

Wireless Internet: Changing the Landscape

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Sioux Valley Wireless™

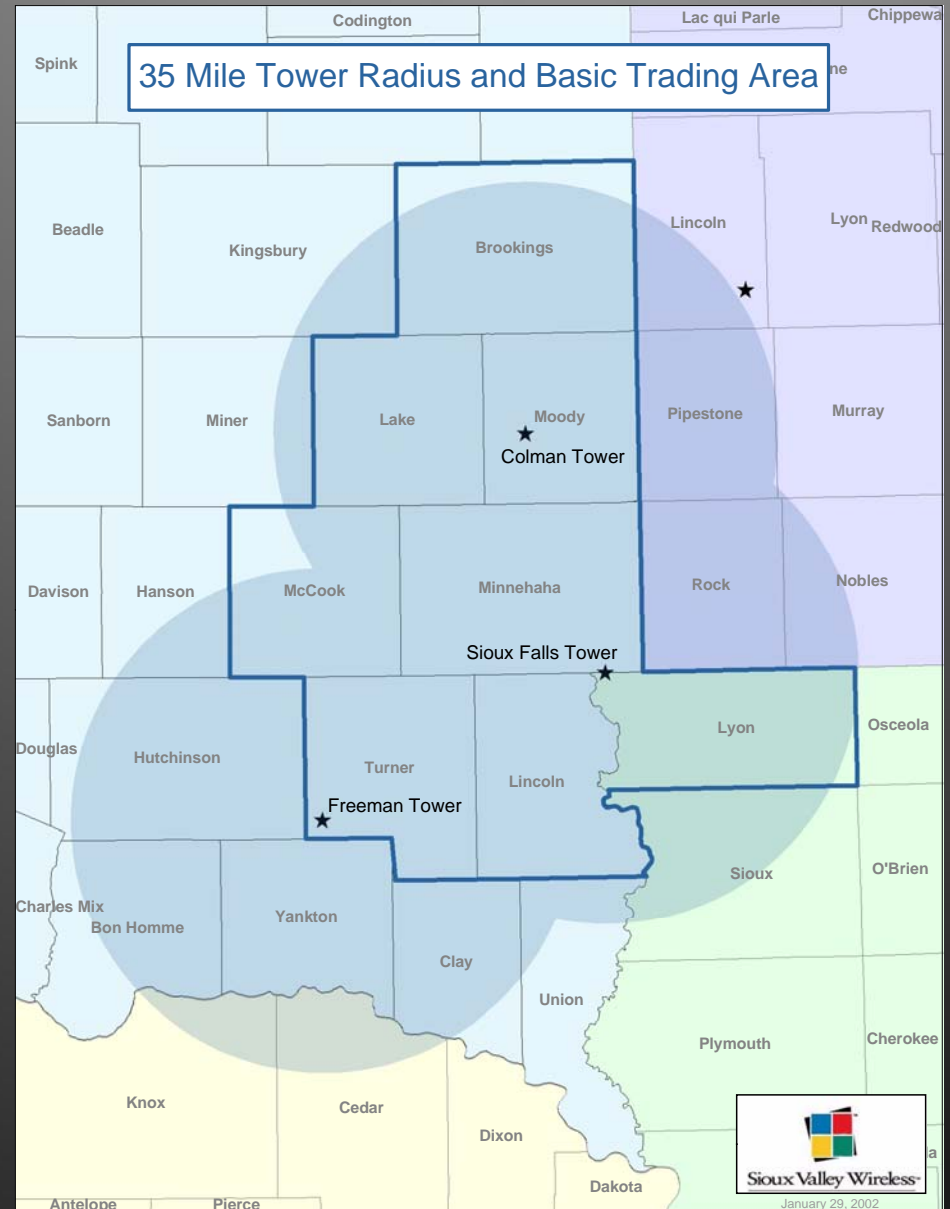
History and Purpose

▶ 1989:

Sioux Valley Energy, in an effort to improve the quality of life in the areas it serves, formed a subsidiary (Sioux Valley Wireless) to provide wireless cable TV programming in areas not served by regular cable systems.

Basic Trading Area

- ▶ Owns / Operates Sioux Falls BTA.
- ▶ 196 Mhz. licensed spectrum at 2.5 Ghz.
- ▶ Used for Wireless Internet and Television

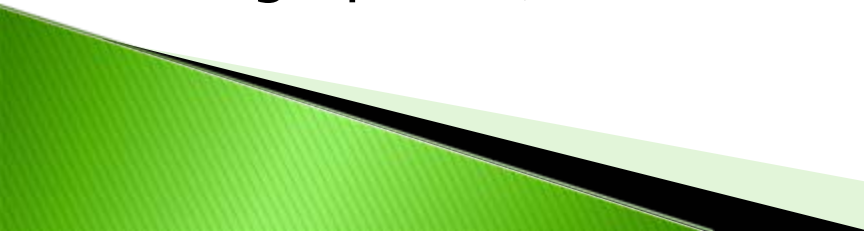




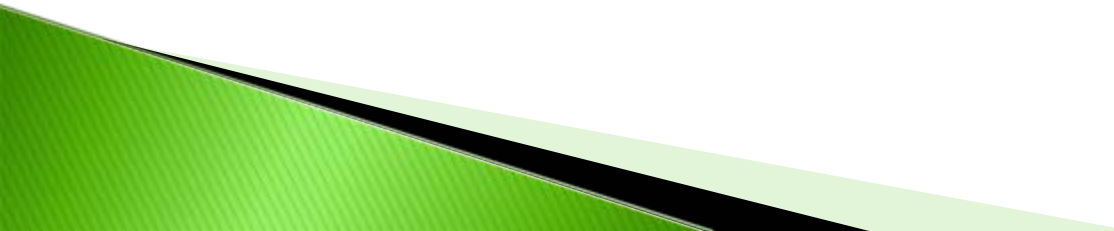
WIMAX Sector

The Future of Wireless Technology >>>
Sioux Valley WiMAX

WiMAX System Technology

- ▶ Mobility/portability
 - ▶ High speed of broadband service
 - ▶ Wireless rather than wired access--less expensive than cable or DSL and easier to extend to suburban and rural areas
 - ▶ Broad coverage like the cell phone network instead of small WiFi hotspots
 - ▶ Compatible with national WIMAX plan
 - ▶ High power, fewer access points, non-line-of-sight
- 

WiMAX Applications

- ▶ **Public Safety**
 - ▶ **Economic, Business & Residential Development**
 - ▶ **Commercial/Residential Retail Service**
- 



Video Game



e-mail



Stock Market



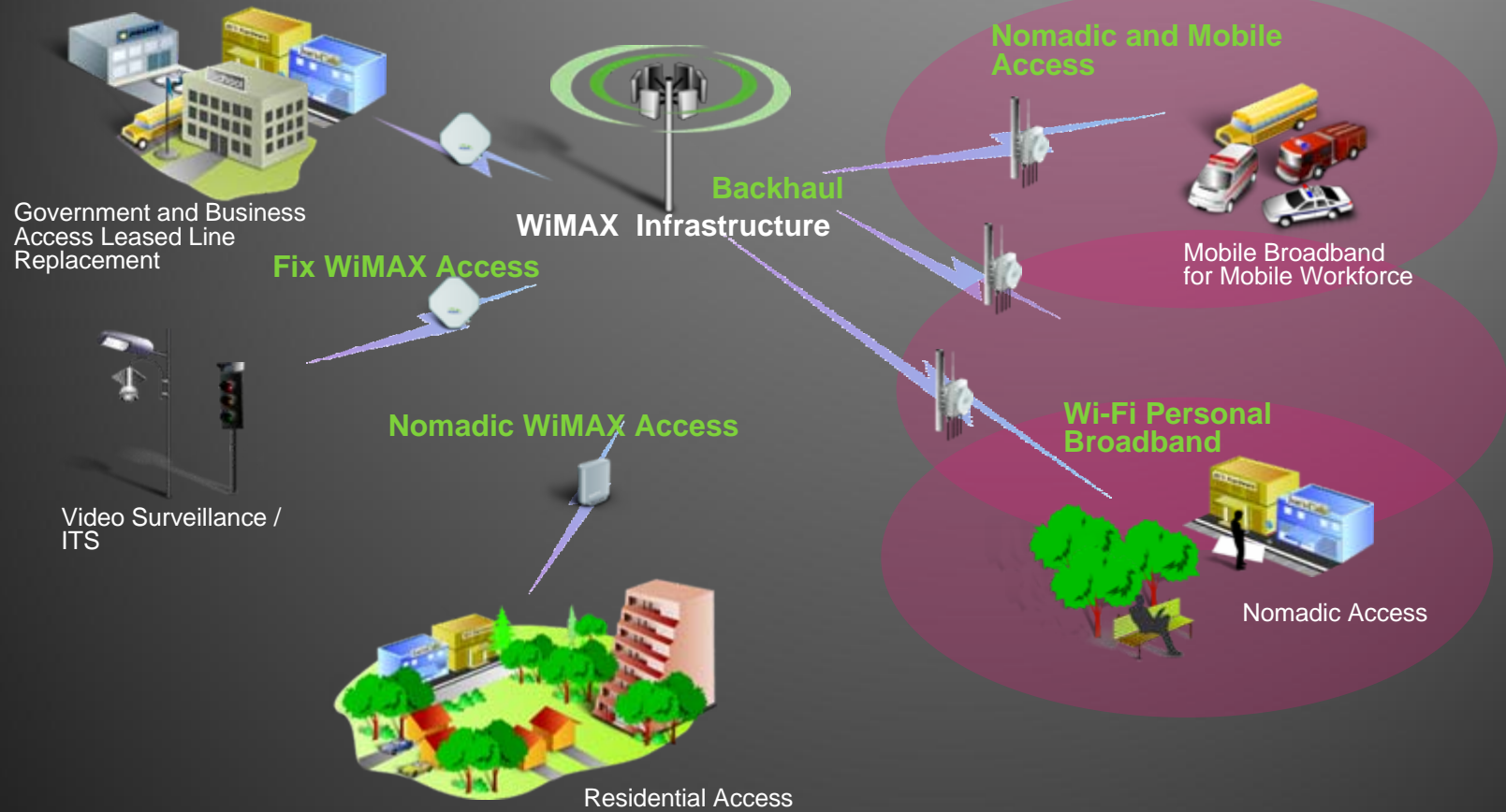
DVD

WiMAX is about Personal Broadband anywhere, anytime. >>>
It's more than a technology – it's a complete framework.

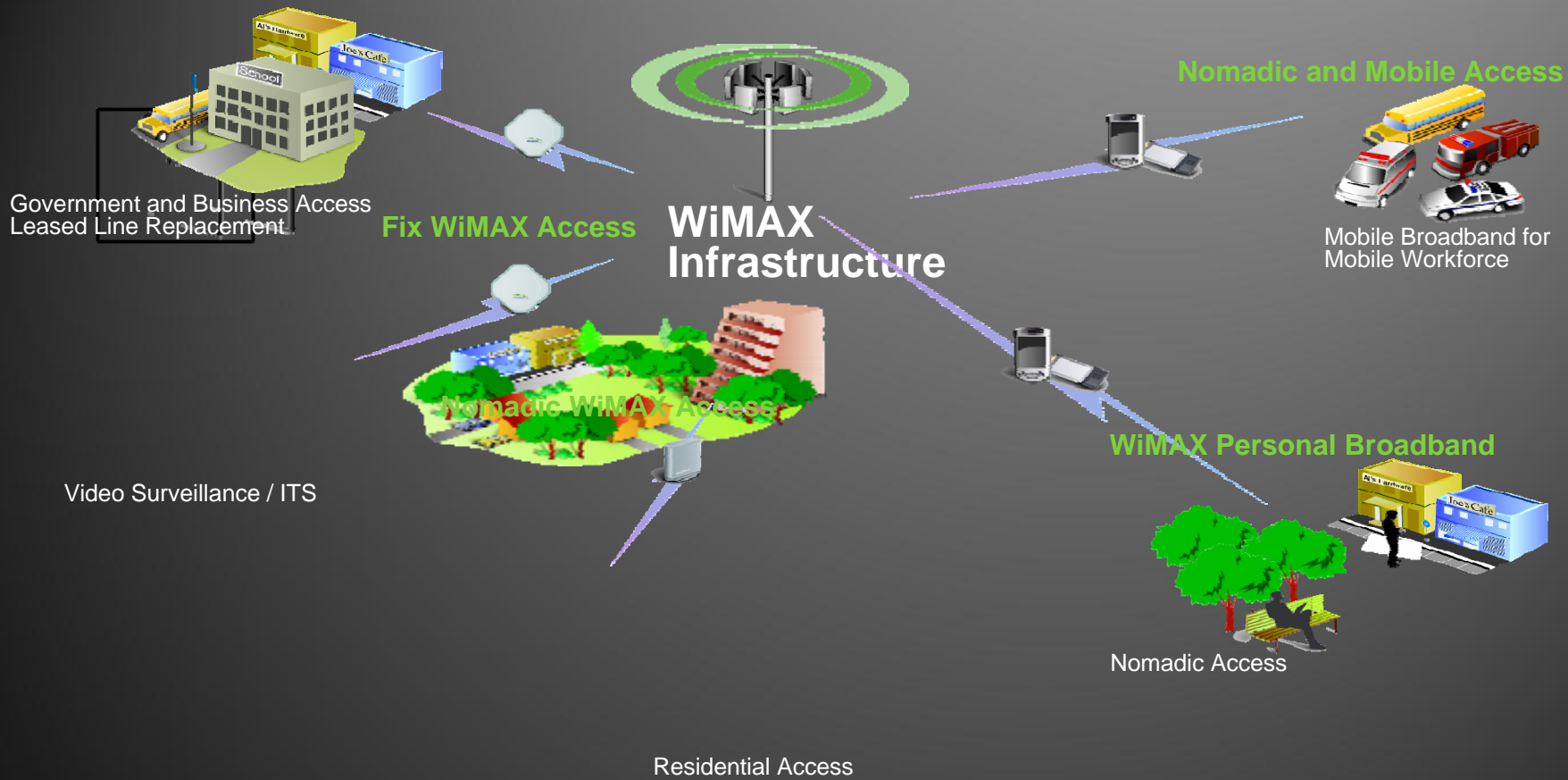
The Migration From Fixed to Mobile WiMAX

- ▶ Fixed and nomadic WiMAX services are a reality today
- ▶ Best effort personal broadband experience is achievable today with WiFi
- ▶ Wi-Fi Technology is extending WiMAX for strategic hotspots or hotzones
- ▶ Mobile WiMAX will bring full mobility with carrier-class reliability and QoS

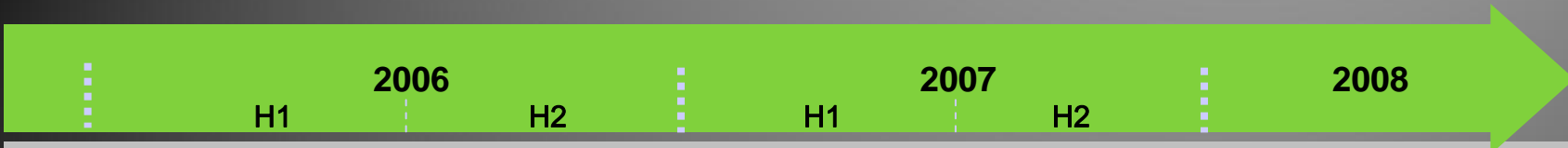




Wi-Fi Supports Migration to Mobile WiMAX >>



Seamless Migration to Mobile WiMAX >>>



Infrastructure



One Evolving Platform



outdoor



WiFi-
WiMAX
Outdoor



Self-
Install



PCMCIA



PDA

WiMAX Evolution >>>

The Road to Mobility

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