

Imagery Program Update

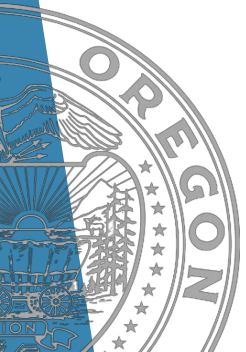
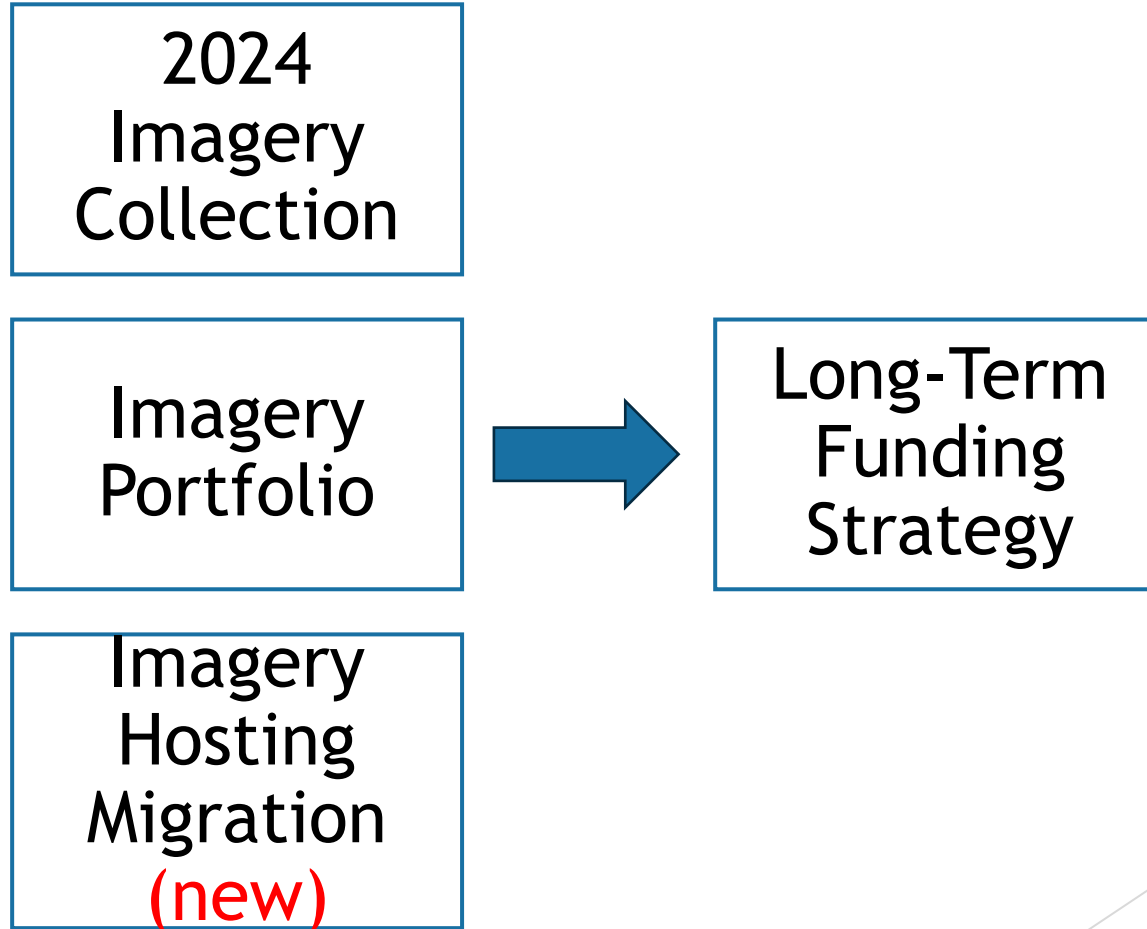
Spring Framework Forum

April 25, 2024



ENTERPRISE
information services

2023-2025 Imagery Projects (4)



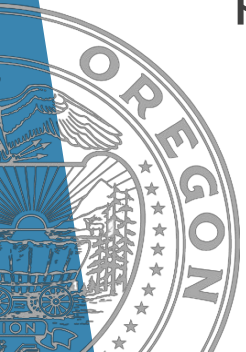
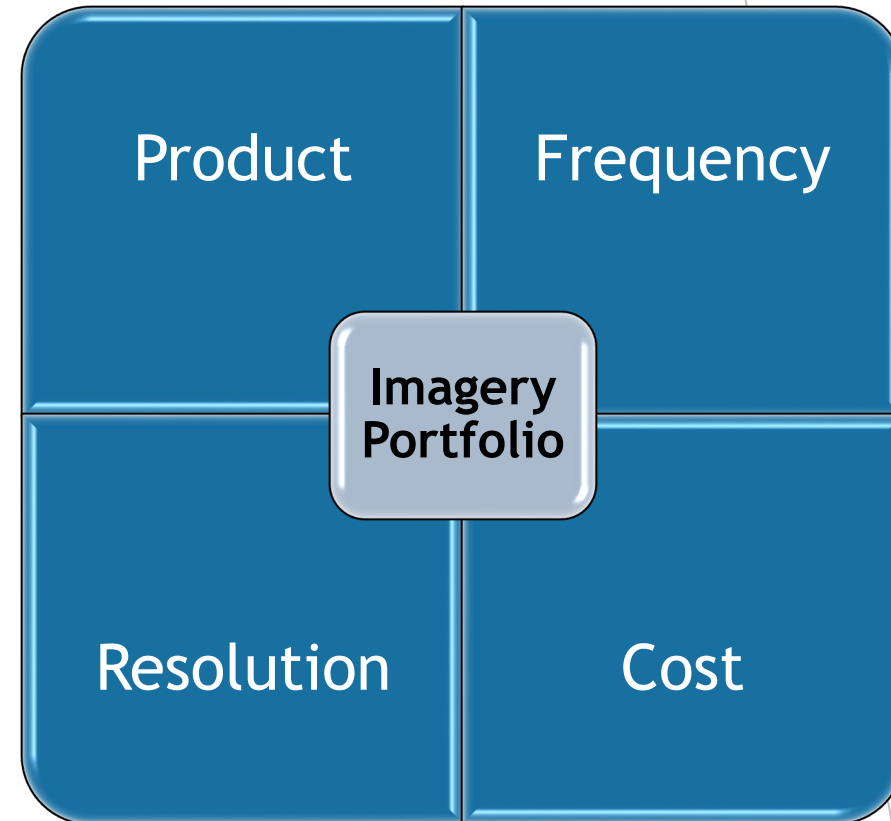
2024 Imagery Collection - update

- ▶ Simultaneously working on two paths:
 - Open procurement for new vendor (2 proposals received; scoring completed)
 - USDA 30cm buy-up option (new)
- ▶ Very active, high priority project; no guarantee of a 2024 product as both paths forward have failure potential. Why?
 - Cost not part of vendor selection in open procurement; we have limited funds.
 - USDA process / timing is very difficult; funding not an issue.



Imagery Portfolio

- ▶ Set of products for consistent acquisition
- ▶ Serve multiple use cases for highest number of funding partners
- ▶ Reasonable cost
- ▶ Optional buy-ups & derivative products



County Assessor Survey Results - 30 of 36 counties reporting

Ortho Imagery Needs

- ▶ 87% of OR counties use orthos
- ▶ Collected every 1-2 years is preference
- ▶ Resolution collected varies widely; most need at least 12” countywide and 6” in urban areas.
- ▶ Many rely on the State, Google, or Esri for imagery.

Derivative Products & Buy-Ups

- ▶ Building Footprints
- ▶ County Buy-Ups (frequency & resolution needs)

Oblique Imagery Needs

- ▶ 47% of OR counties use obliques
- ▶ No \$\$ for imagery is primary reason for not using imagery; using what is available from State, Google, Esri, etc...
- ▶ Collected every 1-2 years is preference
- ▶ 6” countywide and/or 3” urban areas minimum resolution desired
- ▶ Do not include: federal land and tribal reservations, state-owned forests
- ▶ Publicly available obliques desired



Imagery FIT Feedback

Ortho Imagery Needs

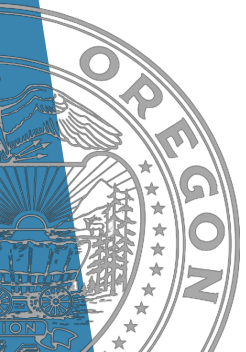
- ▶ Collected every 1-2 years is preference
- ▶ Resolution at least 12” statewide; 6” preferred
- ▶ Tighter accuracy needed than previous statewide collections (particularly better than NAIP specs)
- ▶ Publicly accessible imagery required

Oblique Imagery Needs

- ▶ Few state agencies use obliques
- ▶ Collected every 1-2 years is preference
- ▶ No input on resolution

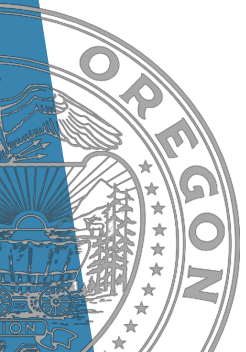
Derivative Products & Buy-Ups

- ▶ Building Footprints
- ▶ Land Cover
- ▶ Buy-ups for specific areas / by tiles



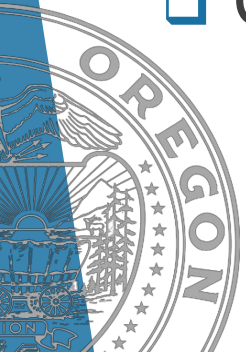
Draft Portfolio - Orthos

- ▶ Statewide Orthos collected every 2 years
- ▶ Minimum 6” GSD
- ▶ Tighter accuracy**
- ▶ Publicly accessible
- ❑ Countywide Buy-ups for 3” and 1” GSD
- ❑ State Buy-up of Digital Surface Model & Digital Terrain Model



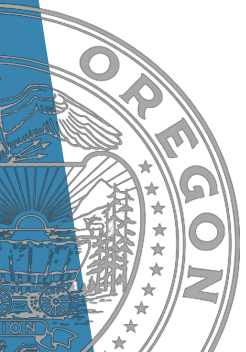
Draft Portfolio - Obliques

- ▶ Statewide Obliques collected every 2 years
- ▶ Minimum 9” GSD Rural and 3” GSD Urban (w/ exclusions)
- or -
- ▶ 6” GSD Statewide (w/ exclusions)
 - ▶ Excludes federally-owned and tribal-owned lands, and state-owned forests
- ▶ Publicly accessible
- ❑ Countywide Buy-ups for 3” and 1” GSD



Draft Portfolio - Derivative Products

- ▶ Statewide Land Cover
- ▶ Building Footprints / Change Detection
- ▶ Ground Control



Primary Outstanding Questions

- ▶ What is a suitable accuracy for orthos and obliques?
- ▶ Should ground control and update of control be included in the program?
- ▶ For higher resolution and better accuracy of statewide products, frequency may need to change to every 3 years. Is this better?
- ▶ Do Tribal governments want to be included in oblique acquisition?
- ▶ Will cost determine the Portfolio or should the Portfolio state the desired outcomes regardless of cost?



Long-Term Funding Strategy

- 1) Determine a strategy and administrative plan to fund the imagery portfolio
- 2) Deep dive into current spend of counties and state to procure imagery.
- 3) Consider legislative funding requests to supplement gov't \$\$\$

Procurement Started.



Questions?

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