

# Empowering Maine's Rural Workforce to Advance Forest and Community Resiliency

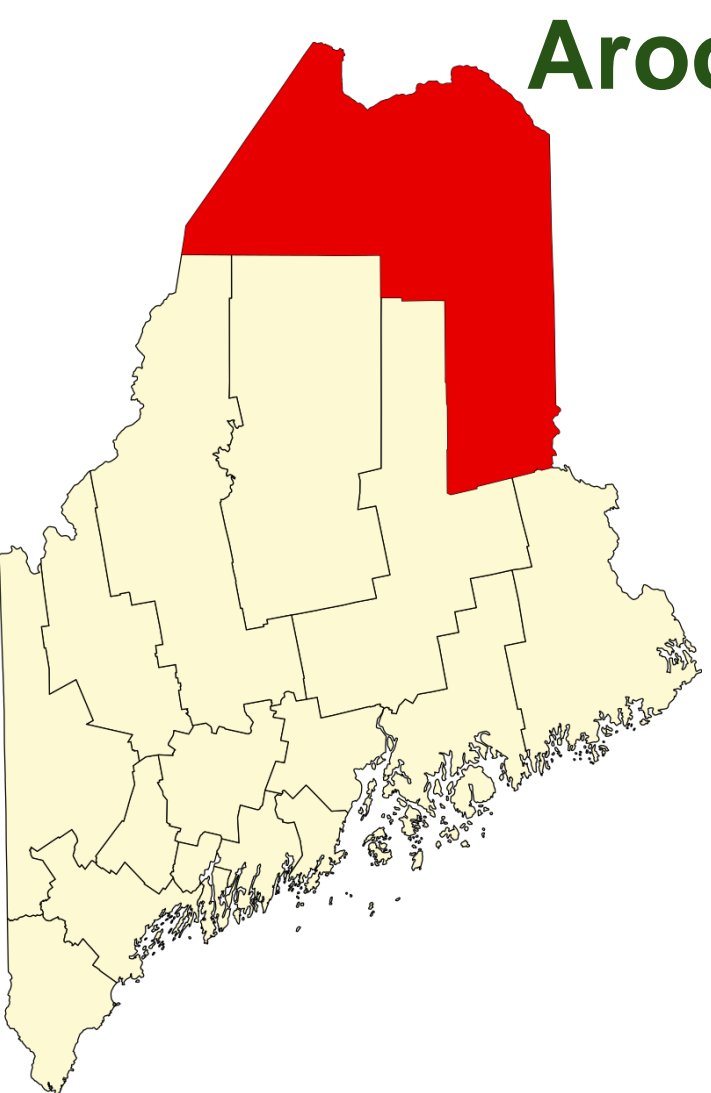
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## Introduction

- A socioeconomically and ecologically conscious workforce is imperative for building climate resilient and sustainable forests and communities
- Co-productive relationships among scholars and community stakeholders are key to success<sup>1</sup>



## Aroostook County<sup>2,3,4</sup>

- Population: 67,000
- Age > 65: 26%
- Mean per capita income: \$31k/yr
- Poverty: 15%
- Major industries
  - Agriculture
  - Forestry
  - Tourism
  - Manufacturing



## Rural Issues<sup>5</sup>

- Climate change threats
- “Green” economy transition
- Workforce preparation for current + emerging careers
- Infrastructure
- Access to education
- Community networking

## Objectives

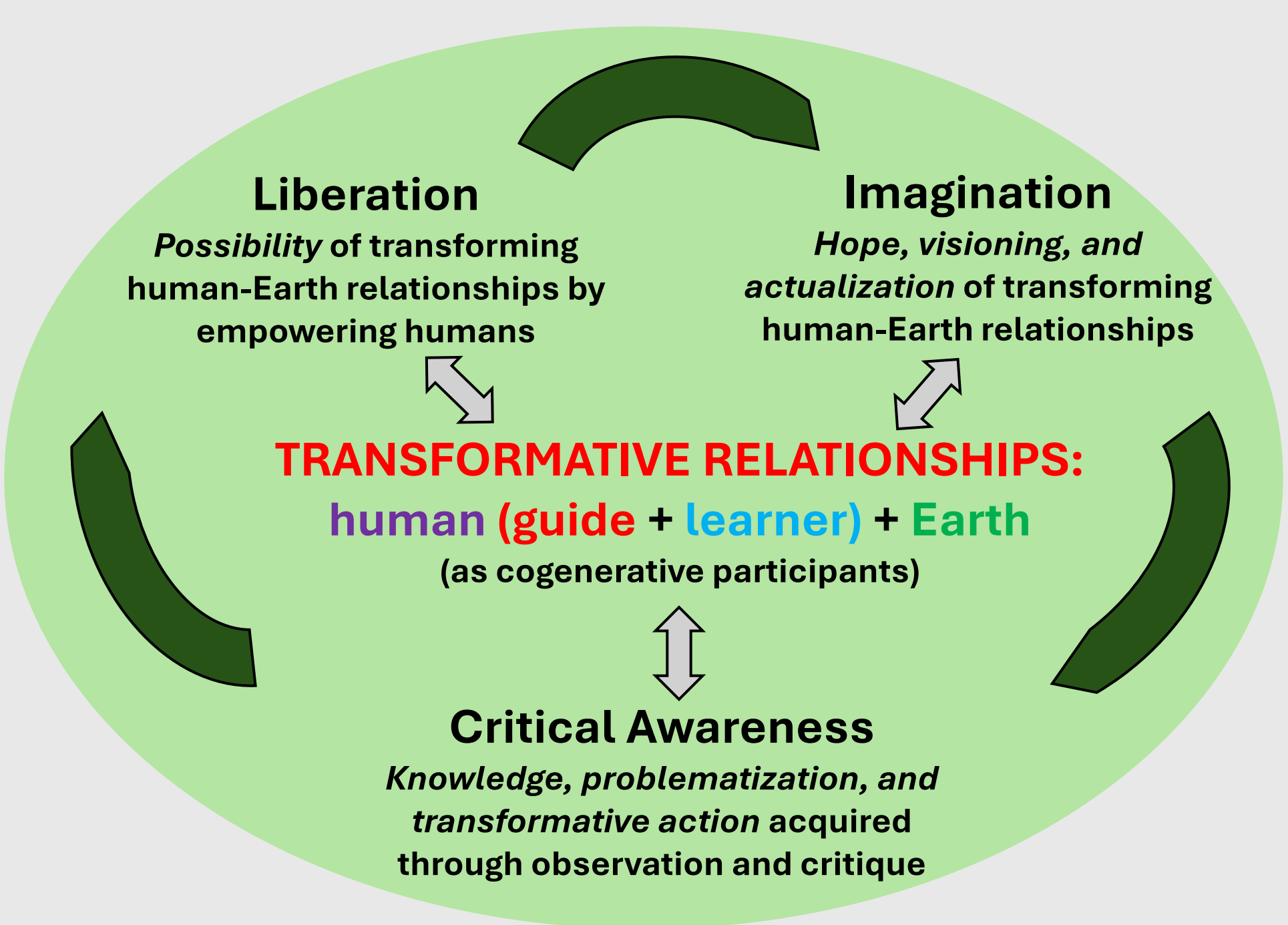
Over next 4 years, UMFK faculty will engage 20+ undergraduate interns in authentic research

- Build STEM career skills
- Solve forestry problems
- Demonstrate social and learning impacts of a novel mentoring framework
- Build relationships among diverse stakeholders
- Publish scholarly articles with student coauthors



## New ecopedagogy of human-Earth relationships<sup>6</sup>

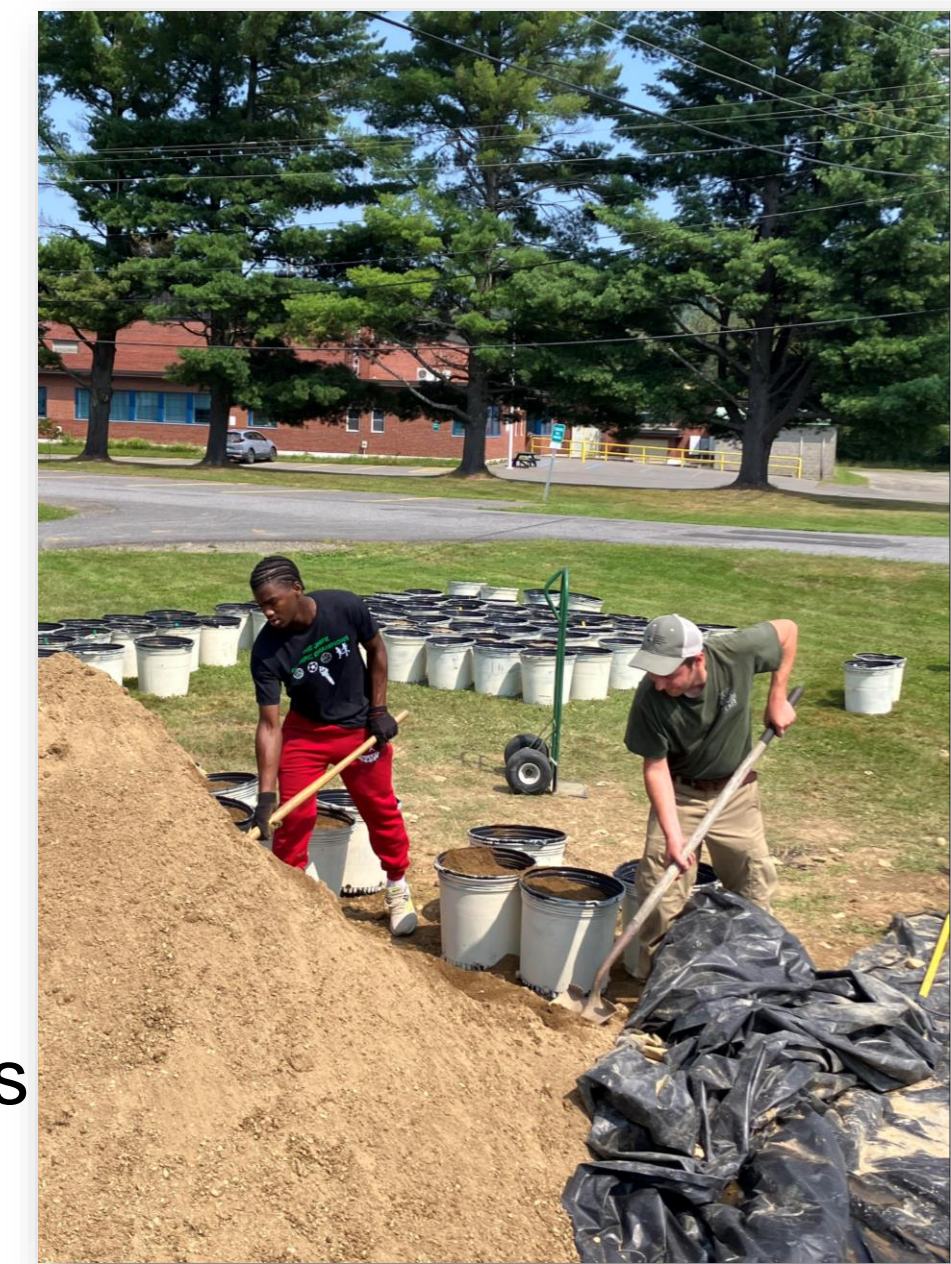
An experiential mentoring and learning framework



## Internships with authentic research experiences

How can transforming human-Earth relationships support healthy forests?

- Promote mutualistic relationships among humans and Earth
- Expand human networks within/among Maine's rural communities
- Confer foundational STEM knowledge through practice
- Inspire + include marginalized people in STEM careers
- Teach relevant workforce skills for current + emerging green industries
- Cultivate agency making communities resilient to global change threats



## Broader Impacts

- Increased recruitment + retention of socioeconomically marginalized people in rural STEM workforce
- Insights into building climate-resilient forests and rural communities
- Increased resilience of rural communities to economic and global change threats
- Shift cultural paradigms toward mutualistic human-Earth relationships



## Challenges + Opportunities

- *Student recruitment*: Need UMFK students and interns
- *Human resources*: Limited capacity for project leadership
- *Institutional buy-in*: Aligning UMFK + UMS + Maine interests
- *Continuity*: Plan for funding cycles + personnel turnover



## Sponsors & Partners



Maine Economic Improvement Fund



## References

1. Rubert-Nason et al. 2021. Rethinking Ecology. DOI: [10.3897/rethinkingecology.6.64103](https://doi.org/10.3897/rethinkingecology.6.64103)
2. U. S. Census Bureau. 2017. Aroostook County, Maine. AFN120217
3. Maine Office of Business Development. 2022. <https://maine.gov/decd>
4. D. Benbennick. 2006. Aroostook County. <https://commons.wikimedia.org>
5. Maine Economic Development Strategy 2020-2029. 2019. <https://maine.gov/decd>
6. Rubert-Nason, K.F. 2023. A new ecopedagogy of human-Earth relationships: Praxis and possibility. Soc. Human Ecol. Natl. Mtg., Tucson, AZ, Nov. 5-8, 2023