Welcome from the Co-Chairs

• Lt. Governor Karyn Polito

• Congressman Joseph Kennedy III
1. Expand Work-Based Learning Programs

2. Develop and Grow STEM Early College Career Pathways

3. Broaden and Deepen Computer Science & Engineering Initiatives

4. Align the work of the Regional STEM Networks to the STEM Advisory Council priorities
1. Expand Work-Based Learning Programs

GOAL: Provide students in high-need communities with meaningful on-the-job learning experiences to prepare them for the workplace and to give them hands-on experience with STEM careers

MA STEM@Work

- The STEM Council released an RFP for a 2-year competitive grant for 5 Workforce Development Boards to expand local outreach, recruitment, and access for paid STEM-focused high school student internships.

- The STEM Council is hiring a consultant to assist in supporting the Workforce Development Boards to capacity build, expand outreach, and engage employers in bringing on more paid STEM-focused high school student internships. Last year, this effort resulted in 25 new companies establishing paid high-school internships with 54 placements this summer. We are hoping to double that number this year.
2. Develop and Grow STEM Early College Career Pathways

**GOAL:** *Provide students in high-need communities with access to integrated career pathways into STEM fields, beginning in middle school and reaching into college and the workforce.*

**High Quality College and Career Pathways**

- The Executive Office of Education, in partnership with the Departments of Higher Education and Elementary & Secondary Education, are currently reviewing *Early College and Innovation Pathway applications.*

- The STEM Council allocated $300,000 for competitive *planning and implementation grants* for schools that apply for STEM Early College designation.
3. Broaden and Deepen Computer Science & Engineering Initiatives

**GOAL:** Strengthen foundational STEM skills, while deepening the pipeline of well-trained STEM teachers and school leaders

**Computer Science and Engineering Initiatives**

- The STEM Council joined the Workforce Skills Cabinet and One8 Foundation to award a **$1M public/private grant to Project Lead The Way (PLTW)**, to help 45 schools implement the PLTW computer science, engineering or biomedical science curriculum, including teacher training and equipment purchases.

- Nearly 400 people – 200 of them teachers – attended the **annual Project Lead the Way (PLTW) Conference hosted by WPI**. The conference provided breakout sessions, hands-on activities, program-specific networking, and professional development sessions for current leaders and prospective schools to learn about PLTW and grant opportunities.

**Assessment Updates**

- Discussion regarding **MCAS assessments** and strategies for Computer Science and Engineering
3. Broaden and Deepen Computer Science & Engineering Initiatives

**GOAL:** Strengthen foundational STEM skills, while deepening the pipeline of well-trained STEM teachers and school leaders

Promoting the Importance of Computer Science and Engineering Initiatives

- The STEM Council allocated funds to MassCAN to launch its new campaign for building a broad-based business coalition to advocate for the expansion of K-12 computer science and directly supporting early adopter school districts.
- *Steve Vinter and Tripp Jones* will give updates on the PACE Initiative and strategies for these efforts moving forward.
MassCAN Goals and Mission

**Need**
Technology occupations are in high demand in Massachusetts, representing nearly 23 percent of total job demand. Demand is growing 50% faster than the market overall.

**Position**
CS education is a foundational academic and practical discipline, the expertise is needed in every job sector today, industry demands will accelerate over time, and it is a pathway to opportunity for all.

**Goals**
- All of MA graduates achieve Computer Science (CS) competency aligned with our state standards
- 30% of graduating seniors establish CS competency established by the College Board (CS Principles)

**Mission**
- **Inform**: Educators, parents, and students
- **Mobilize**: Industry, educators and nonprofits
- **Educate**: Expand CS education opportunities
- **Equity**: Drive access, equity, and inclusion in CS education

**Approach**
Strategic alignment and ownership by industry, District Superintendents and educators, and state government to drive awareness, policy & educational change, and pathways to workforce opportunities

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1. *Technology Jobs in Massachusetts*, Burning Glass / Achieve, 2017
2. *Beyond Point and Click*, Burning Glass, 2016
### MassCAN 2.0 Organizational Approach

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<thead>
<tr>
<th>Oversight and Advice</th>
<th>Sec. Peyser, Comm. Wulfson, Higher Education, M.A.S.S. Executive Committee, CEOs, STEM Advisory Council</th>
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<tbody>
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<td>Business Steering Committee</td>
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<td>Program</td>
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<td>Key Partners</td>
<td>MACP, Boston Chamber, AIM, MBR MassTech, MassTLC, TechNet, 21c</td>
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<td>Activities</td>
<td>Strategy Public Awareness Public Policy Advocacy Fundraising</td>
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<td>Policy</td>
<td>DL/CS Curriculum Framework, Teacher Licensure, MassCORE DESE, Panels, etc.</td>
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<td>Superintendent PACE Program</td>
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<td>Superintendents, DESE CSTA/Teachers, EDC, One8</td>
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<td>Curriculum and Path Design District Partnerships and Awareness School/District Pilots Evaluation</td>
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“What’s Next?”

Looking Ahead

- Discussion on how we can better empower the STEM Council as a fundraising and engagement vehicle for *public/private partnerships*.
  - Computer Science and Engineering
  - Matching Grants for Existing Programming
  - Social Media Campaign
  - Micro-credentials and Certificate Opportunities
Approval of Minutes from the March 24, 2017 Executive Council Meeting
Wrap Up and Next Steps
<table>
<thead>
<tr>
<th>Welcome</th>
<th>Priorities Overview</th>
<th>Updates</th>
<th>Goals &amp; Priorities</th>
<th>Wrap Up</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Appendices</td>
<td></td>
<td></td>
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<tr>
<td>FY 18 STEM Pipeline Fund Budget</td>
<td>Proposed Amount</td>
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<td>2017 STEM Summit Contribution</td>
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<td>MassCAN 2.0 Start-Up Grant</td>
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