

Possible Uses of UAVs in Land Surveying and Mapping

1. Surveying and Mapping Services

- a. Land Surveying and Mapping
 - 1. Topographic Surveys
 - 2. 3D Surfaces
- b. Engineering and Design
 - 1. Planning Level Topography
 - 2. As-Builts
- c. Construction and O&M Inspection
 - 1. Progress Documentation
 - 2. Site Logistics and Safety Management
 - 3. Asset Management
 - 4. Bank Protection Monitoring
 - 5. Inspections of erosion, trash accumulation, vegetation and homeless encampments
- d. Vegetation Management
 - 1. Invasive Species Assessment
 - 2. Canopy Coverage Studies
- e. Community Projects Review
 - 1. Design Verification
 - 2. Encroachment Documentation
 - 3. Water Resources Protection
- f. Capitol Program Planning
 - 1. Construction Administration
- g. Real Estate Services
 - 1. Appraisals
 - 2. Property Management

2. Photographic and Video

- a. Environmental Health and Safety
 - 1. Jobsite Health Hazard Evaluations
 - 2. Pollution Assessment
- b. Emergency Services and Security
 - 1. Incident Management
 - 2. Logistics and Documentation
- c. Facilities Maintenance
 - 1. Building Repairs and Maintenance
 - 2. Roof Maintenance
- d. Utility Maintenance Pipelines
 - 1. Pipeline Capitol Improvement As-Builts
- e. Dam Safety
 - 1. Spillway and Embankment Inspection
- f. Public Information Office
 - 1. Media Relations
 - 2. Public Information and Marketing
 - 3. Website Content
 - 4. District Events

- g. Public Safety
 - 1. Remote Aerial Condition Assessment
- h. Asset Management
 - 1. Facilities and Warehouse Inventory