CHIEF EDUCATION OFFICE

STEM Investment Council
UPDATE

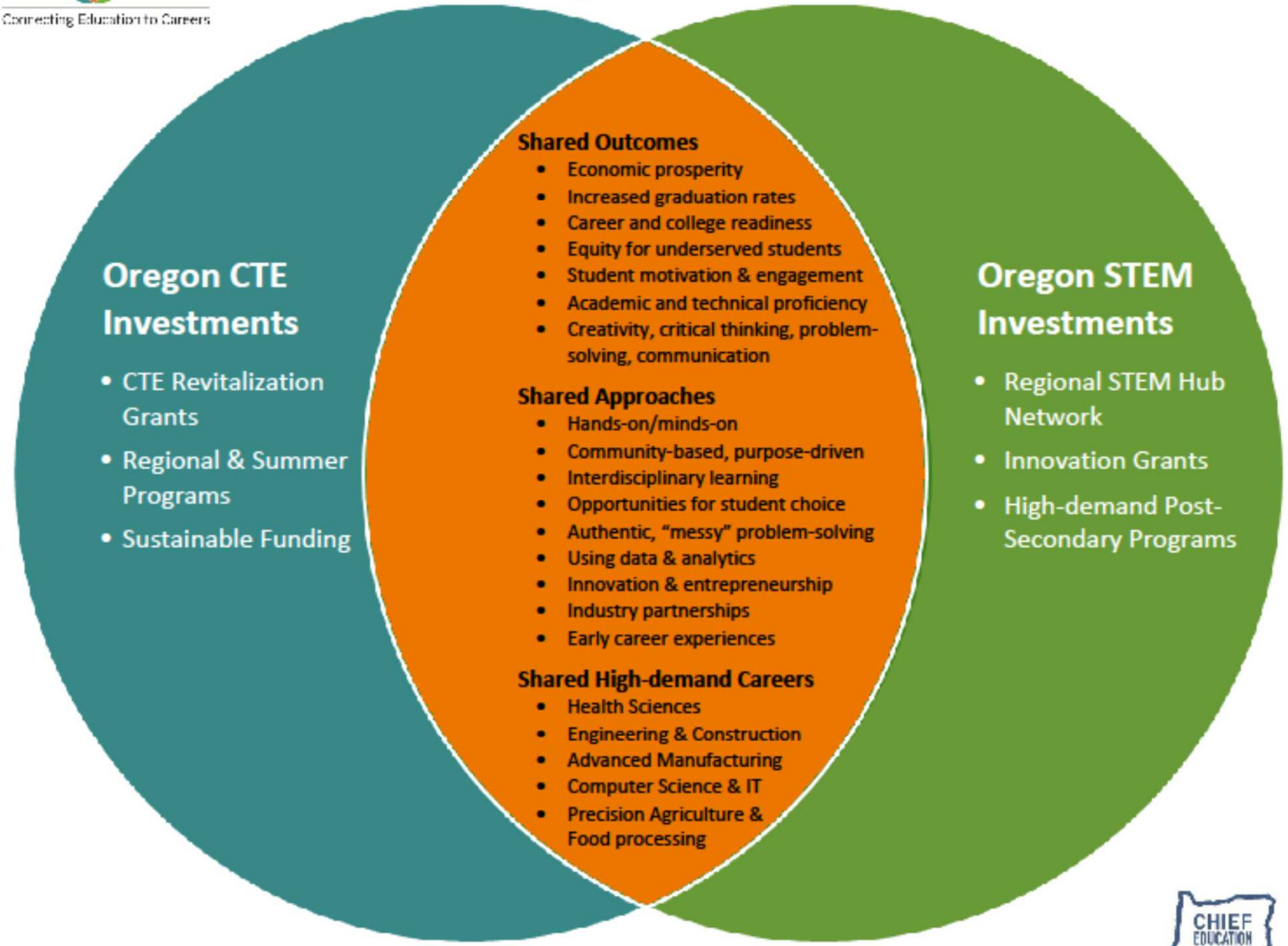
Lindsey Capps
Chief Education Officer (Acting)

Jim Piro
Chair, STEM Investment Council

Mark Lewis
STEM Policy Director

CTE STEM
Connecting Education to Careers

Connecting Education to Careers



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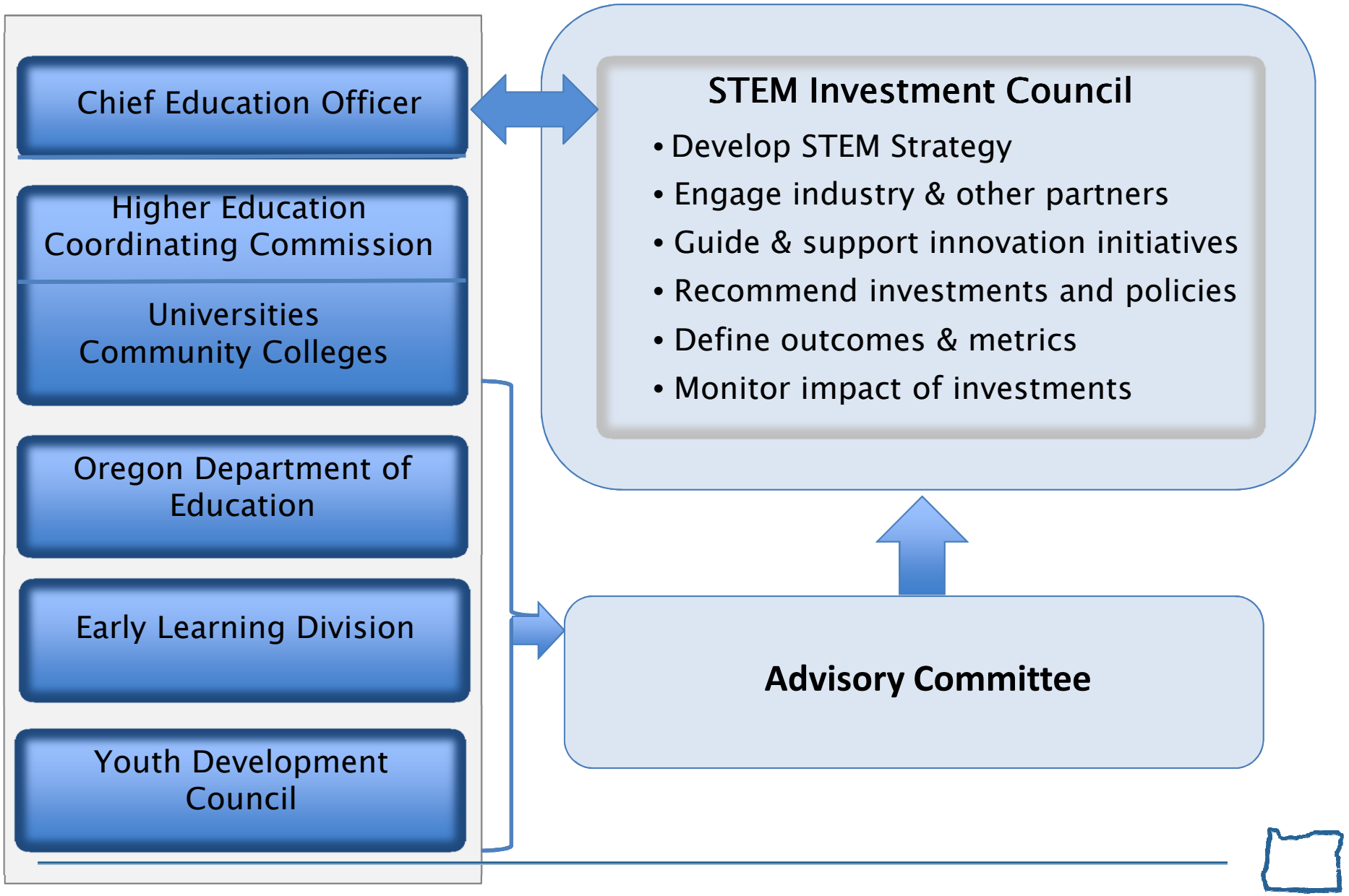
Oregon Department of Education | Chief Education Office 2015

STEM Investment Council



- 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

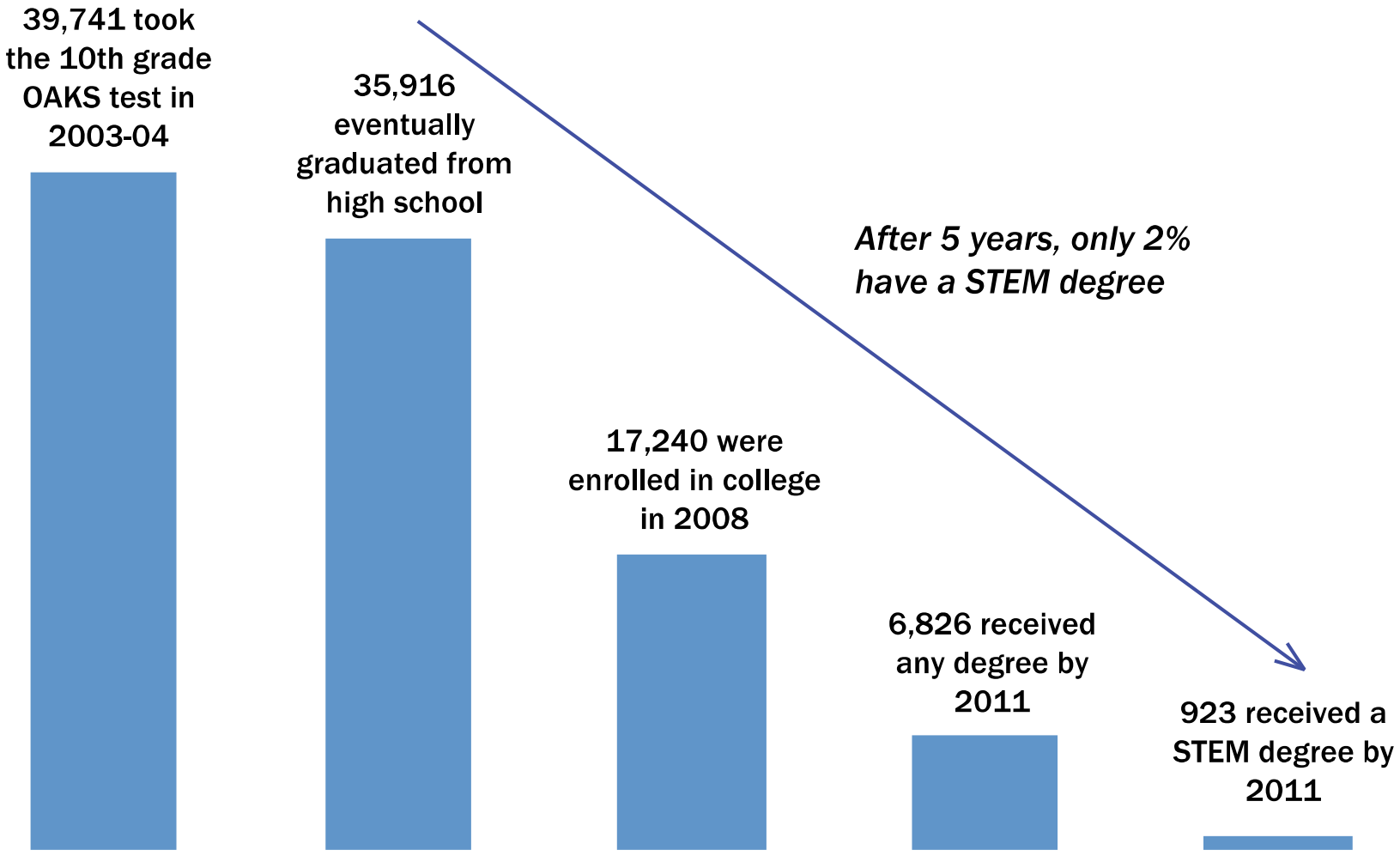
High Quality Jobs

	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

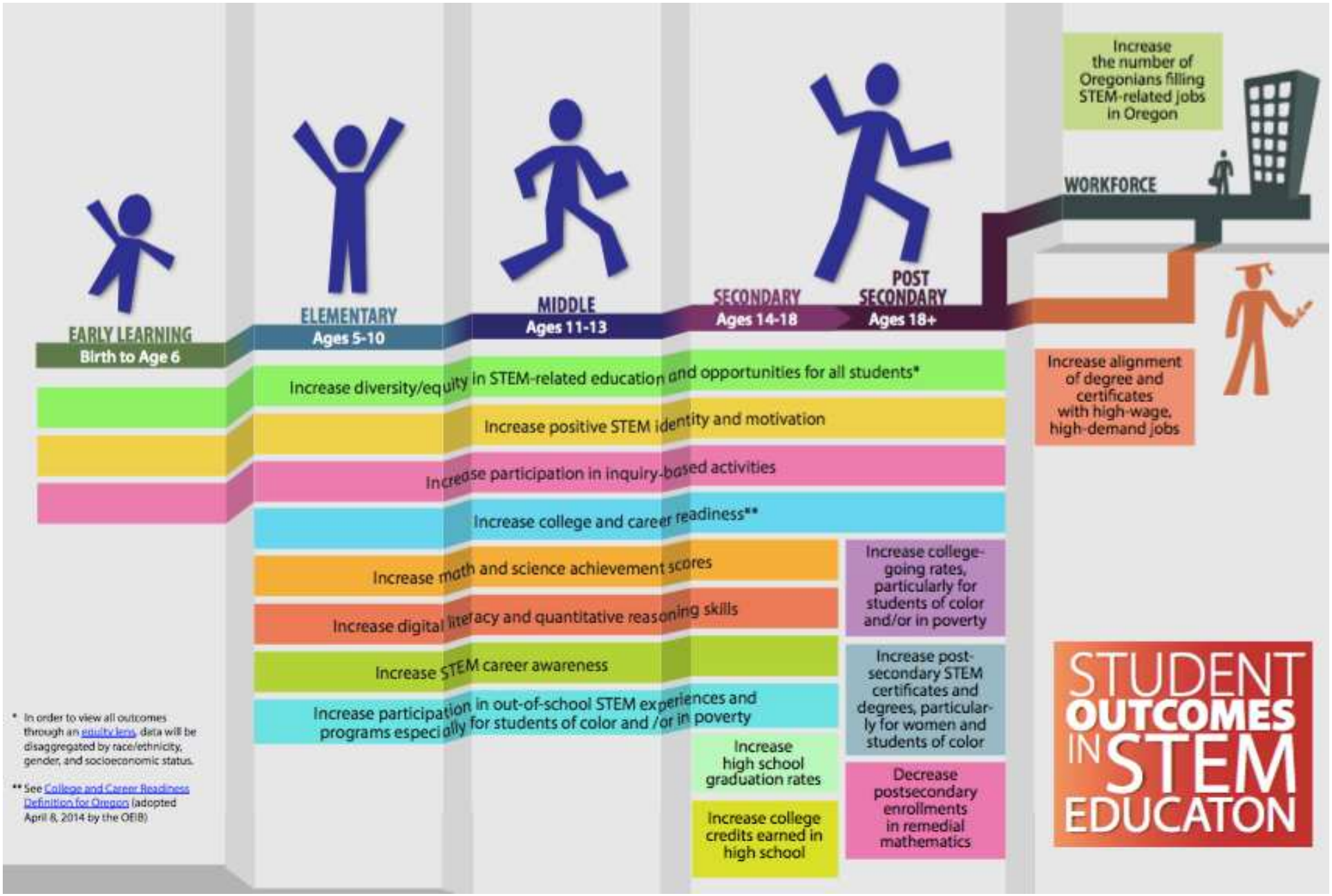
1. **Inspire and empower our students** to develop the knowledge, skills, and mindsets necessary to thrive in a rapidly-changing, technologically rich, global society.

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



What's a STEM Hub?

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

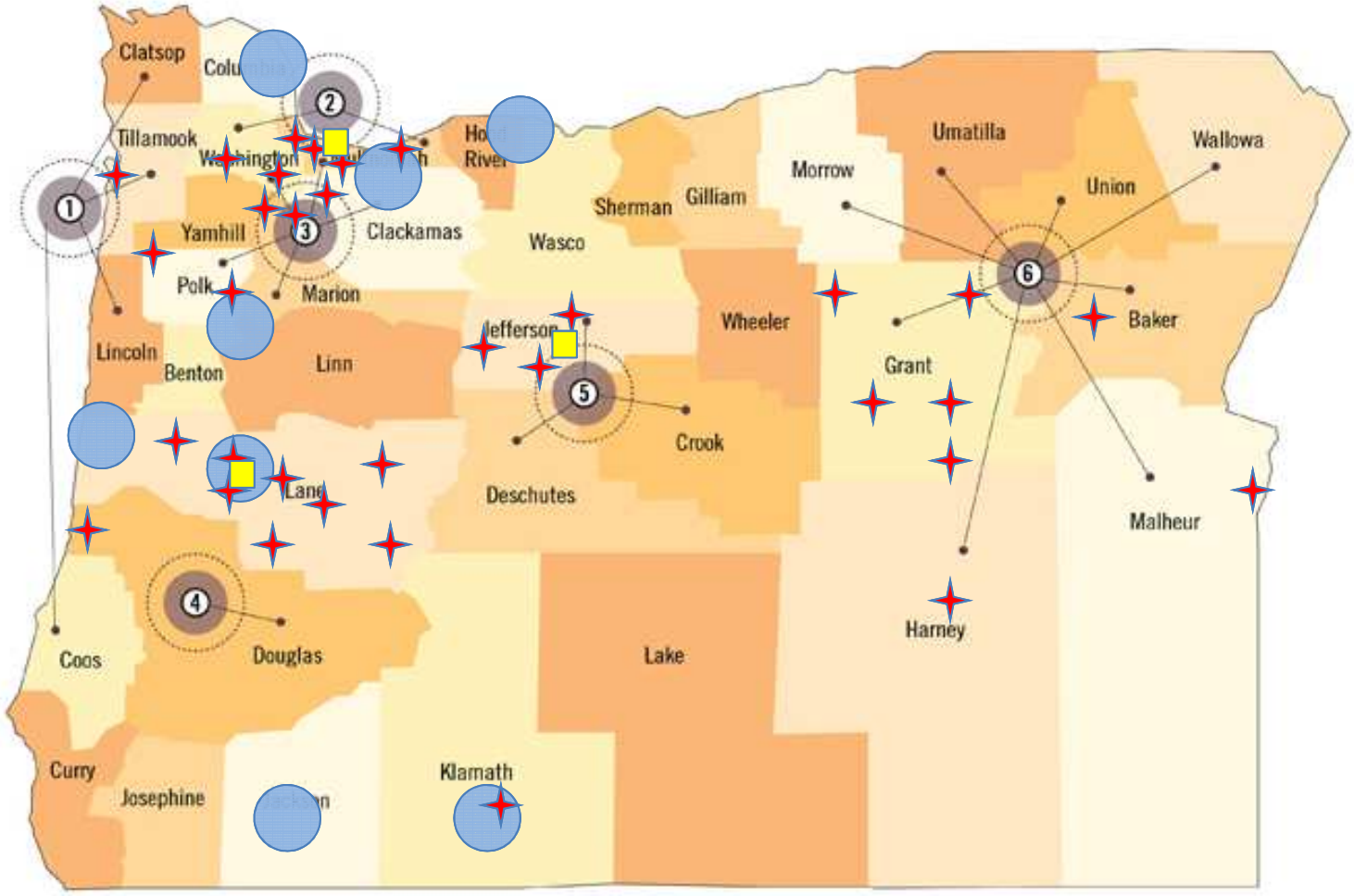
How?

- 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

2013-15 STEM Investments



Funded STEM Hubs, $2.8m

Un-funded Hub Applicant

STEM/STEAM/CTE grants, $2.5m

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

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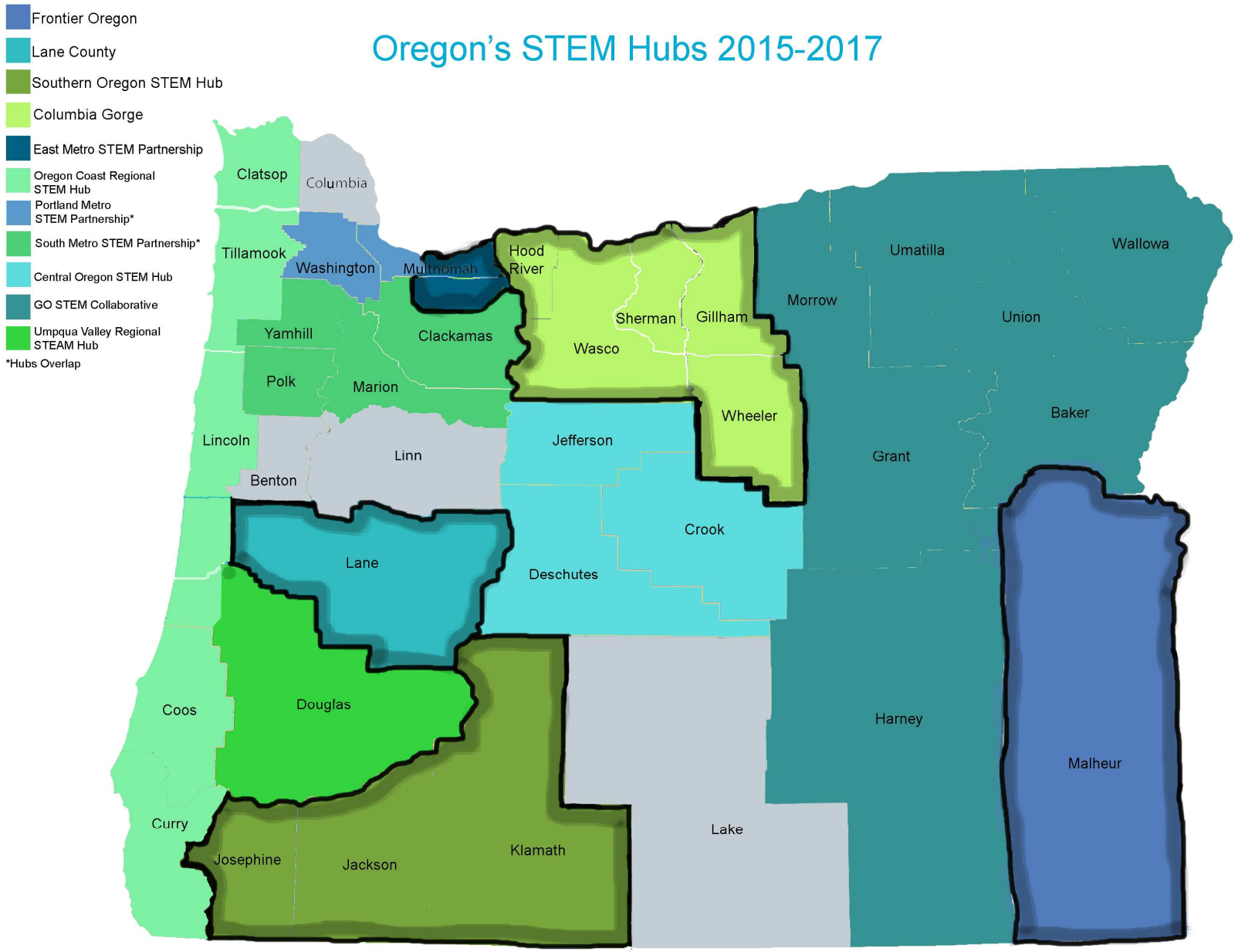
Oregon's STEM Hubs 2015-2017



Questions?