Tysons Corner

Department of Information Technology
&
Planning Commission
Future Development/Comprehensive Plan

April 29, 2009

Tysons Corner Initiative

Case Studies:

- Panduit Corporation
- Buck Institute
- Masdar City

Panduit Corporation

- Multi-technology architecture that extends the reach of cabling infrastructures to all end point devices, creating seamless integration of building systems with new services like IP telephony, wireless connectivity, digital media and unified communications.

- Unified Physical Infrastructure is a comprehensive and holistic approach to help enterprises align, converge, and optimize critical systems including communication, computing, control, power and security.

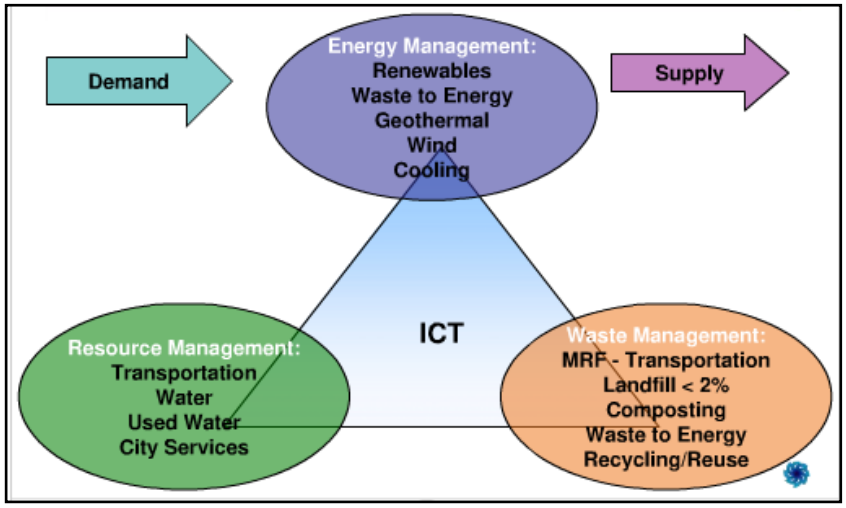
Buck Institute

Constructed a LEED-certified building that also received the nation's first Innovation in Design Credit for Information Technology Infrastructure.

Masdar

Masdar City incorporates many strategies and ideas relevant to Tyson's – from building energy conservation to carbon neutrality to restricted personal automobiles to technology planning that will enrich the lifestyles of its future constituents.

Masdar – ICT Strategy



- Must be seamless, fixed and wireless
- Must be transparent/invisible, function focused and purposeful
- Must be able to evolve and change with future technology innovations
- Must be innovative – less business as usual
- Must still be a robust solution for all

Information & Communication Technologies (ICT) Guiding Principles

- Determine target groups
- Define clear objectives
- Involve Stakeholders
- Introduce Technology to meet the needs of the target group
- Establish Policies and Partnerships
- Sustainable Success requires a link between the target group and partners

Innovative Technology Trends

- Fiber to the Premise
- Broadband
- Lower Power CPUs, Monitors and Hard Drives
- Wireless – Voice, Data and Video
- Environmental Monitoring – Water, Energy and Waste
- RFID – Safe, Secure and Asset Management
- Security and Information Assurance

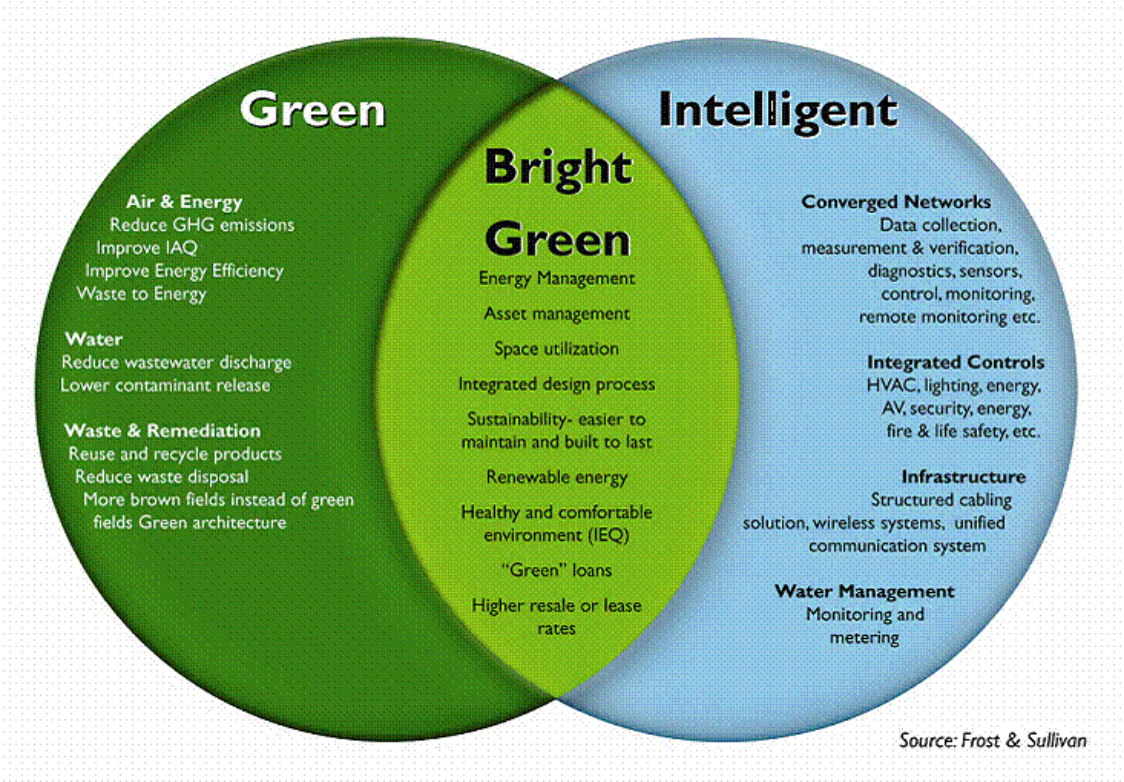
Innovative Technology Trends – con't

- Intelligent Transportation
- Smart/Solar Traffic Signals with LEDs
- Proximity Incident Response
- Real-time Transportation Information
- Demand-managed Scheduling of PRTs
- Intelligent Transport Solutions
- SMART Parking

Challenges

- Budget/Sustainable
- Innovation vs. Market Acceptance
- Technology Standards
- Technology Forecasting
- Security
- Best Practice Partners
- Residents vs. Visitors

Bright Green Buildings



* Source CABA (Continental Automated Buildings Association)

Resources & Additional Information

- See Handouts.