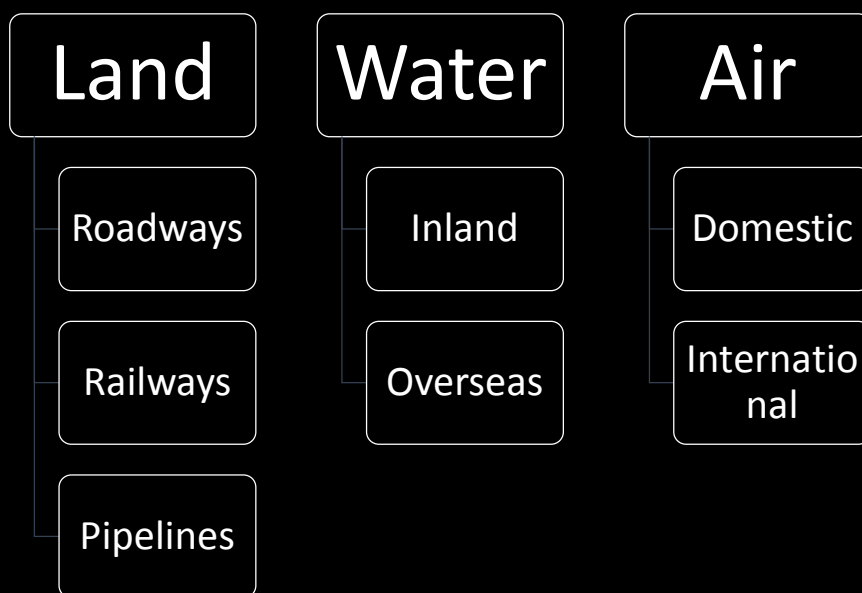


These Slides Accompany the YouTube Video Tutorial:
<https://www.youtube.com/watch?v=N8fuNEI5fAs>

NCERT Class 10 Geography

Chapter 7: Life Lines of National Economy

Means of Transport - Movement



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Roadways

- Largest in world with 2.3 million km

Why roads are more feasible?

- Cheaper construction rate
- Can traverse dissected topography
- On higher gradients
- Economical
- Door to door service
- As feeder to other transport

Road Density (Length of road per 100 km²)

Types of Roads

- Golden Quadrilateral / East – West (Silchar to Porbander) & North – South (Srinagar to Kanyakumari)
- National Highways – Maintained by CPWD (Sher Shah Suri – Delhi Amritsar is NH1; NH 8 – Delhi-Mumbai; NH-7 – Varanasi Kanyakumari)
- State Highways – by PWD
- District Highways – by Zila Parishad
- Other/ Rural Roads – PM Gramin Sadak Yojana
- Border Roads – North, NE & NW India
- Metalled – All weather (concrete, bitumen & coal)
- Unmetalled – half of the total

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Railways

- Integrating since last 150 years
- It is largest PSU in India
- 1st train – 1853 – Mumbai to Thane
- Broad, Meter & narrow gauge
- Plains, high density, agricultural area
- Difficult – in Mountains, deserts & landslide areas
- Diamond Quadrilateral (high speed rail network)

Pipelines

- Gas/oil/solid
- Refineries – Barauni, Mathura, Panipat
- Initial cost is high, running cost is low
- Oil (Upper Assam to Kanpur) via Guwahati, Barauni & Allahabad
- From Salaya (Guj.) to Jalandhar (Punjab) via Viramgam, Mathura, Delhi, Sonipat
- From Hazira (Guj.) to Jagdishpur (UP) via Vijaipur (MP)

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Waterways

- Cheapest
- Fuel efficient and environment friendly
- 95% trade in volume & 68% in value by sea
- Coastline – 7516 km (handle 95% foreign trade)
- Kandla (after 1947, to relieve Mumbai) as Karachi went to Pak.
- Mumbai – Biggest, natural and sheltered harbor
- Jawaharlal Nehru Port to decongest Mumbai
- Marmagao (export iron) from Goa
- New Mangalore (Karnataka) – export iron from Kudremukh
- Kochi – entrance of lagoon with natural harbor



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Waterways

- Tuticorin – Natural harbor, Tamil Nadu
- Chennai – oldest artificial harbor (next to Mumbai in cargo)
- Vishakhapatnam – deepest landlocked (iron export)
- Paradip – Odisha (iron export)
- Kolkata – inland riverine port – tidal port (Haldia to decongest Kolkata)
- National Waterways
- Sagar Mala Project
- NW -1: On Ganga b/w Allahabad & Haldia
- NW -2: Brahmaputra b/w Sadiya and Dhubri
- NW-3: West Coast Canal in Kerala

Airways

- Fastest
- Cover difficult terrain
- Nationalized in 1953
- UDAN (Ude Desh Ka Aam Naagrik)

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Communication

- Postal network – largest in world
- Largest telecom in Asia (STD, mobiles)
- Mass Communication – Radio, TV, newspaper, DD
- Largest producer of feature films in world

International Trade

- Exports & Imports (EXIM policy)
- Balance of trade (favorable or unfavorable)
- Most trades – Mineral fuels & gold
- Highest exports – petroleum product & precious stones
- Highest Imports – China > USA > Saudi Arabia
- Highest Exports – USA > UAE > Hong Kong
- Tourism - Revenue