Panel 3: Academic Data & The Labor Market

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LABOR AND WORKLIFE PROGRAM

HARVARD LAW SCHOOL

FUTURE OF RESEARCH CONFERENCE BOSTON, OCTOBER 2015

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Four experiments



- 1. UCSF Graduate Student Internships for Career Exploration Program (GSICE)
- 2. BEST program, NIH
- 3. Professional Science Masters (PSM)
- 4. Stanford PhD Alumni Study

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Experiment #1: UCSF Graduate Student Internships for Career Exploration Program (GSICE)

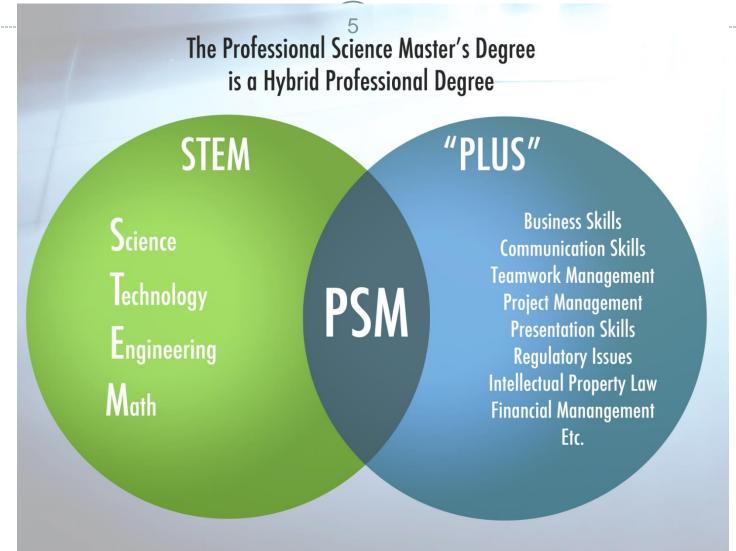
- (3)
- Advanced grad students do internships outside of academe
- All basic and biomedical science graduate programs
- Internships full-time, 3 months
- Typically during one academic quarter

Experiment #2: BEST program, NIH

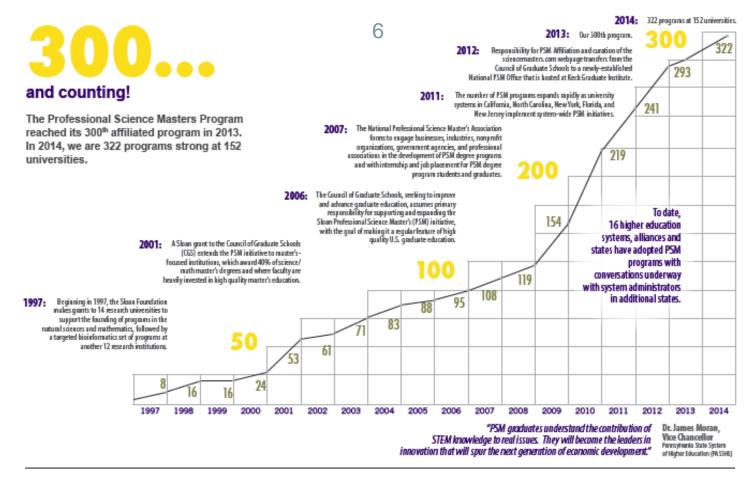


- Broaden graduate and postdoctoral training to reflect wider range of career options
- Collaborations with non-academic partners
 - o contribute to coursework, rotations, internships, etc.
- Establish a new paradigm for graduate and postdoctoral training

Experiment #3: PSM: combine science & professional skills



Sustained growth, take-off 2008



The PSM degree is designed to train the next generation of STEM professionals for integrator and leadership roles in science-intensive industries. By helping translate research into commercialization, PSM graduates are able to fuel innovation and economic growth.



Still expanding strongly

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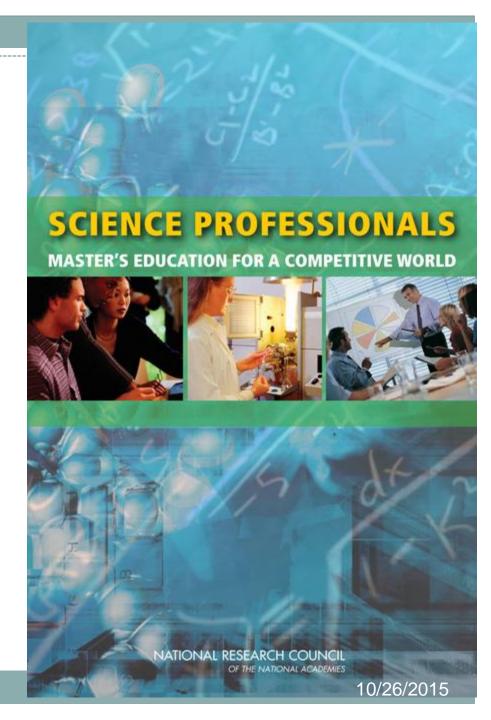
- Now up to 342 active PSM programs
- In 159 universities US/Canada
 - PSMs now being developed in S. Korea, Australia, UK, Netherlands, Sweden, etc.

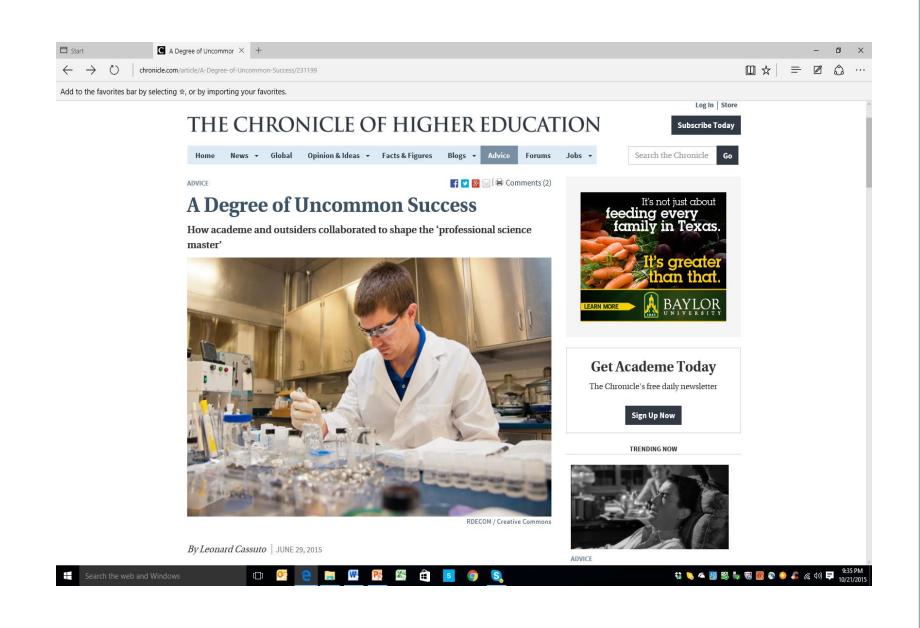
PROMISING

- US graduate schools responding
- Up from zero PSMs and univ's 18 years ago
 - VERY difficult period for higher ed

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National Research Council, National Academies, 2008





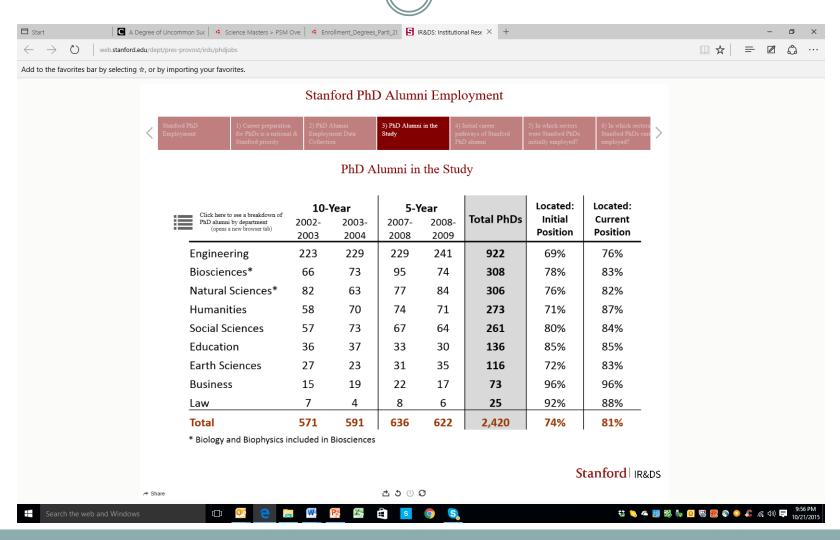
Data on PSM alumni careers?



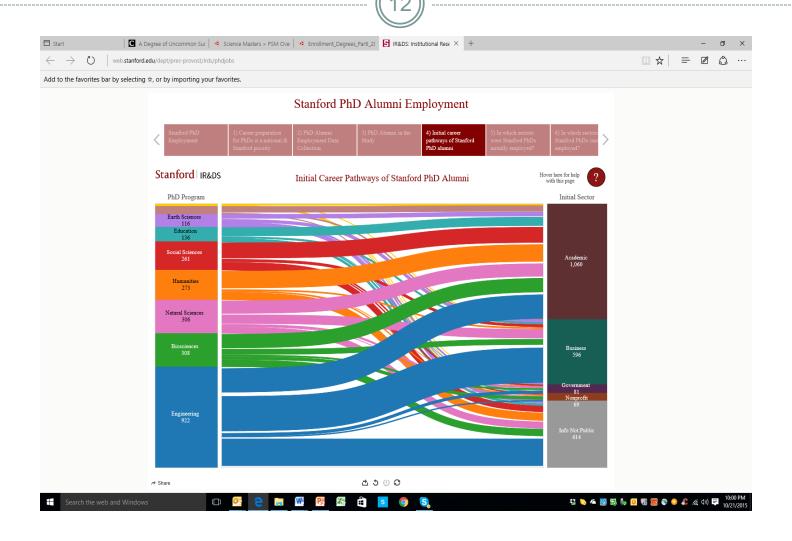
- Can we locate via social media? (Tobias/Richards)
- 70 "oldest" PSM programs, begun 1997-2005
 - 44 campuses, 3,619 alumni
- Surprise: found 78% of these early alumni
- Can identify employers, job titles, resumés
- Employers: Large co's (31%), small co's (14%)
 - Education (16%)--need disaggregate: PhD? Postdoc? Staff?

Experiment #4: Stanford PhD Alumni Study

web.stanford.edu/dept/pres-provost/irds/phdjobs



Interesting data on career pathways (but confounded by postdocs in "academic"?)



Thank you!



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ONLINE RESOURCES ON PSM DEGREE:



HTTP://WWW.SCIENCEMASTERS.COM

HTTP://WWW.NPSMA.ORG

HTTP://WWW.NASH-PSM.ORG