

# The Future of Wireless Technology

Carl Povelites  
Regulatory Planning and Policy



# We've come a long way!

Do You remember?

- Car mounted phones that cost upwards of \$2000?
- No color on your screen?
- The Motorola "brick"?
- How about the Simon?

# And look at where we are now

- Real-time video share
- Multimedia Messaging Service
- Picture phones
- On phone memory of a gig or more
- Large, hi-resolution, color displays, keyboards.
- Over the air data rates of multiple megabits per second
- Web browsing
- High speed cellular networks for voice and data
- Phones that play music and videos

# On the Horizon

- Converged services that seamlessly transition from your mobile environment to your home, to your office, to a Wi-Fi hotspot.
- Location services that allow you to avoid traffic, find a Thai restaurant (that's close to you) in an unfamiliar city. Navigation mapping ("find me")
  - Social Networking ("find you")
  - Child finder
  - Enhanced browse, search and advertising.
- Stream video from your mobile phone directly and in real time to a TV, home PC, or laptop – video exchange, video share.
- Personalization - services and interfaces that are based on you...your drive routes, your schedule, your call patterns, your location
  - Customized Browse experience
  - Mobile financial services
- Presence
- Have a multidimensional user interface on your phone that makes it easy and intuitive to use all these services...or customize.
- At the end of the day, the services you receive will look more and more like what you get via your PC...only portable, personalized, and location/context based.

# Powering the Future

What capabilities will enable this environment?

- IP Multimedia Subsystem (IMS)
- Faster “pipes”.. With QOS and policy management
- More “power” in mobile devices...
  - Faster, more energy efficient processors
  - Faster, cheaper memory
  - High resolution, brighter, more energy efficient display
  - More powerful battery technology
- Enablers within the network that can be reused as a building block across multiple service offers and by other network functions, e.g., identity management, presence.