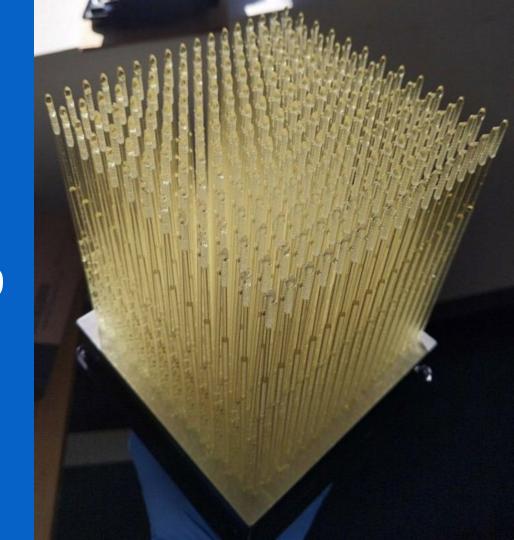


Lessons for the Automotive Industry from Formlabs' Response to COVID-19

https://formlabs.com/covid -19-response/

Dan Recht, Global Business Development Lead



Agenda

- 1. Introduction to Formlabs
- 2. Formlabs' COVID-19 response
- 3. Recommendations for the automotive industry



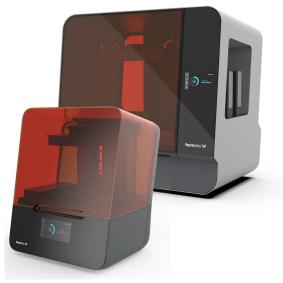
Formlabs is expanding access to digital fabrication, so anyone can make anything.













FORM 1 FORM 1+ FORM 2 FORM 3 / 3L FORM 3B

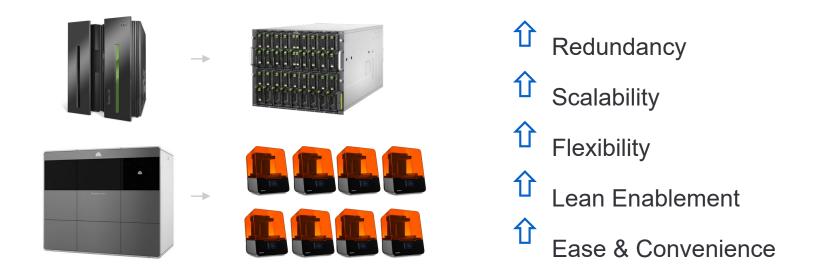
2012 2014 2015 2019



50,000,000

PARTS

The Agile Future of Digital Manufacturing



Just as mainframes gave way to blade servers, additive manufacturing will transition to modular production.

Formlabs Ohio in March: 5k samples/week



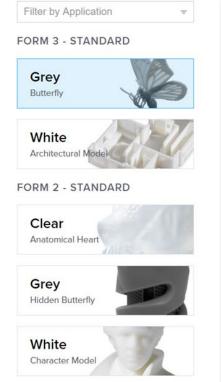




250 Form 2s

11 FTEs

Pick a material from the menu below. Samples of all materials printed on the Form 3 are coming soon. Sample parts printed on the Form 2 may be used for comparing some basic material properties of each of our resins, though you can expect variation in surface finish and other properties when printed on the Form 3.





Formlabs Ohio in April: COVID-19 Test Swabs

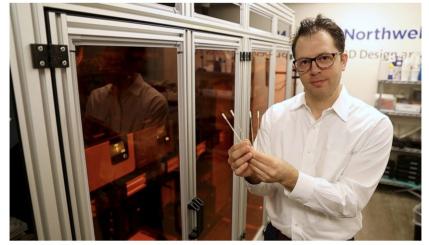
Retool to Ramp: 2 weeks
 Capacity: 100K Test Swabs/day
 Test Swab - FDA Exempt Class
 1 Medical Device



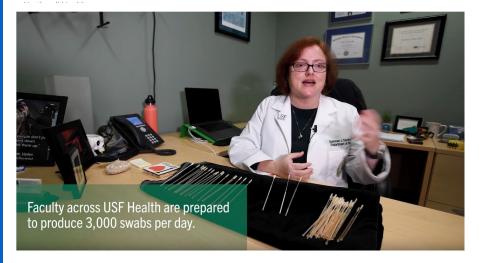
Partnered with Northwell Health and USF

Prototype & optimize design
 Validation Testing
 Rapid Clinical Testing

Results: Performed equally to standard swabs used in COVID-19 Testing

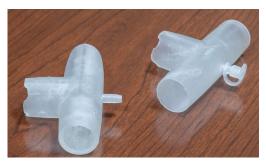


Dr. Todd Goldstein holds 3D-printed nasal swabs made at Northwell Health.





BIPAP ADAPTERS







1 Gustave L. Levy Pl New York, NY 10029 T 212-241-6500 mountsinai.org

Repurposing bi-level ventilators for use with intubated patients while minimizing risk to health care works during insufficient supply of conventional ventilation for patients with COVID-19

Feinstein Institutes for Medical Research
Northwell Health

Institutes & researchers Clinical trials Education Events For professionals Journals About us 🖀 Give now

The latest

Northwell converts BiPAP machines into ventilators for hospitalized COVID-19 patients, uses 3D printed adapter

March 31st, 2020 Matthew Libassi



Formlabs gets FDA emergency use authorization for a 3D-printed ventilator conversion part

Formlabs Covid Community Library

bit.ly/3b92ghG

Formlabs Support Network for COVID -19

Formlabs is drawing on our community to connect those in need with those who have engineering, clinical and 3D printing resources. Pleasereach out to us if:

 You or your organization is working on COVID-19 related projects and need access to 3D printed parts, or

You or your team have access to Formlabs manufactured 3D printers and are willing to volunteer your time and equipment in the fight against COVID-19.

3,000+ volunteers and counting

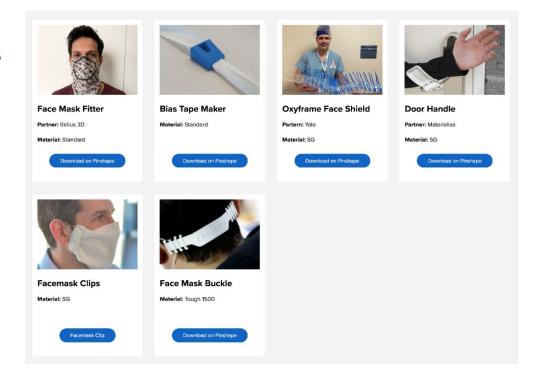
STL Library on Formlabs Website

Formlabs curated library of nonmedical device COVID-19 solutions

Ready for our user community to print and source to first responders in urgent need of PPE

Contributors from

Bellus3D
 Yale School of Medicine
 Materialise
 Formlabs Community



Our designers and engineers are maintaining productivity by bringing printers home



Lessons for the automotive industry

It is possible to go from zero to a global digital factory in weeks