SMALL CELL

- Provides fixed capacity

- Backhaul required

- One PCI for each Small Cell

- Small Cells support one service provider

- Provides only one location per sector

- No interference from OTA interface

DAS and Small Cell Comparison

DAS

- Provides consistent even coverage
- PCIs assigned as needed for capacity
- Multi-service provider support
- Capacity dependent on signal source
- OTA signal source or BTS feed
- LBS with integrated Wi-Fi

DAS and Small Cell Comparison

Size and Scale

Small Cell

- Relatively small

- Not scalable

- 5 Watts - < 150k sq ft

DAS

- Head End components

- Additional comm rooms required to scale

Both Require Head End and Connection to Carrier Network

Economic Considerations

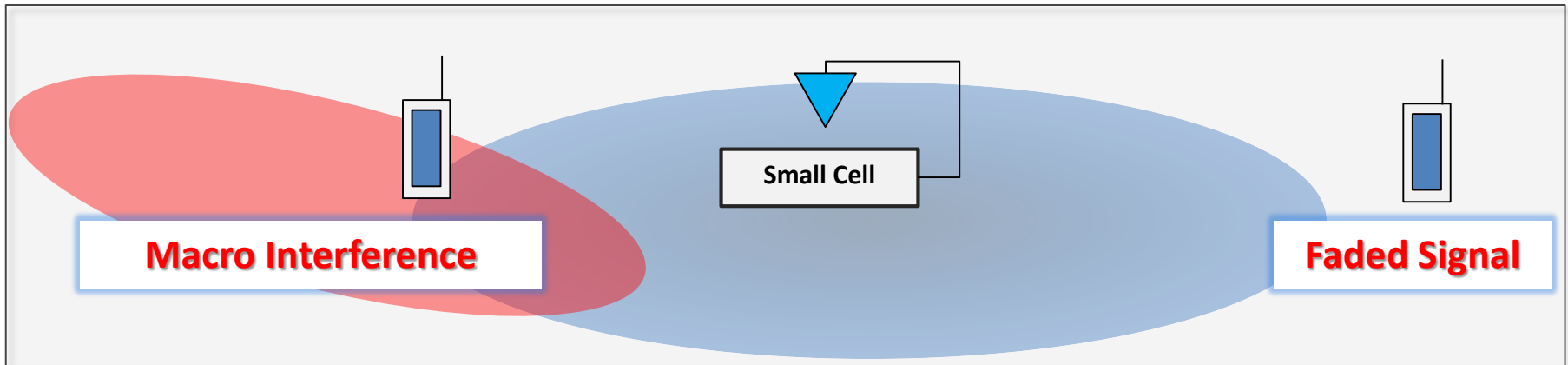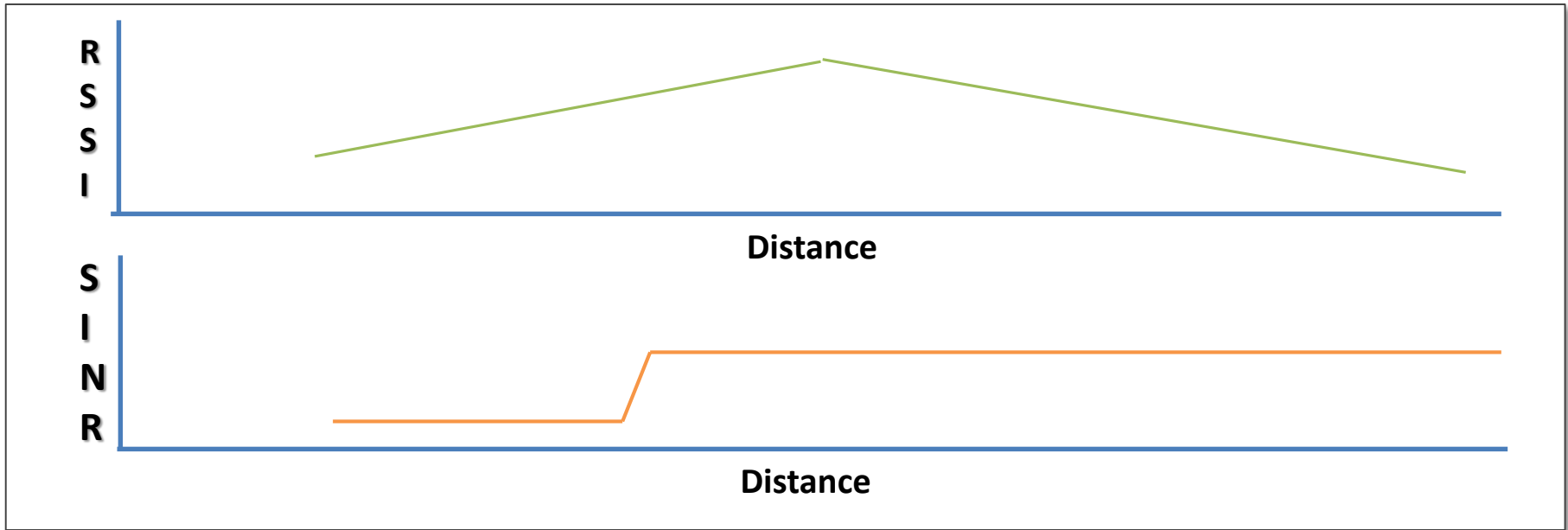## Small Cell

- Lower CapEx
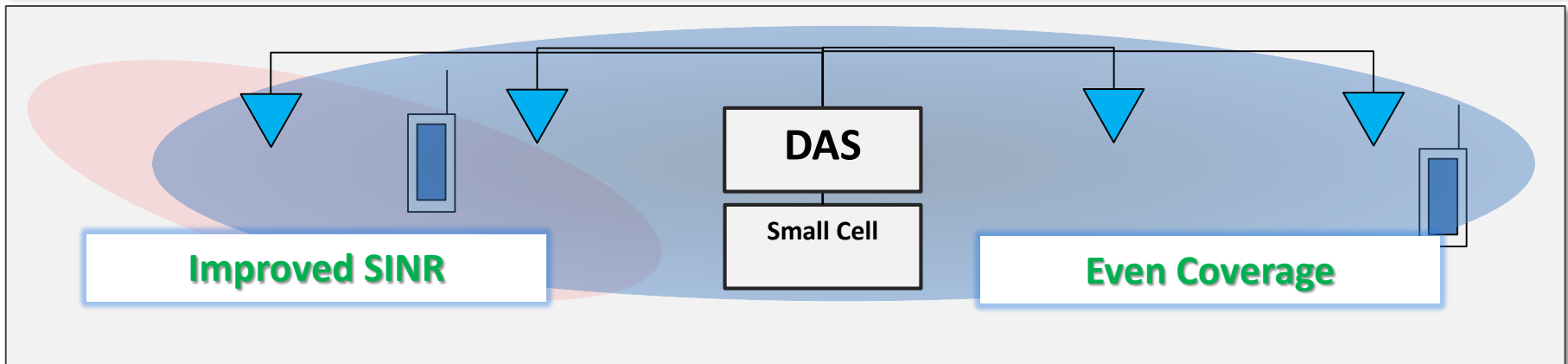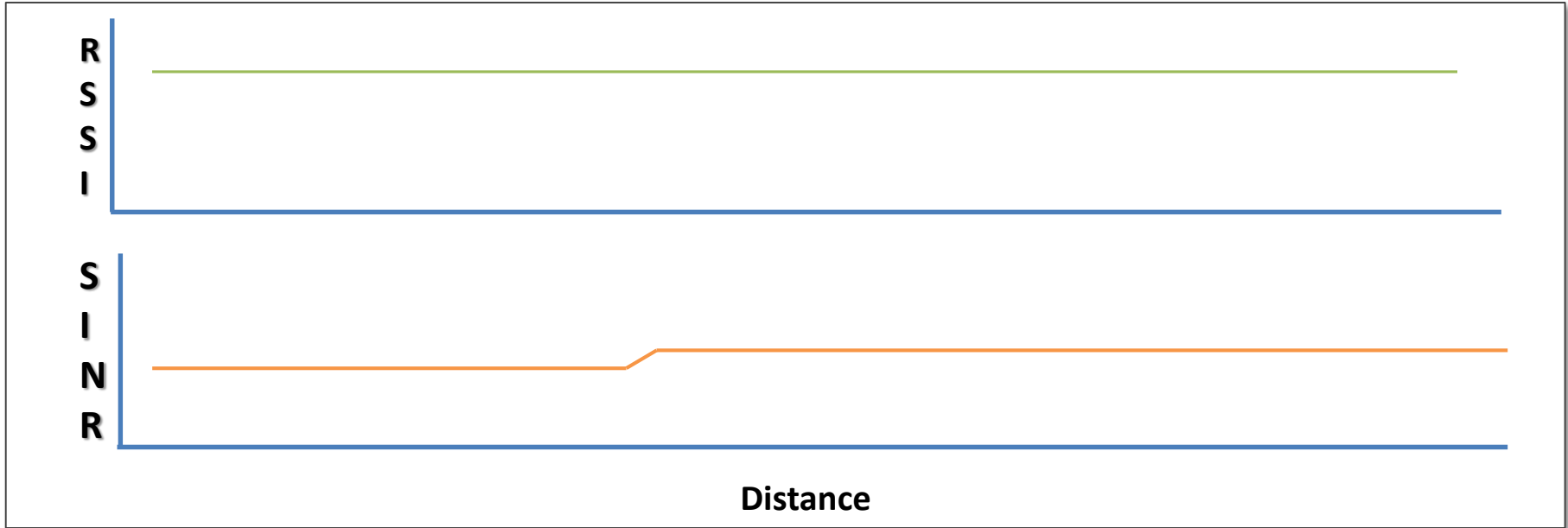
- OpEx for backhaul

- BTS OEM maintenance

DAS

- Larger CapEx

- Higher OpEx for more components

DAS Has Higher Cost -> Also Higher performance and Scalability

RSSI and SNR – Excessive Variation Throughout Venue

DAS & SMALL CELLS CONGRESS

Improved SINR

DAS

Small Cell

Even Coverage

RSSI and SNR – Excessive Variation Throughout Venue

DAS & SMALL CELLS CONGRESS

DAS / Small Cell Sweet Spot

Small Cell

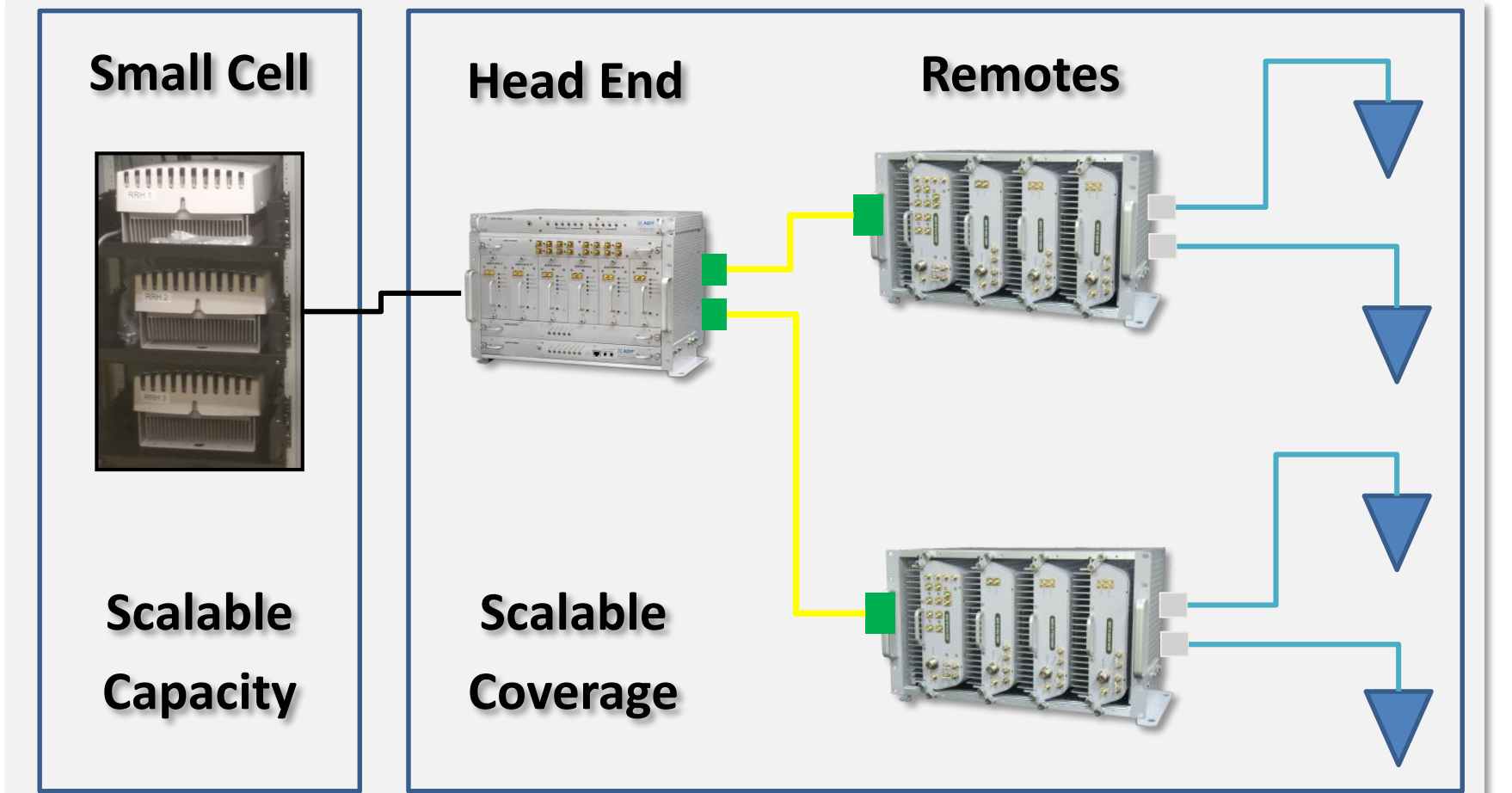- < 150k sq Ft
- Single service provider

DAS

- Scalable coverage
- Multiple service provider support

Small Cells Provide Additional Capacity

Small Cells Suited for Small Venues with Single Service Provider

Small Cell Feeding DAS

Small Cell

Head End

Remotes

Scalable Capacity

Scalable Coverage

Capacity from Small Cell - Coverage from DAS