

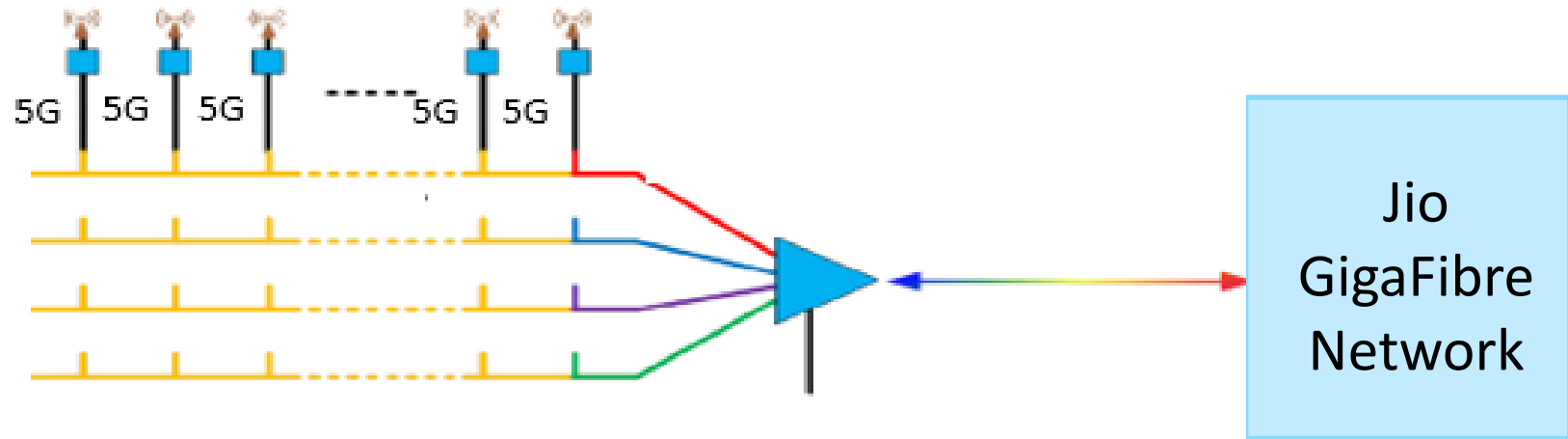
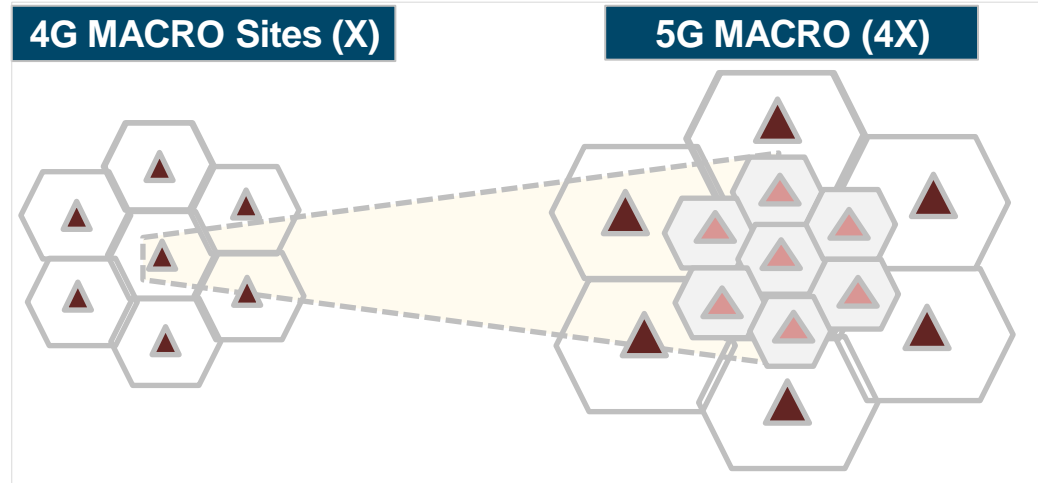
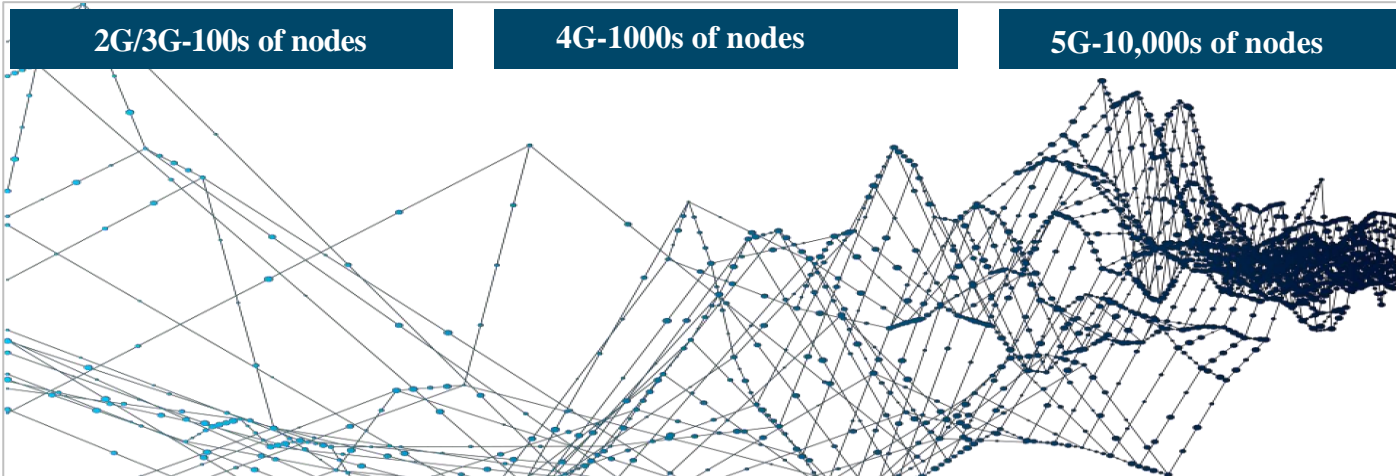
JioGigaFiber

FTTH India 2018

Preparing OFC Network Densification for 5G



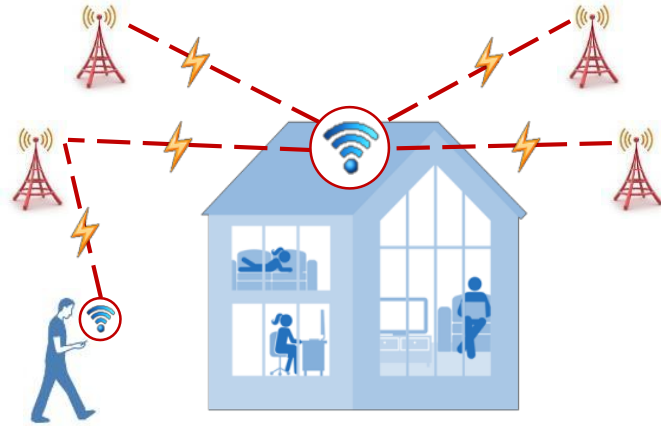
5G Densification



5G densification will bring challenges

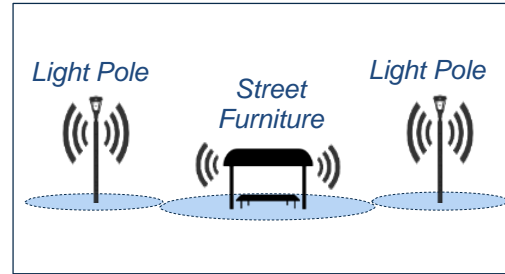
- 10 X Sites wrt 4G
- 10 X Fiber wrt 4G
- New Streets poles/Sites
- New Fiber route
- Rental for poles, power for poles
- Increased ROW, Construction cost for fiber
- Pole acquisition and new site acquisition

5G Deployment Challenges



5G Home

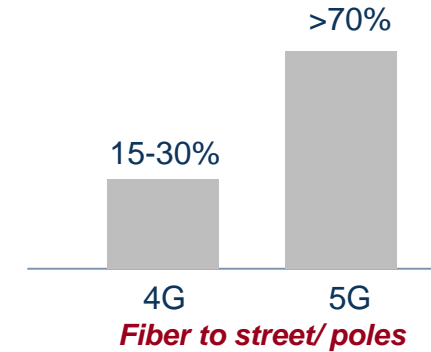
- Single mobile and home connectivity subscription per household
- Speed: Up-to 1000 Mbps
- Latency: 20 to 5 milliseconds



5G Small Cell

- Varies by foliage, clutter, and 5G spectrum (band) released
- Assumes exterior antennas
- Specific range still being validated by trials

Fiber as Percent of Deployment Cost



- Dense fiber to 5G nodes
- Lower 5G range will increase percentage fiber costs

Home Coverage



Dense 5G sites
On street poles



Fiber to Streets/
Poles

5G Deployment – Leveraging FTTH Network



FTTH Network for all needs

1. FTTH Homes
 - I. High Rise MDU Buildings
 - II. SDU Buildings
2. Enterprises
3. WiFi/ IoT
4. 4G sites - X Nos
5. 5G sites - 10X Nos

Legend

- 4G_Sites
- 5G_Points
- 5G_Route
- OSP_STRUCTURE
- OSP_ROUTE

Building

- Very High Rise
- High Rise
- Low Rise

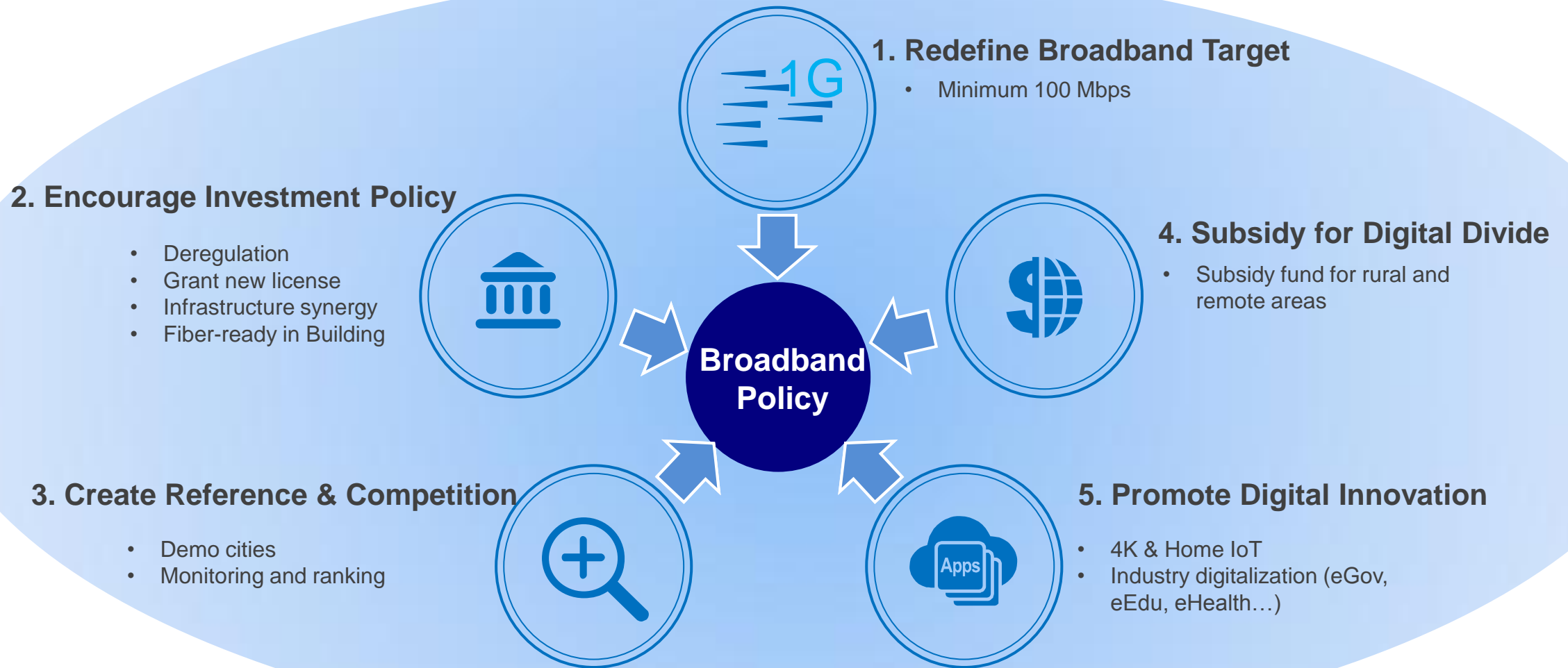
1. Converged Network, Platforms and Products across FTTH and 5G
2. Unified FTTH and 5G Planning
3. FTTH – Critical for true 5G rollout

Policy and Regulations on 5G Densification

Fibre is the corner stone of Wireless 5G advancement

1. ROW Support in terms of Cost, Uniform Policy and Timelines
2. Access to Public Ducts , Discom Poles and Power
3. Encourage Deep Fibre FTTH programs

Investment-Friendly Regulation & Broadband Policy



Thanks

FTTH India 2018

