Project Name: University of Pittsburgh Master Plan
ASG Project #: 21735
Subject: Infrastructure
Date: Friday, September 29, 2017

Note: **Bold text** denotes a reoccurring comment

**Strengths**
- PWSA stormwater plan/green infrastructure plan (the Pitt campus is one of the top 6 areas of focus)
- Shared infrastructure w/UPMC + CMU
- Energy center – monitoring + controlling each individual building
- Implementing standards across all projects and using software to improve energy (report issues and correct them)
- Tracking improvements
- South facing hillside

**Weaknesses/Disadvantages**
- City water lines; water getting to the buildings

**Opportunities**
- Line up multiple projects with similar green infrastructure improvements
- Utilize open space + streetscape
- Share basement flooding issues w/PWSA
- Water storage and reuse
- Rethink sizes of pipes
- Smart reader being installed by PWSA at Panther Hollow Lake
- Working towards dashboards to promote energy efficiency and consumption in each building
- Do a better job of communicating with the public on energy improvements and conservation efforts
- Micro-grid/small array (public safety/facilities management)
- Hydro power
- South facing hillside
- More public exposure to energy consumption
- Competitions
- Create goals + metrics
- Master plan as a platform
- Connection to Climate Action Plan of the city
- “Show off” new chiller plant
- Combined heating/cooling
- Consolidation of building types
- ICT plan/virtualization
- Reduction of desktop computing **but** still many programs that need desktop units
- More green roofs
- Listen to the students’ ideas
- Leverage relationship w/City
Threats/Challenges

- Need coordination with other entities
- Impact of water interruption
- Return of Investment (ROI)
- Parking
- Changing infrastructure needs