



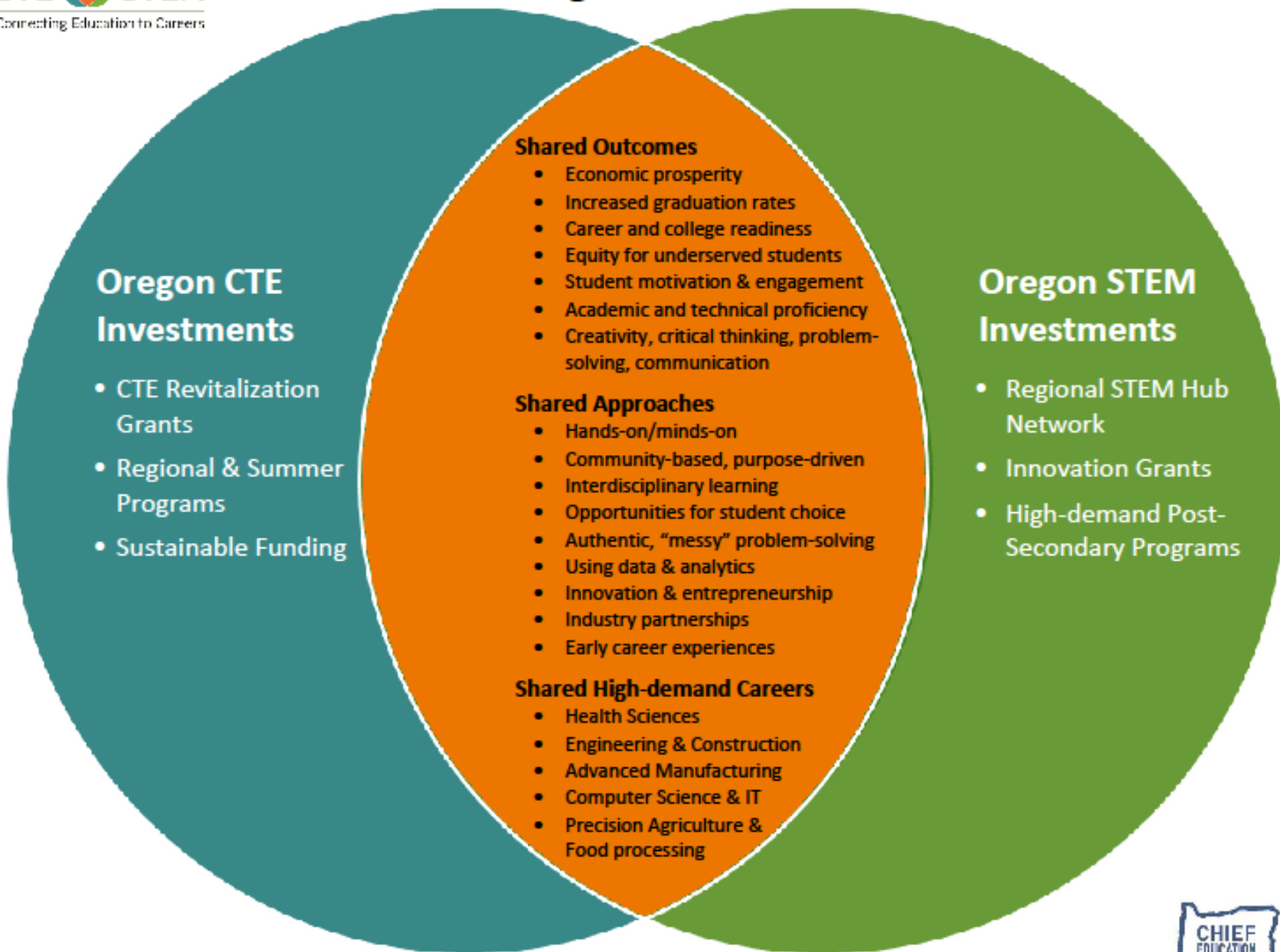
STEM Investment Council UPDATE

Lindsey Capps
Chief Education Officer (Acting)

Jim Piro
Chair, STEM Investment Council

Mark Lewis
STEM Policy Director

Connecting Education to Careers



STEM Investment Council

Chief Education Officer

Higher Education
Coordinating Commission

Universities
Community Colleges

Oregon Department of
Education

Early Learning Division

Youth Development
Council

STEM Investment Council

- Develop STEM Strategy
- Engage industry & other partners
- Guide & support innovation initiatives
- Recommend investments and policies
- Define outcomes & metrics
- Monitor impact of investments

Advisory Committee



- Established by HB 2636 (2013)
- Advance Science, Engineering, Technology and Mathematics (STEM) education goals to drive economic growth:
 - By 2025, **double** number of students proficient in math and science
 - By 2025, **double** post-secondary STEM degrees and certificates



High Quality Jobs

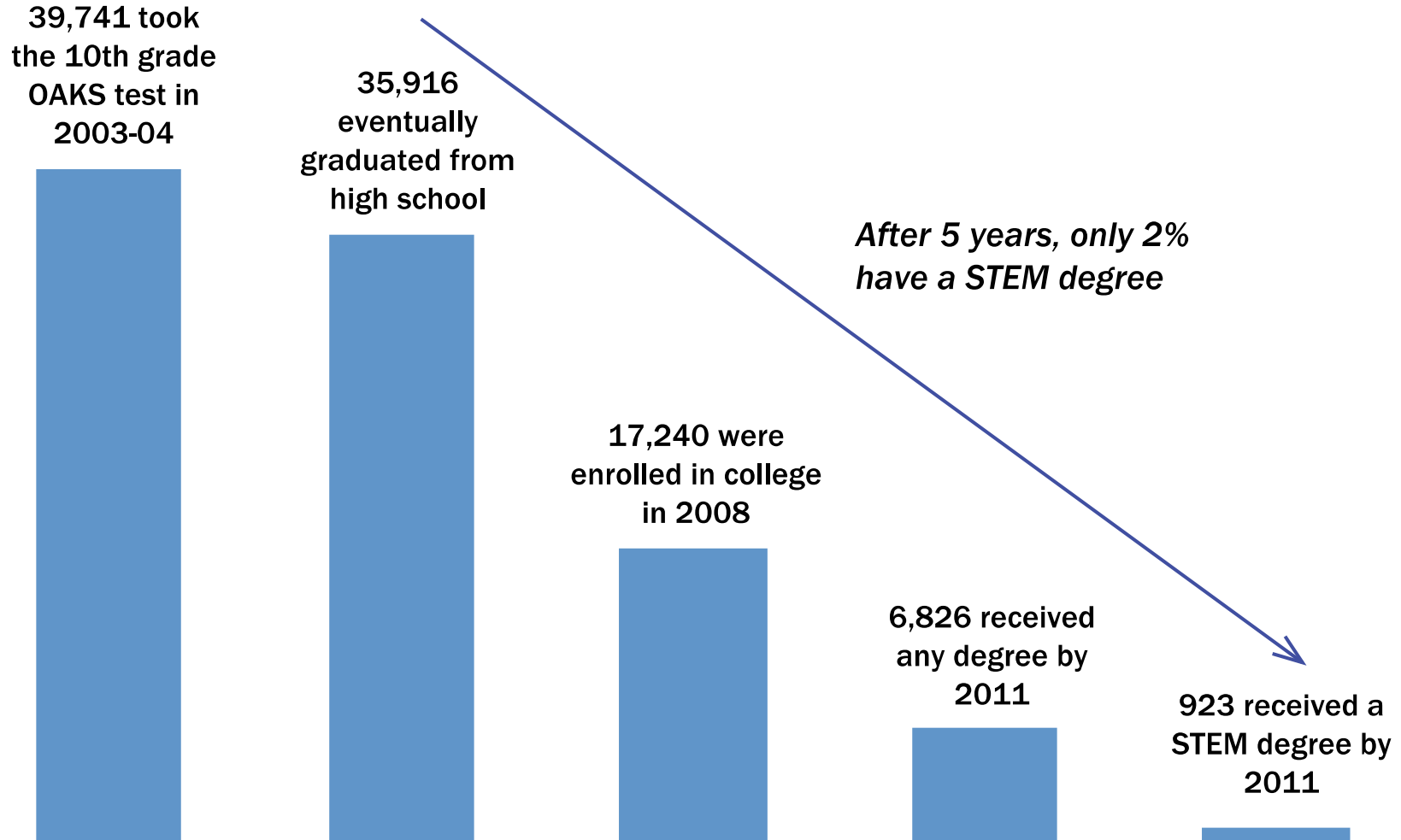
	Non-STEM Job	STEM Job	% Difference
High School Diploma or Less	\$15.55	\$24.82	60%
Some College or Associate Degree	\$19.02	\$26.63	40%
Bachelor's Degree Only	\$28.27	\$35.81	27%
Graduate Degree	\$36.22	\$40.69	12%

STEM = higher lifetime earnings (~25% more on average)

- Higher state tax revenues
- More \$ in the economy
- Family wage jobs and break cycle of poverty
- Decreased reliance on social services



STEM Outcomes for the Class of 2005



Source: ECONorthwest analysis of ODE and National Student Clearinghouse data.



Strategic Planning

- Draft available for public comment
- Convening public focus groups
- Engaging with professional organizations
- Final STEM Investment Council Action this Spring
- State Board of Education and Higher Education Coordinating Commission

Data & Metrics

- Defined STEM jobs
- Defining STEM degrees and certificates
- Identified initial student, educator, and systems metrics
- Gathering baseline data for Strategic Plan

Communications

- Communications framework developed



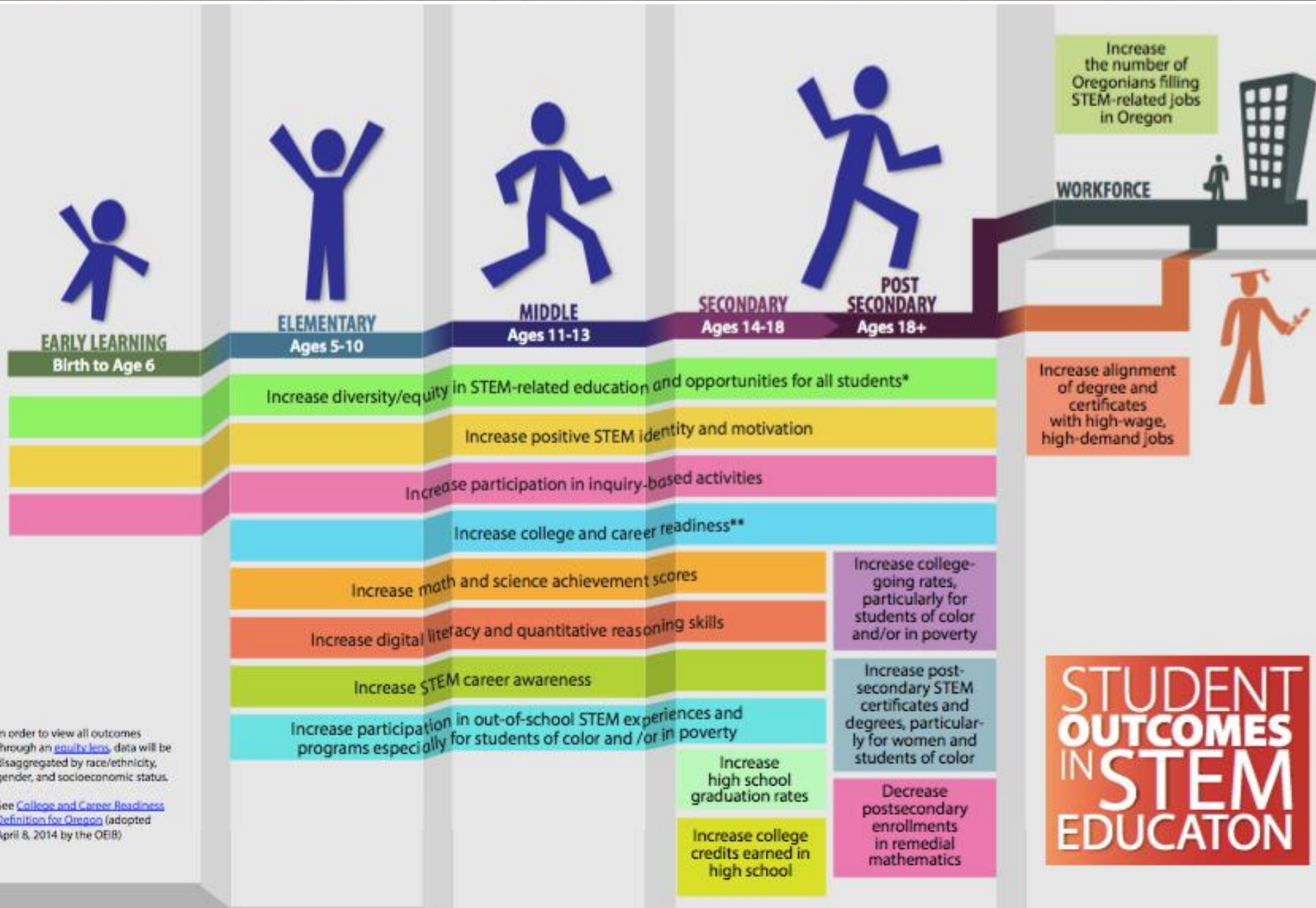
Vision: To build an inclusive, sustainable, innovation-based economy by reimagining and transforming how we educate and empower individuals and communities.

GOALS

1. **Inspire and empower our students** to develop the knowledge, skills, and mindsets necessary to thrive in a rapidly-changing, technologically rich, global society.
2. **Ensure equitable opportunities and access** for every student to become a part of an inclusive innovation economy.
3. **Continuously improve the effectiveness**, access to resources, and the number of formal and informal **STEM educators**.
4. **Create sustainable and supportive conditions** to achieve STEM outcomes aligned to Oregon's economic, education, and community goals.



Student Outcomes



* In order to view all outcomes through an [equity lens](#), data will be disaggregated by race/ethnicity, gender, and socioeconomic status.

** See [College and Career Readiness Definition for Oregon](#) (adopted April 8, 2014 by the OEIB)

What?

- Collaborative partnerships: K-12, workforce boards, economic dev, post-secondary, out of school programs, business/industry, civic leaders.

Why?

- Take collective responsibility for education in and out of school
- Breakdown systemic isolation at all levels
- Support regional solutions to regional needs
- Accelerate spread of promising practices across state
- Increase connections between the field with policy and research

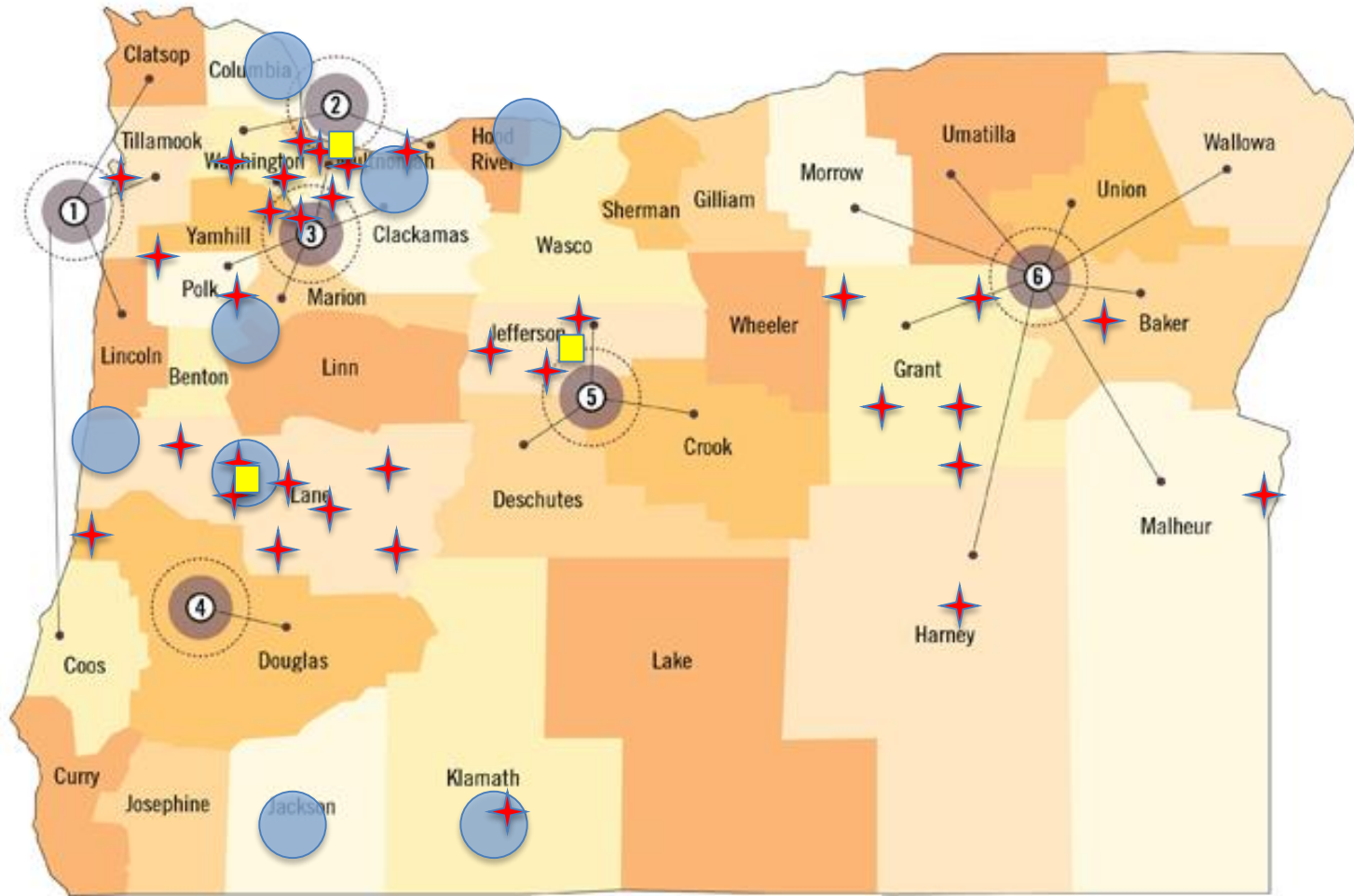
How?

- Educator professional development
- Industry partnerships (internships, mentoring, etc.)
- Aligning assets & programs to goals
- Bridging programs
- Access to quality out of school experiences


One Hub leveraged
state funding:


\$600K → \$3.4M





 Funded STEM Hubs, \$2.8m

 STEM/STEAM/CTE grants, \$2.5m

 Un-funded Hub Applicant

 STEM Lab Schools, \$2.2m

HB 3072

Regional STEM Hubs, \$5m

- ❖ “Backbone” Coordination functions
- ❖ Program Funding
- ❖ Scale-up Initiatives

STEM Innovation Grants, \$4.75m

- ❖ Mathematics
 - Pilot adaptive learning platforms
 - “Math in real life” – contextualized professional development
- ❖ Digital Literacy & Computer Science
- ❖ Out of School network and programs

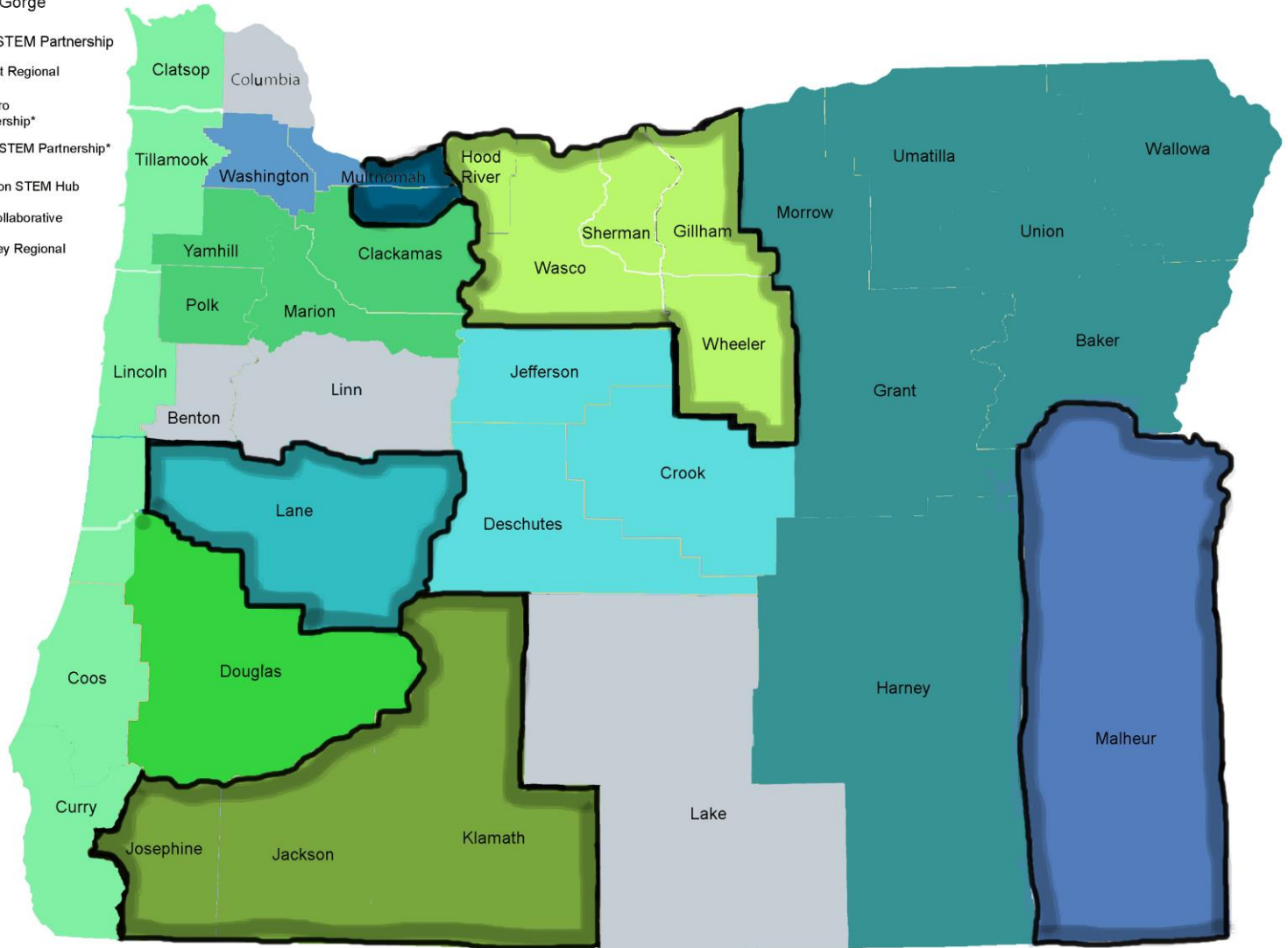
Post Secondary Success, \$2m

- ❖ Underserved and underrepresented students
- ❖ Support services: Recruitment, retention, attainment



Oregon's STEM Hubs 2015-2017

- Frontier Oregon
 - Lane County
 - Southern Oregon STEM Hub
 - Columbia Gorge
 - East Metro STEM Partnership
 - Oregon Coast Regional STEM Hub
 - Portland Metro STEM Partnership*
 - South Metro STEM Partnership*
 - Central Oregon STEM Hub
 - GO STEM Collaborative
 - Umpqua Valley Regional STEAM Hub
- *Hubs Overlap



Questions?
