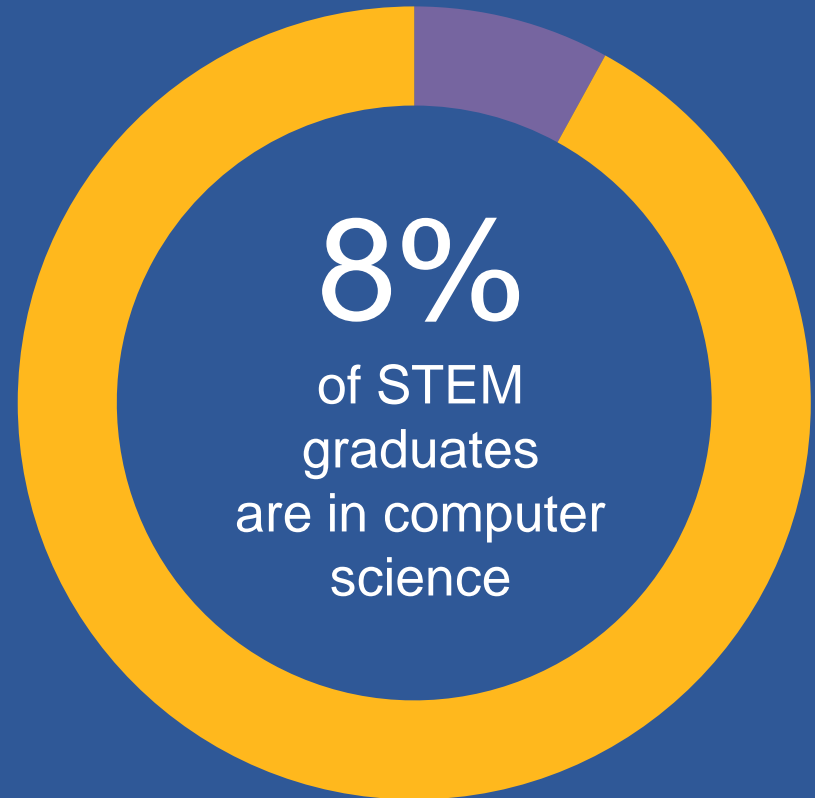
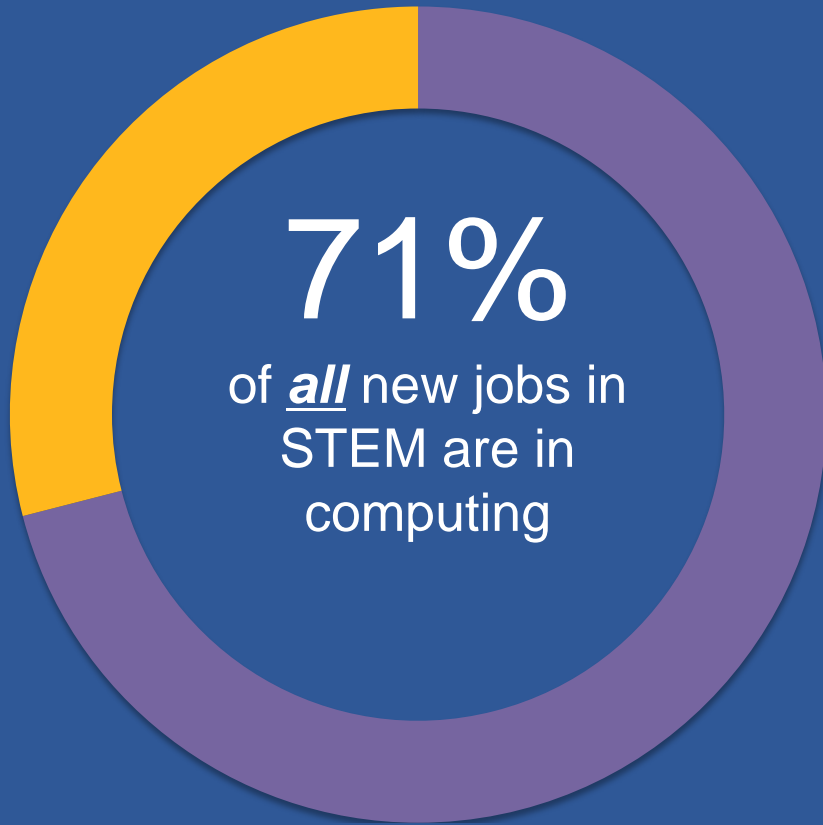


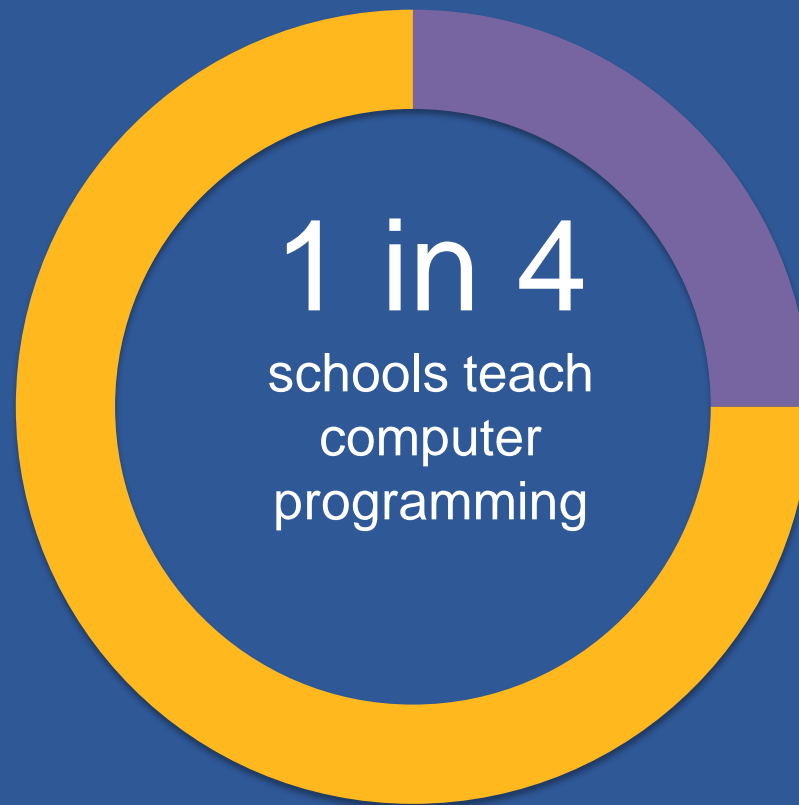
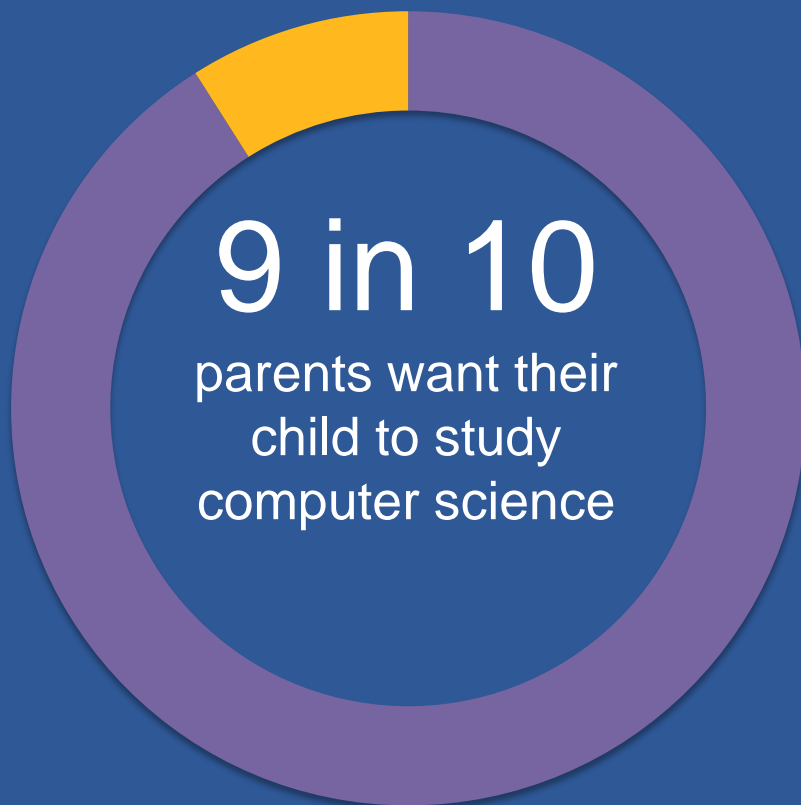


Making the Case for Computer Science

Jan Cuny
National Science Foundation
October 17, 2016



Sources: Bureau of Labor Statistics, National Center for Education Statistics
Slide: Code.org



Sources: Gallup
Slide: Code.org

Women

African Americans

Hispanics

Native Americans

+ Persons with Disabilities

The Missing 70%

34%

17.0%

17.8%

28.0%

9.7%

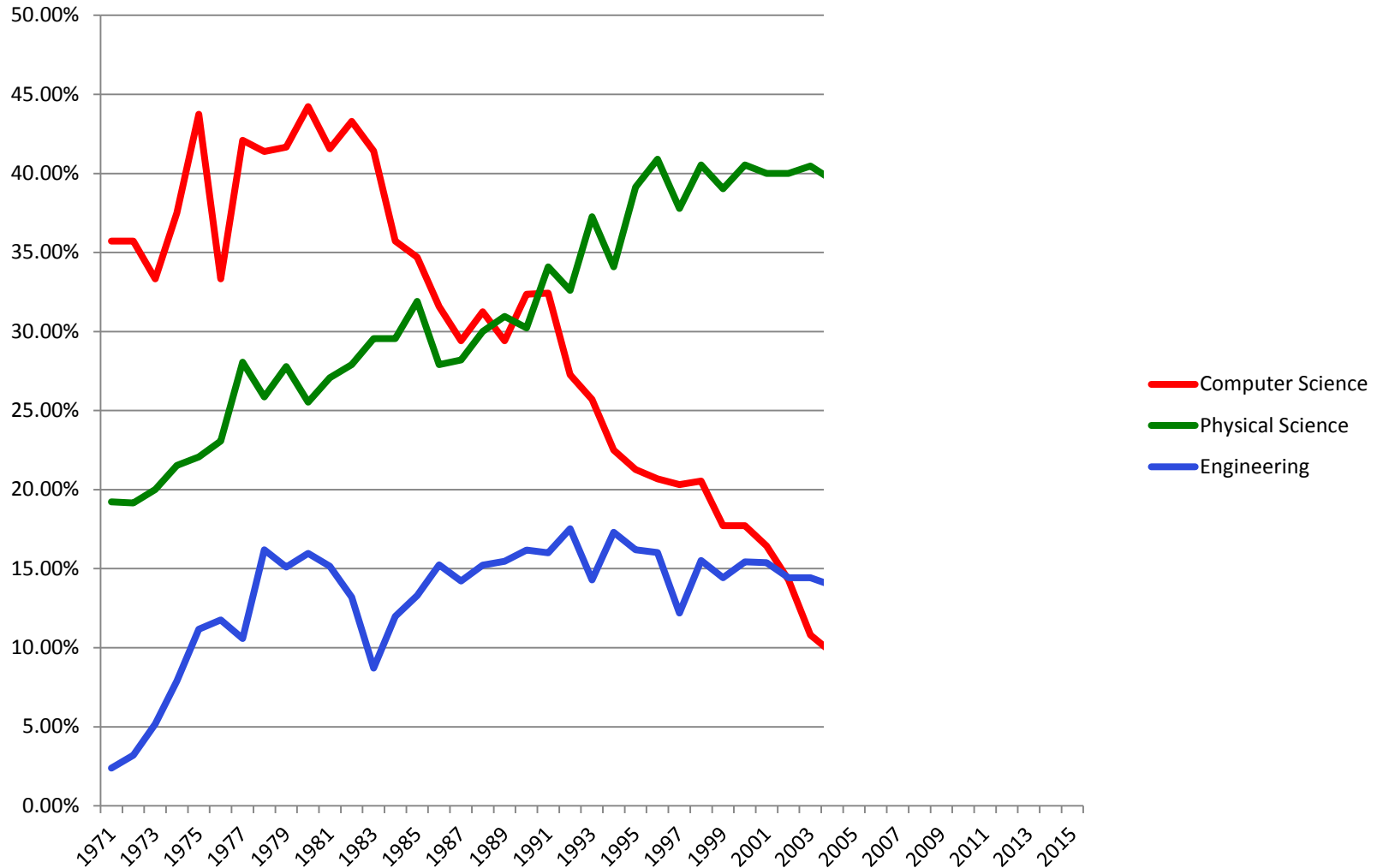
20.5%

3.8%

Female

URM

% Women of Intended Majors



25%



19%

5x

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Our Mission Curriculum Teacher Program

Exploring Computer Science
A K-12/University partnership committed to democratizing computer science.

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CS PRINCIPLES HOME OFFER CS CSP COURSES RESOURCES PARTNERS ABOUT COLLEGE BOARD PEOPLE

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Computer Science Principles

President Obama announces Computer Science For All

A new, widely accessible Advanced Placement Course for Computer Science. The College Board oversees the development of the course and exam that will launch as AP Computer Science Principles in 2016-2017. For College Board details, see [College Board's Advances in AP](#) site.

The AP Computer Science Principles Curriculum Framework (.pdf/1.42MB) was developed to serve as a foundational guide to ensure selected curricula focuses on innovative aspects of computing along with the computational thinking practices that are critical to a future-ready education.

NSF Medium Article "Real Talk From Real Computer Science Teachers."

Sign up to register your interest in AP Computer Science Principles

Introducing AP Computer Science Principles

Exploring Computer Science (ECS)

AP CS Principles

CONCEPTUALLY-BASED

ENGAGING

RIGOROUS

HANDS-ON

INSPIRING

DESIGNED for EQUITY





“...offering every student the hands-on computer science and math classes that make them job-ready on day one...”

President Barack Obama
2016 State of the Union Address





Grant gets Computer Science in Schools

BY: Dhomonique Ricks
POSTED: 4:56 PM, Aug 21, 2016
UPDATED: 5:16 PM, Aug 21, 2016

Coding for the future: Gov. Inslee leads computer education effort

BY KIM SHEPARD, KIRO Radio Reporter | February 22, 2016 @ 3:04 pm

UAFA's robotics, computer science prog high school education



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Computer Science Is Now A High School Graduation Requirement In Chicago's Public School District

Posted Feb 04, 2016 by Megan Rose Dickey (@meganrosedickey)



Following a unanimous vote by the Chicago Public School Board of Education, computer science will become a graduation requirement for all high school students in what is the

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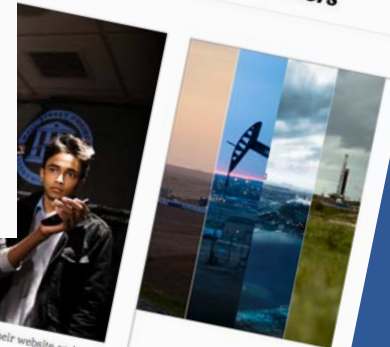
President Obama's education plan is launched in Oakland

Bay City News Service

POSTED: 02/09/2016 07:17:38 AM PST | UPDATED: 20 DAYS AGO

OAKLAND - The nation's chief technology officer came to Skyline High School in Oakland

the Language of Computers



Edison Castillo, Shemar DaCosta and Takhim Haque presented their website and app, *where, at an economic summit in Manhattan on Tuesday.*

The website allows users to post videos of police abuses, track them on an interactive map and even play a game in which the goal is to avoid gunfire from police officers.

College Board

Code.org

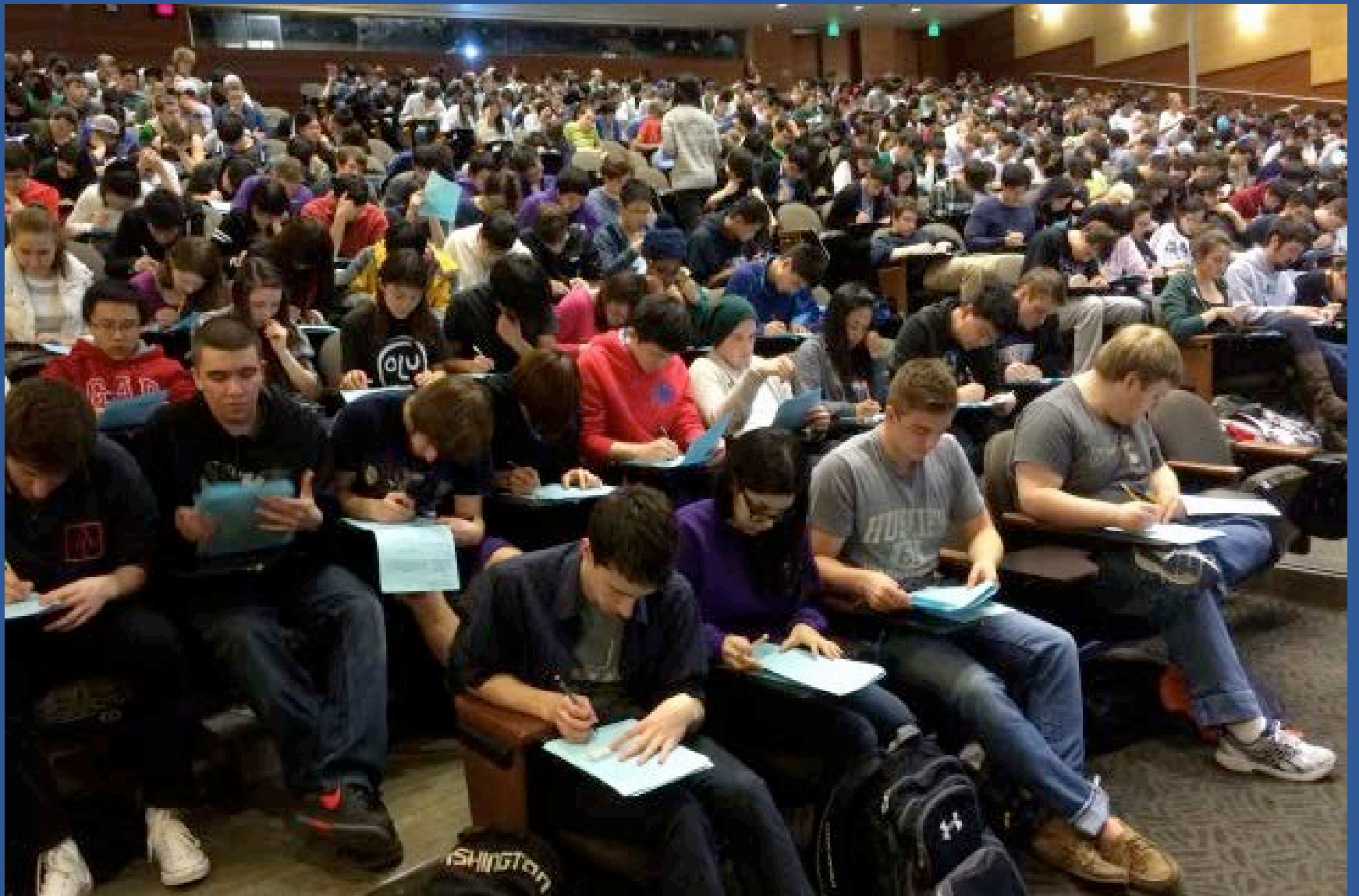
TFA

PLTW

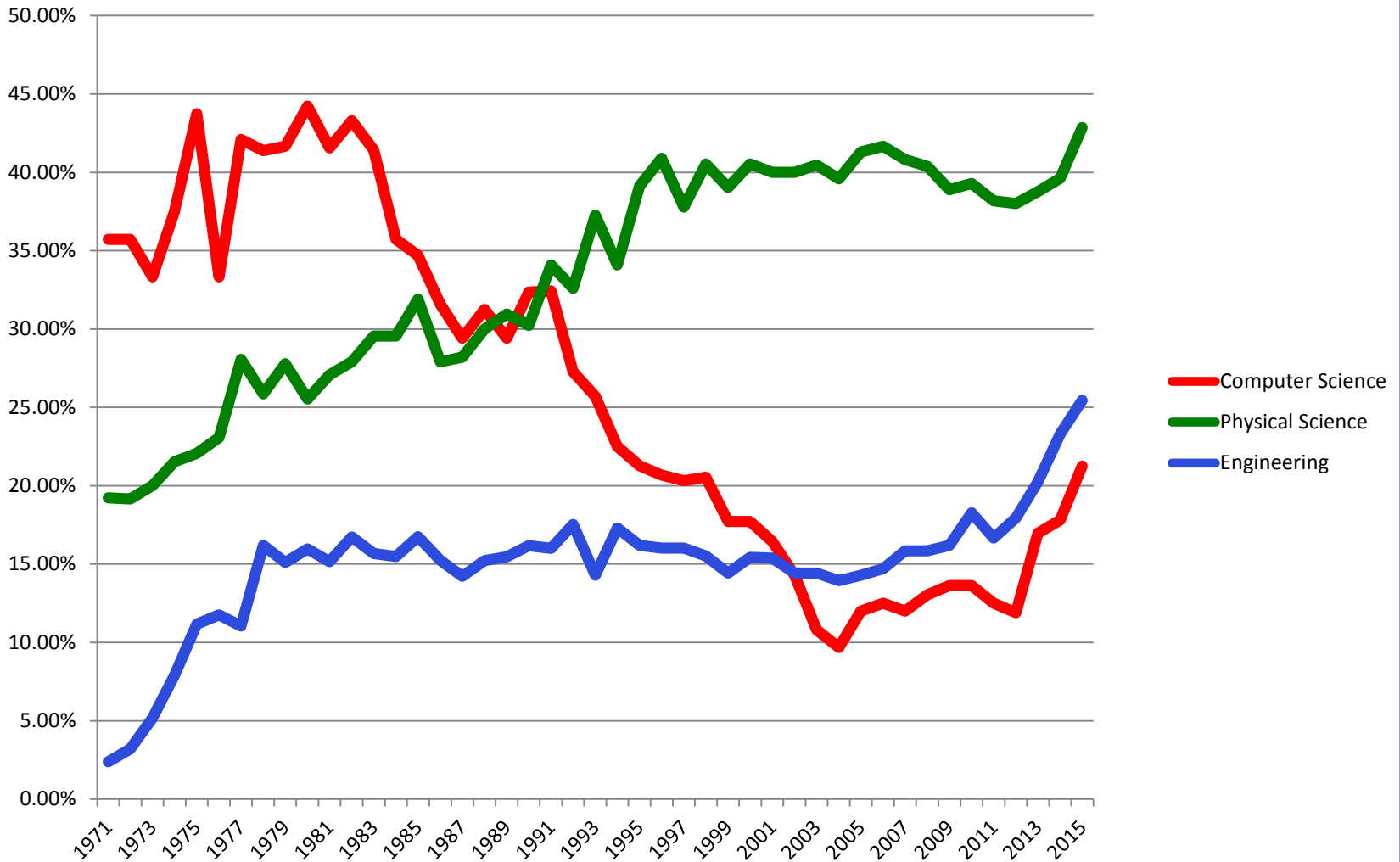
NMSI



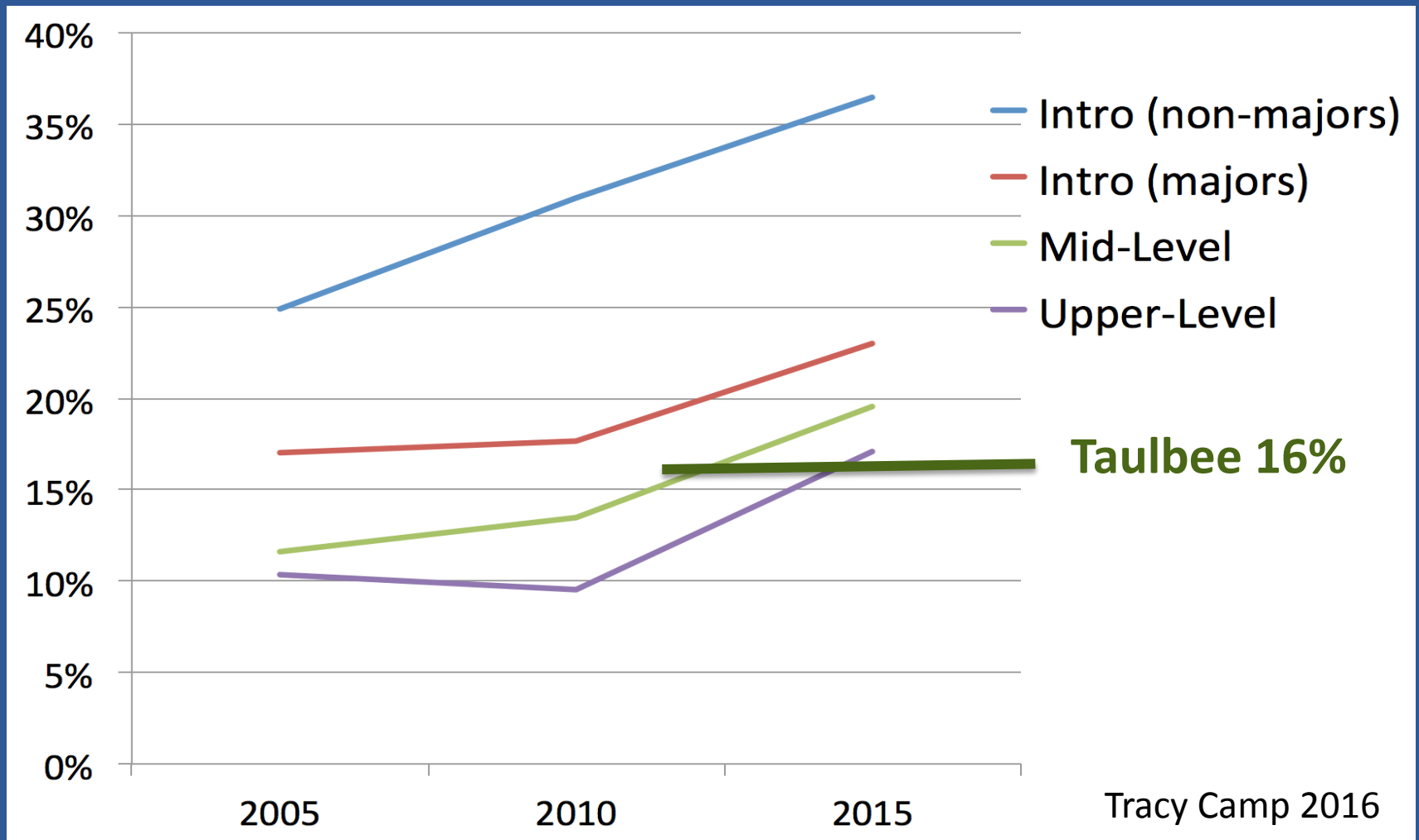
Infosys Foundation/DonorsChoose



% Women of Intended Majors



% Female current enrollments



NSF

- Resources
 - CSforAll Teachers Community
 - ExploringCS.org (NSF & DonorsChoose)
 - CS Principles projects: BJC, Mobile CSP, UTeach CSP, CISS (NSF & DonorsChoose)
 - MOOCS for students & teachers
 - Bootstrap (DonorsChoose)
- Solicitations: STEM+C
 - Scalability, sustainability, research
- Unsolicited proposals
- ESSA

CSforALL.org

A large, curling blue wave crashing under a clear blue sky. The water is a vibrant turquoise color, and the crest of the wave is breaking into white foam. The sky is a deep, clear blue.

Thanks!

jcuny@nsf.gov