How Smart is your Infrastructure

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SMART: Using technology to improve effectiveness and make better decisions
Why the hurry?

- Serve our customers
- Funding constraints
- Urbanization
- Status
- It’s exciting
- Fear

CITIES:
70% energy use/5% earth’s land mass
If we optimize our smart infrastructure, we get more for less by being clever.
Smart Infrastructure

- Understanding
- Control
- Optimization

Automation

Analytics (especially predictive)

Connectivity

Data Sources

Physical/Digital Interface
• Develop a plan
• Establish guiding principals
• Start with your organization’s goals, vision, purpose
• Be consistent with your role
• Identify the problems you’re trying to solve
Understanding Roles
Pilot Projects
“Smarter” Smart Infrastructure Investments

• Meet real needs
• Are consistent with organizational mission, goals, and role
• Are selected wisely (honest benefit and risk analysis)
• Are flexible
The systematic computational analysis of data or statistics

EFFICIENCY

PERFORMANCE

FINANCIAL STRENGTH

GROWTH RATES

VALUATION RATIOS

OLSSON
• Have a plan
  ▪ Be willing to adjust your plan
  ▪ Never assume you know everything

• Be cautiously aggressive

• The future is bright
References


2. Dr. Dean Economou, Acting Business Team Director, Infrastructure, Transport and Logistics, National ICT Australia, Committee Hansard, 25 March 2015, p. 3. as quoted in: Standing committee on infrastructure, Transport and Cities, 2016, Report on the inquiry into the role of smart ICT in the design and planning on infrastructure, p13