INFRASTRUCTURE

- Water
- Wastewater
- Transportation
- Power
- Telecommunications (IT)

- NOTE: They are interdependent systems. They are essential services. And taken for granted by many in a modern society.

Infrastructure (cont.)

- Accounts for 69% of energy and 50% of greenhouse emissions.
- As the city of Goodyear grows it is imminent there is a need for expansion of the essential services.
- However, if life “cycle cost” analysis is not considered up-front when approving a project, there is a major risk of wasting resources and creating problems for future generations.

- Albert Einstein:…..”the significant problems we face cannot be solved at the same level of thinking we were at, when we created them”
- Proposed Infrastructure Projects must address funds necessary to keep them in excellent Condition or as “State of the Art” facilities.
- Facilities Condition Index (FCI): An objective metric to illustrate Excellent, Good, Fair, or need to replace a Facility.

RECOMMENDATIONS

- Infrastructure Projects shall include “life cycle costs” analysis, not just the capital costs.
- Projects approval shall identify O&M funding sources for the life expectancy of the facilities to keep them in excellent condition.
- Infrastructure Systems Shall remain at a Facilities Condition Index (FCI)* greater than 0.90.

*{1 – SUMDeficiencies$/Replacement Value$}

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