Faculty Forum : Blue Sky Strategic Plan Pathway 1

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Ward, Jake and University of Maine Office of Academic Affairs, "Faculty Forum : Blue Sky Strategic Plan Pathway 1" (2017). General University of Maine Publications. 1006.
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Strategic Plan Assessment

Pathway 1

Serving Our State: Catalyzing Maine’s Revitalization

October 4, 2017

Jake Ward, VP for Innovation & Economic Development
Pathway 1 Team

1. **Jake Ward** (Chair)
   VP for Innovation & Economic Development

2. **Ivan Manev**
   Dean, Maine Business School

3. **Todd Gabe**
   Professor, School of Economics

4. **Jason Bolton**
   Associate Extension Professor

5. **Jason Charland**
   Director of Grant Development

6. **Heather Leslie**
   Director of Darling Marine Center

7. **Philip Hamilton**
   BOV Member
The Blue Sky Plan:

Pathway 1 Initiative
Enhance our impact on the economic and social fabric of Maine

1. Growth in Private Sector Partnerships – formal contracts

Number of Partners

180 FY 12
389 FY 17
117%
The Blue Sky Plan:
Pathway 1 Accomplishments
Continue to match and more closely align UMaine research strengths

1. 

Research Reinvestment Fund
- Strengthen research and development activities that are tied to Maine businesses and to industries that are critical to the future of Maine.
- FY14-FY19, $2.1M/year – planning grants, seed grants, student grants

Maine Economic Improvement Fund (MEIF)
- FY 2016/2017 increase in state funding for UM MEIF by $1.8M/year

<table>
<thead>
<tr>
<th>Grants and Contracts Awarded in MEIF Sectors</th>
<th>FY13 MEIF Awards</th>
<th>FY14 MEIF Awards</th>
<th>FY15 MEIF Awards</th>
<th>FY16 MEIF Awards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forestry and Agriculture</td>
<td>$8,642,424</td>
<td>$7,654,060</td>
<td>$14,194,009</td>
<td>$10,317,799</td>
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<tr>
<td>Aquaculture and Marine</td>
<td>7,045,322</td>
<td>9,153,389</td>
<td>15,187,566</td>
<td>12,631,690</td>
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<tr>
<td>Biotechnology</td>
<td>1,985,295</td>
<td>6,353,450</td>
<td>1,524,204</td>
<td>2,399,487</td>
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<tr>
<td>Composites</td>
<td>9,230,715</td>
<td>5,135,033</td>
<td>5,247,712</td>
<td>6,974,264</td>
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<tr>
<td>Environmental</td>
<td>5,781,658</td>
<td>7,959,264</td>
<td>4,349,651</td>
<td>5,045,536</td>
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<tr>
<td>Information Tech</td>
<td>7,422,675</td>
<td>2,520,521</td>
<td>4,473,781</td>
<td>11,497,199</td>
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<tr>
<td>Precision Manufacturing</td>
<td>1,130,746</td>
<td>1,414,700</td>
<td>780,694</td>
<td>1,009,921</td>
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<tr>
<td>Cross Sector</td>
<td>2,290,129</td>
<td>4,681,209</td>
<td>1,018,132</td>
<td>507,842</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$43,528,964</strong></td>
<td><strong>$44,871,626</strong></td>
<td><strong>$46,775,749</strong></td>
<td><strong>$50,383,738</strong></td>
</tr>
</tbody>
</table>

FY16 Dollar Increase: $3,607,798
FY16 Percentage Increase: 7.71%
The Blue Sky Plan:

Pathway 1 Accomplishments

Continue to match and more closely align UMaine research strengths

1. Seven Maine Technology Sectors for Economic Development: Success Stories

Advanced Technologies for Forest and Agriculture
- Economic Development Assessment Team (EDAT) Fy16-17
  - Maine Forest Economy Growth Initiative
    - Roadmap, market analysis, emerging technologies, re-utilization
  - 21 Member steering committee - private/non-profit/state
- Over $2M federal grant support
- UMaine School of Forest Resources, FBRI, ASCC, OIED

Aquaculture and Marine
- Alliance for Maine’s Marine Economy $7M Marine Bond
  - UMaine Darling Marine Center/Maine Sea Grant
- 20+ private/non-profit/state members
- $3M in DMC improvements
The Blue Sky Plan: Pathway 1 Accomplishments
Align technology and education programs with Maine’s economic development needs.

1. Innovate for Maine Fellows Program – Paid Internships
   • 162 Fellows representing 29 colleges and universities with 168 businesses over the course of the program

2. Flagship Internship Program – Paid Internships
   • Piloted in Spring 2017, a total of 19 UMaine students and 17 organizations were certified

3. The Maine Center for Research in STEM Education (RiSE Center)
   • In 2014 awards bringing over $10 million to the University of Maine
   • In 2016, $2 million National Science Foundation grant to promote STEM education in rural schools
The Blue Sky Plan:

Pathway 1 Accomplishments

Reaffirm and integrate the core goals of a liberal arts education in community/culture with innovation and economic development.

1. 

_Clement and Linda McGillicuddy Humanities Center_

Three-year, $300,000 grant from the Presidential Request for Visions of University Excellence (PRE-VUE) Program

The Center’s principal objectives are to:

- Establish partnerships with arts and humanities institutions in Maine
- Encourage collaborations between UMaine faculty and Maine’s K-12 teachers and students
- Share UMaine’s unique resources with the people of Maine
- Strengthen the humanities at the University by
  - Creating opportunities for students to engage in humanities education and research
  - Developing innovative programming
  - Supporting humanities scholarship and interdisciplinary collaborations
Growing Maine’s Workforce

- Flagship Match
  - Attracted **38% more out-of-state students** for Fall 2016 semester

Internships & Fellowships

- Maine Business School’s new internship office has collaborations with nearly 90 employers.
- CSD is the only program preparing Speech-Language Pathologists in Maine. Within six months of graduation, 100 percent of CSD graduates found employment in the field.

Career Services

- Continues to host career center and college specific fairs, events, and workshops - connecting students and employers throughout the state.

Innovation Engineering

- New “Fundamentals” course – highly interdisciplinary – broad cross-section of majors – work ready skills
The Blue Sky Plan:

Pathway 1 Accomplishments

Increase commercialization and number of small businesses developed as a result of technology spin-offs.

1. Commercialization Efforts

- **Licensing Revenue**
  - FY 13: $121K
  - FY 17: $186K
  - 53% increase

- **FY 18 Projection**
  - >$400K

*licenses pending closure with terms*
Pathway 1 Accomplishments

Increase commercialization and number of small businesses developed as a result of technology spin-offs.

1. Statewide Business Incubation & Spin-Off Companies

**CCAR**
- Sea & Reef Aquaculture Ocean Resources
  - Aqua Vida
- Springtide Seaweed Applied Ponics

**Upstart Center for Entrepreneurship**
- Cerahelix
- Environetix
- Double Blue Sports Analytics
- Advanced Infrastructure Technologies
- Eagre Games.

**Darling Marine Center**
- American Unagi
- Maine Fresh Sea Farms
- Field Phyto Nutrients
- Maine Shellfish Developers
The Blue Sky Plan:
Pathway 1 Accomplishments
Enhance UMaine organizational support for promoting regional economic impact.

1. In 2012, established Office of Innovation and Economic Development
   - Department of Industrial, Cooperation
   - Foster Center for Student Innovation
   - Economic Development Programs,
   - Technology Commercialization
   - business incubation through the Center for Cooperative Aquaculture Research and the Upstart Center for Entrepreneurship.

Elevated leadership of Office of Innovation and Economic Development to cabinet level vice president position

Created University of Maine Research Foundation
Pathway 1 Accomplishments

Use our resources to highlight Maine’s rich cultural heritage, and relate arts and humanities better to economic development.

1. Collins Center for the Arts

Maine International Conference on the Arts, which provided resources and training for artists, arts administrators, arts educators and community leaders, and included over 30 professional development sessions, artist showcases and a nationally recognized keynote presenter.

UMaine Museum of Art

Expanded its downtown Bangor location to now include 3,800 works. Partners with Maine museums and art programs/camps to provide support to art and humanities development throughout the state.
The Blue Sky Plan:

Pathway 1 Accomplishments

Continue to increase support for signature strength areas.

Through transparent, engaged process identified UMaine’s signature and emerging areas

**Signature areas:** identified by their strengths in research and education – 12 new faculty positions FY16-FY18

- Forestry and the Environment
- Marine Sciences
- College of Engineering
- Advanced Materials for Infrastructure and Energy
- Climate Change
- STEM Education
- Honors College.
Emerging Areas represent those programs that may have not yet achieved critical mass or reputation, but have begun to capitalize on interdisciplinary collaboration; have a track record of success with external support from a variety of sources; and involve integration of the research, teaching and service missions.

**Emerging areas:** – 8 new faculty positions FY16-FY18

- Graduate School of Biomedical Science and Engineering
- Northeastern Americas
- Humanities Research and Education
- Data Science and Engineering
- Sustainability Solutions and Technologies
- Aging Research
- Finance Education
Format for Forums

At the Forum
• Review Initiatives and Accomplishments
• Discussion / Questions

• What else has been accomplished related to this Pathway?

• Are these initiatives still relevant?

• Considering the Pathway’s broad goals, how else might this work be advanced?

After the Forum
• Web-based input available
• Recording available