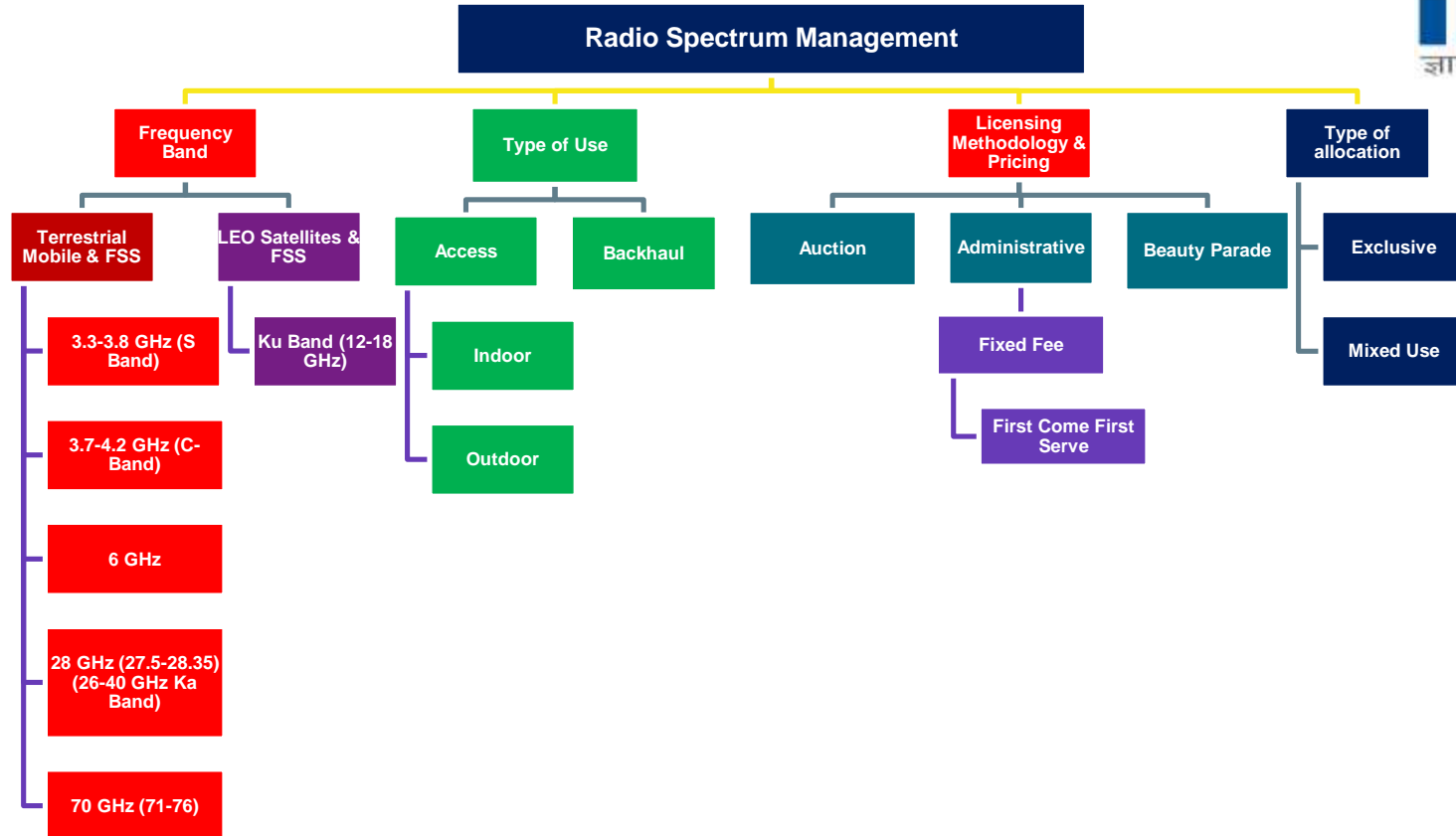


Satellite and 5G Spectrum

Dr. V. Sridhar
Professor, IIT Bangalore
www.vsridhar.info

Taxonomy of radio spectrum, Licensing and Allocation



Exclusive Licensing

- No Interference
- Competing Uses
- Allocation through Auction for maximizing value and optimal use
- Cost of Satellite Communication n X Cost of Terrestrial Mobile

Co-Existence of multiple uses

- Power management
 - Restricted to Indoor
 - 6 GHz Wi-Fi
 - Coordinated between Satellite and Mobile Network Operators
 - 28 GHz in UK
- Exclusive vs. Shared Use License
- Regulated or Mutual Agreements