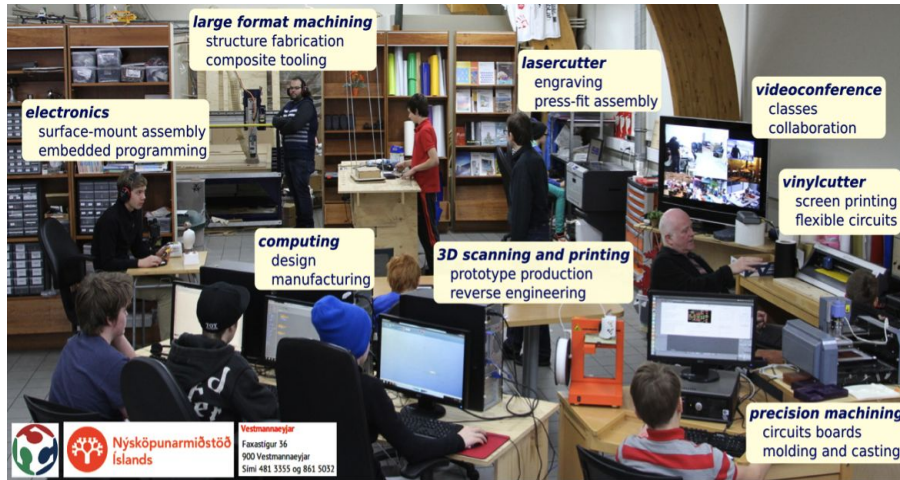




**K-12 EDU**

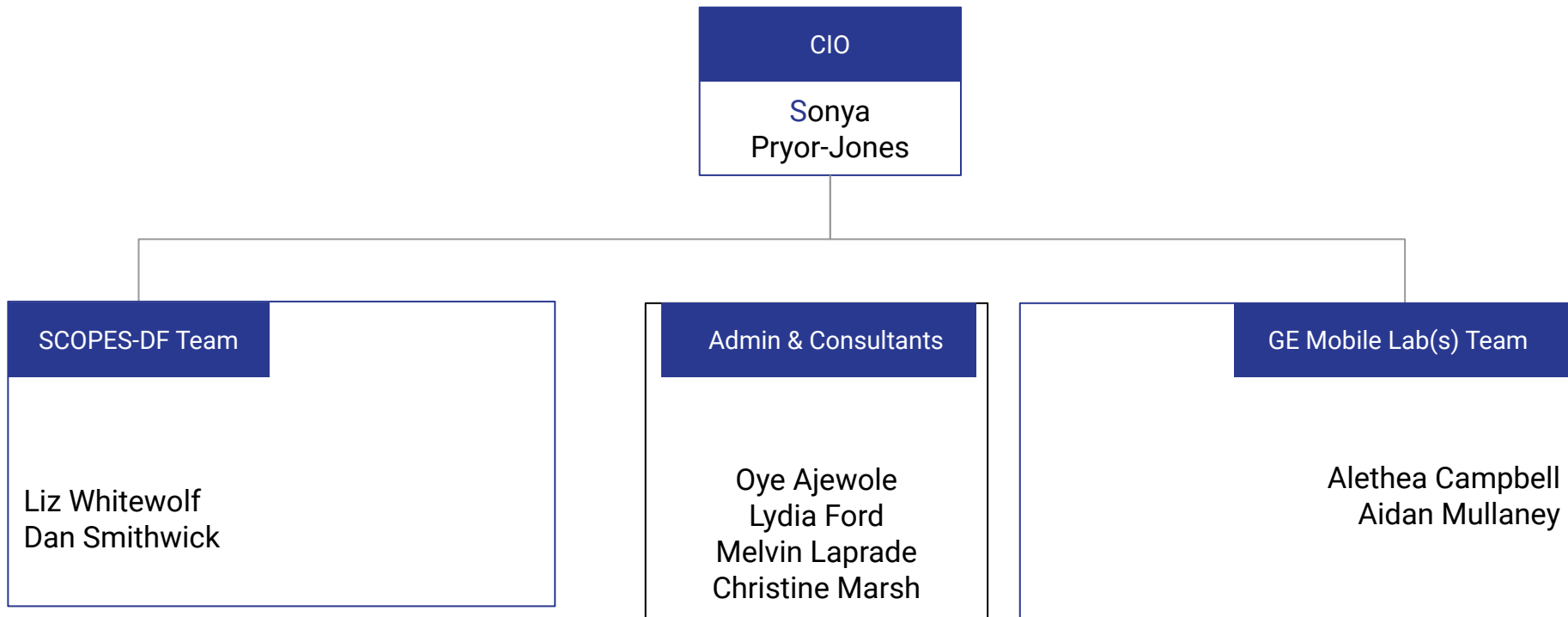
# FAB FOUNDATION



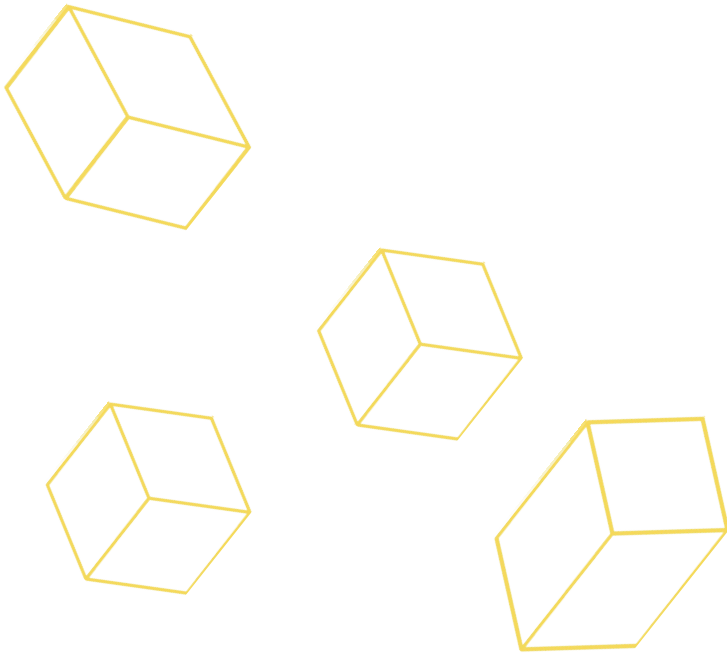
**Our mission** is to provide access to the tools, the knowledge and the financial means to educate, innovate and invent using technology and digital fabrication to allow anyone to make (almost) anything, and thereby creating opportunities to improve lives and livelihoods around the world. Community organizations, educational institutions and non-profit concerns are our primary beneficiaries. The Foundation has three programmatic foci: **education (.edu)**, organizational capacity building and services (.org), and business opportunity (.com).



## K-12 EDU Team

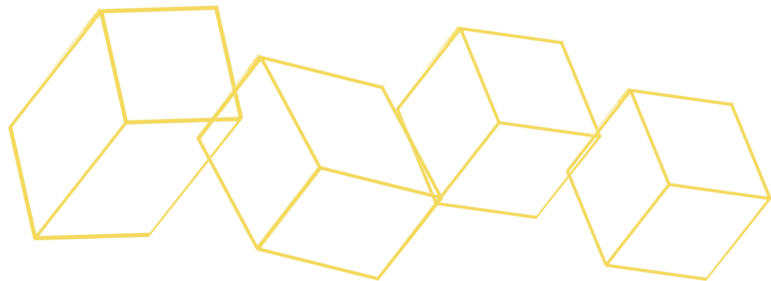


## K-12 Education Portfolio



- **Chevron Fab Labs**-10 labs across the U.S, focused on supporting K-12 STEM
- **GE Brilliant Career Labs**-Two mobile labs operated and staffed by FF serving high school and middle school students in greater Boston with a focus on career exploration
- **SCOPES-DF**-An online and offline community of practice developing shared curriculum and approaches to digital fabrication literacy

## IMPACT



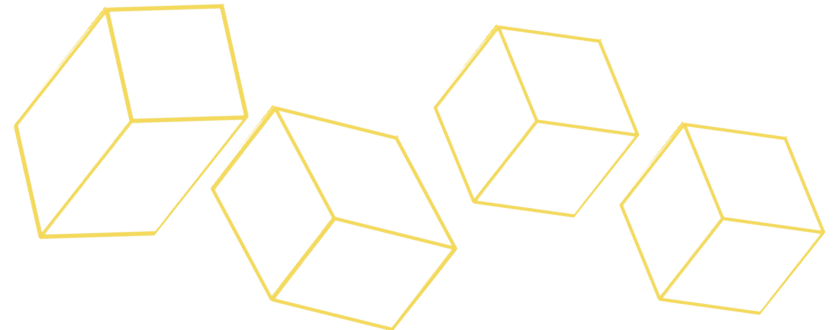
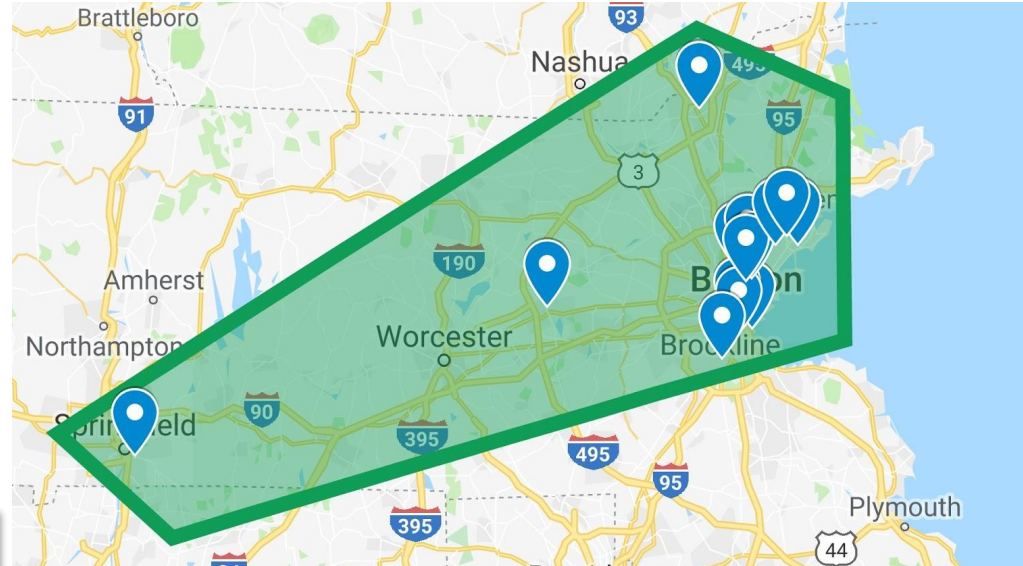
**Chevron Fab Labs**-10 stationary & six new mobile spaces. 1.8 M leveraged funds. 66,351 direct beneficiaries, and 37,000 indirect. 50-70% female participation. 2,240 teachers trained, and 12,071 parent/community members engaged. STEM Education Awards over \$30,000 to date.

Additionally, over 2000 PPE products for the COVID-19 response.



## IMPACT

**GE Brilliant Career Labs-** 5922 students served, 249 courses, and 156 teacher collaborators.



## IMPACT

**SCOPES-DF** - 885 community members on the website, 135 lessons and, 6 special collections. Pedagogy based resources (the website, Fab I Can Statements, the Playbook, and the Toolkit). A working evaluation tool.

Additionally, COVID-19 Responses:

- **UNPLUGGED** Special Collection
- **Teacher Innovator Award**



SCOPES-DF HOME ABOUT LESSONS COMMUNITY RESOURCES MY ACCOUNT MAKE A LESSON PLAN

K-12 STANDARDS-ALIGNED OPEN-SOURCE

**Our community makes digital fabrication lessons for classrooms.**

FIND OUT MORE

LET'S FAB What Do You Teach?

All Search

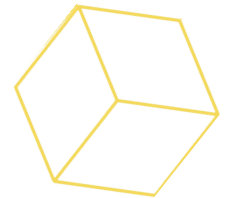
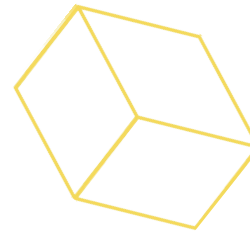
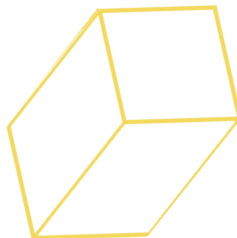
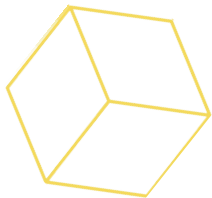
Join our community to develop equitable learning in the 21st century!

Create and share digital fabrication lessons with educators all around the world.

United States	Colombia
Peru	Kenya
Spain	Netherlands
Brazil	United Arab Emirates
India	Greece
Canada	Morocco
Italy	Portugal
Germany	Singapore
France	Belgium
Mexico	Switzerland
United Kingdom	Chile
Philippines	Denmark
Australia	Ireland
Qatar	South Korea
China	Lithuania

## Challenges

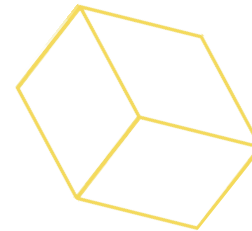
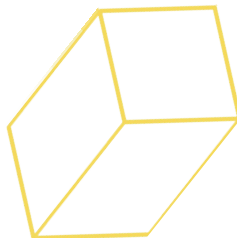
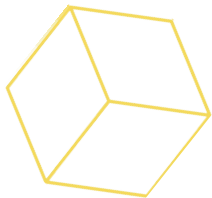
- Limited human capital with expertise at the intersection between K-12 practice and digital fabrication know how
- Time (extended time in traditional school environments for the process)
- Sustainable rails (political capital and public resources)
- Adoption at a national scale and local reach





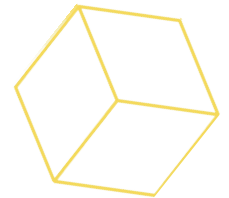
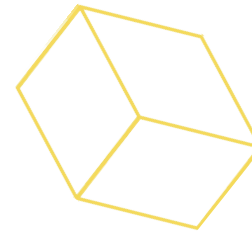
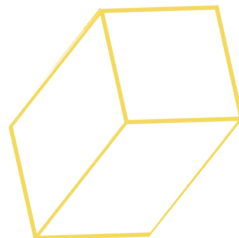
## Opportunities

- Staff additions and expertise
- NSF INCLUDES Grant with peer organizations
- COVID-19 innovations
- Clarity



## 2020 Priorities

- K-12 EDU framework that undergirds and connects our theory and our practices
- New funding and program partners
- Operational supports (communications and development)
- Staffing and workflow alignment
- Strategic engagement with Fab Lab Network K-12 efforts



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[www.scopesdf.org](http://www.scopesdf.org)

