

NEXTFLEX



FLEXFACTOR™

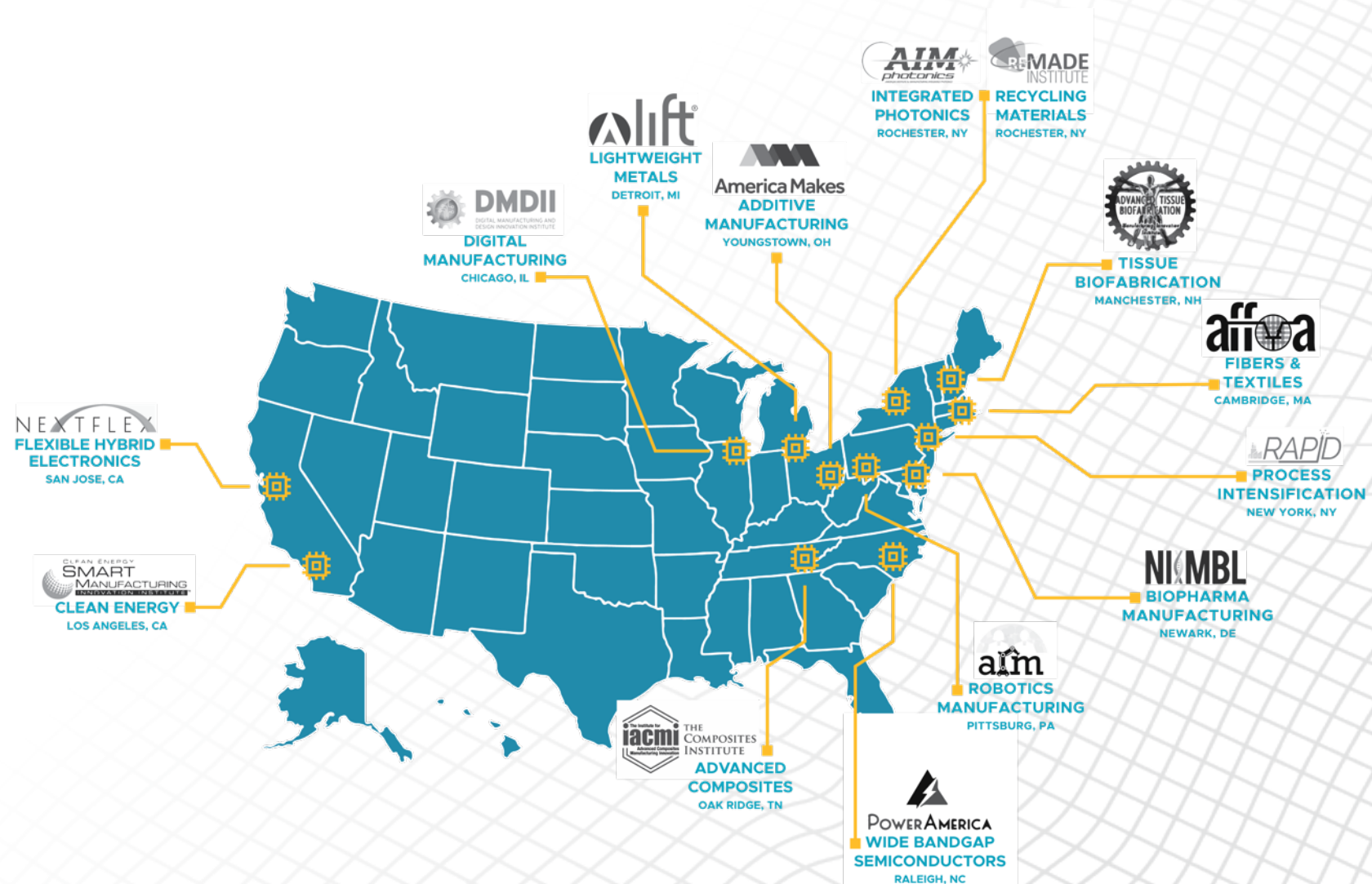
THE FUTURE OF
ADVANCED MANUFACTURING

A National Network for Manufacturing Innovation

ManufacturingUS A

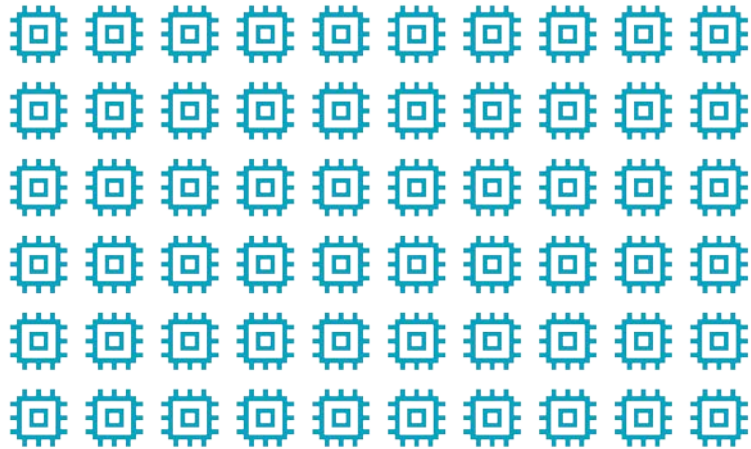
A network of regional institutes, each with a specialized technology focus.

Secure the future of manufacturing in the U.S. through innovation, collaboration, workforce development, and education.



Understanding the scope of the problem

60 FHE OCCUPATIONS



NATIONAL AVERAGE SALARY

\$55,883

AGE GAP



GENDER GAP



9,628,062 FHE WORKERS IN 2016

1,442,606 FHE JOB POSTINGS IN 2016

OCCUPATIONS: CONCEPTUALIZE, DESIGN, MAKE, INSTALL, OPERATE, INTEGRATE, MAINTAIN, REPURPOSE



Our approach to addressing the problem



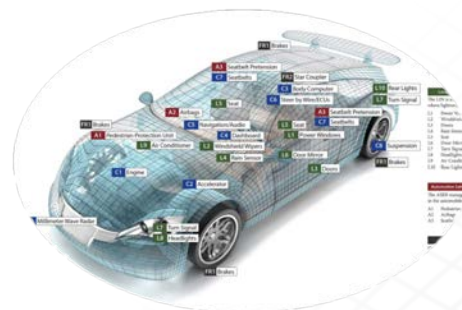
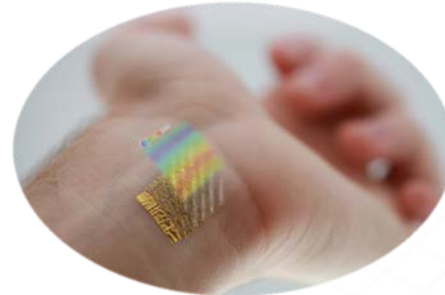
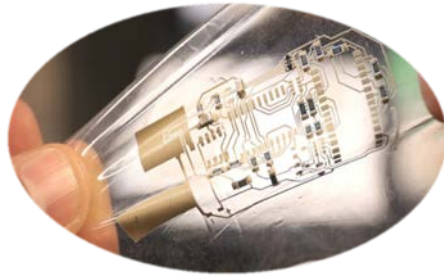
FLEXFACTOR: THE FUTURE OF ADVANCED MANUFACTURING



Generating interest and excitement in young people

NEXT FLEX

START WITH THE PROBLEMS YOU WANT TO SOLVE, NOT THE DEGREE YOU EARN



Four weeks of awesome



Week 1:
Define Problem; Research Hypothesis



Week 2:
Develop Product Idea



Week 3:
Build a Business Model



Week 4:
Finalize Pitch and Rehearse

Days																																		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35

●
Career
Workshop

●
Kick-off

●
Industry Day
Field Trip /
Rehearsal

●
College Day
Field Trip /
College
Classes

●
Rehearsal

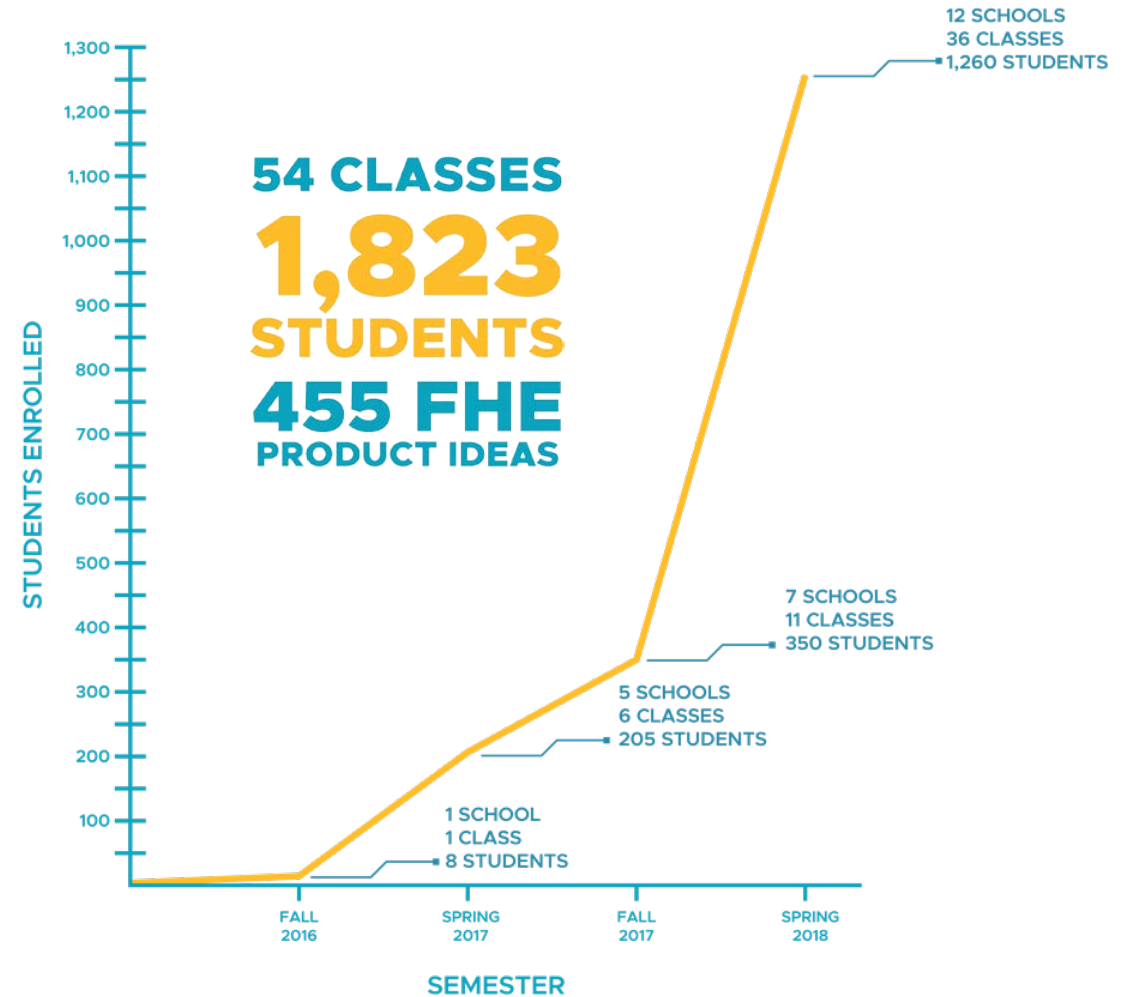
●
Formal
Pitch

●
Career
Workshop




Growth

- Core activity remains focused on four week HS program
- Rapid growth within Santa Clara County in first four semesters (chart to the right)
 - San Jose Unified, East Side Union, Campbell Union, Santa Clara Unified, Milpitas Unified
- Focus on expanding both industry and college partners as well as signing up new high school districts
 - Jabil
 - Xilinx
 - DowDupont
 - Many other small and medium companies




Inaugural end of semester event

- FlexFactor Finals: Silicon Valley
- First pilot of an end of semester celebration, December 7th, 2017
- The top student team from each school this semester in a finals "shark tank"
- Co-hosted by NextFlex, San Jose City College, and Jabil
- VIP reception/poster session, finals event, awards and prizes




HelloSign
Westmont High School
Elizabeth Woodfill, Makana Diez, Katie DaQuino & Toshi Bayler
December 7, 2017



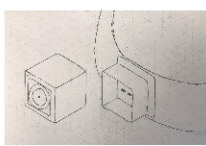
Problem

- Lack of efficient communication
- Communication between ASL & non-ASL speakers is difficult






Product Solution

- Sense & translate signs
- Uses Kinect technology
- Projects the translation – speaker & earpiece



Technology Business Model

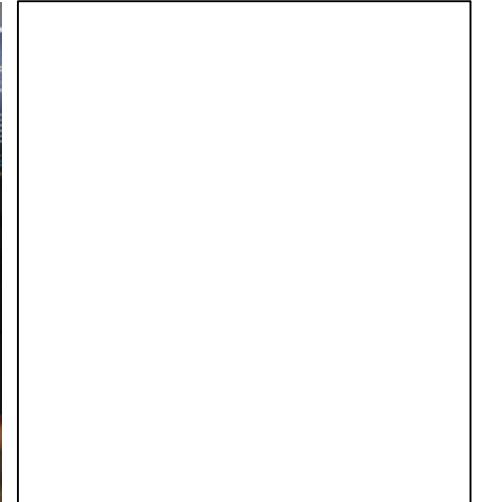
- Partners
 - Jabil & NextFlex
 - Initial Targets
 - People who are deaf or mute
 - National Association of the Deaf





One day Sprints

- New initiative: 1-day Sprint segments
- Focus on groups and cohorts of Young Women in STEM, Veterans, and other under-represented populations
- Pilot this spring with 10 one-day iterations for Young Women in STEM



A call to action

