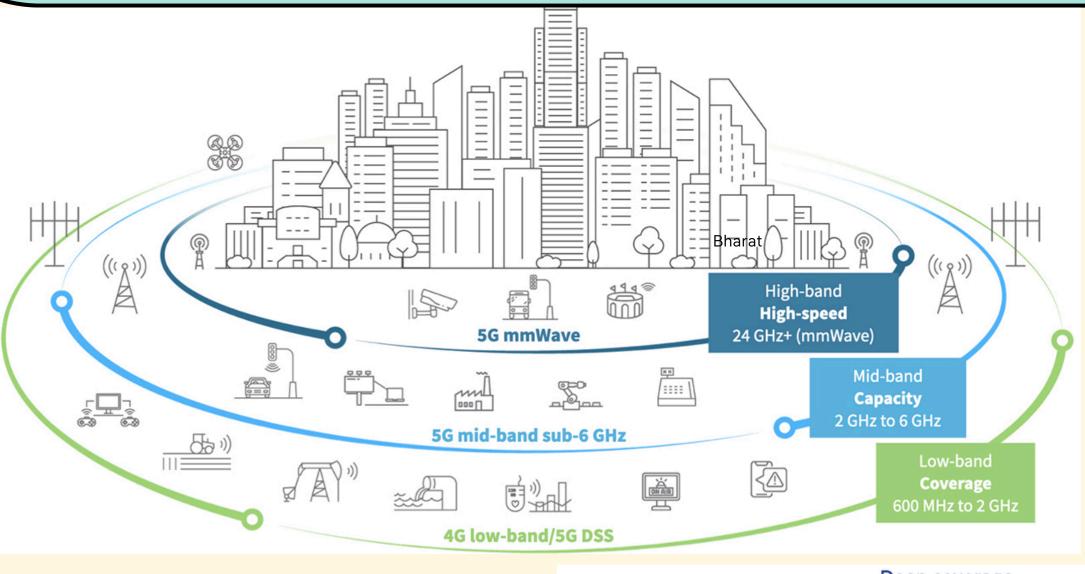




BHARAT G LAB



COEP Technological University Electronics & Telecommunication Department

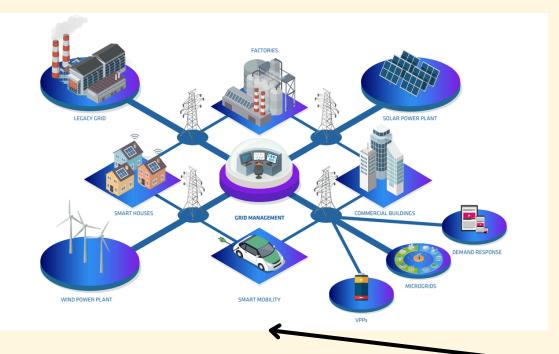


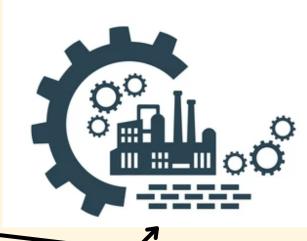
FREQUENCY BANDS

- **HIGH-BAND24GHZ+ MMWAVE**
- **MID-BAND-2GHZ TO 6GHZ**
- **LOW-BAND-600MHZ TO** 2GHZ

FEATURES BENIFITS

Deep coverage To reach challenging locations Strong security e.g., Health / government / financial trusted Ultra-low energy 10+ years of battery life Ultra-high reliability Massive < 10⁻⁵ per 1 millisecond Internet of Ultra-low complexity Things Mission-10s of bits per second critical control Ultra-low latency As low as 1 millisecond Ultra-high density 1 million nodes per km² Enhanced Extreme capacity 10 Tbps per km² mobile broadband Extreme user mobility Up to 500 km/h Extreme data rates Deep awareness Multi-Gbps peak rates; Discovery and optimization 100+ Mbps user experienced rates



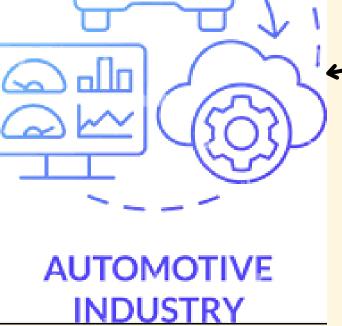






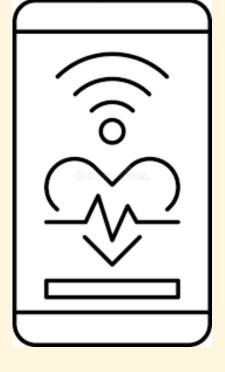


5G USE CASES













5G Lab Equipments

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Highlights of Bharat 5G Lab @ COEP

- 5G Use Case Development
 - To demonstrate 5G features & ability
- Research Platform provision
 - For verification of QoS parameters of 5G & comparison with current state of art
- Provides Internship programmes
 - o SY, TY, B.Tech, M.tech students
 - Twice in a year (Dec-Jan, May-July)
- Enriched with knowledge upgradation in the field of wireless communication
- Skill Development in Communication Stadards
- Industry Connect (Expert Sessions/ Guidance)

