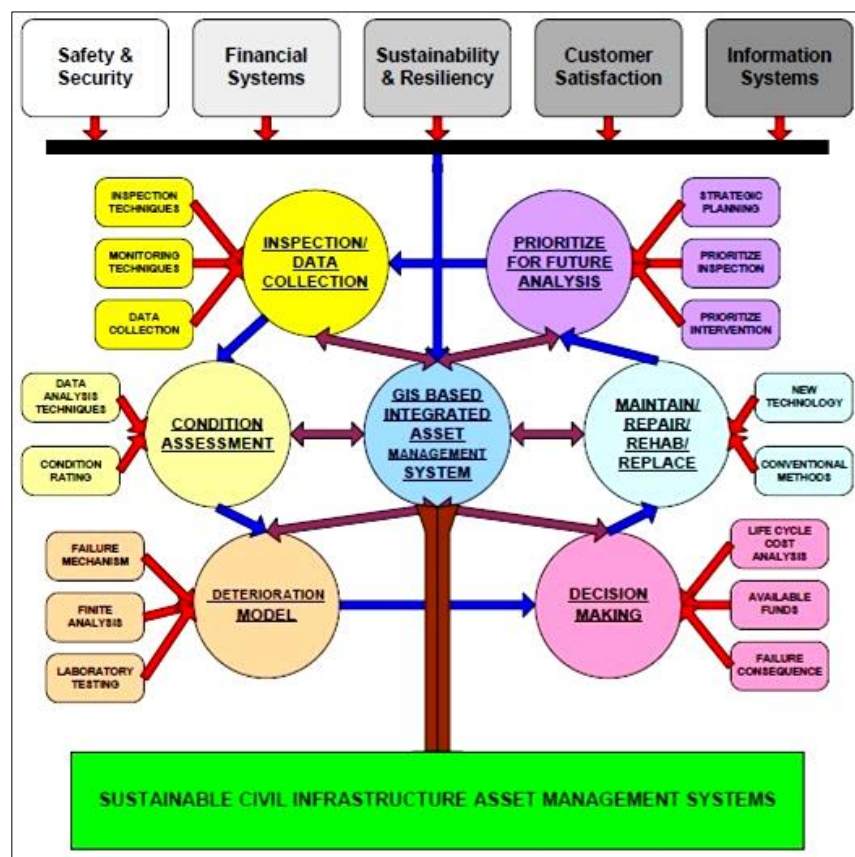


## Performance, Sustainability and Resilience Management— Moving from University (Theory) to Utility (Practice)

### ABSTRACT:

Many utility asset management programs have been developed following the U.S. Environmental Protection Agency (EPA) core definition of maintaining a level of service at the lowest life cycle cost. Most utilities, however, only incorporate performance measures into their asset management plans. A holistic approach to asset management is more beneficial because it takes into account the short and long term goals of the utility and can provide better service socially, economically, and environmentally. An analysis of the Town of Blacksburg wastewater utility's practices and data collection was performed using a holistic asset management framework developed at Virginia Tech. This theoretical framework supports the three key aspects of asset management: performance, sustainability, and resilience. Gaps were identified and recommendations were made as to what practices, goals, and data the Town can add to their current management plan so that their asset management program is more holistic.



**Figure 1: Holistic Infrastructure Asset Management Program**

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