



CONSORTIUM

Progress, Partnerships, Priorities

Dr. Leigh Ann DeLyser,
Co-Founder & Chief Academic Officer
@lsudol @csforall

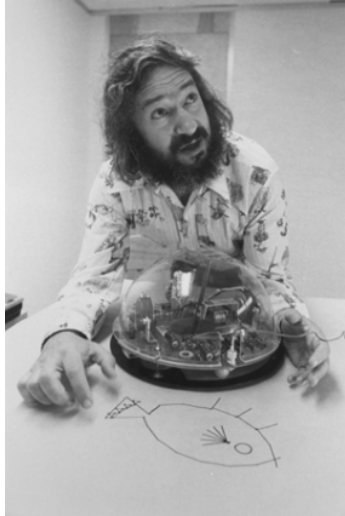


Goals

Goals for this talk:

- Progress:
 - Provide a brief outline/history of CS Education in K-12
 - Clarify the current state of K-12 CS Education
- Partnerships:
 - Introduce you to CSforAll the movement and the CSforAll Consortium
 - Identify who else needs to be at the table
- Priorities:
 - Share the current priorities for CS Education in K12

Progress: K-12 CS Education



```

10 INPUT "What is your name: ", US
20 PRINT "Hello "; US
30 INPUT "How many stars do you want: ", N
40 SS = ""
50 FOR I = 1 TO N
60 SS = SS + "*"
70 NEXT I
80 PRINT SS
90 INPUT "Do you want MORE STARS? ", AS
100 IF LEN(AS) = 0 THEN GOTO 90
110 AS = LEFT$(AS, 1)
120 IF AS = "Y" OR AS = "y" THEN GOTO 30
130 PRINT "Goodbye "; US
140 END
    
```

1980s:
Turtles
AP CS A (Basic)

80

Caroline M. Hoxby

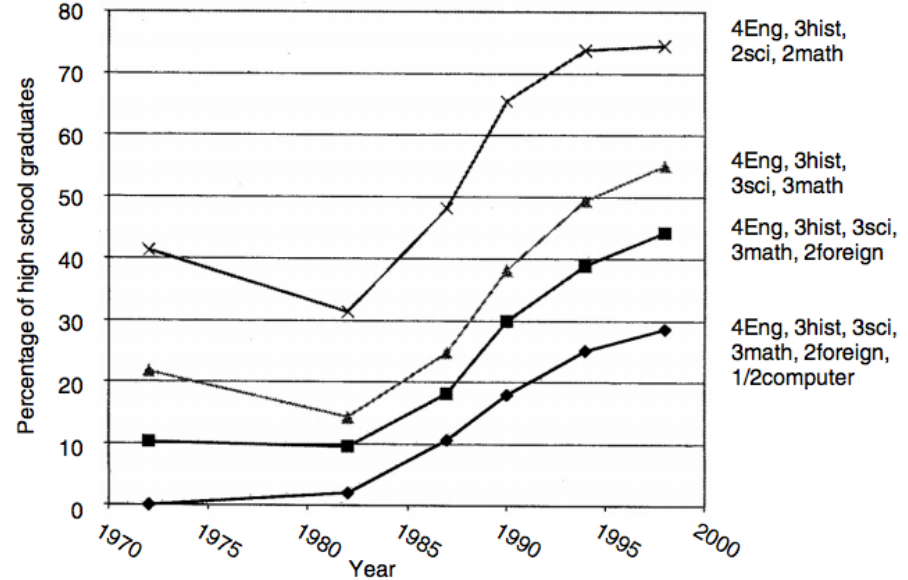
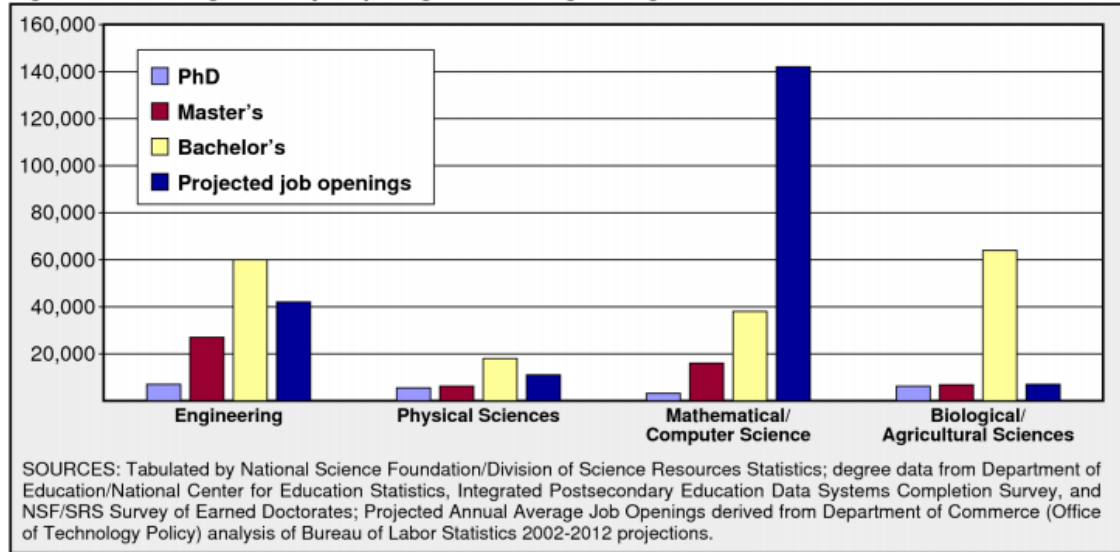


Fig. 5. Percentage of U.S. high school graduates whose course-taking meets various curricular standards

Progress: K-12 CS Education

Figure 4. Annual degrees and job openings in broad engineering fields

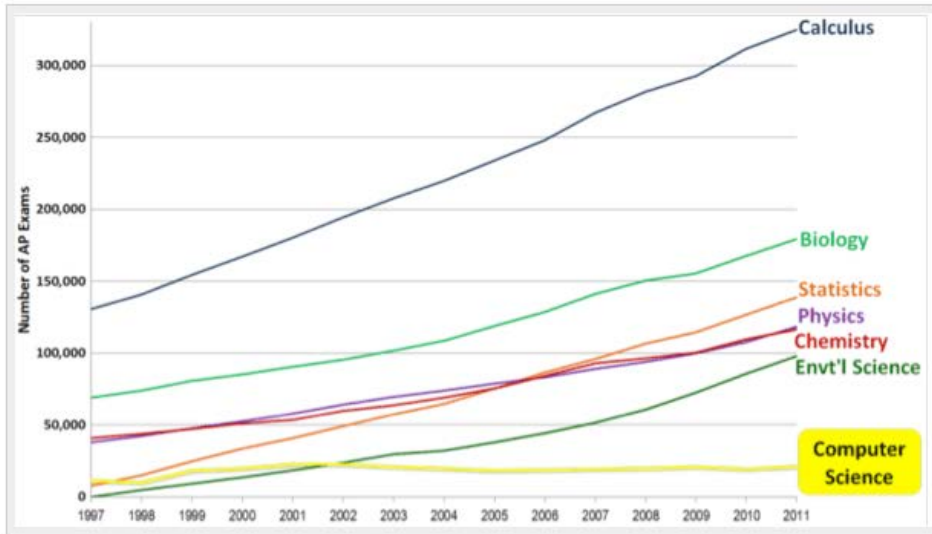


2000's: Boom, bust and misconceptions about computing opportunities



Progress: K-12 CS Education

AP Exams 1997-2011



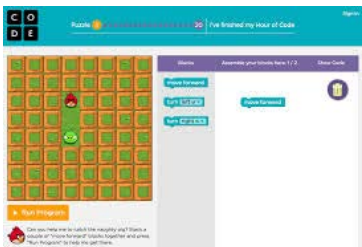
2000's: Boom, bust and misconceptions about computing opportunities

Progress: K-12 CS Education

COMPUTER SCIENCE

Education Week

WWW.CSEDWEEK.ORG



CsforALL

CONSORTIUM



State of the States Landscape Report:

STATE-LEVEL POLICIES SUPPORTING
EQUITABLE K-12 COMPUTER SCIENCE
EDUCATION



Progress: Current State of CS Education



Check In



- Progress:

- Provide a brief outline/history of CS Education in K-12
- Clarify the current state of K-12 CS Education

- Partnerships:

- Introduce you to CSforAll the movement and the CSforAll Consortium
- Identify who else needs to be at the table

- Priorities:

- Share the current priorities for CS Education in K12

Identify ways for the CISCSE community to get engaged



What is CS for All?



CS: K12 CS Education Framework



Combination of Concepts and Practices

Cybersecurity is in the “Networks and Internet” concepts.

Influencing state CS standards

k12cs.org



For: City Initiatives - Choice vs. Required



Chicago CS4All:

- Graduation requirement
- All students take the same course (Exploring Computer Science)

NYC CS4All:

- General Definition of CS, each school can choose what curriculum to implement
- Every school (K-12) must teach CS to all students



All: Luna Ruiz



CSforAll: Theory of Change





The CSforAll Consortium (csforall.org) is a hub for the national **Computer Science for All** movement that works to enable all students in grades K-12 to achieve computer science literacy as an integral part of their educational experience.



Consortium Members



374

Approved Members

183

Content Providers

85

LEAs (States/Districts) or
Aggregate Ed Groups (ECEP)

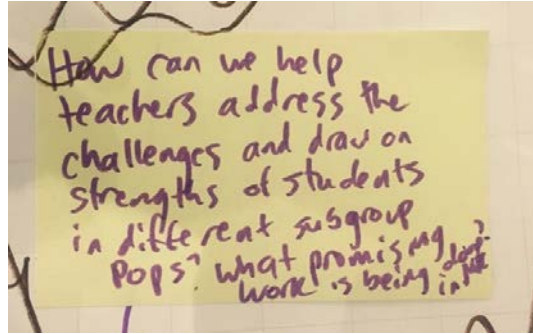
106

Funders/Supporters &
Researchers of CS Education



Priority Areas:

Strategic Connections



Knowledge and Resource Dissemination

District Consultation and Support



Partners: Who Else should be at the table?



- Community Colleges?
- NSF Funded Projects?
- University based outreach?
- Cybersecurity education efforts?
- Career and Technical Education efforts?



Check In



- Progress:

- Provide a brief outline/history of CS Education in K-12
- Clarify the current state of K-12 CS Education

- Partnerships:

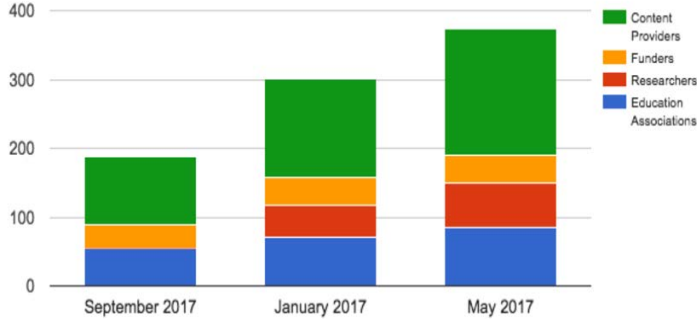
- Introduce you to CSforAll the movement and the CSforAll Consortium
- Identify who else needs to be at the table

- Priorities:

- Share the current priorities for CS Education in K12

Identify ways for the CISCSE community to get engaged

Impact - Strategic Connections



The consortium
has grown to
370 members

Our monthly
community calls
serve 100+
participants at a
time



Our Slack
channel
averages 1,000
messages per
week



Impact - District Support



More than 3,000 schools are represented in the signers of the CSforAll Pledge
www.csforall.org/resources/pledge

Our district members represent 30 states, 4,775 schools and 3 million students



We will pilot a new District Implementation Planning Tool in summer 2017

Impact - Resources



The CSforAll.org website receives thousands of visits each month

With NSF funding, we support meetings for schools of education and CS education researchers



In partnership with CS Teaching Tips, we are producing research-based practice documents for classrooms

What can YOU do?



JOIN THE CONSORTIUM!

- Participate in Community Calls or other events
- Share your needs
- Encourage school districts you work with to participate

Create Clear Pathways

- What are the pathways for students who are caught in the middle?
- Materials for guidance counselors

Share Enrichment Activities

- Help us identify K-12 relevant competitions
- Help us connect with curriculum writers for K12 appropriate content



Thank you!

Leigh Ann DeLyser
leighann@csforall.org

