



Facility Construction

Building a Conservation Hub

Cassi Newton
District Manager

Wheeler SWCD

- Established 1963
- No tax base
- 5 employees
- Rented office space
- Meetings held off-site
 - Fire hall
 - Church building
- No state/federal agencies within county
- Long project commutes





Resource Gaps

Oregon Frontier Chamber of Commerce and Rural Development Initiatives facilitated
Community Conversation
Surveyed Community Members

RESULTS!!

- Bring people together
- Engage youth in entrepreneurship
- Insufficient office space
- Improve lands of absentee owners
- Unify county communities
- Exceptionally limited meeting space
- “Pop-up markets”
- Beautification
- Inadequate education resources
- Retain young people
- Youth activities



92 Responses
61% Wheeler County!

26% Gilliam County

11% Sherman County

2% Other

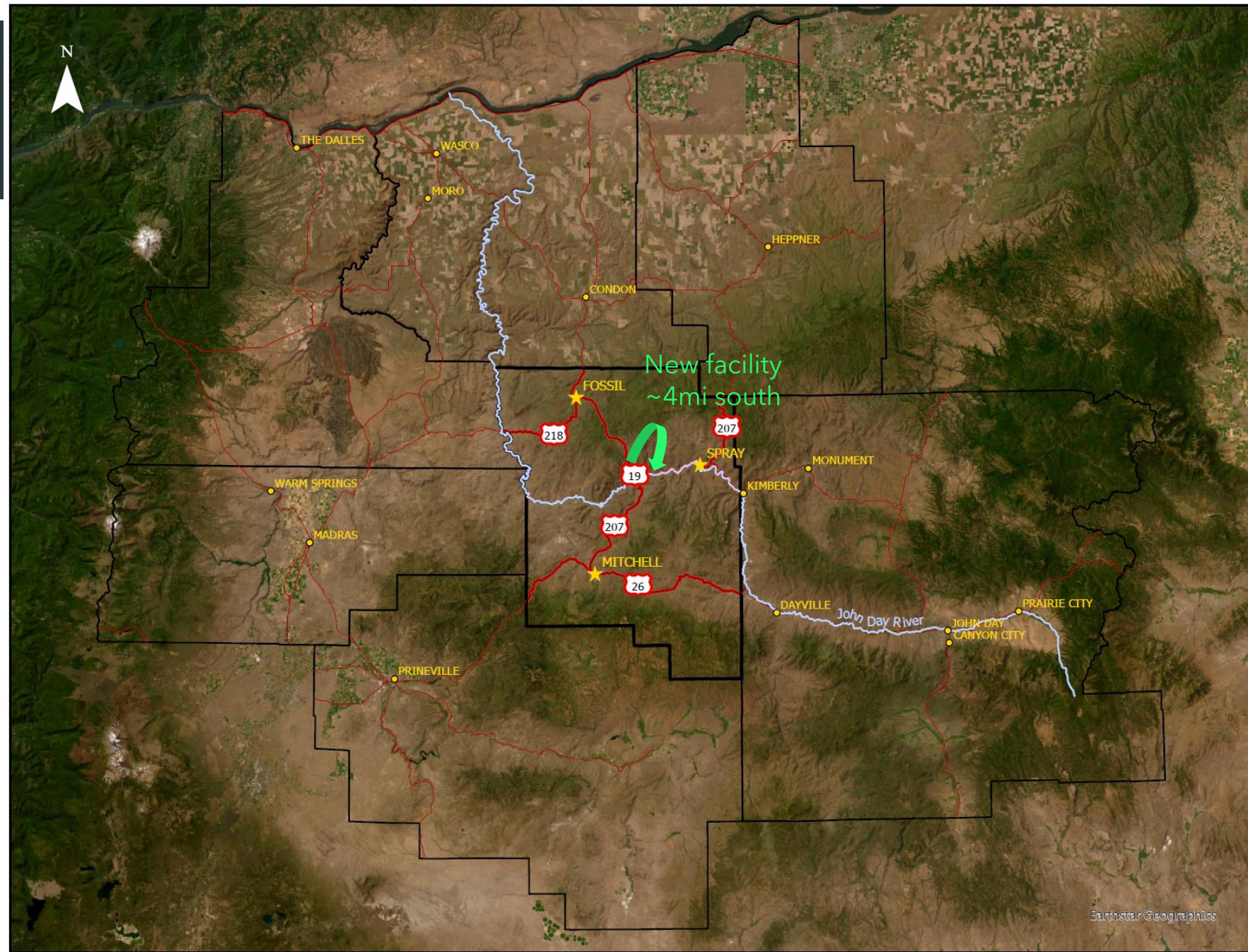
Areas of Opportunity

“Great supportive community; just not enough folks to support expansion”

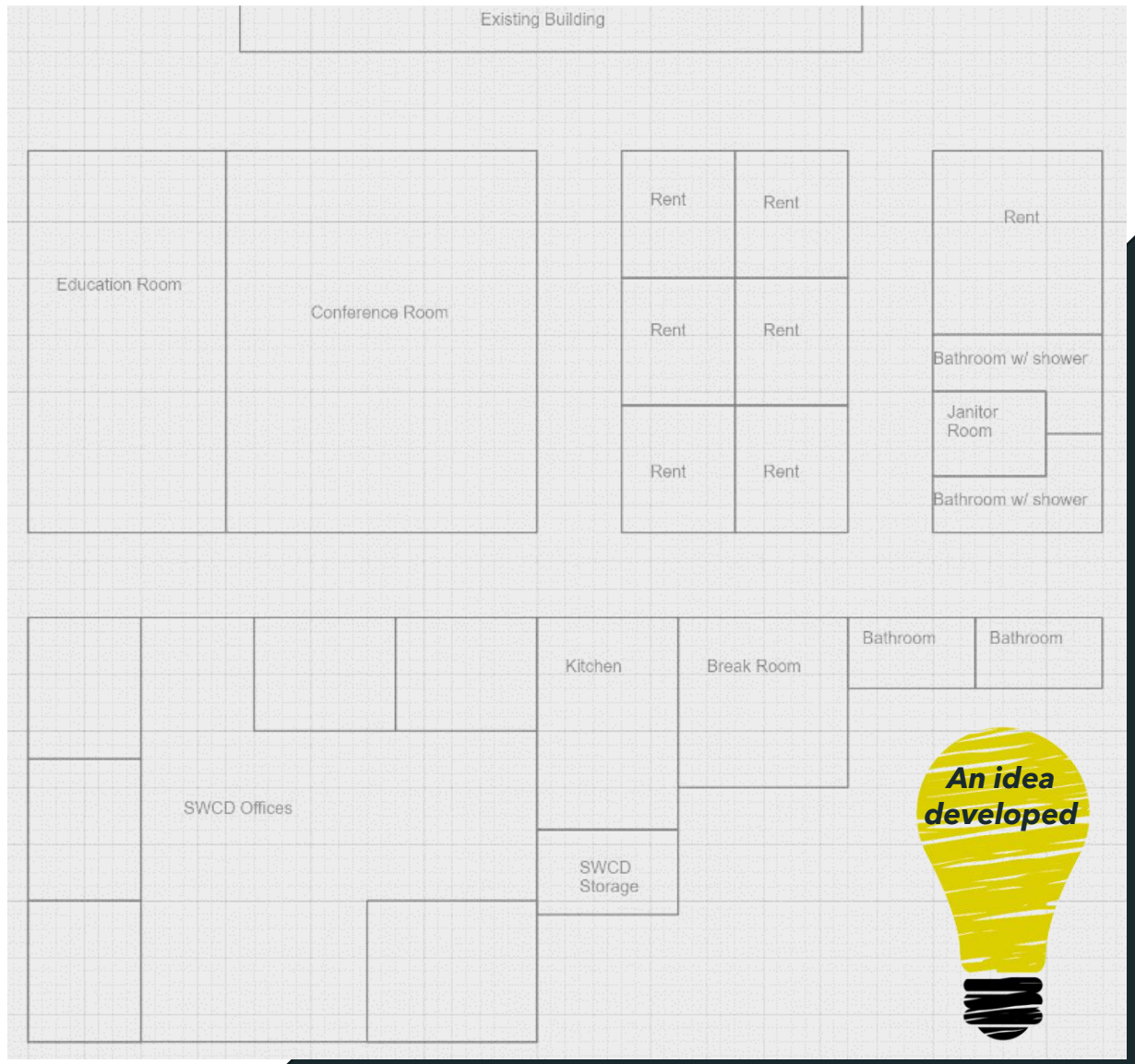
Agency Resources

(one-way / roundtrip from Service Creek)

- Condon (38.4 mi / 76.8 mi)
 - USDA FSA
 - USDA NRCS
- John Day (81.7 mi / 163.4 mi)
 - ODFW
 - ODF
 - USDA FS
 - NPS
 - CTWS
- Heppner (67.1 mi / 134.2 mi)
 - ODFW
 - USDA FS
- Prineville (70.7 mi / 141.4 mi)
 - DOI BLM
 - USDA FS



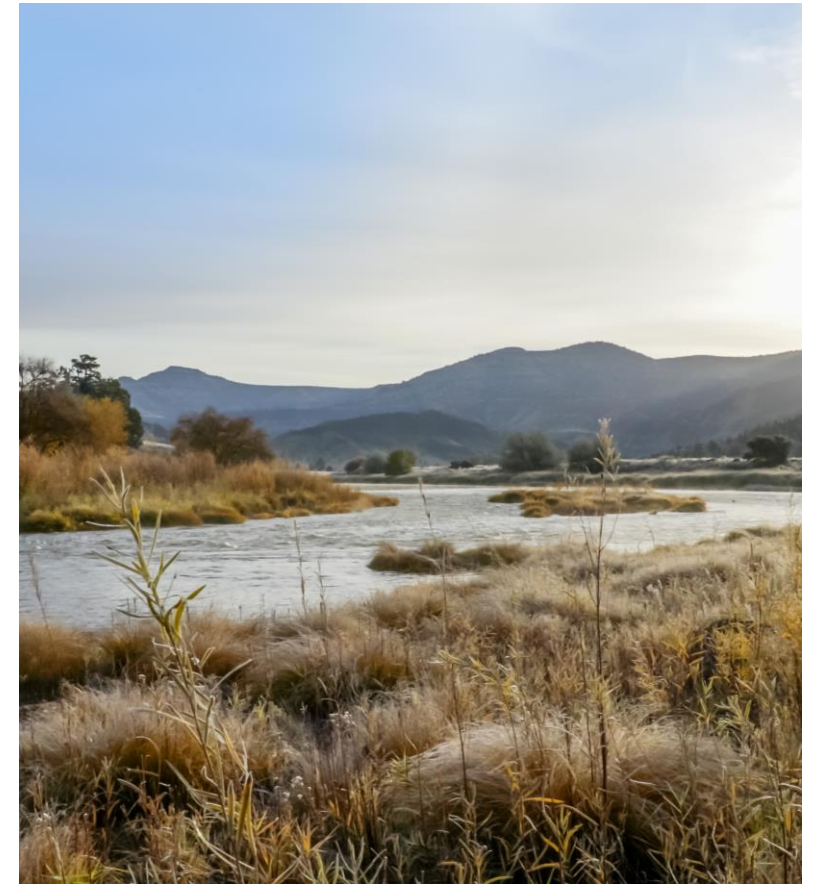
Wheeler SWCD Conservation Community Center





Wheeler SWCD Goals

- Create a centrally located **hub** to serve the **Wheeler County community**
- Create a **biophilic design** that is responsive to the climate and ecology of the site
- Build with **locally-sourced wood** from **SWCD projects** and other **conservation stewardship efforts**
- Support the **local economy** and **promote the environmental health** of the community
- Serve as a showcase for **mass timber construction** methods
- Incorporate **sustainability features** into the design

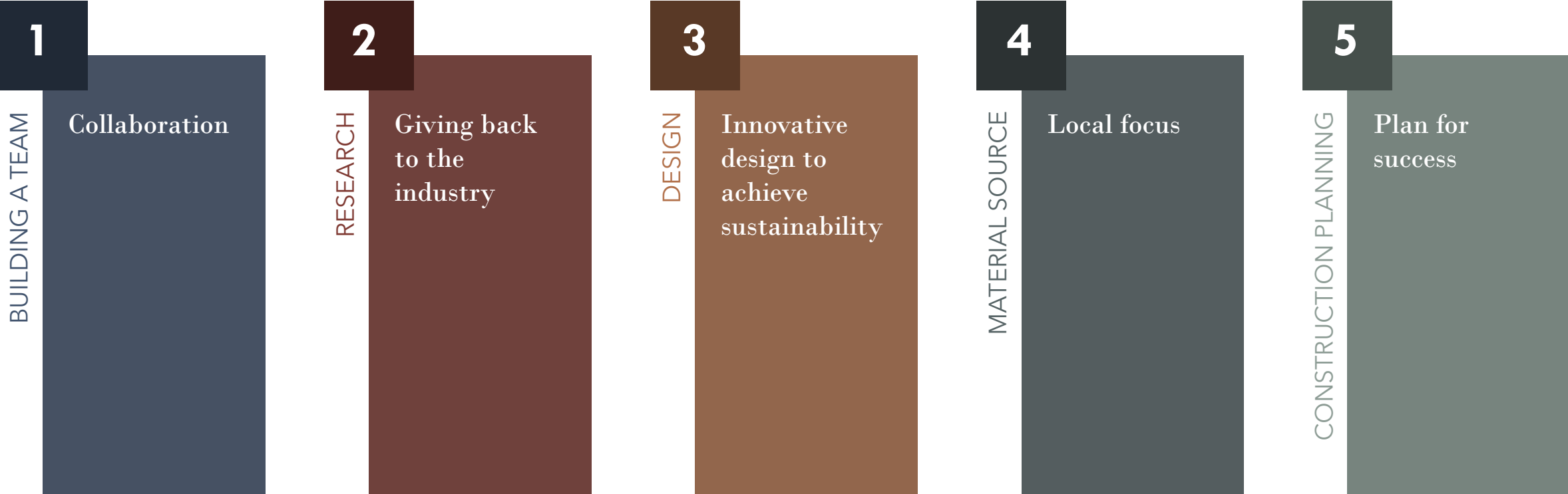




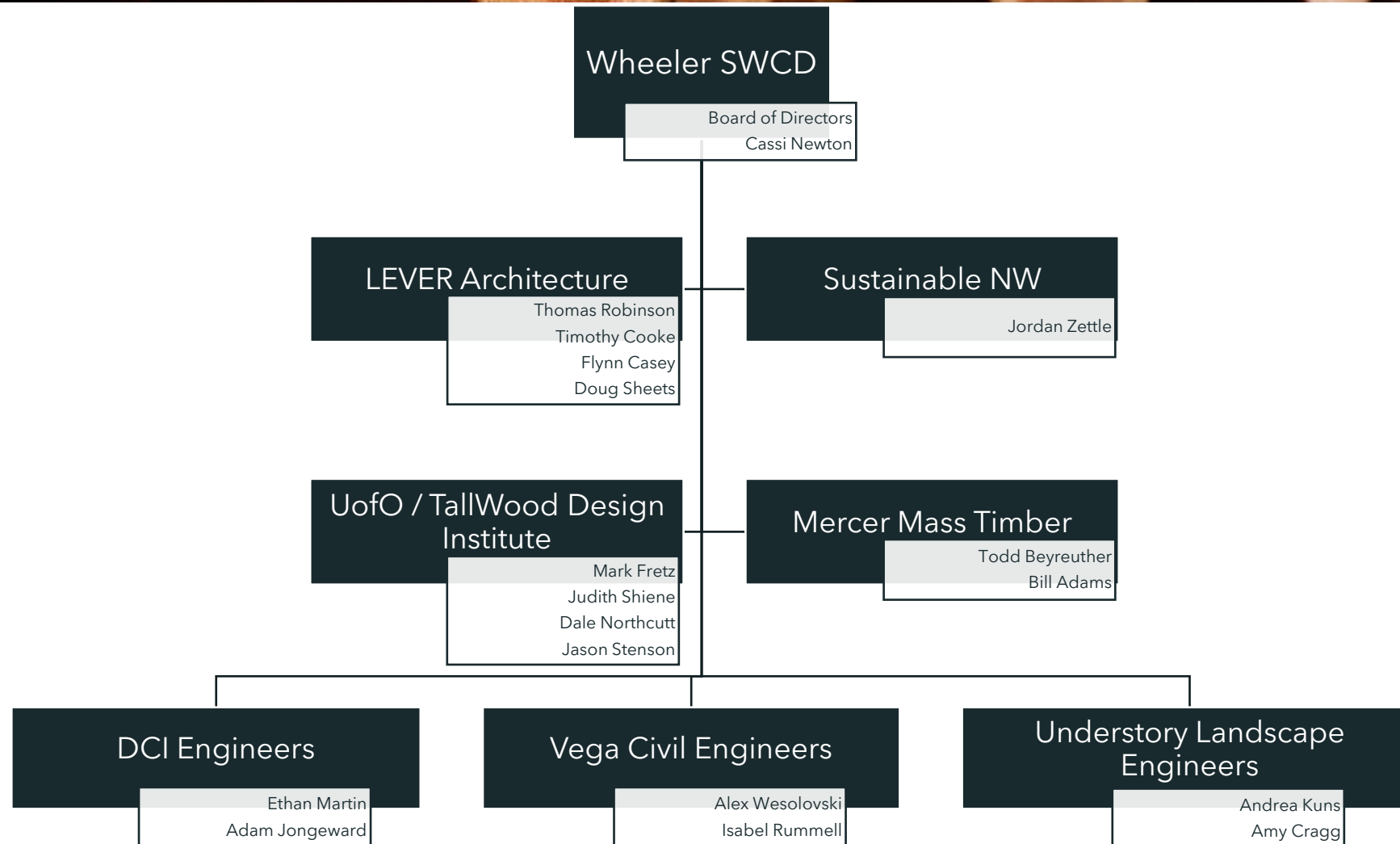
“I am not the smartest fellow in the world, but I sure can pick smart colleagues.”

FRANKLIN D. ROOSEVELT

U.S. Forest Service Wood Innovation Grant



The Ever-Growing Team

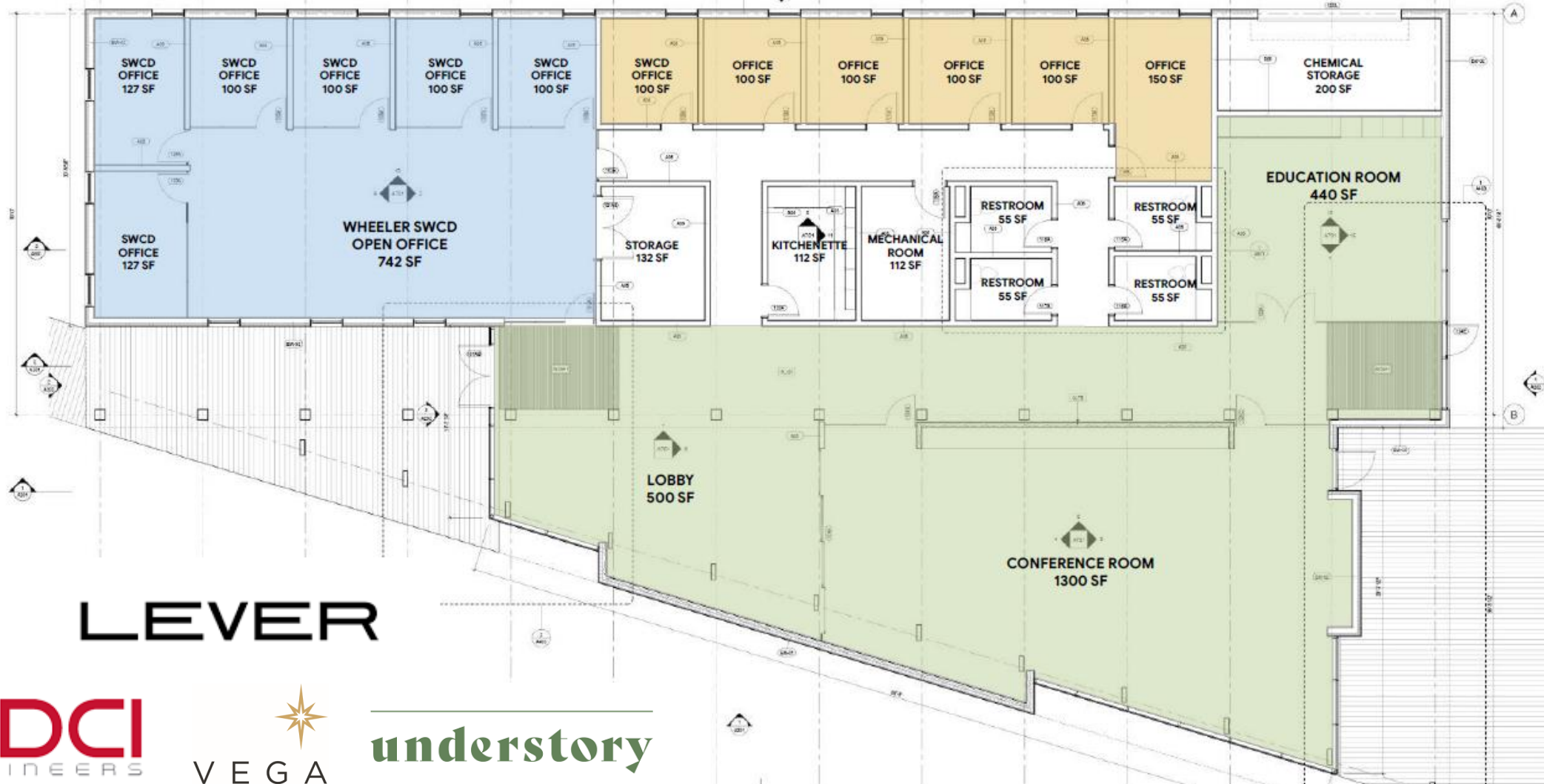


Thermal Bridge Analysis



TALLWOOD
DESIGN INSTITUTE

Innovative Design



LEVER



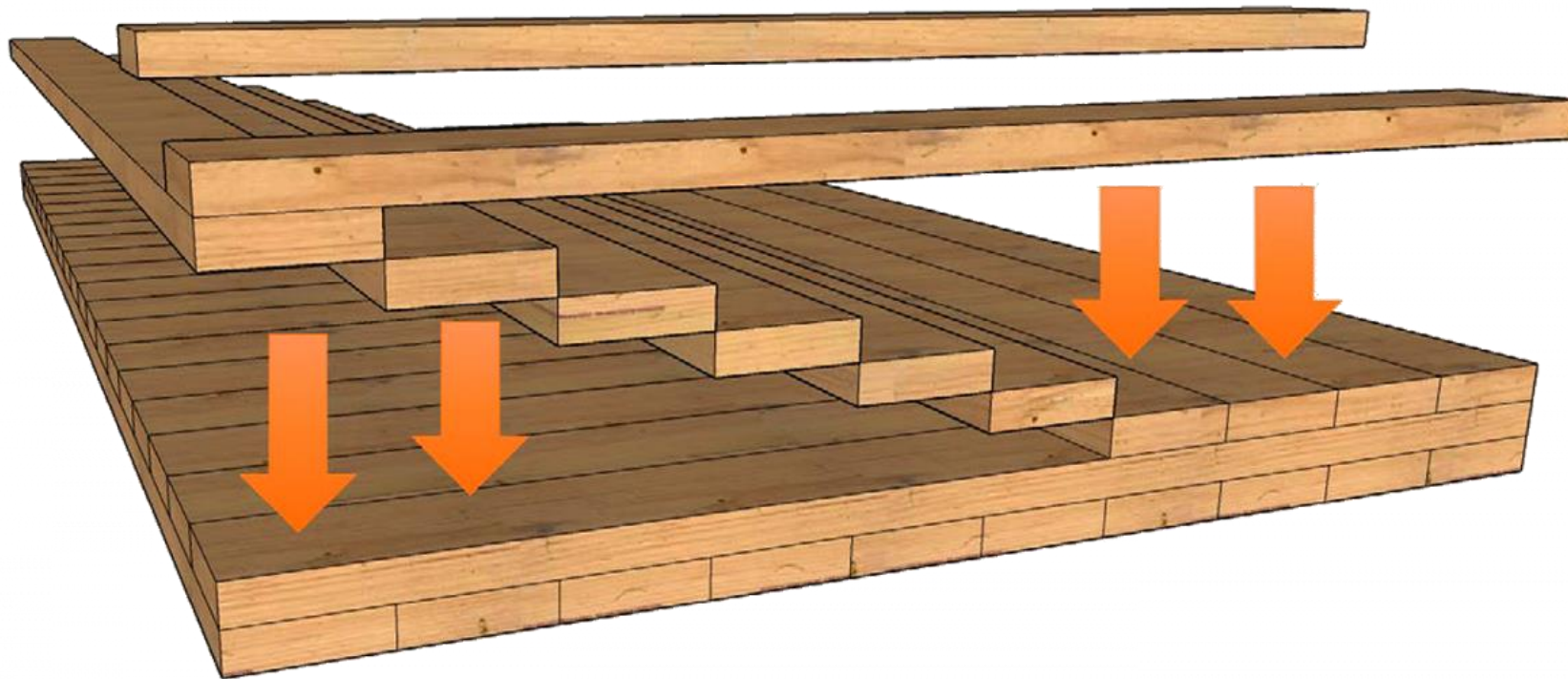
understory

Scott G. Field



What is mass timber?!

Cross-Laminated Mass Timber



What is mass timber?!

BENEFITS

- **Fire resistant**
 - Chars outside & protects against combustion/spread
- ***Locks up carbon***
 - Wood is 50% carbon by weight, stored for life of structure
- **Construction**
 - Lower [labor/material] cost
 - Energy efficiency
 - Faster installation



Carbon Summary

V

Volume of wood projects used (m³):

~551 m³ (19,472 ft³) of lumber and sheathing



U.S. and Canadian forests grow this much wood in:

~2 minutes

C

Carbon stored in the wood:

~469 metric tons of CO₂



Avoided greenhouse gas emissions:

~183 metric tons of CO₂



Total potential carbon benefit:

~653 metric tons of CO₂



138 cars off
the road for
a year



Energy to
operate 69
homes for a
year

Material Sourcing



SUSTAINABLE
NORTHWEST

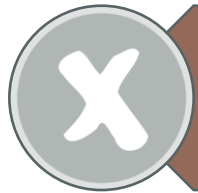
Construction Planning



Construction Estimate

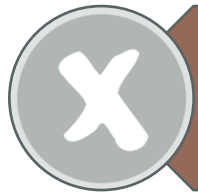


Lumber Mill / Mass Timber
Manufacturer



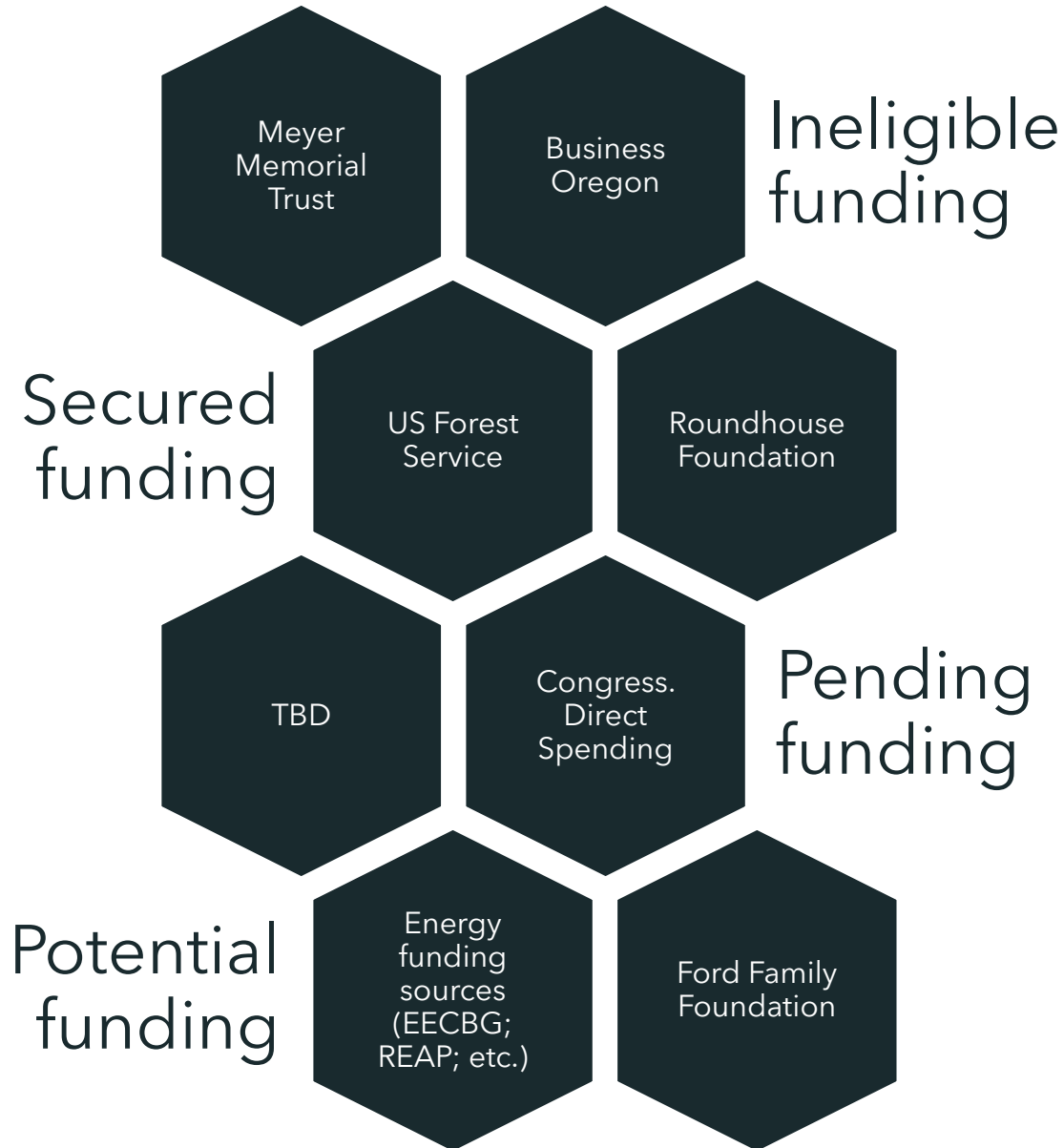
Funding

← **CURRENT STAGE**



Construction Contractor(s)

To be awarded per Public Contracting Laws
** Experienced local contractors given priority



Funding

Long-Term Aspirations

Site Plan



SITE ELEMENTS:

1. Access Drive and Parking Lot
2. Proposed Building
3. Septic System
4. Equipment Storage & ATV/Trailer Shed
5. Chicken Coop
6. Well/Pump House
7. Greenhouse
8. Community Garden
9. Fruit Trees
10. Interpretive Trail (BLM)
11. Site Fence



Thank you

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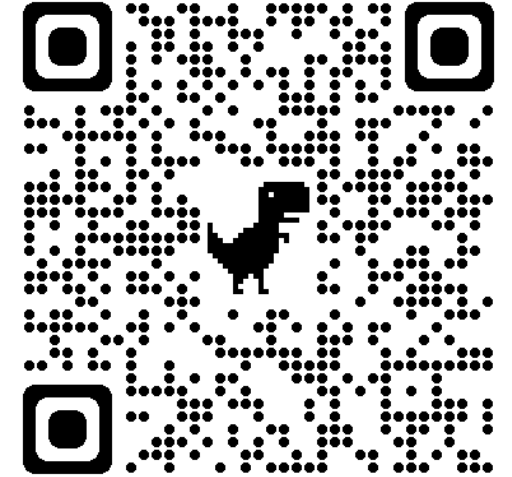
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← Juniper sheathing

↑ Mass timber exposed



Latest still rendering,
looking east