



March 8, 2019

Graduate Education Summit





STRATEGIC VISION AND VALUES

**Fostering
Learner
Success**

**Growing and
Expanding
Partnerships**

**Creating and
Innovating for
Maine and Beyond**





Building a Vision: **Timely**

November 15 – February 28

Articulate Strategic Values

March 1 – April 30

- Develop Goals
- Develop Strategies
- Create a Dashboard of Key Indicators
- UMS R&D Plan

May

Present to University of Maine System Board of Trustees



UMS R&D Plan

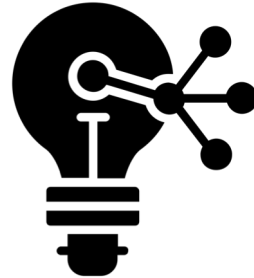
DRAFT Goals to Drive the Expansion of UMS Research and Development

Goal 1



Make the State of Maine the most desirable state in the nation in which to live by 2030. Address this Grand Challenge for Maine by creating solutions through R&D that can be applied locally, nationally, and globally.

Goal 2



Enhance Maine's economic viability by increasing capacity across all sectors statewide to invest in R&D.

Goal 3



Generate the knowledge-growing workforce required for Maine's future, expanded R&D enterprise and innovation economy.



Goals for Today



- Develop **GOALS** for graduate education at UMaine
- Develop **STRATEGIES?**
 - Expanding enrollment capacity in existing programs
 - Developing new degree and non-degree programs
 - Identifying impediments to enrollment growth and quality assurance
 - Exploring ideas for addressing impediments



Plan for Today



- **Why** should UMaine expand graduate education?
- **Where** should UMaine expand graduate education?
- **How** should UMaine expand graduate education?



Why should UMaine expand graduate education?

- Board of Trustees' Strategic Priorities



UMS BOT Strategic Priorities

Advancing Workforce
Readiness and Economic
Development

Increasing Maine
Educational Attainment

Aligning Academic
Programs and Innovation
to Drive Student Success
and Employer
Responsiveness

Maintaining
Competitiveness and
Sustainability to Meet
Critical State Needs



Why should UMaine expand graduate education?



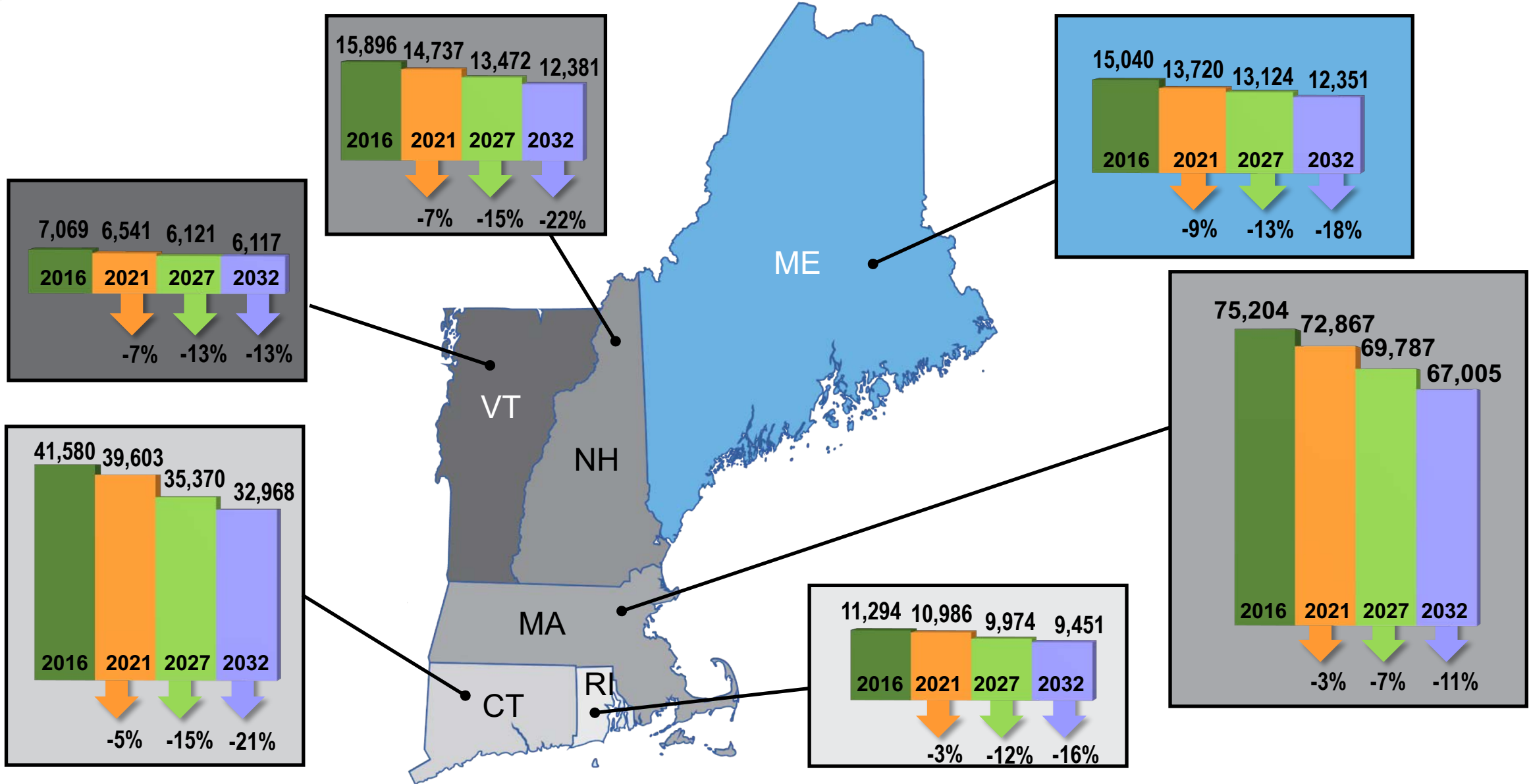
Good for UMaine



- Revenue
 - Undergraduate enrollment will decrease



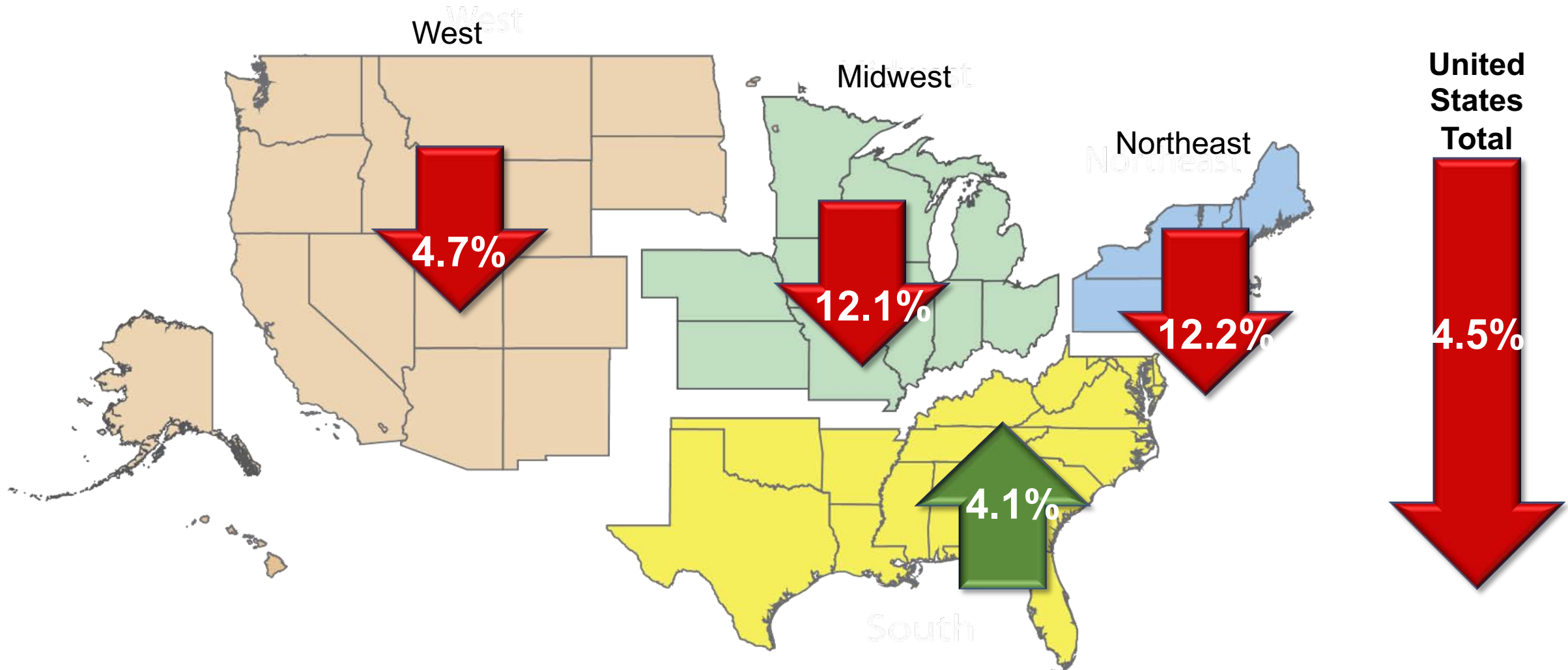
Projected High School Graduate Decline 2016-2032 (-16%)





High School Graduate Trends

20-year Projections from School Year 2011-2012 through 2031-2032





Why should UMaine expand graduate education?

Good for UMaine



- Revenue
 - Undergraduate enrollment will decrease
- Expand Research & Development
 - Goal 1:** Make the State of Maine the most desirable state in the nation in which to live by 2030. Address this Grand Challenge for Maine by creating solutions through R&D that can be applied locally, nationally, and globally.
 - Goal 2:** Enhance Maine's economic viability by increasing capacity across all sectors statewide to invest in R&D.
 - Goal 3:** Generate the knowledge-growing workforce required for Maine's future, expanded R&D enterprise and innovation economy.
- Elevate Status
 - Carnegie classification
 - US News & World Report



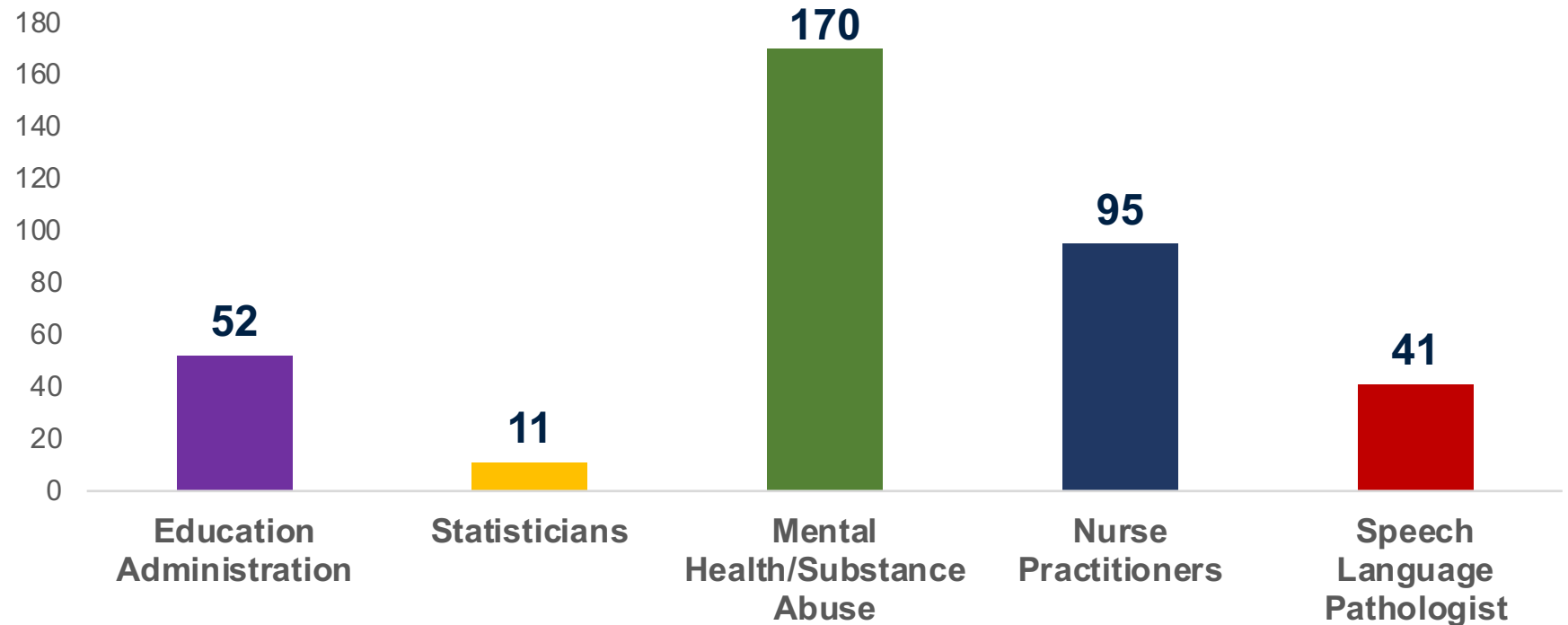
Why should UMaine expand graduate education?

**Good for
Maine**



Projected job openings requiring graduate degrees

Examples - projected annual job openings in Maine requiring a graduate degree over next 10 years





Why should UMaine expand graduate education?

Good for Maine



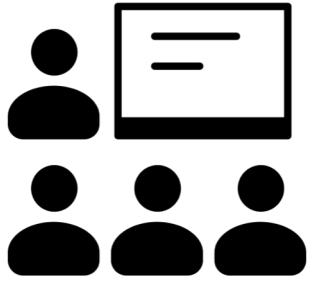
The impact of Research and Development on Economic Growth and Productivity in U.S. States “Research and development (R&D) has a large effect on both state output and total factor productivity in the long run.” (Blanco, Gu, & Prieger (2015) Southern Economic Journal.)





Why should UMaine expand graduate education?

Good for Students



- Income increase
- Opportunity expansion





Why should UMaine expand graduate education?



- Good for UMaine
 - Diversify our revenue sources
 - Fulfill our research and development mission
 - Elevate our national status
- Good for Maine
 - Educated workforce
 - Grow economy through R&D
- Good for Maine students
 - Increase their opportunities
 - Increase their earning potential



Where should UMaine expand graduate education?



Where should UMaine expand graduate education?

Where we have established strengths?

Signature Areas

Forestry & the Environment



Marine Sciences



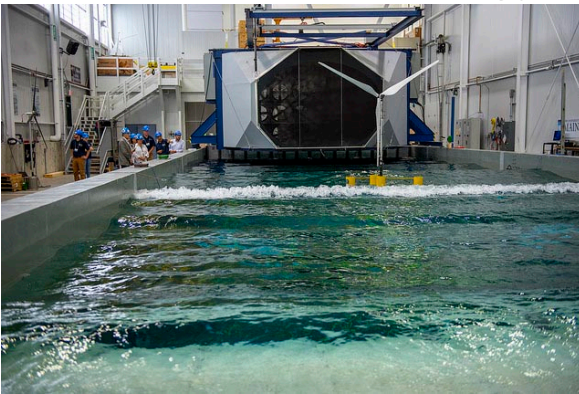
STEM Education



Climate Change



Advanced Materials for
Infrastructure & Energy



Engineering



Honors





Where should UMaine expand graduate education?

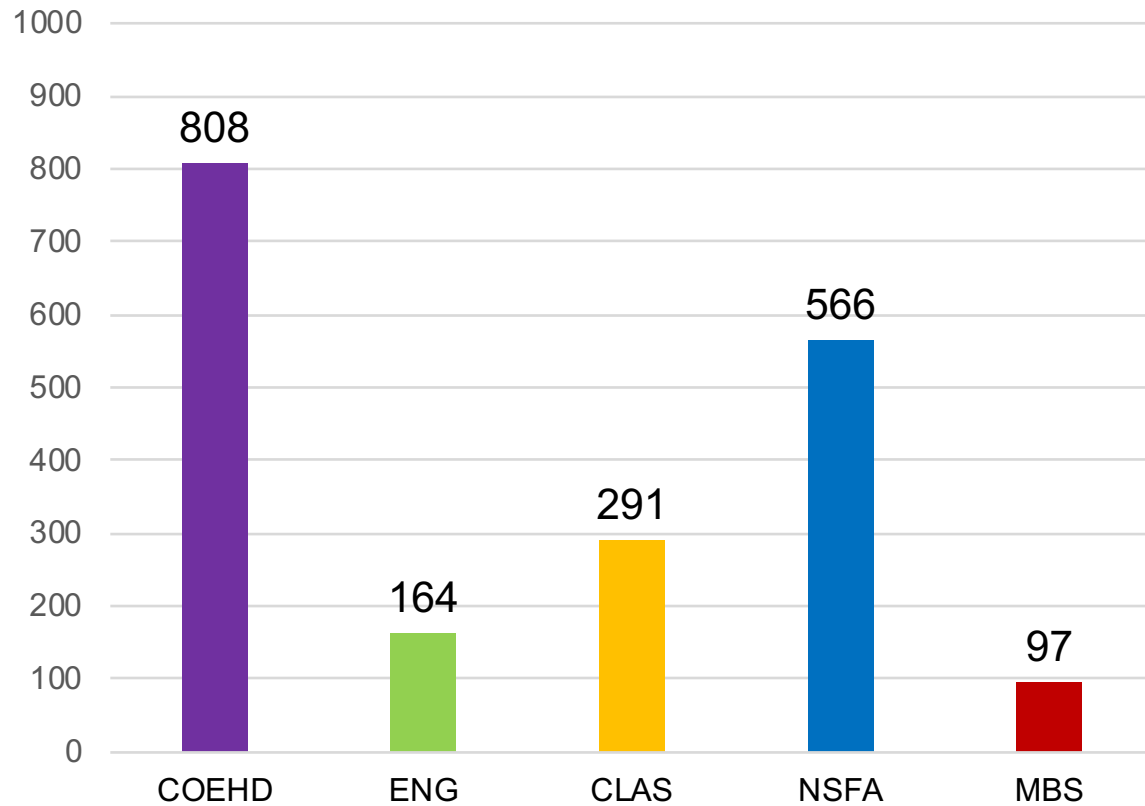
- Where we have established strengths?
- Examine recent enrollment patterns?



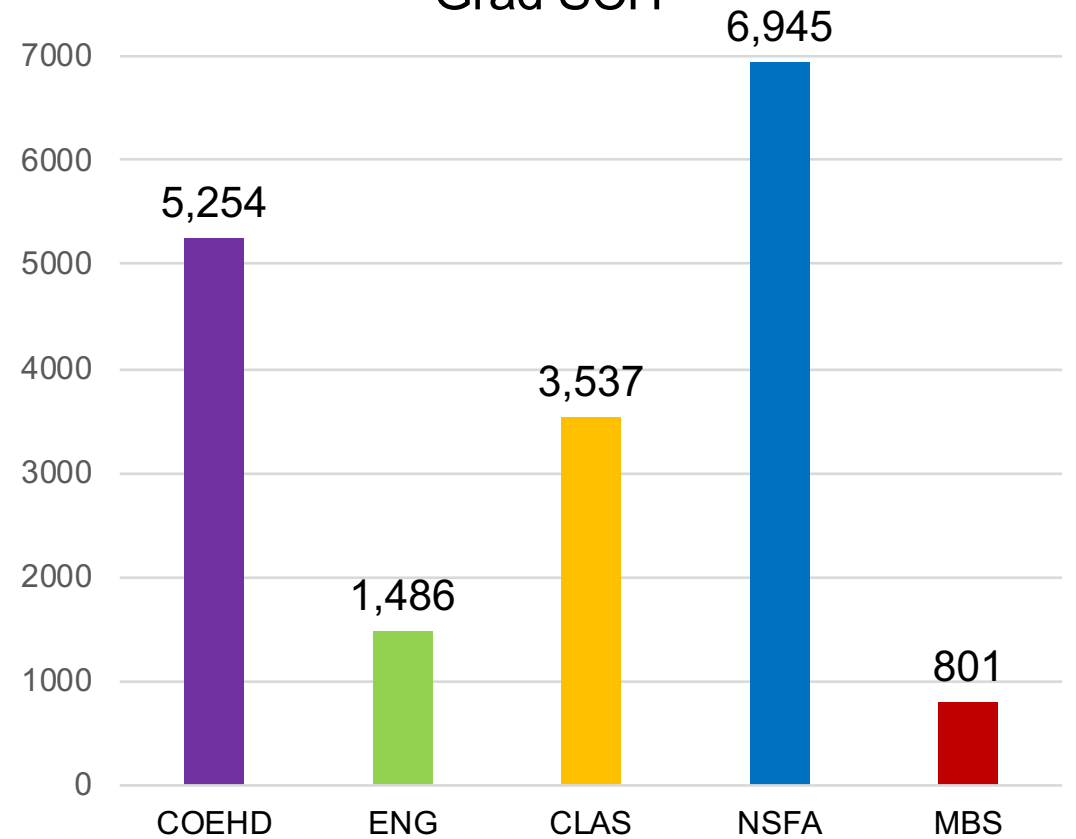


UMaine Graduate Enrollment 2017-2018

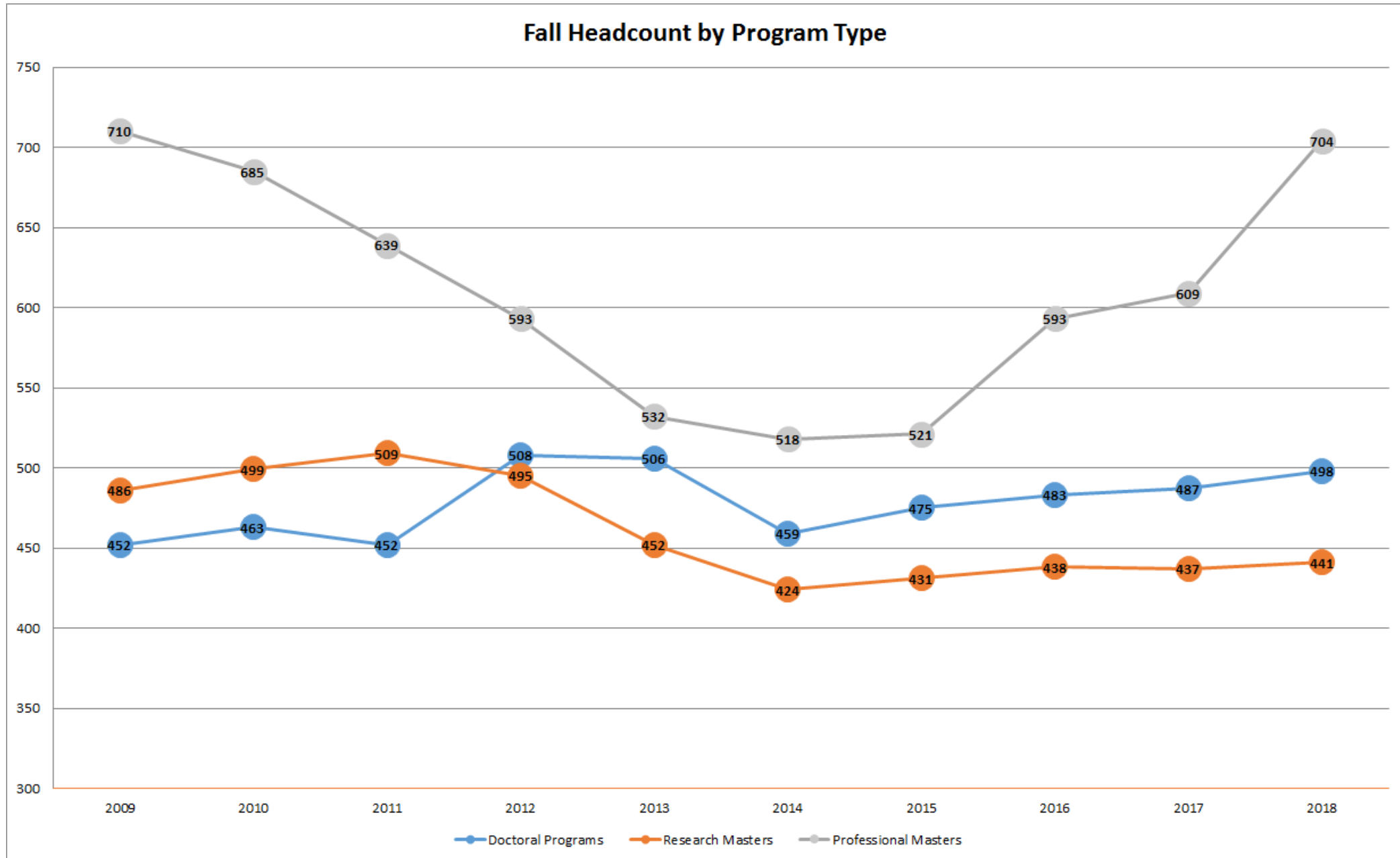
Grad Enroll – Head Count



Grad SCH



Enrollments in Professional and Research Graduate Programs





Where should UMaine expand graduate education?

- Where we have established strengths?
- Examine recent enrollment patterns?
- Where the jobs are and where they are expected to be?





Where should UMaine expand graduate education?



- Where we have established strengths?
- Examine recent enrollment patterns?
- Where the jobs are and where they are expected to be?
 - Data Science
 - Data management
 - Data analytics
 - Informatics
 - Health Care
 - Providers
 - Managers



Where should UMaine expand graduate education?

- Where we have established strengths?
- Examine recent enrollment patterns?
- Where the jobs are and where they are expected to be?
- Where there is student demand and where we expect it to be?





Where should UMaine expand graduate education?



- Where we have established strengths?
- Examine recent enrollment patterns?
- Where the jobs are and where they are expected to be?
- Where there is student demand and where we expect it to be?
 - Examples:
 - Masters of Science in Nursing
 - Masters of Science in Data Science
 - Master of Science in Health Administration
 - Master of Science in Health Informatics
 - MBA with specialized tracks.



Where should UMaine expand graduate education?

- Where we have established strengths?
- Examine recent enrollment patterns?
- Where the jobs are and where they are expected to be?
- Where there is student demand and where we expect it to be?
- Where there are non-academic jobs for graduates of research programs?





Break Out Discussion #1



- What areas of graduate education should UMaine expand?
 - Why those areas?
- How do we prioritize areas for growth?
- What are the impediments to expansion of graduate education at UMaine?



How should UMaine expand graduate education?

Professional programs

- UMaineGOLD
(**G**raduate **O**n**L**ine **D**egree)
 - Matching students needs in delivery mode
 - Targets growth in high demand areas
 - Best practice standards for online education
 - Revenue sharing
($\$200$ per student, per 3 credit hour course)





How should UMaine expand graduate education?

Professional programs

- UMaineGOLD
(**G**raduate **O**n**L**ine **D**egree)
- UMaineTOPS
(**T**ransformational **O**pportunities for **P**rofessional **S**uccess)
 - Expand existing or develop new programs in high demand areas
 - Best practices with respect to enrollment, student support, and curriculum
 - Revenue sharing (\$200 per student, per 3 credit hour course)



How should UMaine expand graduate education?

Research programs

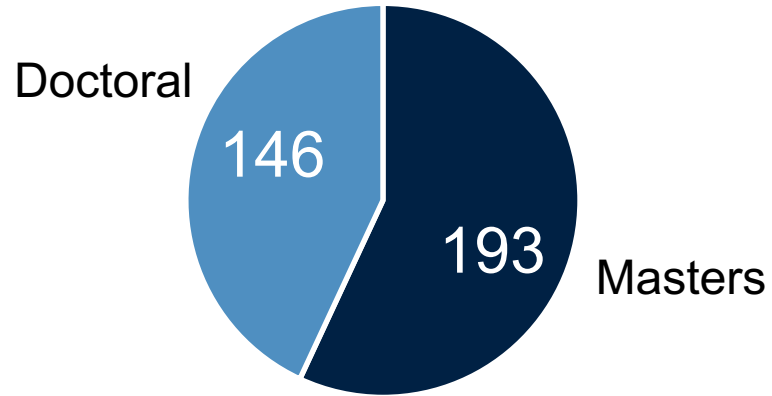
- Redistribute graduate assistantship funding from masters to doctoral programs





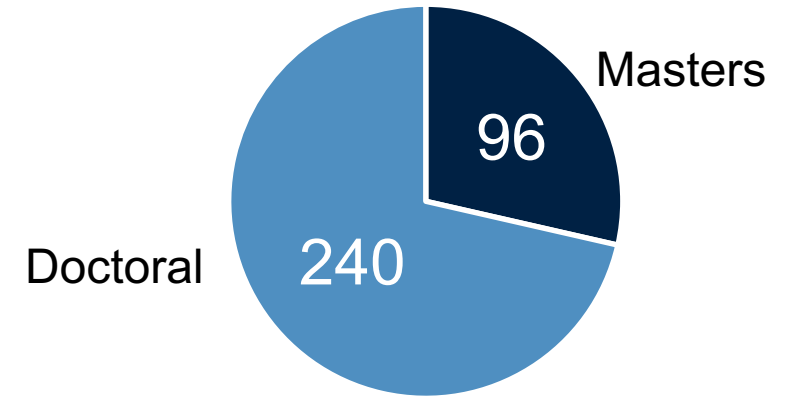
E&G Graduate Student Support at UMaine

Current Distribution Model



	# of Students	E&G cost
Masters	193	\$2,691,029
Doctoral	146	\$2,185,380
Total	339	\$4,876,410

Proposed Distribution Model



	# of Students	E&G cost
Masters	96	\$1,345,515
Doctoral	240	\$3,530,895
Total	336	\$4,876,410



Break Out Discussion #2



- What is your response to TOPS proposal?
 - What are challenges of implementing this model?
 - How might the model be modified to be more effective?
- What is your response to the redistribution of support of graduate students?
 - What are the challenges of implementing this model?
- What are other approaches to expanding graduate education?



Vision for Graduate Education at UMaine

Wrap-Up

