

ECONOMIC GEOG - MUDIT JAIN

World popⁿ (2013) : 7.1 = 5.9 + 1.2
 " " (2050) : 9.7 = 8.4 + 1.3

Asia (4.3-5.3), Africa (1.2-2.4), Oceania (38 mn - 58 mn),
 Latin + Caribbean (606-780), N. America (352-448), Eu [724-726]
 (600-780) (350-450)

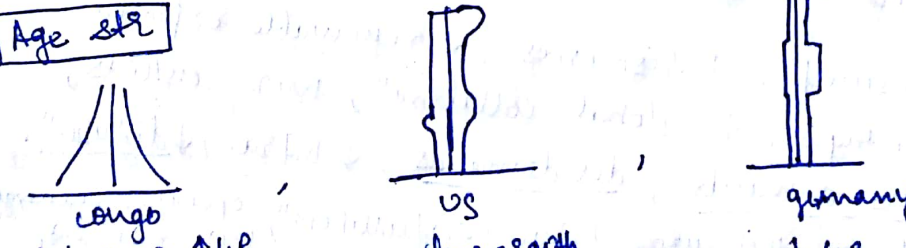
TFR World MDG target 2.1
 Continents with < 2.1 = N. America (1.9), Eu (1.6) [France, UK etc]

" " > 2.1 = rest all.
 Highest levels Africa (W, C, E, S) > 4. **Africa = 4.8**
 Latin 2.2, Asia 2.4, Oceania 2.4.

Popⁿ Factor 2050/2013 < 1 for:-
 East Asia, W/E/S Europe. **X N.A.**
 with > 2 (Africa E/C/W/S) ∴ North is 1.9.
 Rest 1.2-1.6.

10 most populous cities
 Tokyo > delhi > Mexico > NY > Shanghai > Sao Paulo > Mumbai
 > Beijing > dhaka > Kolkata. 10
 1% 58% in India.

Disparities
 wealthiest 20% have 50% income, poorest 20% have 10%.
 " " " " " " < 3%.
 " " " " " " 7-5%.
 In US : " " " " " " 41%.
 In Eu : " " " " " " 41%.
 Disparities : Latin > N. America > Africa > Asia > Europe.
 low to high

Age str

 Congo ↑ base → ↑ LR
 US slow growth
 Germany ↓ LR
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World IMR target 28.

< 28 : N. America (6), Europe (<5), E. Asia (15)

≥ 28 : ① S. Asia (47), C. Asia (40), W. Asia (28), S. E Asia (28)
② N. Africa (31) rest > 50 (C. Africa = 100).

Death / 1000 world = 8.

< 8 : South Asia, central, west, Oceania, S/E, E. Asia,
N. Africa (6).

≥ 8 : N. America (8), whole Europe > 10, Rest Africa > 12,
exception.

Birth rate / 1000

good nations ≈ 12 (N.A, Europe, E. Asia)

Oceania = 12, Asia ≈ 22, Latin = 18, Africa > 30, 40

Life expectancy

> 80 : W, C, S Europe

> 70 : North America, Latin, central America, E. Eu

W/E Asia, Oceania (77)
Rest (S. Asia (67), C. Africa (51), W/E/S A ≈ 55).

< 70 : Rise to 16.5% popⁿ in S. Africa, ↑ in W/S/Asia,

N. Africa (70)

AIDS

E. Eu, N.A.

Sex ratio

world 986

Eu (1080), Americas (102), Africa (100), Oceania (986) Asia (958)

World energy crisis

dimensions : CC/GW/INDCs, ^(SDGs) sus-dev, renewable, oil prices/supply-demand,
limits to growth, Malthus, determinism (N+C), EMS

causes :- ↑ POP, ↑ consumpⁿ, ↓ resources, ↓ renewable exploitⁿ,
↓ η, ↑ wastages, ↓ global collaborⁿ, wars/conflicts,
Tropical nations demands, dev demands, ↓ infra, ↓ distribuⁿ.

Sol :- RAD, fund, renewable, η, tech use, global assess/collaborⁿ, Opec (13), unenergy (20), IEA (28), Eu energy charter (5).

US consumes 25% of world use & imports 70% of it.
 US has 2.4% of world's oil, Middle east (>60%)
 " " 3.4% " " gas, Russia + M.E (>66%)

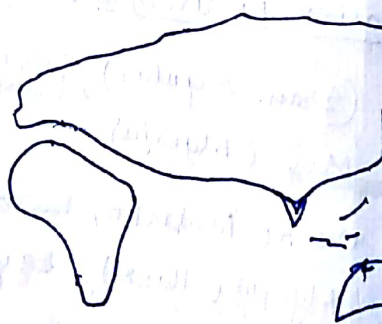
Energy consumption / capita

N. America, Aus, Gulf, Japan > Europe > Russia > Africa (-N).
 Some South L.A. nations > China, Brazil, Ind, S/E Asia (CN. Africa too)

Agricultural Typology

Whittsey in 1936. 5 criteria:
 • ° of mechanisation • livestock/crop combi. • farm infra. • cropping intensity / land use intensity • processing + marketing.
 Primarily, sorting into 11 regions [on climate basis].
 Variations in drylands of LDCs / dev / less-dev & assigns LDC with shifting / nomadic + intensive subsistence: Ethnocentric

Regions: ① Nomadic, shifting, livestock, dairy, ~~shifting~~, sedentary tillage, intensive w/o rice, Intensive w/o rice, commercial plantation, Medi, commercial grain, mixed crop + livestock



livestock
 dairy
 (dland): ~~gardening~~ grain

World economy

Unemployment rate

> 15 in PICs, ≈ 4 in Indian-subconti, variable [4-8] in E/S.E. Asia
 5-8 in Americas, > 10-12 in WANA. 26% in S.A.

Inflation

Var + higher side in Ind-sub, Var in E/S.E.A [0.9 for Japan, 9 for Indo], < 1 Pigs
 Venezuela, Syria ≈ 30%

modi. comm

W. N. America : livestock

E : " : dairy

C. N. America (Midland) : ~~gardening~~ grain

C. America : LDC : intensive w/o rice

L. America : E, S : livestock

N : Shifting

W : I w/o rice.

N. Africa : Pastoral + no (pockets)

Subsahara : ~~sub~~ shifting.

S. Africa : livestock.

Saturday

20

W. Eu : Medi + dairy + mixed (livestock + crop)

E. Eu : livestock + grain

Russia : no + I w/o rice.

China : Nomad + I w/o rice

India : I w/o rice (W) + I w rice (E)

S/E Asia : Shifting, I w rice, I w/o.

E Asia : I w R

W Asia : no + nomadic.

Oceania : livestock + grain + no.

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Debt to GDP

China (23), Ind (62), Japan (211), S/E Asia (≈ 30), PIGS (>100), US (101) etc.

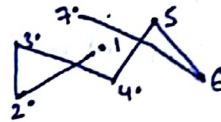
Eco-crisis

welfare geog, limits to growth, sus-dev, $\downarrow$ resources, behavioural $\downarrow$ geog, inequalities, health's toll on economy.

Natural resources

In ecology, organism disperse itself in search of resources.
 $\rightarrow$ determining factor in how/where popⁿ lives in ecosystem.
 $\rightarrow$ ubiquitous resource $\rightarrow$ even distribⁿ.

Else popⁿ aggregates close to resources [Muriel]
 ex: water as limiting factor $\rightarrow$ wet point settlements, food, rivers, lakes, industrial servⁿ, urbanisatⁿ, oil/gas: carrying capacity.



Oil reserves

60% in middle east.

M.E [800 bn barrels] Saudi > Iran > Iraq > central America [325. vene Bra]
 > N.A [Canada [173] > US] > Africa [120. Libya, Nigeria] > asia > asia > Eu
 > Nation wise oil: vene > saudi > canada > iran > Iraq > UAE.

Gas

M.E. > Eurasia > africa > asia > N. America > Latin > Eu.

Fields: South Pars, N. pars (Iran & Qatar), Urengoy, Hamburg, Stokman
 [Russia], Hassi R' Mel (Algeria).

Conti-wise: Canada (Sable), U.S.A (Anadarko, Barnett), Vene (Perla),
Brazil (Jupitery), Algeria (Hassi), Egypt (Nile), Netherlands
 (Groningen), Russia (U, Y, S), China (D'azhou)....
nation-wise: Russia > spu
 US > Saudi.

Shale

China > US > Arg > Mexico > SA > Aus > Canada.

Conti-wise

N. America > Asia.

Coal

asia-pacific > Eu > c-asia > N.A > Africa > Latin > M.E

Biofuel

NA > Latin (Bra, Arg) > Eu (F, G) > asia + oceania.

Consequences of resource distribution :-

- spatial arrangement $\rightarrow$ C.I $\rightarrow$ $\uparrow$ or $\downarrow$ or optimum popⁿ.
 - Migration [Trail of tears, westward movements, hold new].
 - Economic activities of a location.
 - Trade (Japan, US)
 - conflict / wars (WANA).
 - QoL. (industrialisation $\rightarrow$ redistribution of resources).
- (* Not the presence but ability to use, is what matters: CD.)

Nuclear

KACN

- 14% of world's electricity.
 - $\approx$ 450 plants. > 480 Proposed.
 - U: kazak $>$ canada $>$ aus $>$ namibia $>$ Russia.
- 40%.

Methane Hydrates

- More than all fossils combined [thrice]
- fire-ice crystal. Mix of H₂O + NG $\rightarrow$ crystallised due to $\uparrow$ P, $\downarrow$ T
- Locⁿ: arctic permafrost, antarctic, sedimentary deposits, conti margins, deep sea lakes
- Ex: Black ridge (carolina), US-Japan / Ind-Japan projects, N. Russia, Alaska North.

Wheat

china $>$ Ind $>$ Russia $>$ US $>$ France.

Hunger Map

1: $< 5\%$, 2: 5-14, 3: 14-24, 4: 25-34, 5: 35+

- 1: US, Canada, Aus, Japan, Eu (- geo / gia, armenia), C. asia (- Kyrg, Tajik), M.E (- Kenya), Africa (Mor, Algeria, Libya, Egypt)
- 2: Paraguay (5th in 2012), Peru, Africa (cameroon, niger, nigeria), C. asia (Kyrg), E. asia (China), S/E (M, C, T, V)
- 3: Laos, Ind, Pak, Bang, Sri, Kenya.
- 4: Africa most, Afghan, Tajik
- 5: CAR, Zambia, Malawi, N. Korea.

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Agri share in GDP

S. Asia > Ind > China > Arab > Latin > World (2.6) > America (1)
17 17 10 6 5

Malnourishment (FAO)

World (842 mn), ~~scandinavia~~ (245), sub-sahara (223), S. Asia (164),
S. S. Asia (65), Latin + Caribbean (47), WANA (24), dev (16),
caucasus & C. Asia (6), Oceania (1).
∴ 30% of developing world & 1/4 of world's (India)

Food security

Ind's better than Pak, Bang but not China.

- 1st: N.A, W.E, Oceania, Scandinavians.
2nd: Latin (3 too), C. America (3 too), E. Eu, S/E/Asia (3 too), China (SA).
3rd: N. Africa, S. America, C. Asia, S. Asia, few SEA.
4th: Sub-sahara, N. Korea.

World famine

ex: ① South Sudan, N. Korea in news

② Nepal blockade & earthquake

③ Afghan (01, 02, 08)

④ ISIS → refugees [micro famines].

⑤ Sub Saharan regions, SEED nations.

⑥ India [08 (flood), 12 (Price), 14-15 (↓ rain)].

⑦ Myanmar [shortage & riots 2008]

⑧ S.E. Asia [99]

due to el nino → Phil, E. timor, PNH, Vietnam [fires], Indo.

Reasons: natural (FAD), wars, conflicts, hoardings,
govt policies, ↑ C.I, ↓ health std, ↓ aid.

ex: Bakool & Shabelle [UN help].

limits to growth

- ① given in 1972 by club of Rome comprising of pol, eco, industrialists, env, thinkers etc. It's a try to extrapolate future of world on basis on current consumpⁿ.
→ said world wil have serious resource constraints in 100 yrs time & drastic irreversible env consequences.
→ By 1990s most of fossil fuel would be exhausted.
- ② extended +ve checks of malthus to inc land, water, air, env apart fm food only & hence is envist in approach, considers passive role for man.
- ③ Had influence in Rio summit (92).
- ④ 2004 (book beyond limits to growth) (extⁿ of prev).
- ⑤ (1972) published on basis of rigorous math analysis, computer simulation → exhaustion, food scarcity etc were predicted.
- ⑥ Basic idea: land ltd → food ltd → popⁿ ltd.
- ⑦ ∴ It's conclⁿ is based on relatⁿ & interdependence b/w (Popⁿ, food, resources, industrial prodn, urbanisatⁿ, pollⁿ).
- ⑧ Assumpⁿ: (a) finity of non-renewable resources
⑥ finite land for agri
⑦ limit to max yield.
⑧ limits to capacity of env to absorb pollⁿ & waste.
⑨ Popⁿ / industrial growth can be EXPONENTIAL.
⑩ can be seen as an eye opener w/t too pessimistic views.
- ⑪ +ves:
 - uses systems approach.
 - assumed non-linear resource constraints.
 - not a predⁿ but an insight.
 - still 100 yrs have not passed & we have seen some truths.
 - these wr published in 2004 update as :-
 - sea level ↑
 - Poverty & inequalities
 - 2002 fao said 75% oceanic fisheries used up.
 - 38% of agri land degraded. etc.
- ⑫ -ves neo malthusian concept. env, pessimistic, reliability of data analysis, not sophisticated simulations, passive man, no psblities of new innovan / discoveries, 1990s resource predⁿ wrong.

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FRONTIERS & BOUNDARIES.

Nation States - a concept.

- citizens, limits, headed by a formal body, laws,
- It's one of the biggest immov of man in geopol.
- geopol. has become more predictable bcz of nation state
- F&Bs limit the authorities of Nation States within the defined extents

FRONTIERS.

- Transitional zones which separates political units
- In most cases there are more conventional, more traditional limits.
- Generally inaccessible part like forest, mountain, wastelands, desert, seas. When it is diff to demarcate using a line.
- largely uninhabited or might have some scattered small ppl pockets most of whom are primitive nomadic tribes.

- ppl = centrifugal (outward looking)
- more inward looking. Concept (integrating concept)

ex: Chile - Arg - Andes

- Sahara desert - N & S Africa
- Hima - Tibet - India China.
- Amazon forest - Brazil coast & interior.
- Siberia - sep. Arctic from rest of Eurasia.

- Buffer / transition zones bet 2 pol. units.

BOUNDARIES

- Precise lines & limits of Political units.
- A frontier is generally in the inaccessible part like forest, mountains
- Symbolic of Political maturity where the limits are objectively drawn
- i.e why boundaries suggest the last stage in development of pol. region.

- ppl - centripetal (inward looking)
- Separating concept - they separate identities, pol. activ. ppl, resources.

TYPES OF BOUNDARIES.

- Boundaries bcz by nature are not artificial drawn lines

- Frontiers eventually get converted into boundaries.
- bcz of political maturity

Morphological V Genetic (origin based)

- ① Morphological
 - based on physical or cultural features.

① Based on physical features

- Mountains
 - Mc Mohan - 1914 Simla Agree.
 - Durand line - 1893
 - Pyrénées - France - Spain.

- But problem lies with identifying the crest or waters divide. line

• Rivers as Boundaries.

- Satluj - Indus - Ind-Pak
- Kali - Ind-Nep.
- Rio Grande - US-Mexico
- Uruguay - Uruguay-Arg
- Amur - China-Russ
- Congo - Congo-DR
- Zambezi - Zimbabwe-Zambia
- Tanganyika - Tanzania-DR
- Problem - shifting course.

Lakes

- Great lakes except Michigan
- Victoria - Uganda, Kenya Tanzania.
- L. Constance / L. Geneva - bet Germany & Switz.
- Black Sea - Russia-Ukraine
- Deserts.
 - Sahara, Namib, Takla-Mak

ii) Geometric Boundaries.

- straight lines drawn on globe by colonial powers
- 48° lat - US-Can.
- 38° lat - S & N Korea

iii) Based on culture ethnicity

- most W. European boundaries
- drawn after Versailles treaty 1919

② Genetic classification

1) Antecedent

- drawn much before the area develops into a habit. zone
- all drawn while frontiers are still in operation.

- 49° lat bet US-Can
- Mc Mohan line
- Generally these are most stable

IRS, Rohit Khodke
Mudit Jain

ii) Subsequent Boundaries

- Came up after the PPI
- Concentration diff
- not stable. - Israel - Palestine

③ Consequent (Cultural Identity)

④ Superimposed

- European boundaries post 1919
- lly linguistic basis of Indian states have Consequent B.

- In Europe the conseq. boundaries have been very stable preventing ethnic conflicts except for few like Yugoslavia & lately Ukraine who have diverse gaps like Slovians, Macedonians, Bosnians, Serbs.

⑥ Superimposed Boundaries.

- Purely for Political Convenience & do not considered cultural or physical character.
- Such boundaries are prone to conflict
 - Tribal conflicts of Africa & S. Asia (Ind - Pak)
- India-Pak Superimposed boundaries were expected to get conv. into conseq. boundaries bcz partition was on religious ground but it never really happened
- This division of Kashmir, Sindh, Punjab ppi which have affinity across borders susceptible for conflict.

Anthropogenic - demarcation

Maritime

UNCLOS.

Nation State

- Concept - Peace of Westphalia
- N.S. is a geographical area that can be identified as deriving its political legitimacy from serving as a sovereign nation.
- State = a political & geopolitical entity
Nation = cultural, ethnic entity.
- A political unit inhabited consisting of an autonomous state inhabited predominantly by a people sharing common culture, history, & language.

