## Elevate Impact Initiatives—Status
**November 2017**

### More in Four
- Co-op
- 4-year BS/MS

### Global Projects for All
- Off-campus project participation
- Global Scholarship
- Global Impact Lab

### Major and a Mission
- NAE/WPI Grand Challenge Scholars
- Curricular/co-curricular connected beyond major
- Entrepreneurial Mindset
- Global Competency

### Research Enterprise
- Five strategic research themes
- High profile research grants
- Fellowship support
- Funding for research

### WPI PhD Plan
- Self-assessment of graduate students
- Graduate student professional development
- Off-campus experience for PhD students
- Interdisciplinary PhD programs

### Personalized Online Education
- On-line MS degree and certificate program
- On-line enrollment
- Conversion of undergrad courses & programs

### Center for Project-based Learning
- Institute on Project-Based Learning
- Off-site workshops & consulting services
- Publications and grant proposals
- Support excellence in PBL on WPI campus

### Global Partnerships
- Global alumni network
- Robust relationships w/ academic partners
- WPI email for life

### Foisie Innovation Studio
- Innovation and Entrepreneurship Center
- Global Impact Lab
- NGOs

### Definition of Progress Colors
- **Green**—progress toward goal on track with expectations
- **Yellow**—some progress but also some identified issues
- **Red**—no progress made, work not yet begun, or other significant roadblock identified
Co-op participation: 160 students

Global competency course/project enrollment: 75%

Students graduating with 4-yr BS/MS: 50

Off-campus project participation: 90%

Co-curricular transcript/e-portfolio use by juniors: 70%

Global scholarship for all: 100%

NAE Grand Challenge Scholars: 50

Goal

AY15-16

AY16-17

AY17-18

AY18-19
Named graduate fellowships: 300% increase

Research expenditures: 50% increase

Individual Development Plan for all PhD students: 100%

PhD students engaged in internships: 20%

Students enrolled in on-line competency-based courses: 200/year

CBE on-line conversions: 5 undergraduate courses

Research & Graduate Education
Institutions served by the Center for PBL: 40/annually
PBL grant proposals/papers submitted: 6/year
Alumni chapters established: 6
MOU with academic partners established: 6
WPI email engagement: 50% of alumni with WPI email
Students using the Global Impact Lab: 300/year
Foisie Innovation Studio undergrad usage: 100%

Reputation and Visibility

Goal
AY15-16
AY16-17
AY17-18
AY18-19
“Global Projects for All” Goes Public

- 954 students w/global experience
  - 100 more than AY1617!
- National and regional media
  - 43M digital views
  - 28K households (print)
- Sustained social campaign
  - 250K impressions in first month
- Elevated web presence, wpi.edu
  - 10x increase in traffic to Global Projects Program
  - 13x traffic to WPI Plan
NAE approves WPI’s Grand Challenge Scholars Program

Distinctive Undergraduate Education

14 Grand Challenges for Engineering in the 21st Century

Faculty Steering Committee
Innovation & Entrepreneurship Activities Accelerating

Distinctive Undergraduate Education

- I&E Center Director search in progress

- New web presence:
  - Education & Research
  - Collaborative Spaces
  - Coaching & Funding
  - Beyond WPI
  - Resources

- 74 faculty trained through KEEN grant

- Launching Patent Board

wpi.edu/+innovation
Congratulations to...

- Kyumin Lee, Computer Science
- Ivon Arroyo, Social Science & Policy Studies
- Craig Shue, Computer Science
- Scarlet Shell, Biology & Biotechnology
- Michael Timko, Chemical Engineering
Advanced Manufacturing: First Grants Coming In, New Staff Hired

Research & Graduate Education

Worcester Polytechnic Institute
Greater Opportunities, Diversity in Graduate Education

• More than tripled workshops for graduate students
  – Career and professional development
  – Graduate Fellowship workshop

• Inaugural Presidential Fellows
  – Bioinformatics and Computational Biology
  – Fire Protection Engineering
  – Robotics Engineering
New Robotics Engineering Autonomous Vehicles Personalized Online Program

Research & Graduate Education
Unveiling of Tsinghua-WPI Center for Global Public Safety

Reputation and Visibility
Center for Project-Based Learning
Enormous Early Success

Reputation and Visibility

Institute on Project-Based Learning

70

400

Custom workshops, consultations and webinars

17

Support for project-based learning at WPI

900,000
Ready for Foisie-Focus Areas

- Messenger Hall
- Makerspace
- Center for I&E
- Global Impact Division
- Digital Content/Feature Wall

- Active Learning Classrooms
- Advancement/Naming
- Robotics
- Staff planning
- Building Operations
Introducing the Global Impact Division**

Goal: Maximize WPI’s positive global impact by developing an organizational structure that integrates, synergizes and amplifies our academic global activities

** Global Projects Program
** Great Problems Seminar
** Global Impact Media Lab
** Global Competency
** NGOs in Residence
** Global Partnerships

** Final name TBD
Ready for Foisie-Team Leads

Bill Spratt
Jim McLaughlin
Art Heinricher
Kris Wobbe

David Cyganski
Craig Putnam
Sia Najafi
Kent Rissmiller

Kris Boudreau
Kevin Harrington
Maureen Deiana
AmyBeth Laythe

Donna Stock
Philip Clay
Dana Harmon
Michelle Jones-Johnson