

TABLE OF CONTENTS

Table of Contents	2
List of Tables and Figures	4
Section I: Broadband Wireless: The Sector at a Glance	5
Broadband Wireless: The Past	5
Broadband Wireless: The Present	6
Broadband Wireless: The Future	6
Section II: Broadband Wireless: Sector Definition and Market Drivers.....	7
Sector Definition	7
Spectrum: 6 GHz and Below	7
An Alphabet Soup of Technologies and Protocols: Wi-Fi, WiMAX, and More	8
Wi-Fi.....	8
WiMAX	10
iBurst.....	11
High Speed Packet Access (HSPA).....	12
EV-DO.....	12
Wireless Solutions	13
Wi-Fi Mesh Network	14
Wireless Internet Service Provider (WISP)	15
Picocells	15
Femtocell	15
Overall Fit	16
The Internet.....	16
Backhaul	16
Services Explanation	17
Retail Broadband Access: Stationary/Fixed	18
Retail Broadband Access: Mobile	18
Key Strategies	19
Municipal Wi-Fi	19
Wireless Internet Service Providers (WISPs)	20

Clearwire-Sprint Partnership.....	20
Key Market Drivers	22
Section III: The State of the Broadband Wireless Sector	22
Key Players in the Sector	24
Carriers	24
Sprint Nextel	24
Clearwire.....	25
Towerstream	25
Vendors	25
Intel	25
Samsung.....	26
Motorola.....	26
Qualcomm.....	27
Ericsson	27
Notable Activities of Other Players	27
Google and the 700 MHz Spectrum auction (1Q 2008)	27
Google and Sprint Partnership.....	28
AT&T's Potential Southeast United States WiMAX Launch	28
Section IV: Broadband Wireless: Sector Sizing and Forecasts	28
A Bright Future for Broadband Wireless	28
Wireless Replacement for Broadband	29
Municipal Wi-Fi	31
Mobile Broadband.....	32
3G Handsets.....	33
WiMAX Deployment and Adoption.....	34
NPRG's Assessment & Analysis.....	35

LIST OF TABLES AND FIGURES

List of Tables

Table 2.1: Wi-Fi Iterations	9
Table 2.2: WiMAX Iterations.....	11
Table 2.3: Comparison of Portable And Mobile Wireless Markets	15

List of Figures

Figure 2.1: Evolution of 3G Mobile Wireless Technologies	13
Figure 2.2: A Wi-Fi Mesh Network	14
Figure 4.1: Number of U.S. Hotspots	30
Figure 4.2: Broadband Wireless Subscribers	31
Figure 4.3: U.S. Capital Expenditures on Municipal Wireless Networks.....	32
Figure 4.4: Mobile Broadband Data Revenue	33
Figure 4.5: U.S. 3G Subscribers (EV-DO and HSPA)	34
Figure 4.6: WiMAX Penetration (2007-2010)	35