WebCAT Panel Discussion

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Site / Host Selection

- What is the Use case?
  - What are the requirements of that use case?
    - What view is needed to meet the requirements of the use case?
      - Is a high vantage point required?
  - Reliable power / internet available on site?
    - Would a wireless link be needed?
Agreement

• Formal Agreement / Contract
  – Protects all parties involved
  – Outlines
    • Requirements of each party
    • Basic use of camera
    • Exclusivity
Camera Options

- Different make models
  - PTZ (Pan Tilt Zoom) vs. Stationary
  - Zoom vs Resolution
  - Discreet / conspicuous
- Mounting options
  - Wall
  - Parapet
  - Flat Roof top
  - Pole
  - Other / Custom
Stationary vs. PTZ

• Use case?
• Stationary
  – Model verification
  – Erosion / Wave Run-up Monitoring
  – Pinpointing specific location
• PTZ
  – Searching (rip current, HAB, Special event observation)
  – Security
  – Entertainment
  – Media
• Locked down PTZ Hybrid
PTZ

Pros
• Remote movement
• Reduced onsite visits for adjustments
  • Reduced maintenance cost
  • Can meet multiple use cases
    • Locked down on single preset
    • Multiple presets with different duration

Cons
• Higher upfront cost
• More difficult to install/level on all axis
Stationary

- Pros
  - Lower cost
  - Quicker installation
  - Better where measurements / calibration are needed
- Cons
  - Only has one view
  - On site visit needed for any adjustment
  - May require site survey / fine adjustment
Gaps

- More cameras in areas of higher potential for hurricane impacts
- “Pain points” in models can be soothed by cameras
Needs

• Hurricane hardening
  • Stand alone mounting
  • Solar for power
  • Wind for power
  • Satellite for connectivity
  • Cellular for connectivity

• All have a larger cost associated
  • Cost in equipment, install, maintenance, and service
  • More red-tape / negotiating with host for placement and larger footprint
Costs

• Large range depending on many factors
  • Funding and use case?
    • Higher resolution
    • More zoom
    • Movement / PTZ
    • Reliability of onsite services (power / ISP)
  • Likelihood of damage
    • Natural: wind, hurricane, lightning, etc...
    • Human: Vandalism
  • Audience
    • Single or few concurrent views
    • Many concurrent views (Encoding server / CDN)
Quick Budget

• Range will depend on use case
  • Camera $500 to $5000
    • $2k good reliability / quality at this time
  • Support Equipment $100 to $600
  • Install approx. 3 to 6hrs. technician + travel
  • Host; monetary / advertising / Prestige of benefiting public safety
  • Streaming $300-500/month depending on use case, reliability, traffic
  • Maintenance approx. $1500/year
    • Onsite visits
    • Cleaner (may need to be paid depending on difficulty)
Ongoing costs

• Keep cameras streaming
  • Personnel to monitor / repair
  • Equipment replacement / upgrade
    • More likely as time progresses
• Streaming servers
• Storage of data (if needed)