



# 5G Equipment: What on Earth does this Stuff Look Like?

*TFI Technology Conference, January 24-25, 2019*

Dr. Bob Daniels



# Some Disclosures For This Talk

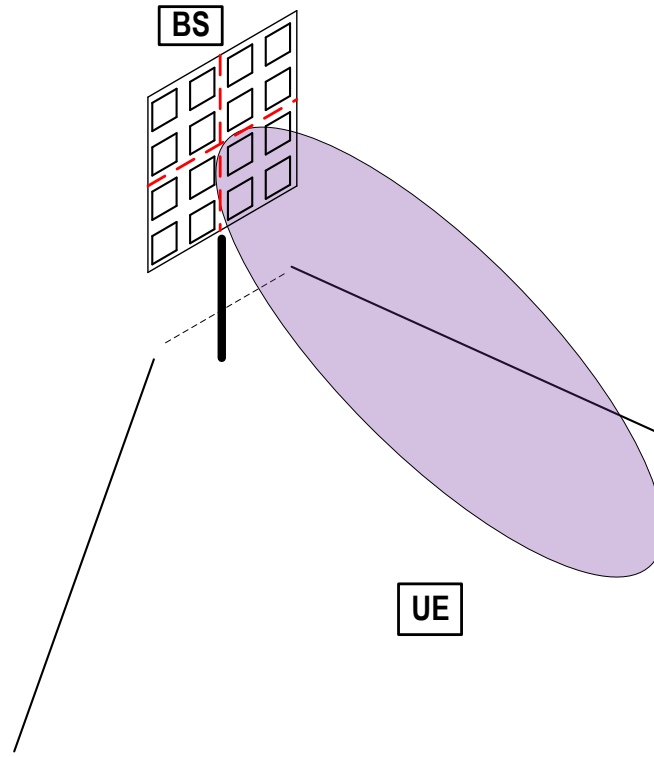


# Some Things to Consider

Densification



Massive MIMO



Edge Computing



# JMA+PHAZR = The Perfect (Good) Storm

## *Wireless Industry Has Been Searching For A Disruptor*

- Vendor lock in through closed-source architecture
- Consolidation has left industry with no major US-based RAN provider

## *Fundamental Shifts in the Mobile Wireless Industry*

- 5G mmWave operation completely changes RAN architecture
- Network Virtualization and Open RAN unlock the potential for best-of-breed network elements
- Breakthroughs in edge computing enable intelligent RAN units beyond the network edge

## *Unique opportunity for a new U.S.-based company focused on delivering the most advanced 5G RAN technology*

- Highest 5G network performance and end user experience
- Optimized to provide the lowest total solution cost
- No 3G/4G baggage – focus on 5G with no compromises



# 5G Products

## RABACK



### RABACK 3-sector integrated base station

- Cities, rural, stadiums, arenas
- Pole or surface mount
- 1 sector (120 degrees) – 3 subsectors (40 degrees each)
- Outdoor rated
- Passive cooling

## GAZER



### GAZER outdoor customer premise equipment

- Cities, Rural
- Pole or Surface Mount
- 1 sector (30 degrees)
- Outdoor rated
- Passive Cooling

## IOTA



### IOTA multi-band indoor small cell solution

- Indoor building/office environments, airports
- Ceiling or wall mount, 120 degree, multi-beam
- Indoor rated
- Passive cooling

## STRAN

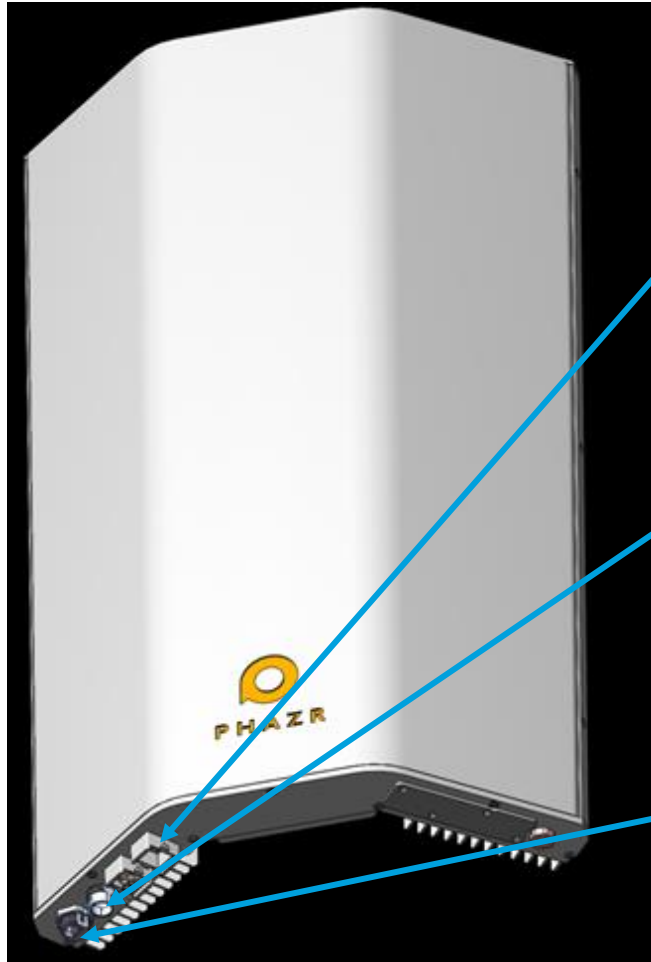


### STRAN multi-band outdoor small cell solution

- Cities, rural, stadiums, arenas
- Strand, pole, or surface mount, 90 degree, multi-beam
- Outdoor rated
- Passive cooling

- 24, 28, 39GHz Options
- Mid-band ready (3500-4200MHz)

# Interfaces



Fiber LC Connectors  
for 10GigE

Power Connector

Console Port



IEEE 802.3af PoE

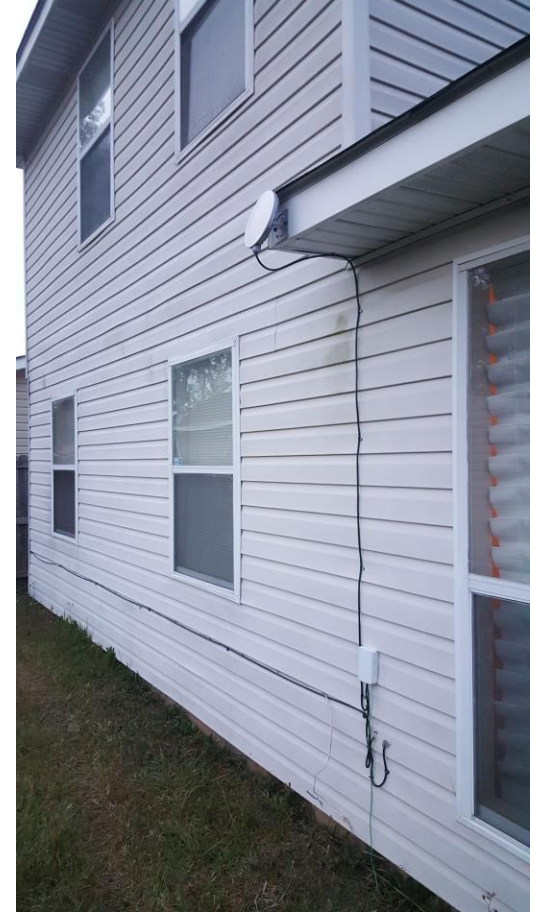
# Show and Tell



# Show and Tell – US BS Deployments



# Show and Tell – US CPE Deployments



# Show and Tell – UK BS Deployments



# Show and Tell – UK CPE Deployments



# Thank You

Connecting the mobile world