Maryland LiDAR Acquisition and Funding

Thursday, January 10, 2019

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Agenda

- Purpose of this Meeting
- Current Maryland LiDAR Review
- Contracting Mechanisms
- Funding Mechanisms
- Prioritizing Collections
- Action Items
- Open Discussion / Q&A

Purpose of this Meeting

- Discuss where Maryland LiDAR is today
- Bring together Federal, State, and Local partners
- Present options for contracting and funding
- Making the Case & Getting Buy-In
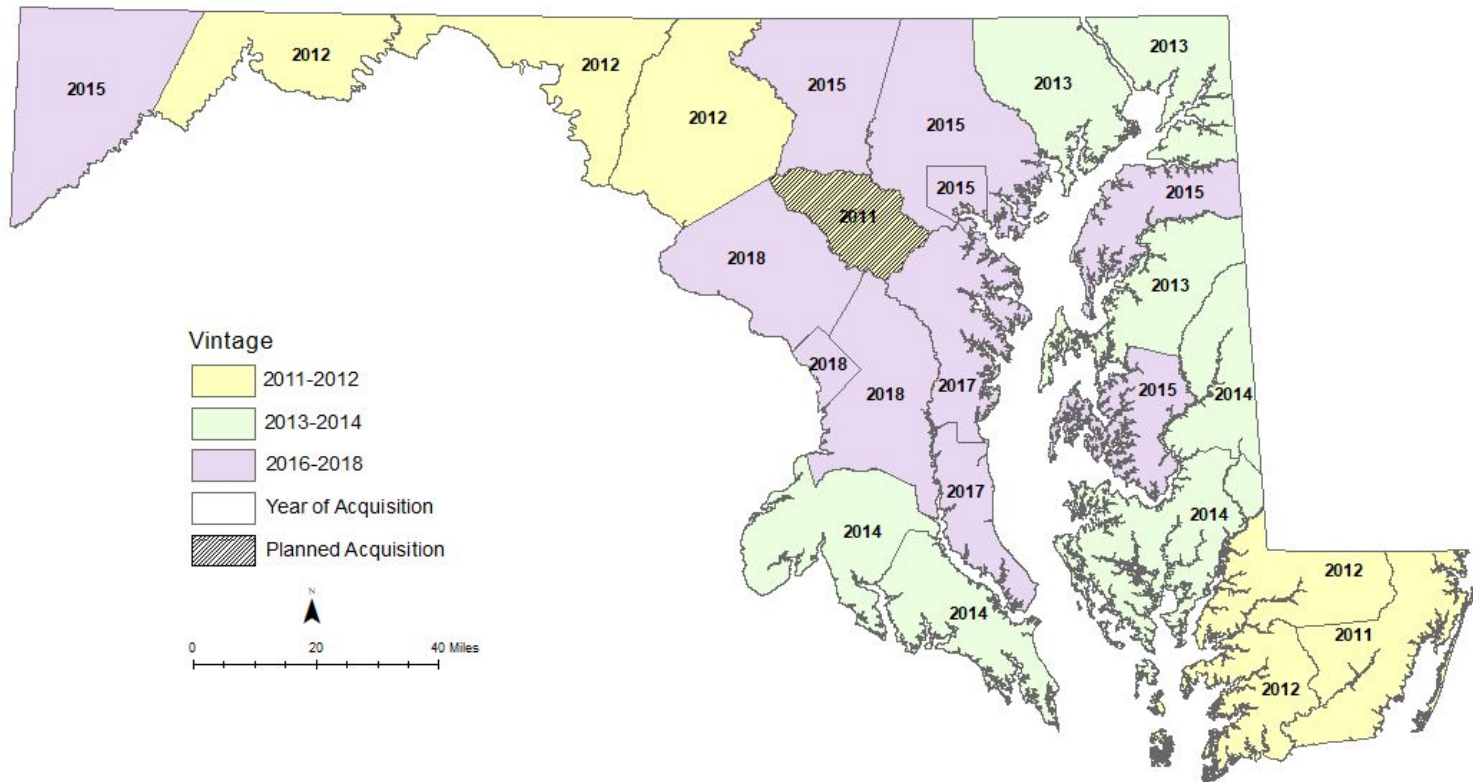- Create action items

Current Maryland LiDAR Review

- Maryland has full LiDAR coverage
- Most counties have Quality Level 2 or better (depending on the standard some are QL3)
- Two counties have Quality Level 1 (Anne Arundel and Calvert)
- The oldest collections are from 2011 (Somerset, Wicomico, and Worcester)
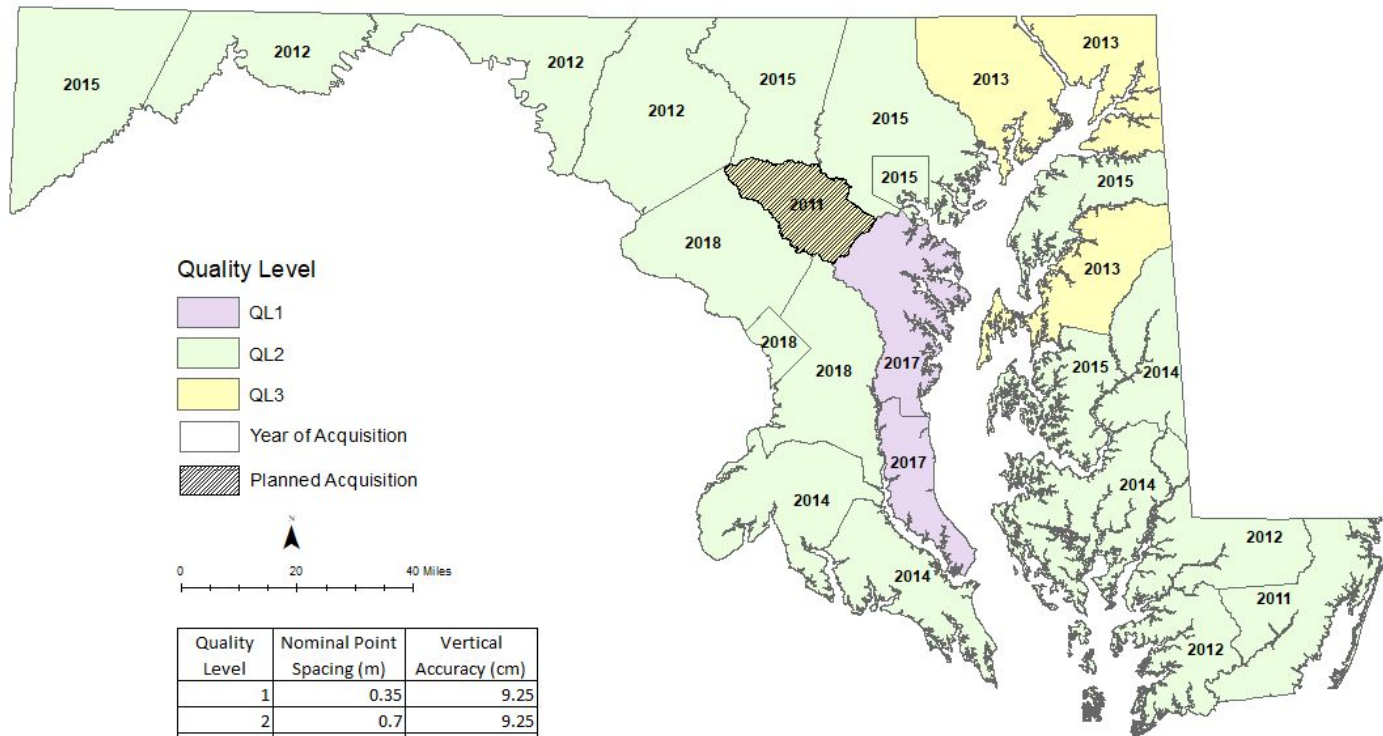
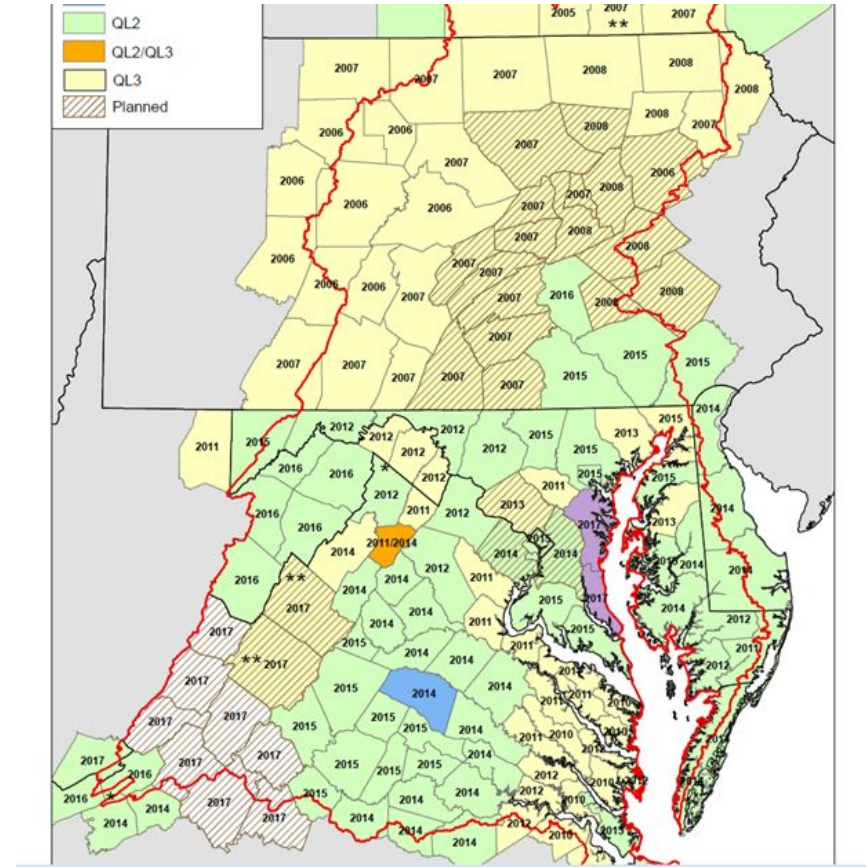# Maryland Topographic Lidar by Acquisition Year
January, 2019

Vintage

- 2011-2012
- 2013-2014
- 2016-2018
- Year of Acquisition
- Planned Acquisition

N

0   20   40 Miles

Maryland Topographic Lidar by Quality Level
January, 2019

Quality Level

- QL1
- QL2
- QL3
- Year of Acquisition
- Planned Acquisition

N

0   20   40 Miles

Quality Level	Nominal Point Spacing (m)	Vertical Accuracy (cm)
1	0.35	9.25
2	0.7	9.25
3	1 - 2	≤18.5
4	5	46 - 139
5	5	93 - 185

Sources: National Enhanced Elevation Assessment (Dewberry, 2011),
United States Interagency Elevation Inventory http://coast.noaa.gov/digitalcoast/tools/inventory

Regional LiDAR Review

- New Jersey
  - 5 counties to be acquired 2018-2019
  - 3DEP and NJ funding
- Pennsylvania
  - 16 counties acquired 2017-2018
  - 3DEP, USGS, NRCS partnership
- Virginia
  - Central Virginia - 10 counties
  - Eastern Virginia - 12 counties
  - 3DEP, USGS, NRCS, VGIN partnership
- All QL2 data

Contracting Mechanisms

1. Proposal by Agency or Jurisdiction

2. State Imagery Contract - Sanborn

3. USGS Contract - Multiple Vendors

Funding Mechanisms

1. Self Funded by Agency or Jurisdiction

2. Partial funding from USGS

3. Related grant funding

4. Emergency Number Systems Board (ENSB)

Prioritizing Collections

1. Areas affected by disaster or other events

2. Oldest collection areas

3. Area of Interest

Making the Case & Getting Buy-In

- Maryland Focused Use Cases
  - How are Federal, State, and Local partners using LiDAR today?
- Boilerplate documentation to justify LiDAR funding
  - Existing Use Cases and Potential Use Cases
  - Benefits for the collection of higher quality data (QL1 vs QL2)
  - Cost estimates

Action Items

1. Budget for a collection - 2020 and beyond

2. Submit Use Cases for your organization

3. Submit Areas of Interest and Project Descriptions for Sea Sketch - **fedmap.seasketch.org**

4. Draft, Review, and Submit Broad Agency Announcement (BAA)*
   Requires some level of funding commitment prior to submission

5. Create LiDAR Benefits/Case Study Paper

Open Discussion / Q&A

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