

Broadband Wireless

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Solving Problems

- Consumer Demand
 - When are you going to be in my area with “BBI”?
- Building to Low Density Areas
 - Terrestrial Plant Costs are High
- Speed of Deployment
 - I need “BBI” Now
 - Nomadic Work Place

Technology Leadership

- High Expectations
 - Available
 - Reliable
 - Mobile
 - Simple
 - Enabled
 - Not just Messaging and Information
 - A Portal for Advanced PC-Based Applications
 - True Broadband Performance

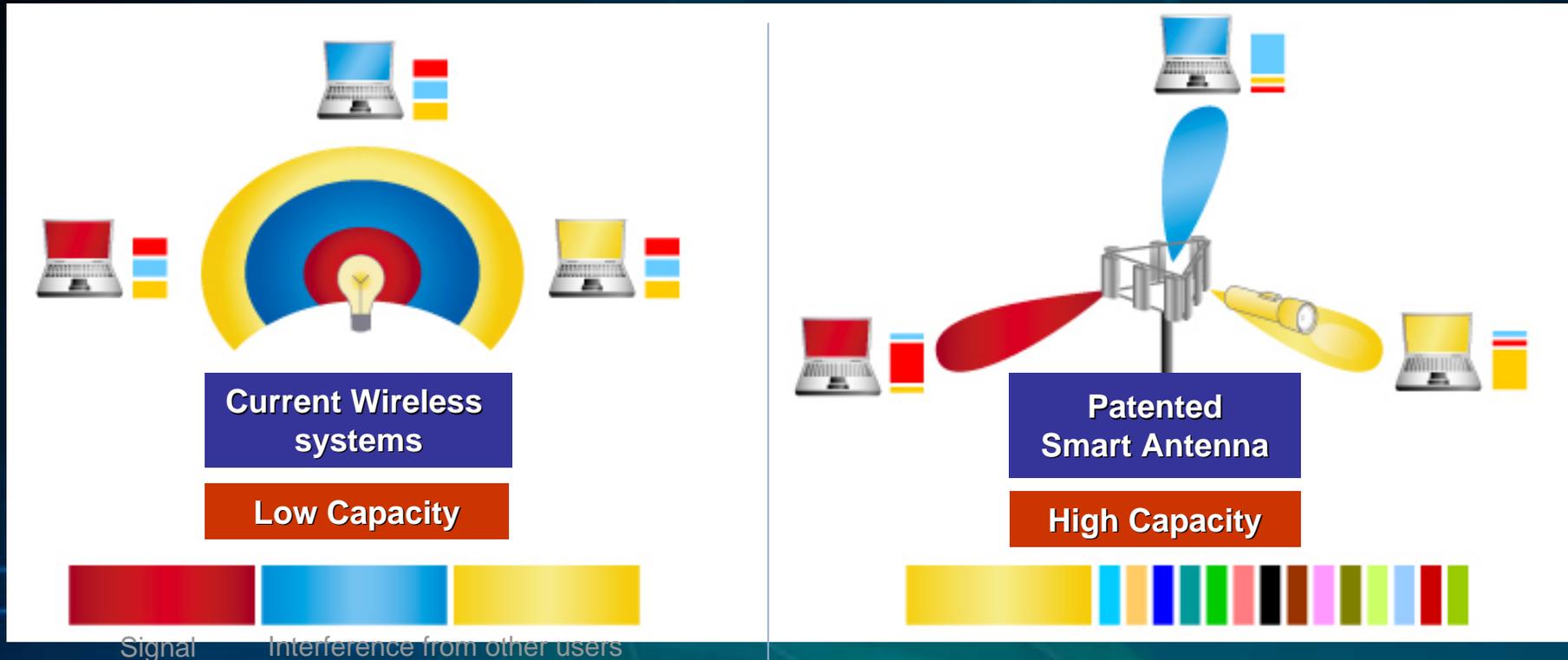
Requirements

- True Broadband Data Rates – 2mbs +
- NLOS Non-Line-of-Site Capable
- QoS Quality of Service Controls
- High Density
- Secure
- Spectrum Efficient
- Spectrum Flexible

Deployment

- Challenging Deployment Area
- Navini Networks
 - Smart Antenna System

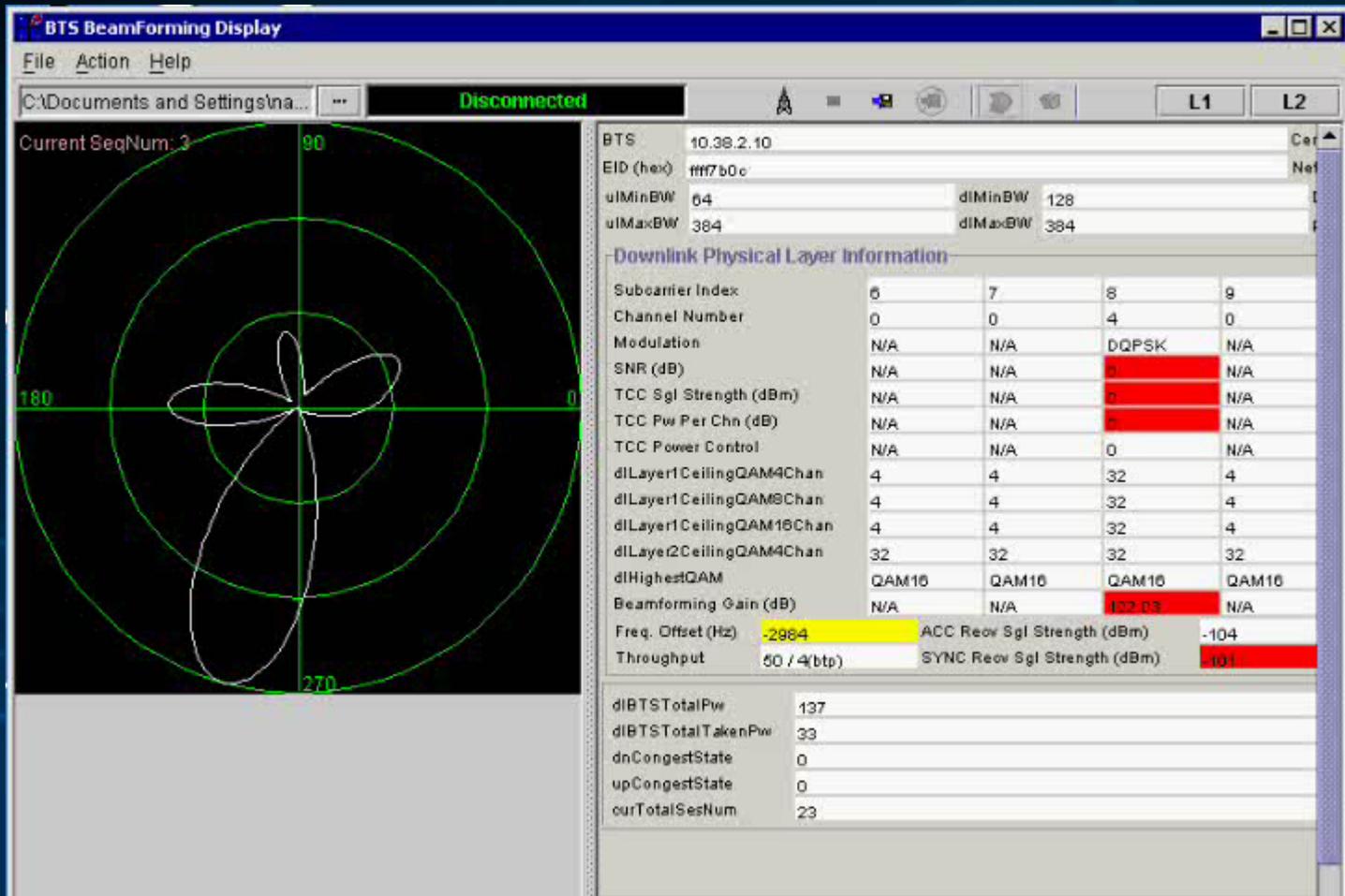
Smart Antennas: The Technology



Current Wireless systems work like a light bulb, sending energy in all directions (wastefully) regardless of where the user is. This results in lower capacity and makes them unsuitable for the creation of a B-WAN

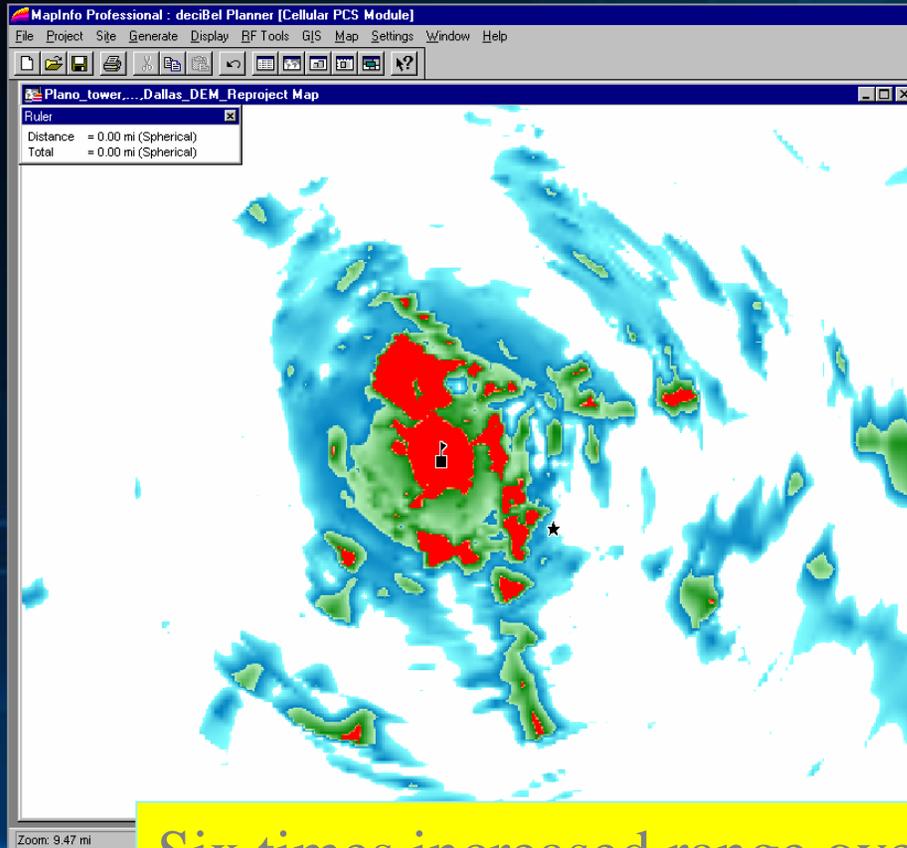
Navini's Smart antenna beamforming works like a flashlight sending energy only to the intended user, resulting in 64 times increase in power efficiency. This is key to delivering a "Zero install" B-WAN

- Requires $\frac{1}{2}$ to $\frac{1}{4}$ the number of cell sites compared to the competition
- Makes zero install, plug and play mobile broadband a reality

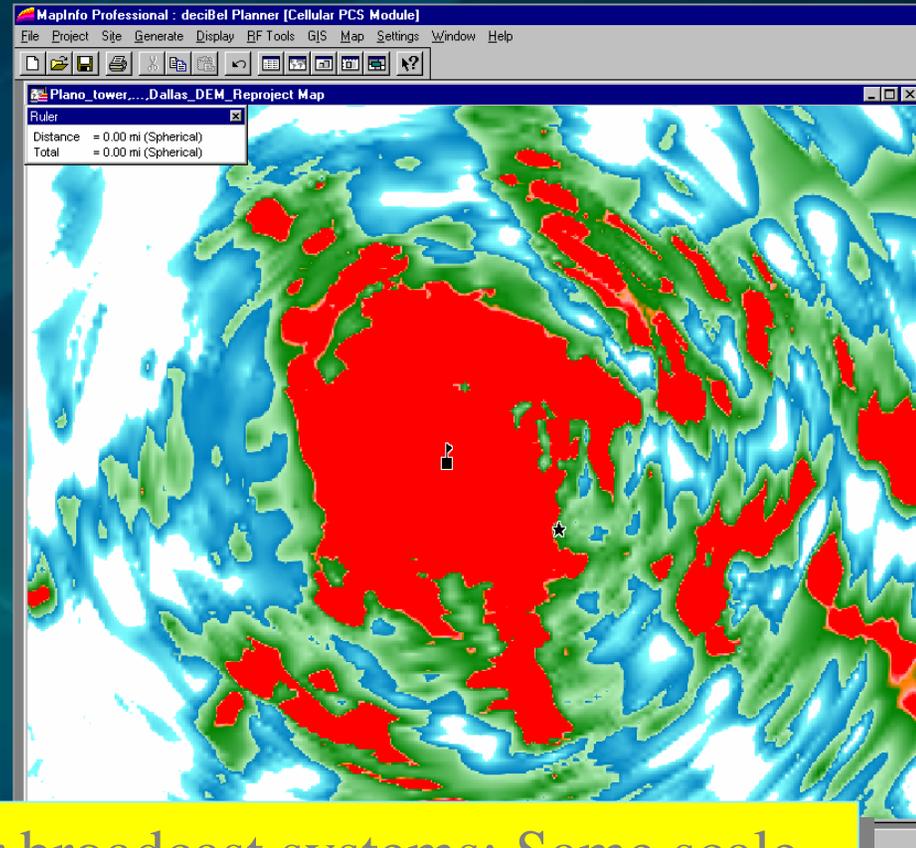


Smart Antenna Advantage

Conventional
2 Watts + Passive Antenna

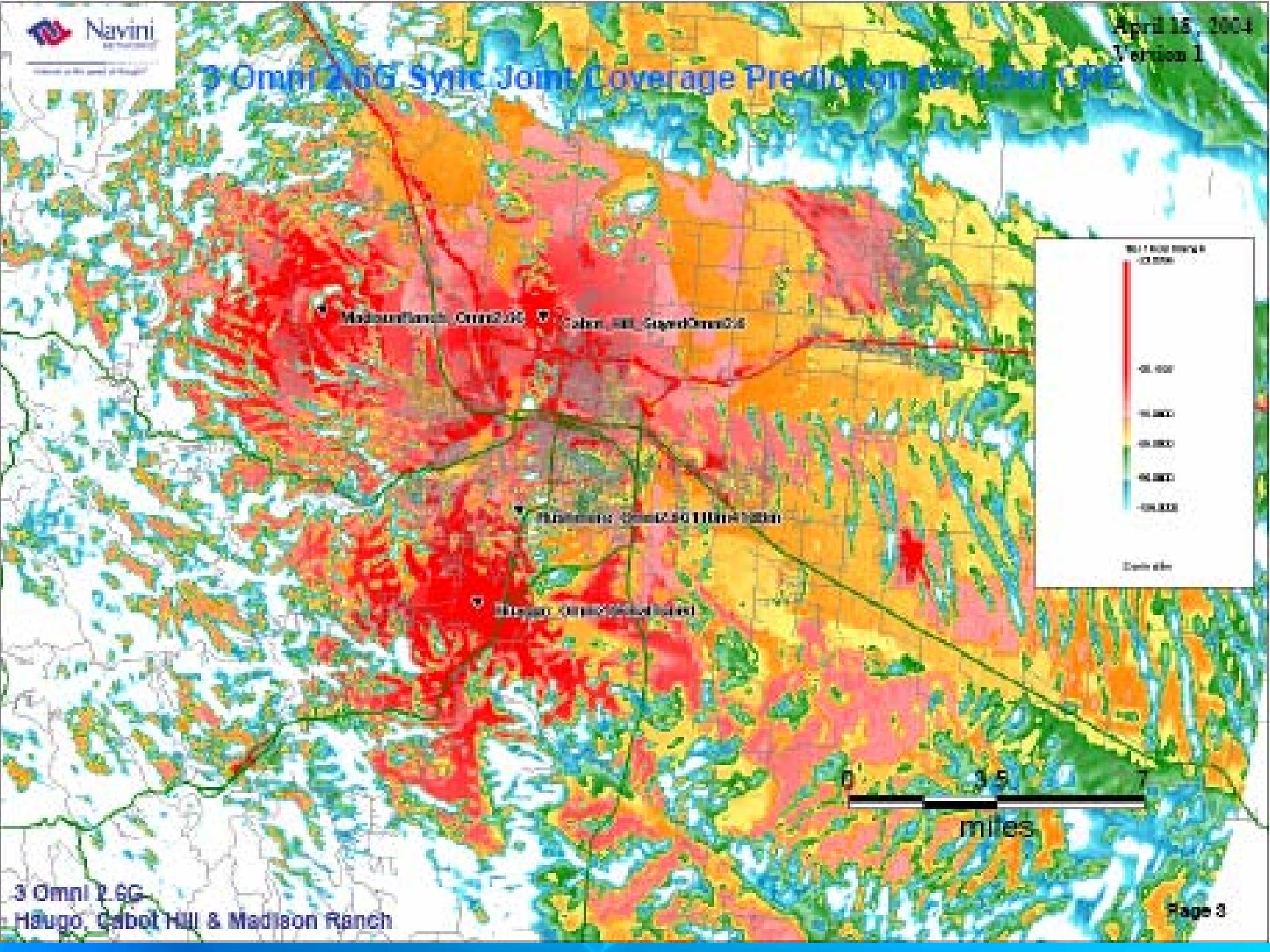


Adaptive Phased Array
2 Watts + 18 dB Smart Antenna Gain



Six times increased range over broadcast systems: Same scale, same terrain, same clutter, same location.

3 Omni 2.6G Sync Joint Coverage Prediction for 1.5m CPE



Testing

- Zero Marketing
 - Word-of-Mouth
 - Several Hundred Users

Uses

- Fixed Broadband
 - Customers outside of our build area
 - Business Continuity/Risk Mitigation
- Mobile/Nomadic
 - Realtors
 - Financial Planners
 - Construction/Developers
 - Car Dealers
 - Service Vehicles
 - Network Professionals
 - Emergency Services

Future

- Marketing
- VoIP (now)
- Form-Factor
 - PCMCIA (soon)
- Standardization
 - WiMax 802.16e Migration Strategy

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