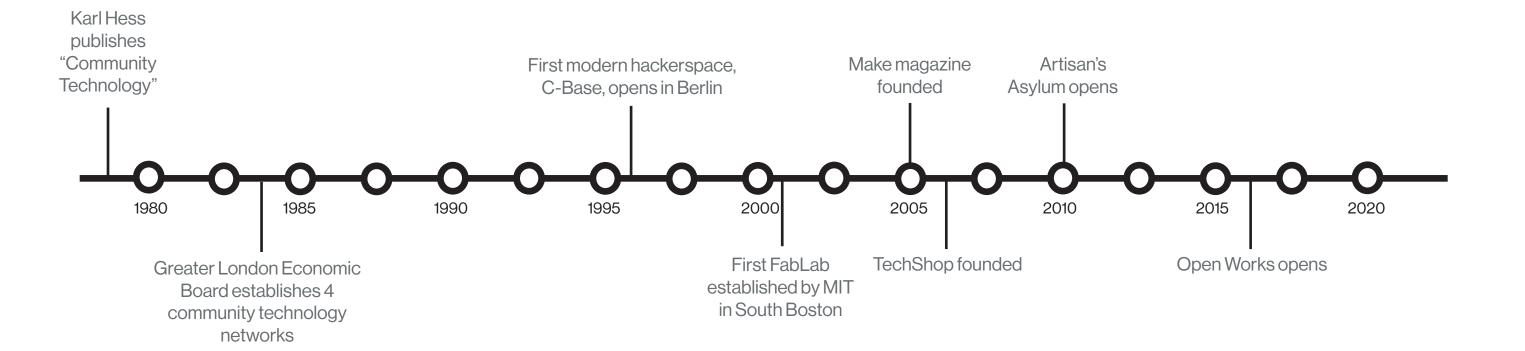
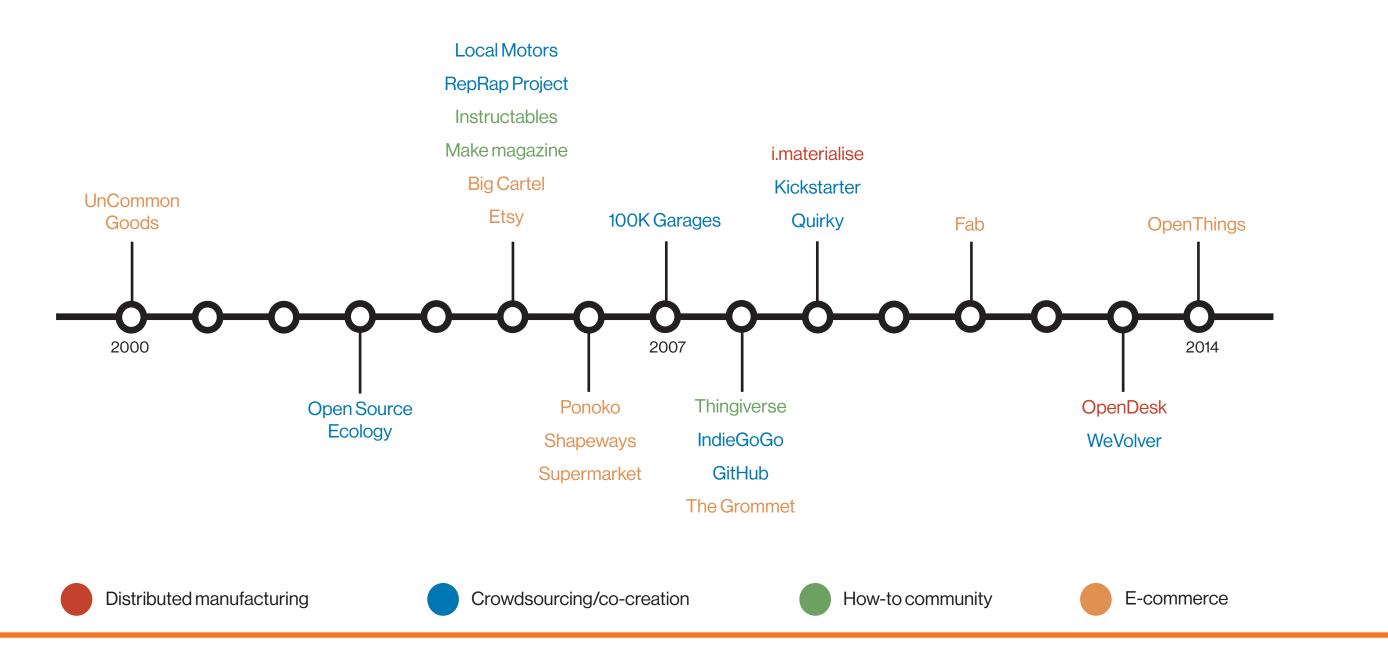


Design School & the Industry Turn Design Museum, London, UK 19 June 2017

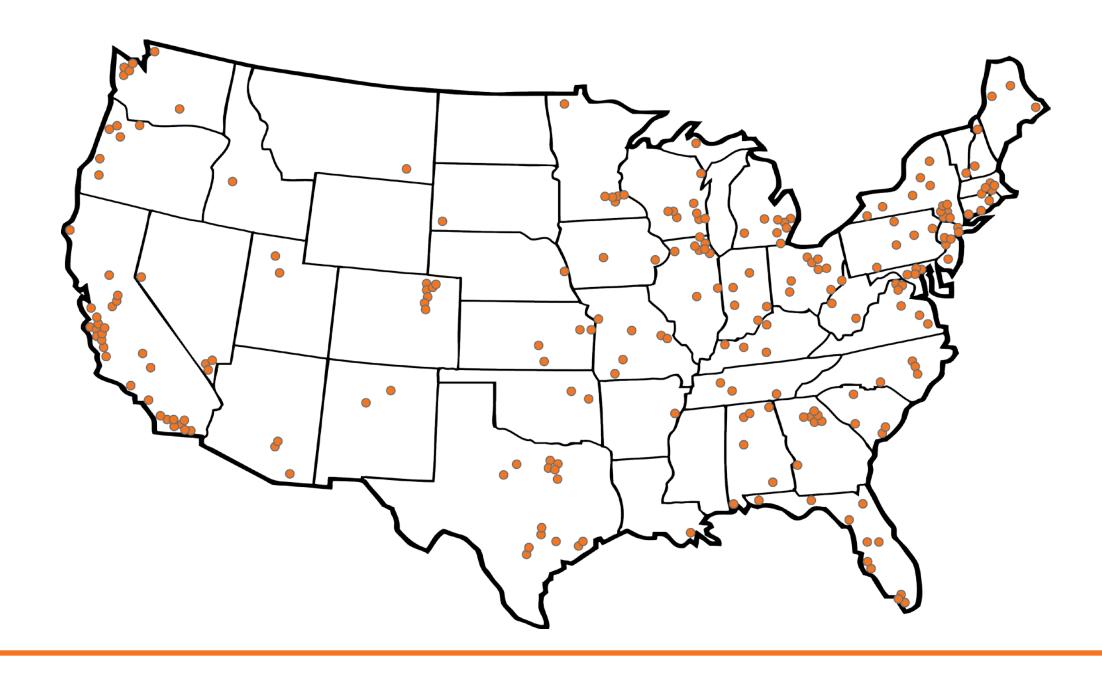




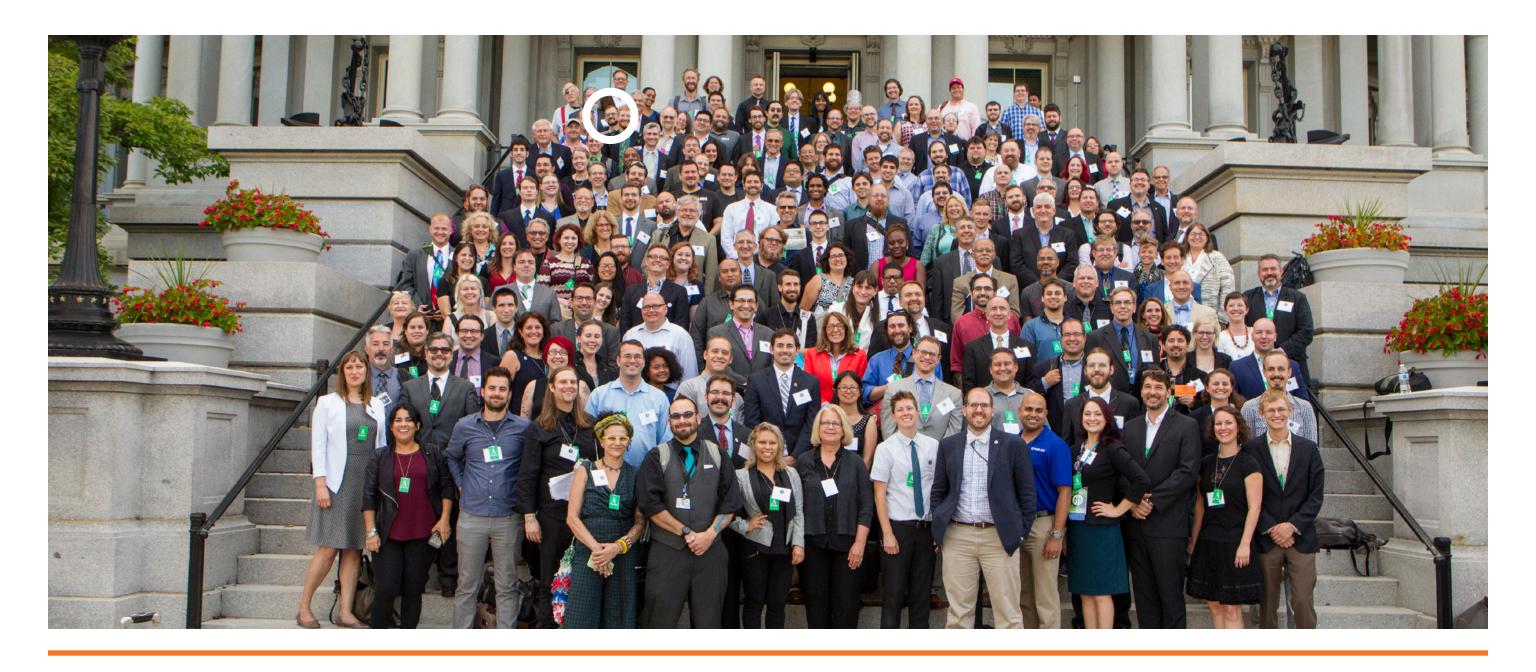
Modern makerspace development



Design platform development



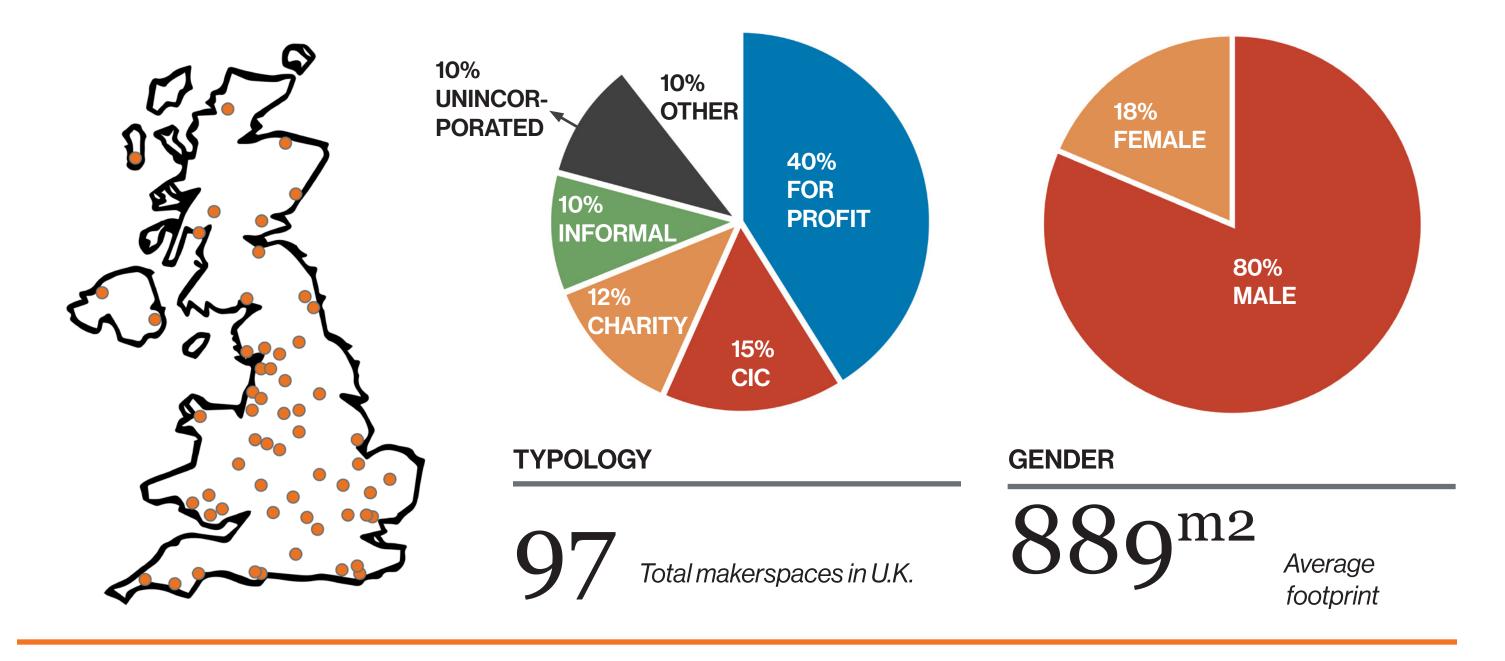
Over 300 makerspaces across the U.S.



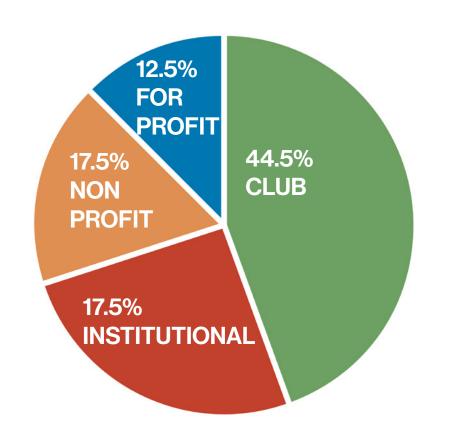
Nation of Makers

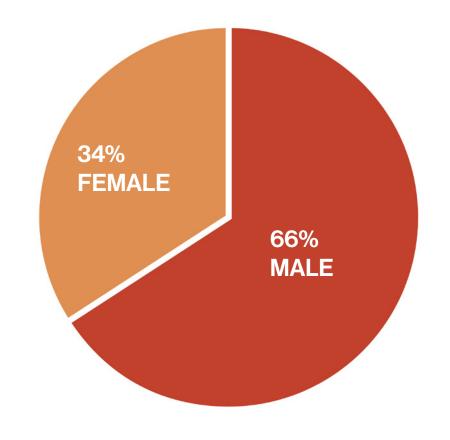


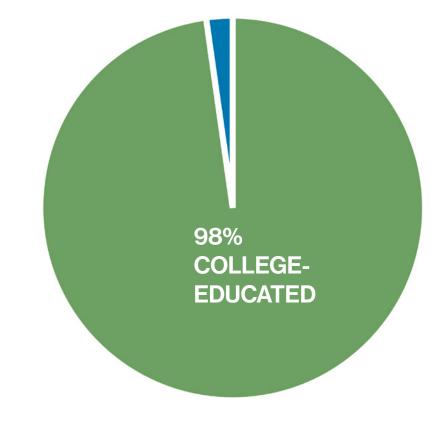
Global FabLab Network



U.K. makerspace characteristics







TYPOLOGY

\$50 Average monthly cost

GENDER

889^{m2}

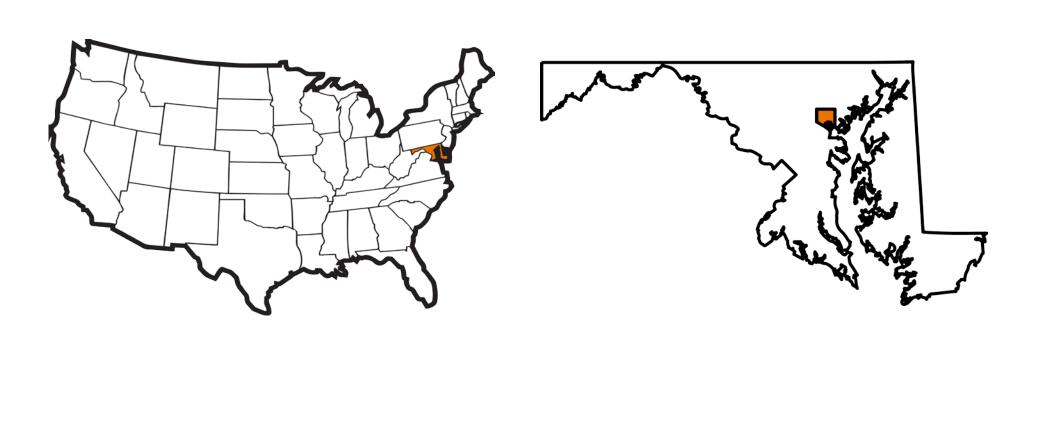
Average footprint

EDUCATION

150

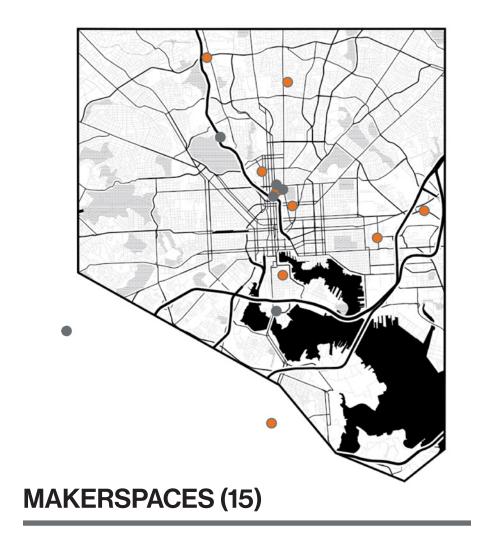
Average membership base

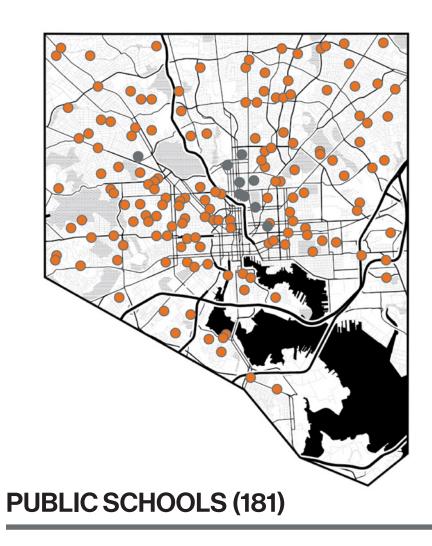
U.S. makerspace characteristics

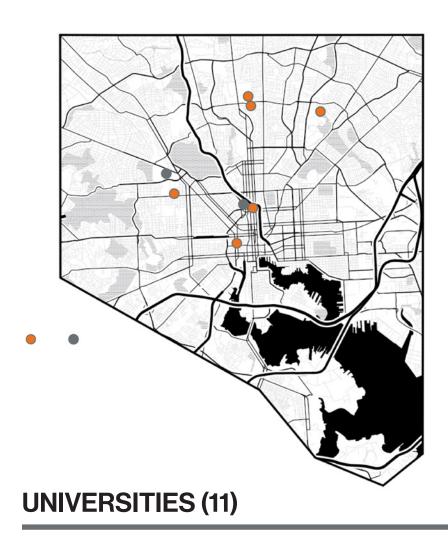




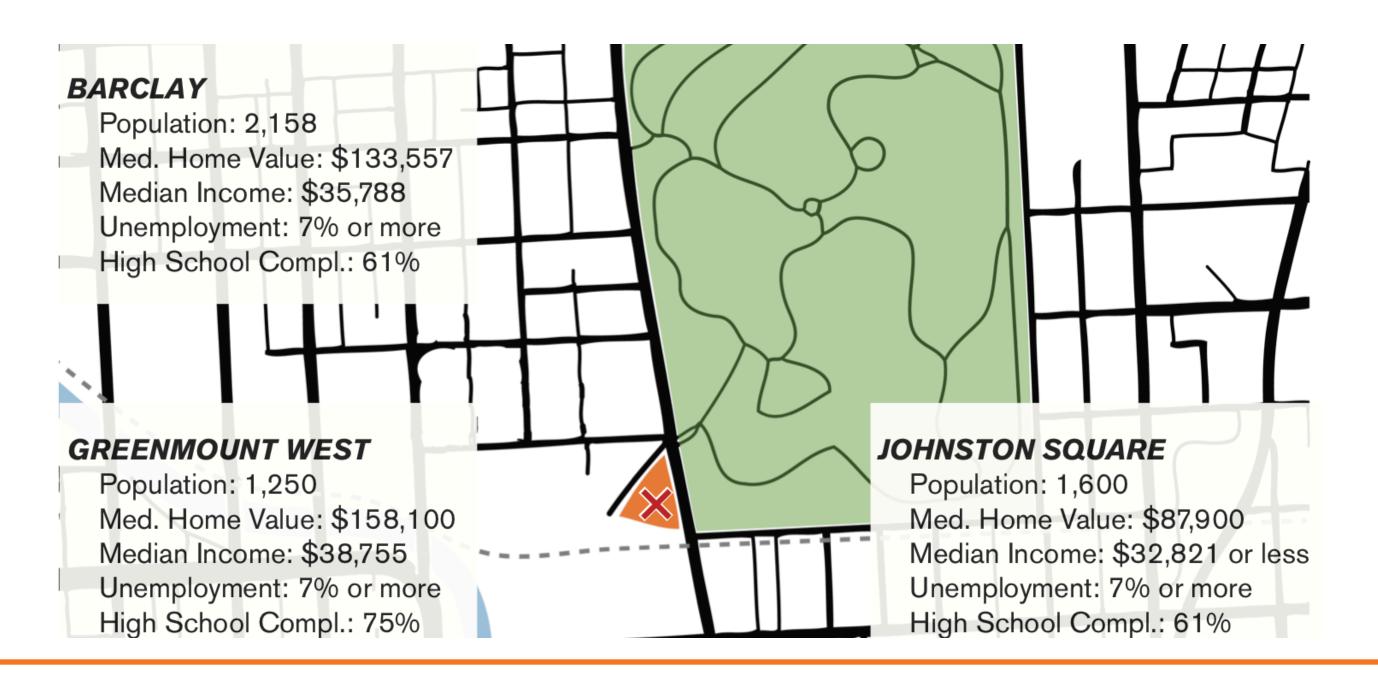
Baltimore







Local Context



Neighborhood indicators





2013-15



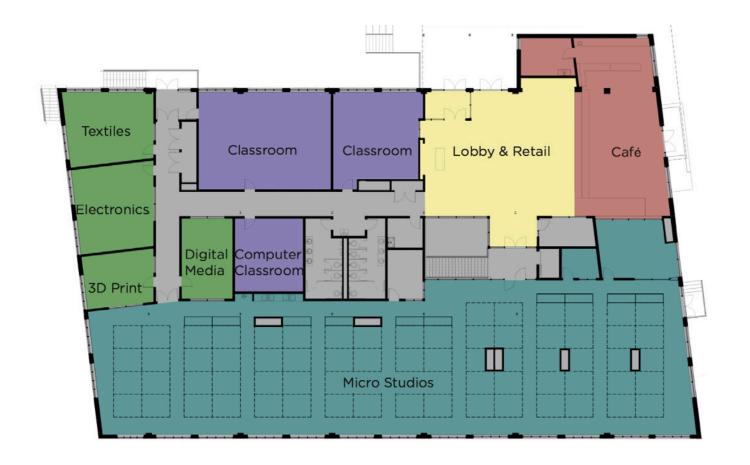


2013-15





Design evolution





UPPER LEVEL

LOWER LEVEL

Floor plans



Rendering



Construction



Opened Sept. 28th, 2016



7 workshops + computer lab



144 micro-studios



Greenmount Coffee Lab



Our mission is to make tools, technology, & the knowledge to use them accessible to all.

INSTITUTIONAL PARTNERS

Universities
Baltimore City Public Schools

RWD FOUNDATION

Primary Funder

OPEN WORKS

Nonprofit makerspace

FABRICATION

EDUCATION

Partner organizations

Contract teachers

Technicians

BARCO

Nonprofit Developer/Landlord Business support/fiscal sponsor

PRIMARY FUNDERS/PARTNERS

MEMBERSHIP

Member Service Associates Ambassadors

DEPARTMENTAL STRUCTURE

Organizational Structure

EDUCATION

Partner organizations Contract teachers University partnerships Adult classes Grant funding

OPEN WORKS

Nonprofit makerspace

FABRICATION

Technicians

Contract services
Hire-an-expert
Material sales

MEMBERSHIP

Member Service Associates Ambassadors Studio rentals

Maker member: \$70/mo. Builder member: \$90/mo. Pro member: \$125/mo. Group memberships

Event rentals

Business Model

MAKE-YOUR-OWN

Project-based classes

OPEN WORKS MOBILE

Off-site maker programming primarily K-5 audience

JOB TRAINING

Cut-and-sew job training pilot program

CRASH COURSES

Skill-based classes

TEEN MAKER SHOP

After school cohort of 15 teens from neighboring high school

SENIOR CLASSES

Scholarship classes for sewing and woodowrking

SAFETY + CERTIFICATION

Required for shop access

YOUTH MAKER SHOP

After-school / Saturday mornings

COMMUNITY BENEFIT

Weekly farmer's market, coffee shop, drone race

ADULT EDUCATION

YOUTH EDUCATION

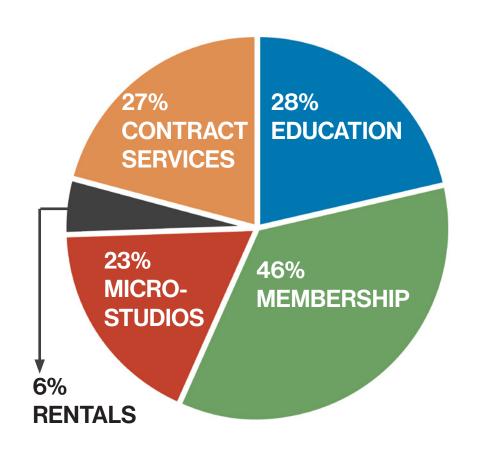
COMMUNITY PROGRAMMING

Programming Structure

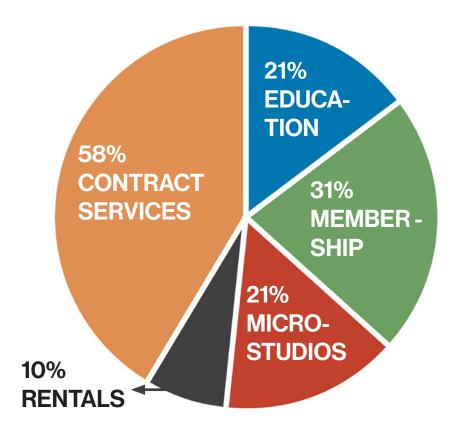


Learning Cycle





PROJECTED



ACTUAL TO DATE

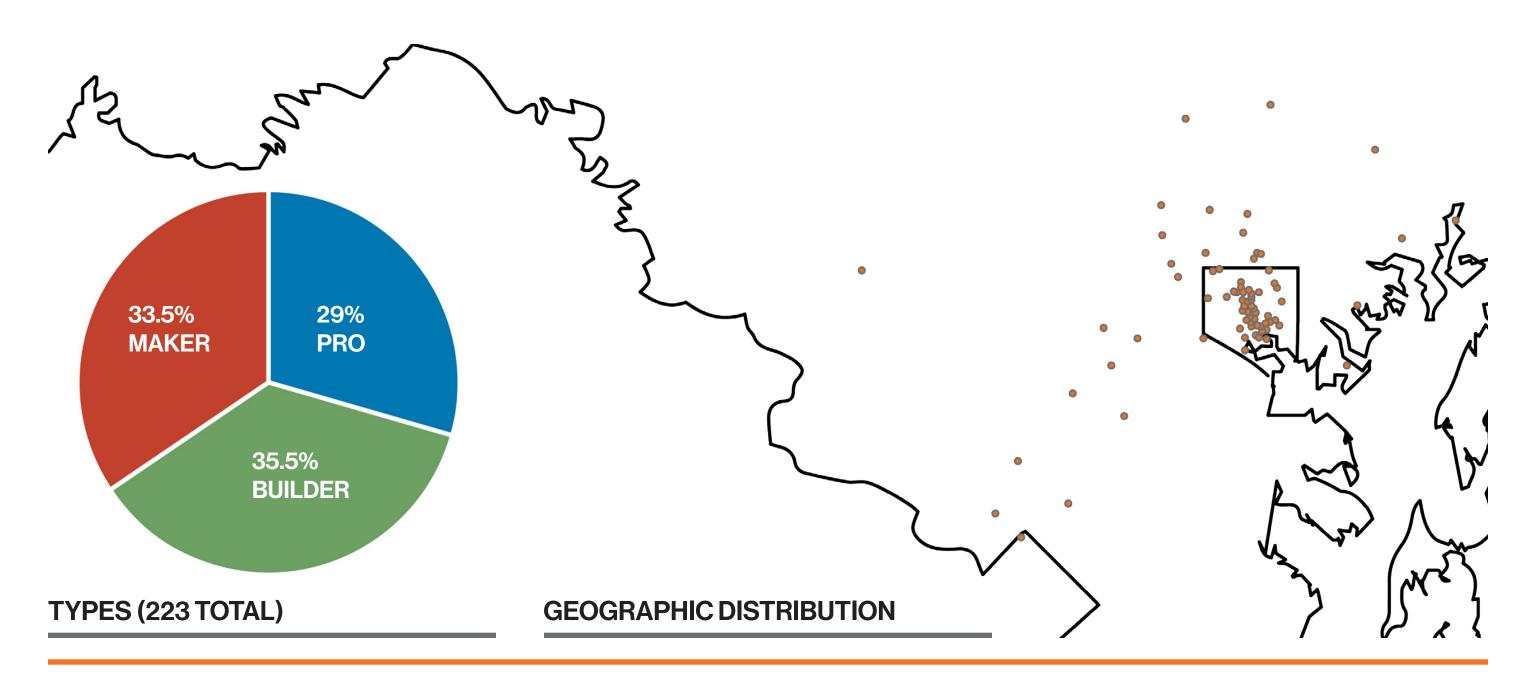
\$95 Average Monthly Membership Fee

\$75 Hourly Contract Services Rate

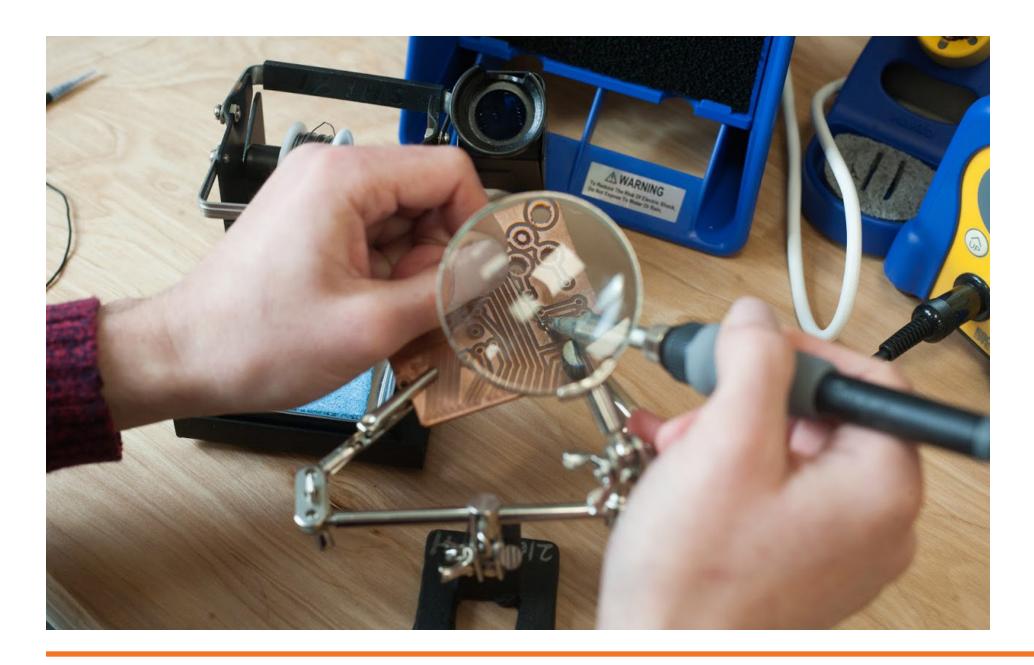
\$22
Average Hourly
Class Fee

400 Projected Member Capacity

Business Model



Membership



598 Safety class participants since opening

121 Elective class participants since opening

292 Youth class participants since opening

46 Open Works Mobile site visits

Education





69 Jobs complete



OPEN DESK

Open Desk distributed manufacturing jobs



DIY VACUUM-FORMER

\$3,035

AVg. JOD

Fabrication

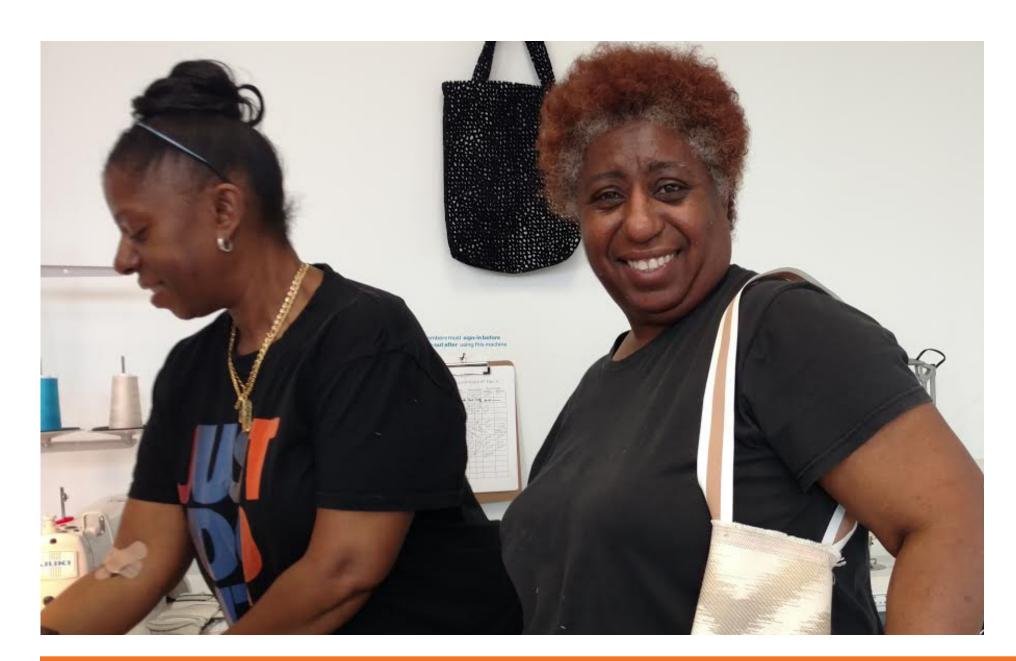








Member projects





Community



What does this mean for the future of design?



Manufacturing

The smile curve



19% U.S. share of global

manufacturing output

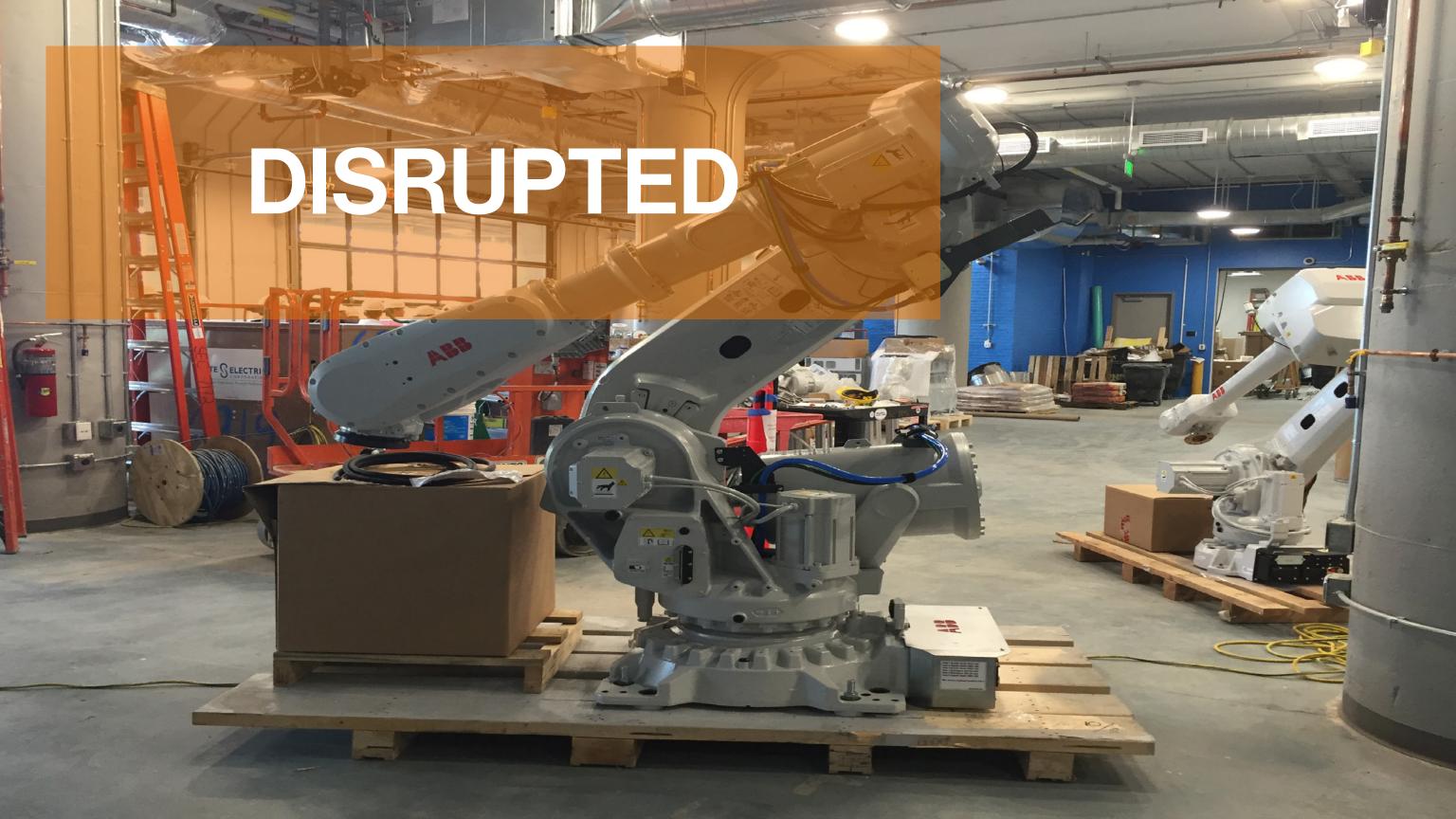
53M Number of U.S.

contractual workers

55% Jobs vulnerable to automation

63% Growth in local single-employer manufacturers since 2003

Manufacturing + employment trends









THANK YOU!



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