



Powering 5G

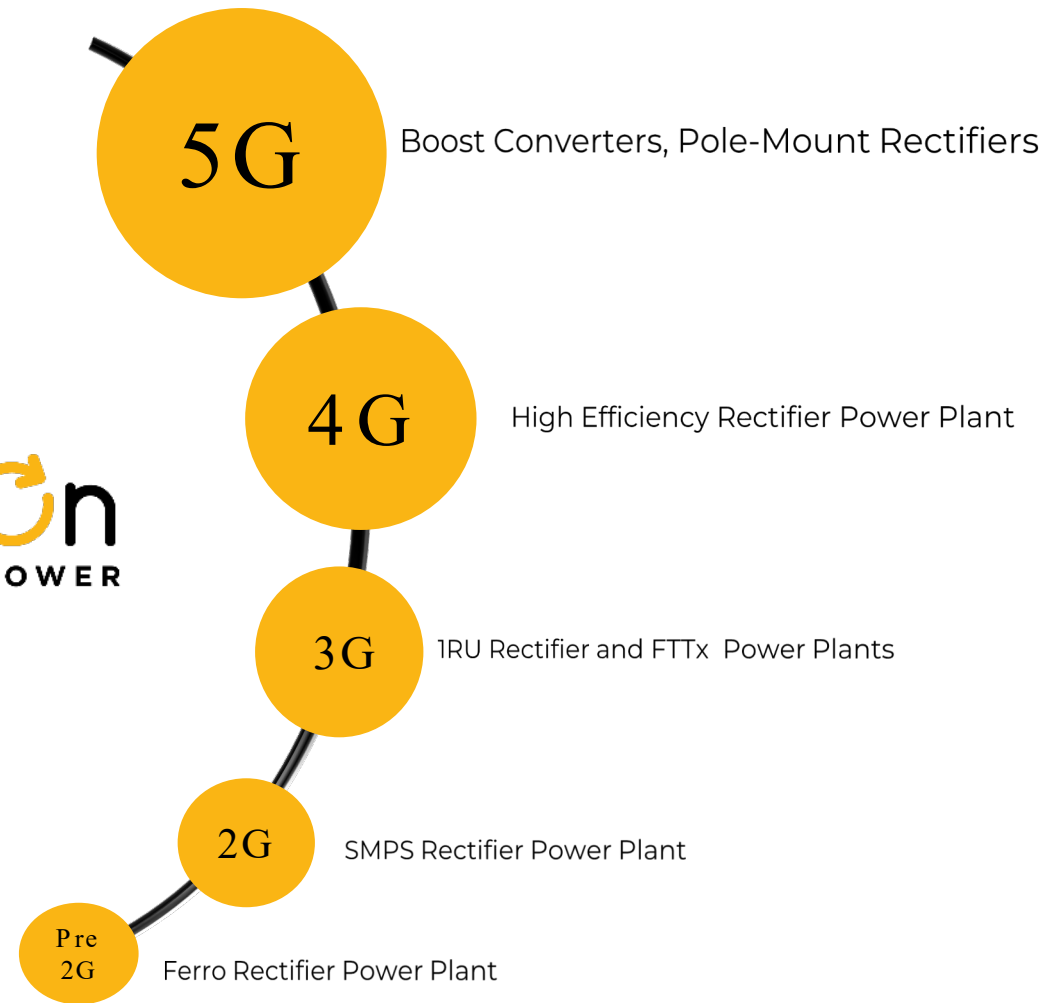
With OmniOn Power

RAJ RADJASSAMY
Director, 5G Wireless Segment
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Powering Telecom for 30+ Years ...and now, 5G

From the core to the transport infrastructure to the radio access network.

Solving our customers' toughest power challenges in size, density, efficiency, outdoor operation, etc.



Who Is OmniOn Power?

What we do and the industries we serve



5G/Telecom



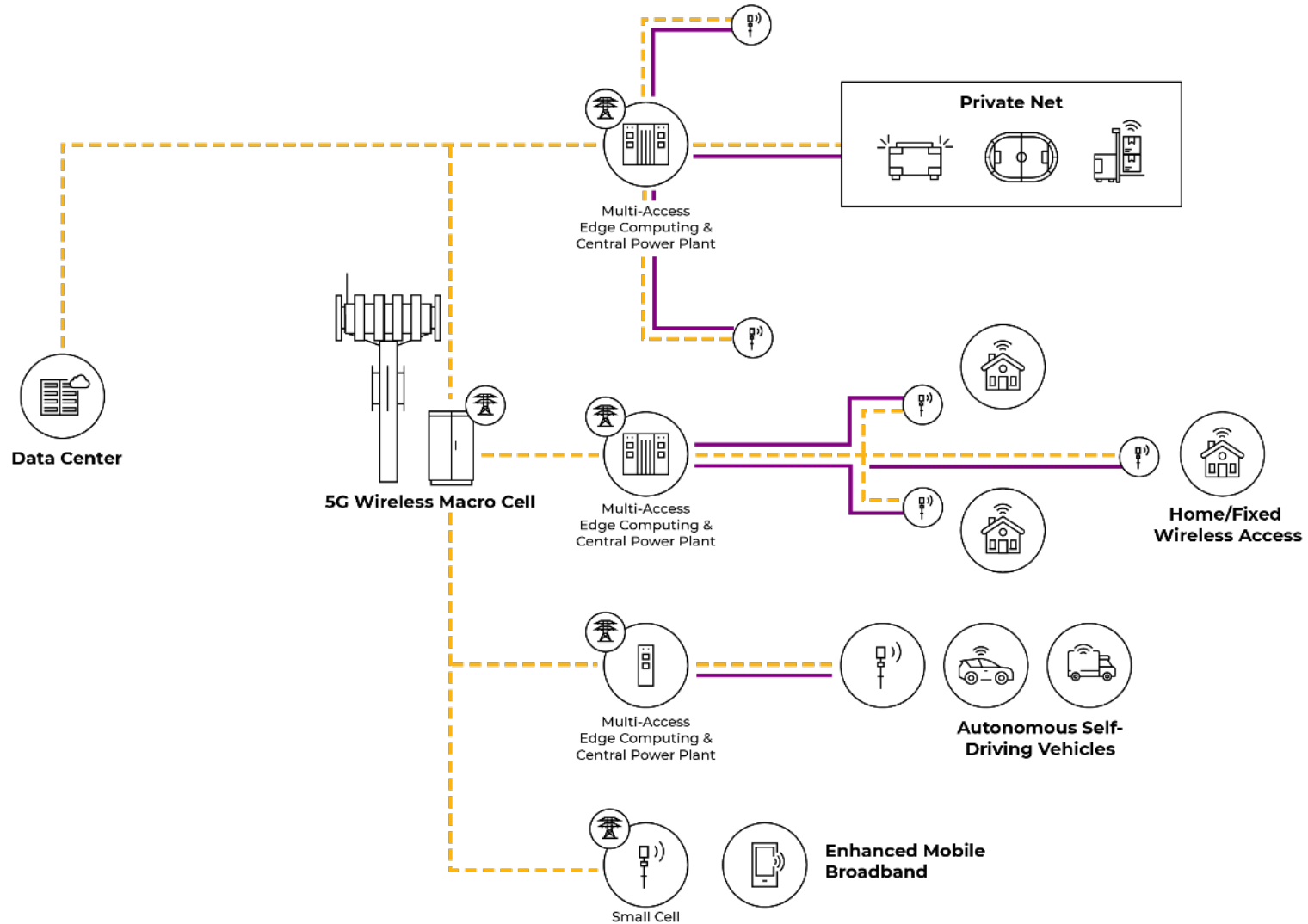
Data Center/Wireline



Industrial

5G Use Cases

OmniOn power solutions



5G/Wireless

Full spectrum of power solutions



Macro Cell Site



BPS-Series



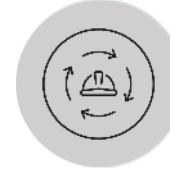
Boost Converter



Infinity Series



High-Efficiency NE Rectifier



Life Cycle Services



Small Cell



Power Express Shelf



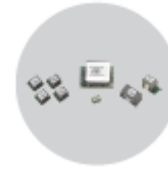
SPS Series



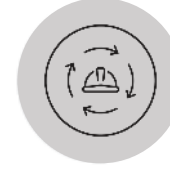
CC1600 Rectifier



CLP Rectifier



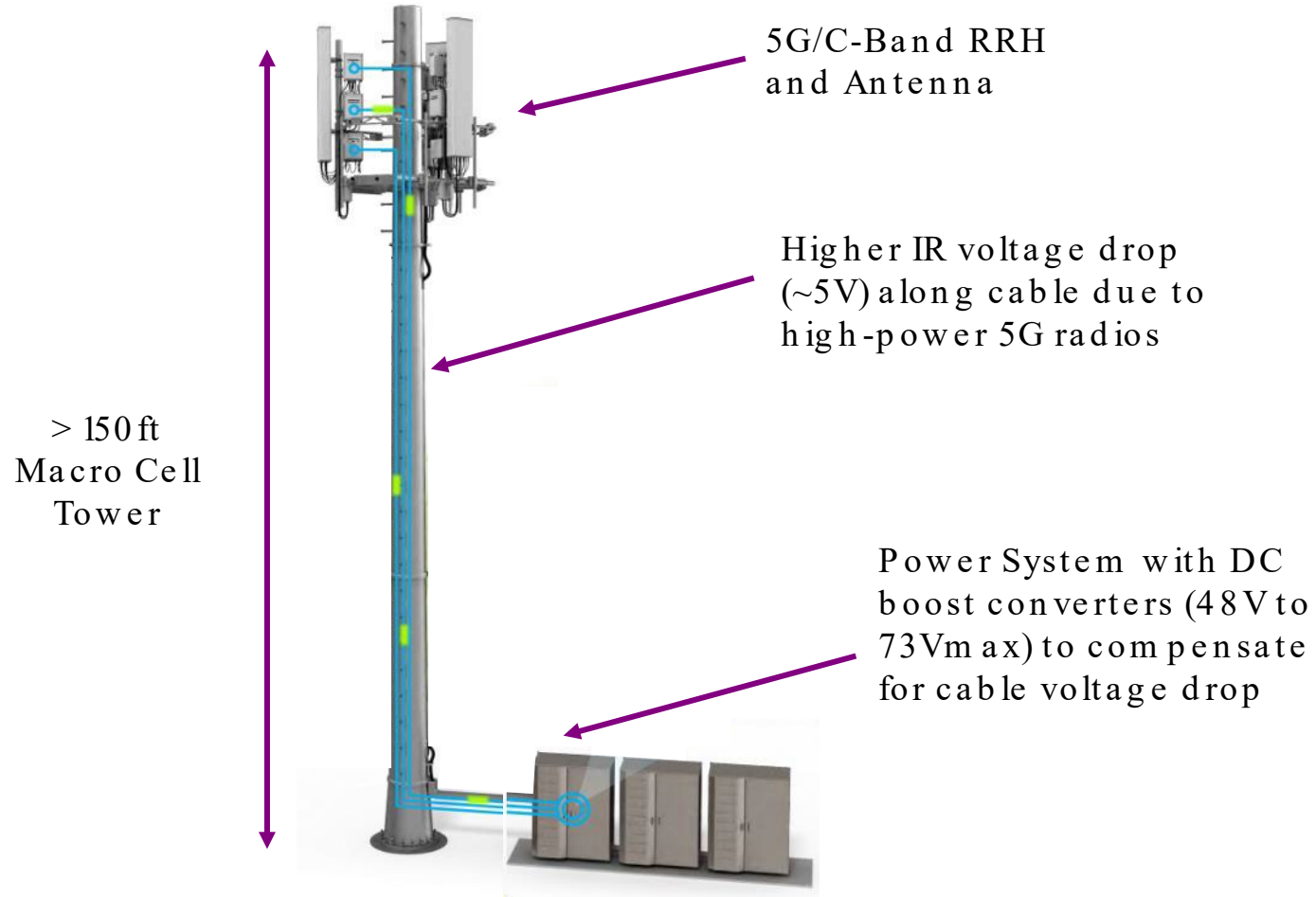
DC/DC Non-Isolated Board Mounted Power



Life Cycle Services

Powering 5G Macro Cells Now

Boost converter solutions



Advantages:

1. Reuse existing infrastructure
2. No need to change cable size
3. Lower current at higher boost voltage
4. Extended "Radio ON" time when on battery

Powering 5G Small Cells Now

Pole/pedestal-mounted solutions

- Small cells are expected to densify the network
- End applications: Fixed wireless access & private network
- Need fan-less, compact, outdoor hardened power solutions
- **Powering Options:**
 - Pole-mounted AC power (for radios < ~500 W)
 - Pole-mounted DC power (for radios > ~500 W)
 - Compact, Fan-less
 - Pedestal-mounted DC power (hub and spoke)
 - Centralized DC power source
 - Redundancy & battery backup



Powering for 5G and 6G

In pursuit of challenges

Future Proofing

- Newer powering technologies (Class 4)
- Powering Non-terrestrial networks for global connectivity
- Extreme miniaturization and power density
- Zero (or very low) energy consumption
- AI/ML enabled network automation software





Key Take-Aways

OmniOn ↔ Always On

- Telecom is at Our Core
- 30+ Years Serving Customers...
- ..And Solving Their Power Challenges
- Ready for 5G Now
- Innovating for the Future

A futuristic cityscape at night, featuring a grid of glowing blue and orange lines overlaid on the scene. The background shows a dense cluster of skyscrapers, some with glowing windows and others with glowing outlines. The overall atmosphere is high-tech and digital.

Questions?

OmniOn
POWER