

Wireless Downtowns:

Smart Growth for Municipalities



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Chair, Cuddy & Feder, Telecommunications Practice

- Chris is a partner at Cuddy & Feder, LLP, a New York based law firm where he chairs the firm's Telecommunications Practice Group and is a past chairman of the firm's Land Use, Zoning and Development Practice Group. Chris has provided wireless operators, tower companies, DAS and small cell developers with real estate, government relations, zoning, environmental and other legal services for over twenty years. Chris has also been recognized as a Super Lawyer in Communications Law for the New York Metropolitan Area for four years running (2013-2016).

President, New York State Wireless Association

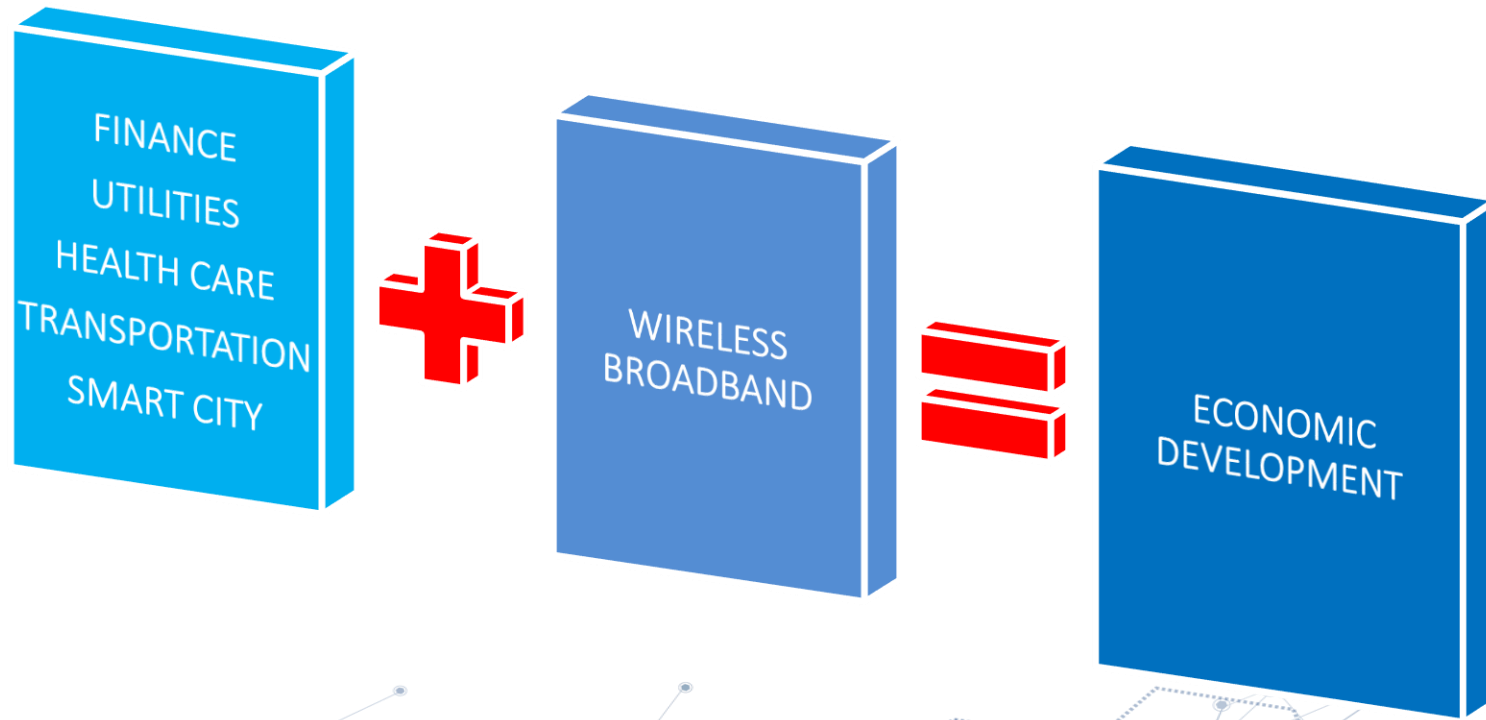
- Chris is a founding board member and has served as President of the New York State Wireless Association since 2012. Under Chris' leadership, NYSWA established its Wireless Forum Conferences in NYC, published a statewide wireless economic impact report, expanded its advocacy with State leaders in Albany and has otherwise provided new and improved opportunities for NYSWA members to do business in New York. Chris also contributes to the wireless industry nationally as a member of WIA's Innovation and Technology Council and HetNet Forum, where he focuses his efforts on mobile infrastructure deployment.



Wireless Connectivity – An Essential Service

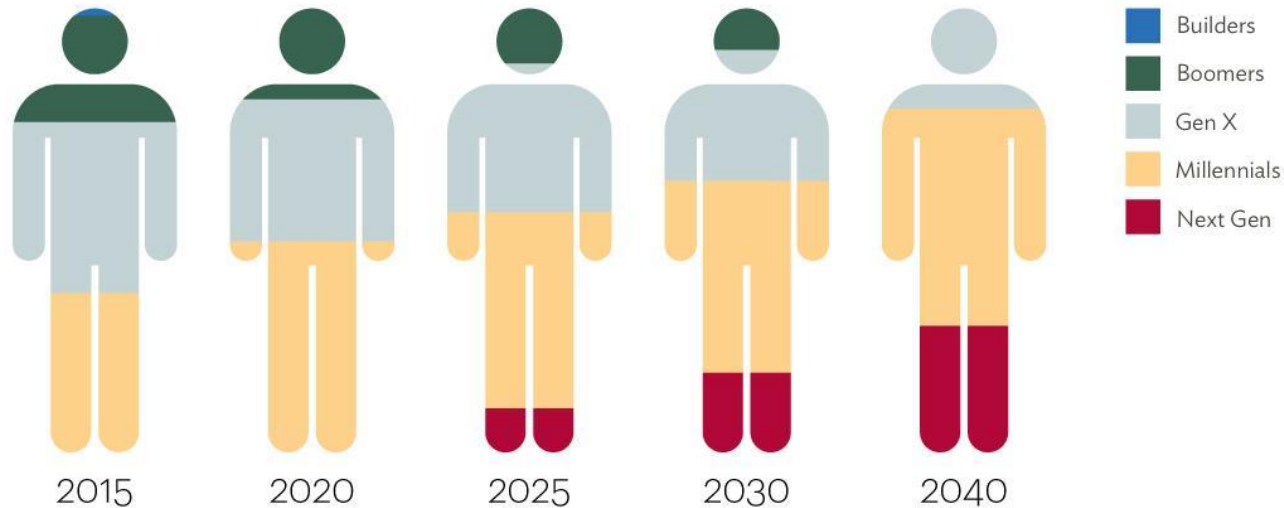


Economic Sectors Leveraging Mobile Broadband



Digital Immigrants and Digital Natives

Millennials will comprise the majority of the workforce by 2025

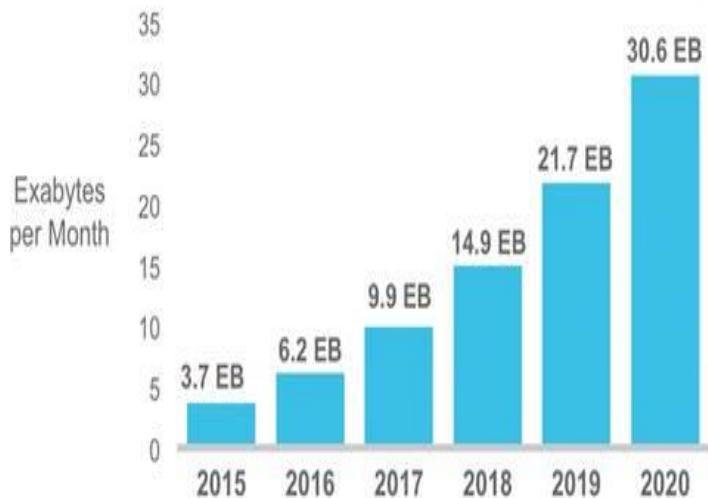


Source: U.S. Census Bureau



Mobile Broadband Data – Explosive Growth

53% CAGR 2015–2020



	M2M Module	=	7 X		(monthly basic mobile phone data traffic)
	Wearable Device	=	7 X		(monthly basic mobile phone data traffic)
	Smartphone	=	41 X		(monthly basic mobile phone data traffic)
	Tablet	=	113 X		(monthly basic mobile phone data traffic)
	PC	=	118 X		(monthly basic mobile phone data traffic)



Statistics on Wireless Benefits



- 70% of all 911 calls are placed with a wireless device
- Over 48% of U.S. households are “wireless only”
- Two-thirds of all New Yorkers have a smartphone
- \$2.4 billion annually in New York State and local tax revenue from the cellular industry
- \$8 billion in consumer productivity gains for New Yorkers annually

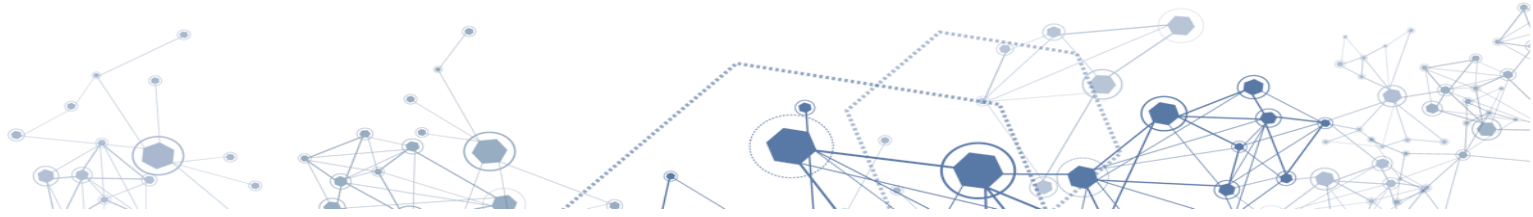


PewResearchCenter *Internet, Science & Tech*

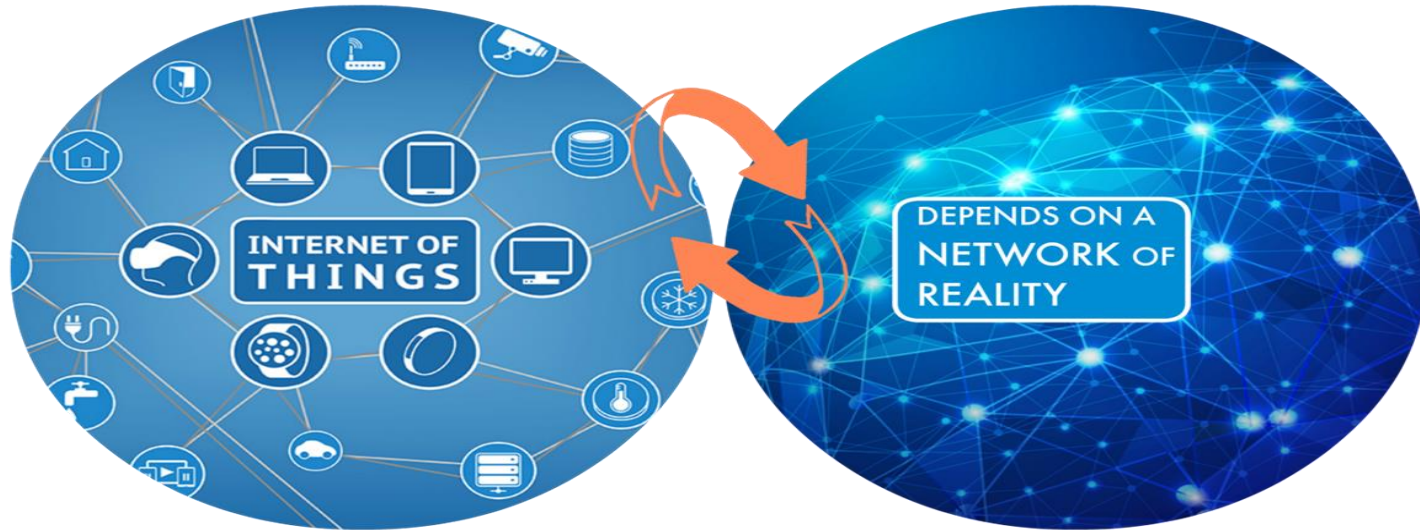
CGR

Inform & Empower
Center for Governmental Research

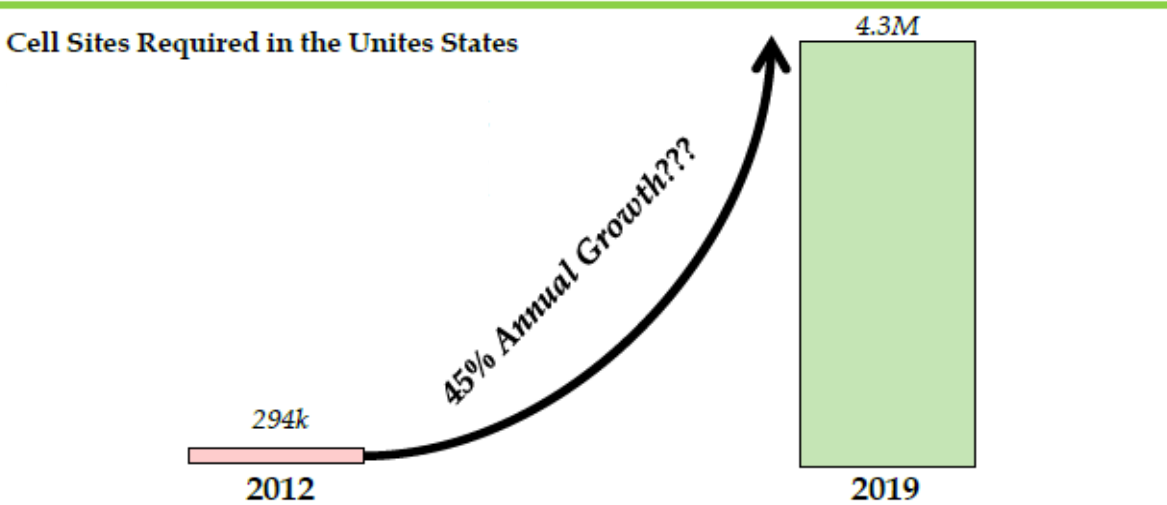
Siena Research Institute



Network Reliability Requires Infrastructure



Wireless Network Densification



Heterogeneous Network Facilities



Funding, Advocacy & Planning

