socio-econ condn). Initiated theory building.

• widening gap b/w popn and means of subsistence → divided society (rich & poor) → capitalism
• preventive checks relate to fertility, in 'moral restraint' or postponement of marriage. He was stressed on moral restraint (as it would keep the drive to work hard)
• +ve checks will be mitigated & popn will rise and then the checks will come into play again.

⑩ classified society into

Poors affluents

(+ve checks)
on poor.

(-ve checks)

⑪ If poors given resources $\rightarrow \uparrow BR$ He sees
cause of poverty as poor unlyk Marx. He justifies
Capitalism.

⑫ Predicted that Popⁿ wd double in 25 yrs. but actual
trend is not so.

⑬ If Popⁿ was to grow as G.Mean then today Popⁿ wd
have been 250 times 1789 level. But this is not so.

⑭ didn't arrive as math expr using quantification & math
tech. He dramatized Popⁿ - food gap.

⑮ It was not psbl 4 him 2 predict tech dev, green rev
etc. didn't consider gov policies as -ve check.
He overemphasized +ve checks. on family planning
overemphasized +ve checks.

Neo-Malthusian (NM)

① he inspired new models, Environmentalism based activism
② NM sees env probs as result of env disrupⁿ.
world wld need 70% $\uparrow$ power by 2050, 50% $\uparrow$
energy

Malthus current relevance

- Popⁿ shud hv been 250 times 1789.
- CR, gov policies for Popⁿ
- +ve checks overestimated
- envism problems
- Poverty considered problem $\rightarrow \uparrow$ capitalism
- social drive vs sexual
- man's interpretation.
- food distribⁿ is bigger prob now.
- family size are decreasing now.
- discovery of new resources
- new rate of tech dev $>$ Popⁿ dev.
- though wars, crimes, diseases, famines etc have caused deaths but only of a small fraction.
- inc cultural determinism, neo-determinism, welfare geog (rote of man in humanistic) etc.
- Marxian. (capitalism $\rightarrow$ poverty $\rightarrow \uparrow$ hands)

- Marxian Interpretation and in process talks abt Popn.
- ① economic polity theory can be seen in 2 ways:
- ② transition
- a) type of economy society is
- b) mode of production & ownership
- ③ (a) Egalitarian community ownership, ↑ equality.
- (b) Agrarian feudal. | powerful owner of land / cattle. birth of landed class.
- (c) Industrial rev. | capitalist & labour class. (changes & changes not)
- (d) socialist transiⁿ phase
- (e) communist. again egalitarian. mudit jain

capitalistic
egalitarian
community feudalistic

E A I S C

→ capitalist economy as reason of poverty.
 ↳ pvt & social differentiation. → poverty → ↑ hands at work
(↑ popn)

The creates superfluous popn.

differ b/w Malthusian & Marxian.

don't give
resource to poor
env + re checks.

Popn is prob.

(DTM also say so)

or

sees it as a resource.

evaluation

- 1) alternative to malthusian.
- 2) the evaluation of man
- 3) against env determinism.
- 4) too critical of capitalist sys. ex against his view are
 ↑ std of dev capitalist nations and exploitative socialist/
 communist systems.

Marx vs Malthus.

similarities

- 1) didn't conceive that popn can grow along with improvement in living standards.
 - 2) main reason for popn growth is DR decrease.
 - 3) both aware of negative correlation b/w wages & BR, DR.
- Popn growth due to DR ↓ (wage)

diff

Marx

pvt property is root of probs
social differentiation
applicable to p/r type of ecosystem.

Relevant due to ↑ gap b/w
rich & poor.

Malthus

capitalist setup is good.
universally applicable.

It is relevant in present
due to existing mismatch b/w
popn & resources.

Ind Popⁿ growth

- 1) 1.21 bn. 17.6% ↑. 2.4% land. Might b largest in 2030.
- 2) 1 Aus / yr, 1 Brazil in 10 yrs.
- 3) decline in CR since 1990s. 1991 → 2001 → 2011
21 → 19.9 → 18.6. decadal → 23.8 21.3 17.6
- 4) 3rd DTM phase in 2001
- 5) largest CR of India was b/w (1950-80) when av CR > 24%. (every 10 years). 1971: 24.8%.

Phases / temporal

- ① 1901-1921 : highly fluctuating demographic profile.
- ② ^{early growth} 1921-1951 : steady growth. 1921: watershed.
- ③ ^{rapid growth} 51-81 : rapid growth. DR ↓, BR ↑. (green rev, medical rev)
- ④ (↓) 81-2001 : steady decline (transⁿ phase)
- ⑤ (↓↓) 2001+ : definite entry to phase 3. (irreversible transition with growth slowing down)

Spatial patterns

- ① ↑ GR though declining.
- ② fastest GR in Hindi-speaking belt. Bihar → JK
25%, 23.7%.
- ③ UP Popⁿ: 17%. (20 cr)
- ④ smaller states & ↑ GR due to low Popⁿ base.
Nagaland: GR 64.
- ⑤ Metros and urban areas have ↑ GR, also UTs.
- ⑥ N-S divide. Stabilisation ≈ in S.
- ⑦ hill states & will have ↓ GR. Reasons: ↑ dev in Mizo, Manipur. ↑ outmigration in central Indian tribes, khonds, sathals. DR ↑ too.

Reasons of ↑ GR in India

- ① cultural (agri, ↓ social dev, poverty)
- ② early marriage. ↑ repro age span.
- ③ male child preference.
- ④ ↓ women empowerment. ↓ literacy, ↓ eduⁿ.

Women Edu	TFR
< Primary	5
Upto 4 th	4
Upto 8-10 th	3.5
> 12 th	2

- ⑤ ↓ acceptance of modern values.
- ⑥ rooted brit legacy, depressed agri economy.
- ⑦ creasons or not religious but fn of socio-economic culture.
ex: Mollapuram: ↑↑ muslims but optimum TFR, GR etc.

⑧ reasons given by NPP 2000:

- (a) large pop in unproductive span : 40%. GR
- (b) ↑ IMR : 40%. GR.
- (c) Unmet demands (↓ CPR) : 20%. "

Post partum care : care of mother after delivery.
RCH (reproductive child health) prog etc of IMR,

healthcare, quality of life, vaccination, institutional delivery, pension schemes...

distrib

- ① 382 pr / km² (density)
- ② 17% growth (decadal)
- ③ 31st most dense region of world.
- ④ CR is declining. but density is $\uparrow$ rapidly 270 $\rightarrow$ 324 $\rightarrow$ 382

Bihar > WB > Kerala > UP : least: Arunachal Pradesh (17).

Reasons of distrib density

- ① phy factors (ex)
- ② ex of favourable phy factors in region (plains)
- ③ plains > 60% of popⁿ.
- ④ agri regions have $\uparrow$ popⁿ.
- ⑤ areas w/ industrial dev have $\uparrow$ conc.
- ⑥ All UTs due to urbanisation.
- ⑦ N-S divide.

concentraⁿ index

density does not tel abt $\uparrow$ or $\downarrow$ popⁿ. $C.I = \frac{\text{actual density}}{\text{av density of district}}$

$C.I > 1.5$: $\uparrow$ conc (over populated).

$0.5 - 1.5$: optimum

< 0.5 : $\downarrow$ (under populated).

under popⁿ does not mean less popⁿ. people are less dense as they have less carrying capacity.

$\uparrow C.I$ means +ve phy features / $\uparrow$ carrying capacity.

eggs $\downarrow C.I$ can mean adverse phy features.

Migration

(1) It is not commuting but relatively permanent change in residence. $\therefore$ Transhumance is not migration. (movement of tribes like Bakarwals (JK), Gaddis (HP), etc to north during summer for alpine pastures like Murg/Bughyals).

(2) ex
 • age of voyages $\rightarrow$ people started moving. (Spanish, Portuguese)
 • Europeans migrated as Europe got crowded, agr prob, potato blight of Ireland, sea exploration, for trading etc
 • Americans: migrated from Brazil coast $\rightarrow$ Andes $\rightarrow$ Mexico $\rightarrow$ America
 This area has hispanic popⁿ (Latin).
 Ireland $\rightarrow$ US.

(3) consequence
 ① European popⁿ $\rightarrow$ US.
 ② Portugal, Spain $\rightarrow$ Americans.
 ③ cultural mixing forming mixed culture called Mestizo (these are more than 80% now in Indian popⁿ is terminated)
 $\therefore$ native Indians & mongoloids pop $\downarrow$ drastically.
 Mexican natives were: Mayans, Aztec, Incas (Andes)

(4) African migration
 • Slave trade. slave Δ across Atlantic
 • Spain $\rightarrow$ Ivory Coast $\rightarrow$ Caribbean $\rightarrow$ US $\rightarrow$ Spain.
 • Caribbean has sugar. Slaves made sugar $\rightarrow$ move to US $\rightarrow$ traded 4 gold etc $\rightarrow$ move to Spain
 • resulted in exploitation, migration, racial mixing

(5) Migration post 1800+ (opening of Suez canal) EU $\leftarrow$ Aus NZ
 • easy movement of Europeans across medi.
 • expanded to east countries (Aus & NZ)
 • British of Aus & many of NZ affected.

(6) Asian (Post 1800) Indian + Chinese spread.
 • indentured labour, contract labour
 • Gujarati, Rasthri $\rightarrow$ Africa.
 • Mauritius has 3 official lang: French, Gujarati, Hindi.

Chinese → Japan, Peru, Canada, S/E Asia, US,
W. Canada coast

Indian → Caribbean, Africa (S,E), Pacific (Fiji)

Migran of 20th cent

After 1950

India < ^{US} Europe

ex

1947 → Jews migran → EU to W. Asia (Israel), Palestine.
→ displaced native Arabs 4m Israel → conflicts over
Jerusalem, ethnic riots, terrorism.

2nd Partin → 300 mn displaced.

3 1960s-70s engg, doc → EU, US, Canada.

4 1990s

- USSR breakup → migran
- EU reunifican → "
- IT from India

5 Wars

Iraq, Afghan etc like Pashtuns, Pakhtunkhwas, N/W
Frontier Province

6 Regional Ex

Kashmiri Pandits, African TUBISA Hutus, Sahel belt,
Apartheid

Mudit Jain