

MANUFACTURE NEW YORK



SBIRxIGNITE: REDEFINING THE FASHION TECH
ECOSYSTEM FOR THE 21st CENTURY

BOB BLAND, CEO + FOUNDER | MANUFACTURE NY



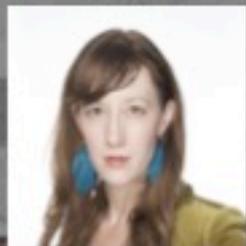
PEOPLE, PLACE, PROCESS

FASHION INCUBATOR/ACCELERATOR
MANUFACTURING FACILITY
R&D TECHNOLOGY LAB

for the future of fashion, textiles & wearable tech

DESIGN, DEVELOPMENT, DISTRIBUTION

TEAM



Bob Bland
CEO

Ralph Lauren
Marc by Marc Jacobs
Brooklyn Royalty



Amanda Parkes, PhD
CTO + Director of R&D

MIT Media Lab
Columbia University
Skinteractive Studio
Bodega Algae



Rob Sanchez
CSO

Fordham Law
New York Angels
Yale University



Patrick Duffy
VP of Sustainability +
External Affairs
A Clean Future
UC Berkeley Urban Planning
NYSERDA



Steven Capozzola
Media Director

Alliance for America Manufacturing
U.S. Business & Industry Council



Julianne Gauron
R&D Studio Director

New Balance
Burberry
NASA -RISD



Margaret May
Lead Patternmaker

Peter Som
Bow & Drape
Haute Hippie

THE MARKET

Apparel
e-commerce
\$73B
in 2017

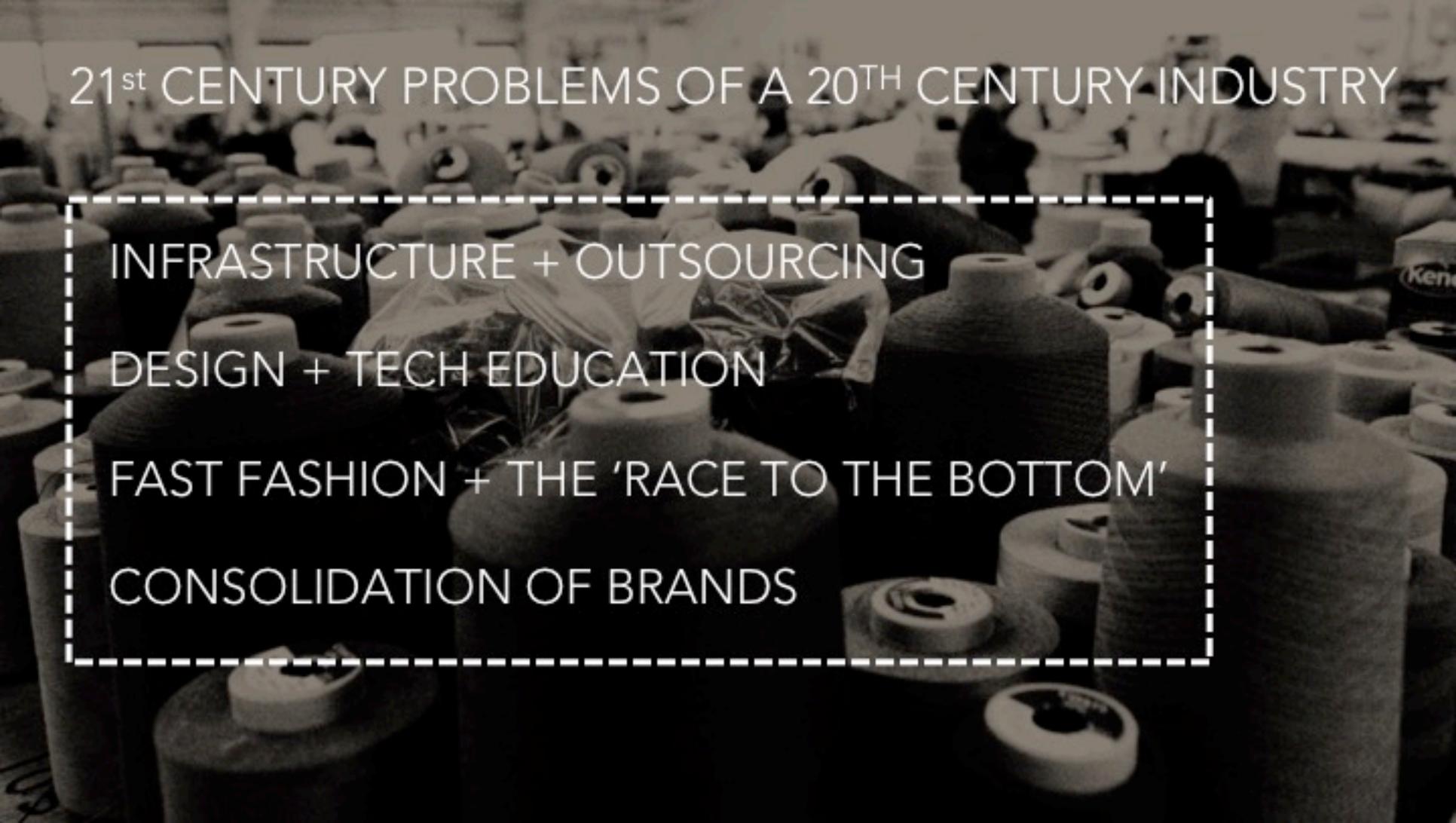
Value of textile
innovation
\$1.7T

Value of apparel
\$2T

Value of
apparel
made in USA
\$13B

Value of
wearables
\$2B
w/ 26%
annual growth

U.S. Apparel
Market Retail
Sales
\$225B



21st CENTURY PROBLEMS OF A 20TH CENTURY INDUSTRY

INFRASTRUCTURE + OUTSOURCING

DESIGN + TECH EDUCATION

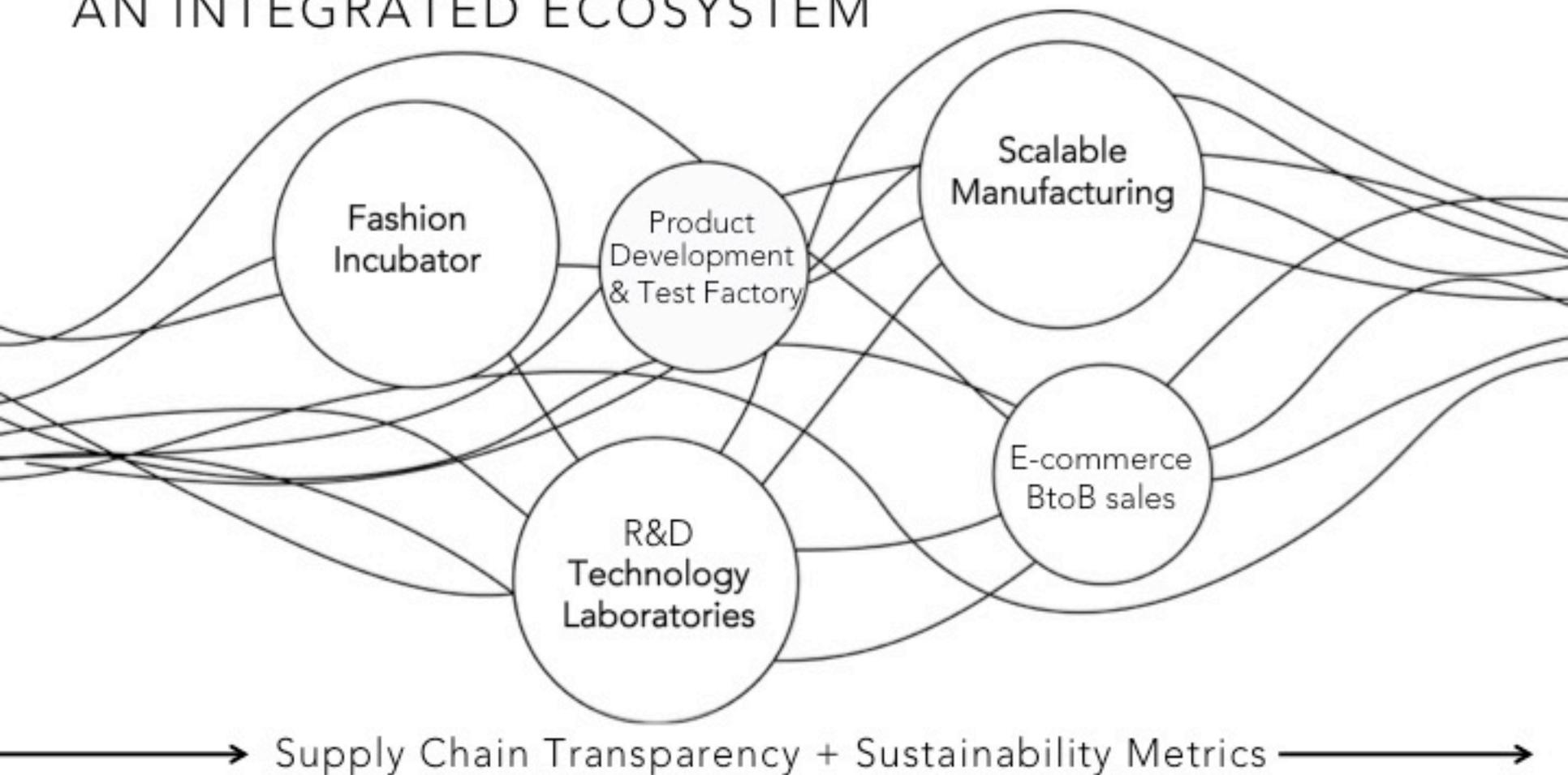
FAST FASHION + THE 'RACE TO THE BOTTOM'

CONSOLIDATION OF BRANDS

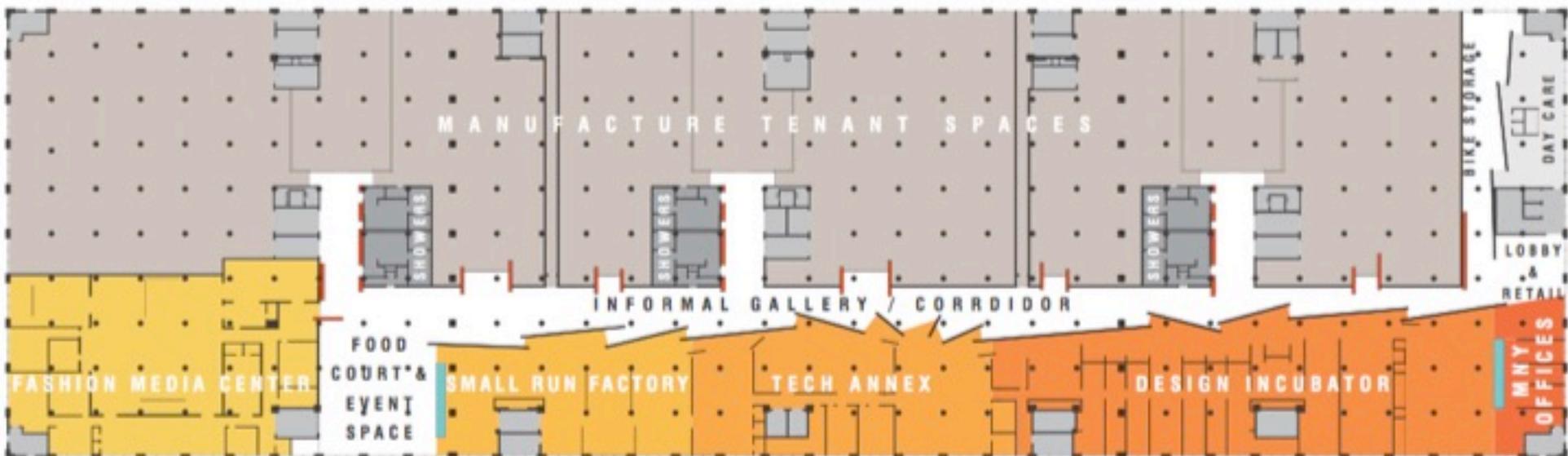


OUR MISSION IS TO REAWAKEN AND REBUILD
AMERICA'S FASHION INDUSTRY,
FOSTER THE NEXT WAVE OF BUSINESSES,
AND CREATE A TRANSPARENT, SUSTAINABLE
GLOBAL SUPPLY CHAIN

AN INTEGRATED ECOSYSTEM



INNOVATION THROUGH PROXIMITY





LIBERTY VIEW INDUSTRIAL PLAZA
SUNSET PARK, BROOKLYN

MANUFACTURING INNOVATION CENTER

- 320,000 sq ft high quality industrial space in Sunset Park, Brooklyn
- 40,000 sq ft MNY Headquarters
 - Space for 30+ fashion designers
 - Technology R&D center with 20 fashion tech start-ups
 - Small run manufacturing
 - Fashion Media Center
- 280,000 sq ft manufacturing space for 25-30 manufacturers in apparel, home goods, textiles, accessories







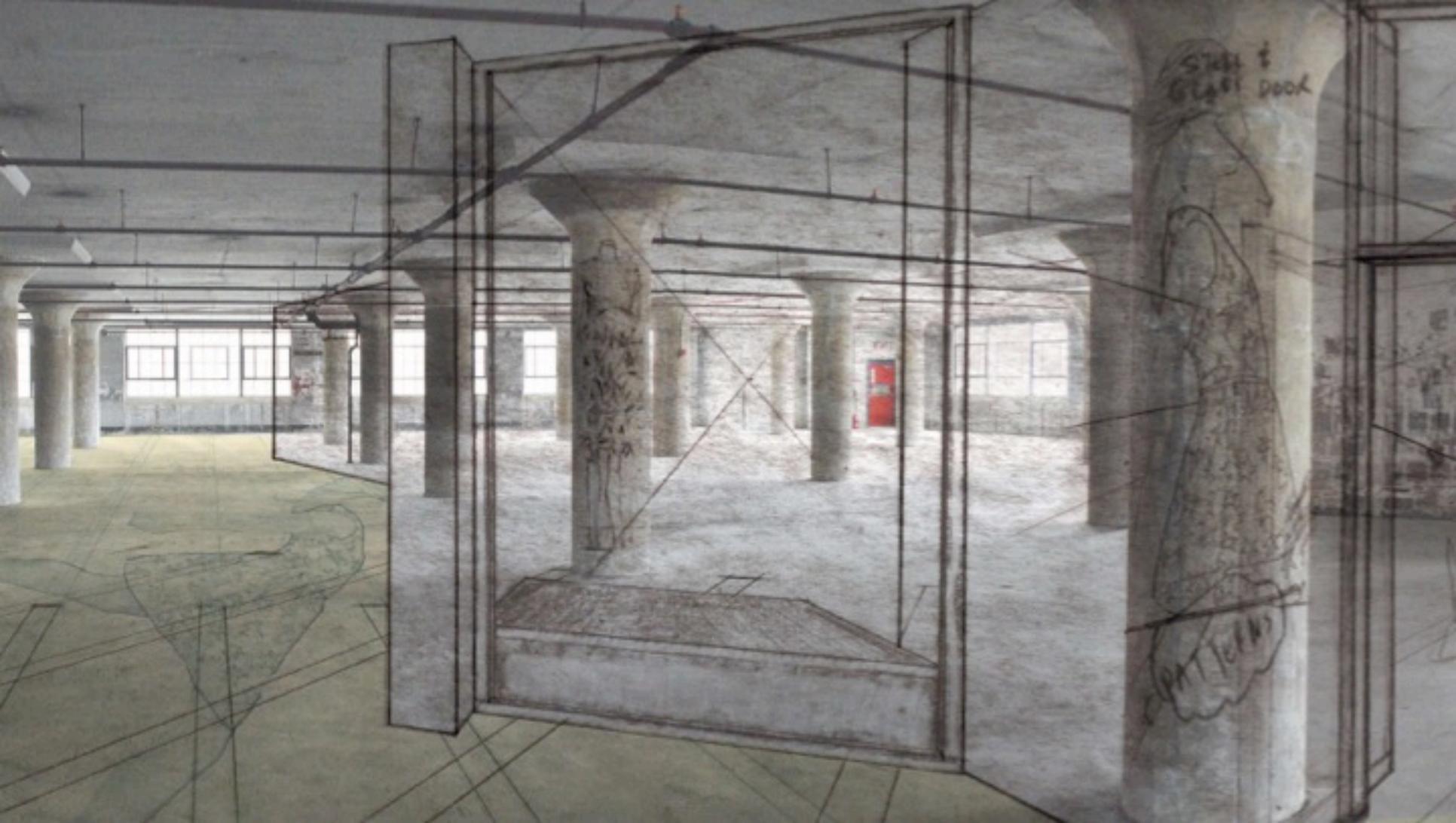


A large industrial factory with many workers at sewing machines. The workers are wearing white uniforms and are focused on their work. The factory has a high ceiling with many lights and pipes. The overall atmosphere is busy and industrial.

WHAT IS THE FUTURE OF THE FACTORY?

HOW DO WE CREATE A FACTORY THAT FEELS LIKE A DESIGN STUDIO, BREAKS DOWN BARRIERS ACROSS CREATIVITY FROM DESIGN THROUGH PRODUCTION



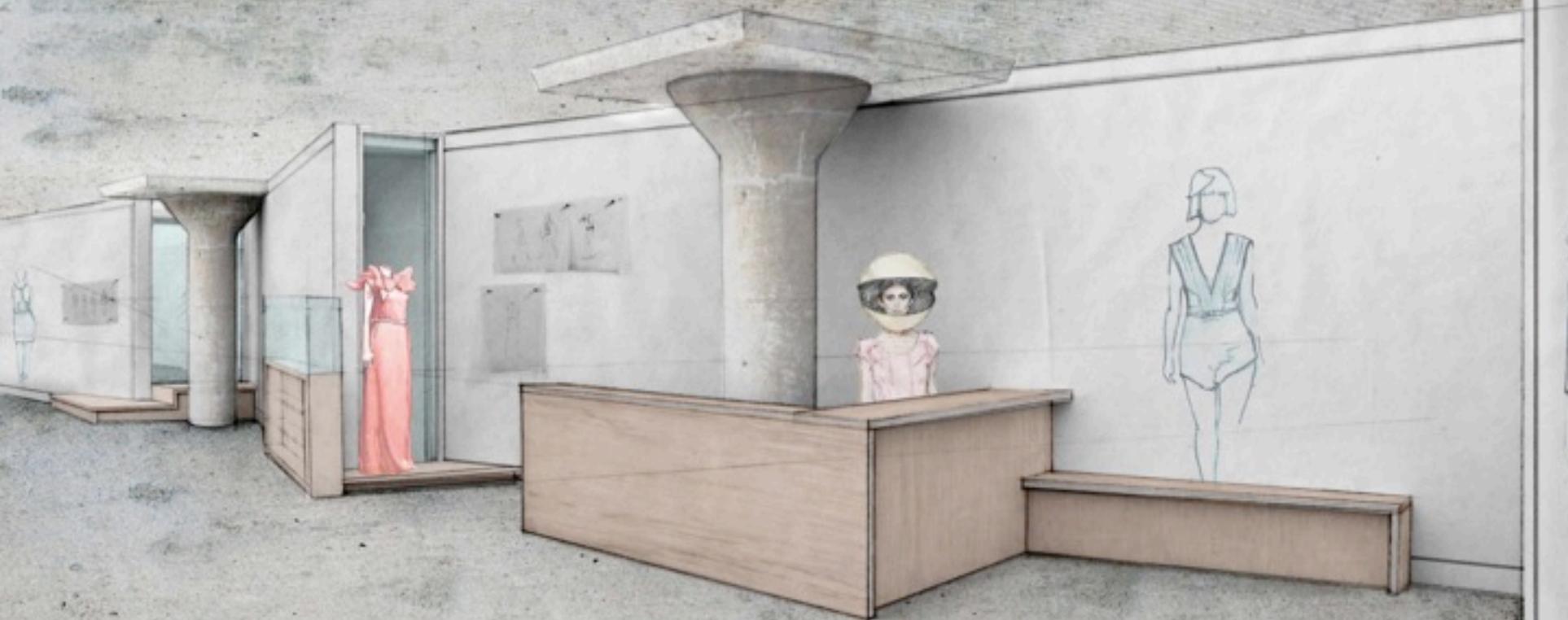


Steel &
Glass Door

PART 1000



PERSPECTIVE 3
DESIGN INCUBATOR RECEPTION DESK





\$3.5M Industrial Modernization Grant

The New York City Economic Development Corporation, in partnership with Deputy Mayor Alicia Glen, granted capital funds to subdivide 160,000 sq ft of manufacturing space



\$50K Obama Grant for Growth Accelerator Fund

The Small Business Administration, in partnership with the Department of Commerce, awarded us the Accelerator Growth Fund grant to expand our design incubator program



PUBLIC-PRIVATE PARTNERSHIP



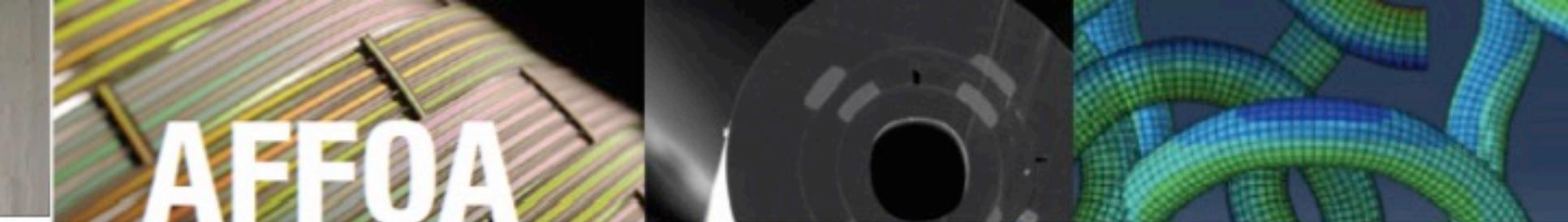
\$50K Customized Workforce Training Funds Grant

New York City Small Business Services awarded us funds to create a training program to upgrade skills on new equipment & software for current employees & new hires



\$150M Revolutionary Textile & Fibers Manufacturing Institute

AFFOA is strategically positioned as a National Fabric Innovation Network poised to deliver revolutionary advances across the entire fabric supply chain, from multifunctional fibers to advanced nonwovens and yarn production to sophisticated weaving and knitting capabilities and end-product fabrication for first-to-market manufacturing opportunities



AFFOA

Advanced Functional Fabrics of America

Revolutionary Fibers & Textiles Manufacturing Innovation Institute (RFT-MII)



wwd.com/business-news/government-trade/president-obama-lan...

WWD
WOMEN'S WEAR DAILY 04.16.2015

BUSINESS FINANCIAL GOVERNMENT / TRADE MERGERS / ACQUISITIONS LEGAL FOREG
MARKETING / PROMOTION HUMAN RESOURCES BUSINESS FEATURES TECHNOL

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March 18, 2015

President Obama Launches Competition for Textile Investment

By Kristi Ellis
with contributions from Arthur Friedman

from WWD issue 03/19/2015 DOWNLOAD PDF

WASHINGTON — President Obama upped the ante in his push for investing in Made in USA on Wednesday, launching a competition for a \$150 million public-private investment in a new textile manufacturing innovation institute.



ENTREPRENEURS (ENTREPRENEURS) 10/03/2014 @ 11:58AM | 1,964 views

How A National Network Can Spur Manufacturing Innovation

Comment Now Follow Comments

A formerly abandoned warehouse in Youngstown, Ohio is home to the latest 3D printing technology; at North Carolina State University next generation power electronics are being developed; in Chicago a consortium of companies, non-profits and research institutions is working on digital manufacturing and design innovation; in Detroit new processes to make lightweight metals are being developed.

2013-2015 IMPACT

Garment Center Pilot Program

30
Design Incubator
Graduates

We have had 2 classes, with 15 designers or brands each, work out of our co-working space & use the mentorship received to complete one full fashion cycle. 100% of our graduates are minorities or women.

2,500
Community
Members

We have built an extremely supportive, vibrant & diverse community of fashion lovers and Made In USA advocates locally, nationally & internationally

40
Made In NYC
New Brands

We have provided product development services for 40 emerging brands that either reshored their current lines or created new product in NYC

*by July 2014

Manufacturing Innovation Center

280
New or Retained
Manufacturing Jobs

We will be providing over 30 new jobs in the design incubator & tech annex alone, and retaining hundreds of local manufacturing jobs to support the local community

1000
Workforce
Development Trainees

The City of New York is partnering with us to develop a world class workforce training center for unemployed or disadvantaged local residents

150%
more designers,
technologists &
manufacturers served

With the expansion of our accelerator program, we will be able to at least triple our capacity to meet demand. We have had a waiting list for over a year.

*by end of 2015



TILLY & WILLIAM



MIMI / NYC



HEART & NOBLE

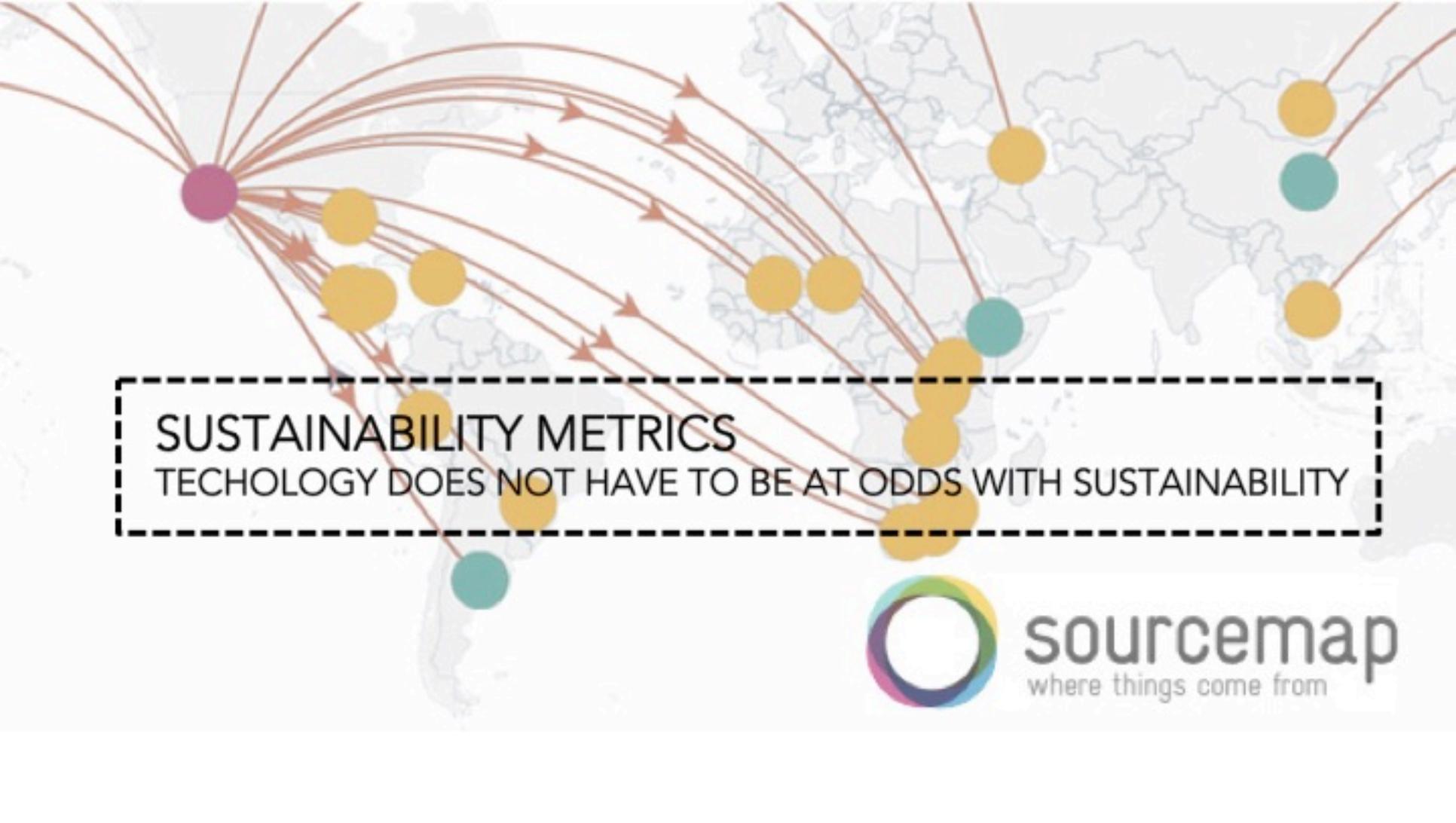




VOZ



NAMM CLOTHING



SUSTAINABILITY METRICS

TECHNOLOGY DOES NOT HAVE TO BE AT ODDS WITH SUSTAINABILITY



sourcemap
where things come from



COMBINING TRADITIONAL MANUFACTURING WITH
INNOVATIVE INDUSTRIAL MACHINES & PROCESSES



FASHION TECH R&D FACILITY

RESEARCH & PRODUCT DEVELOPMENT ON ENABLING TECHNOLOGIES, PROCESSES AND MATERIALS FOR THE FUTURE OF FASHION & TEXTILES

INFUSE TRADITIONAL MANUFACTURING WITH NEW SCIENTIFIC AND TECHNOLOGICAL IDEAS FOR NOVEL AND SUSTAINABLE FABRICATION PARADIGMS

CREATE PARTNERSHIPS & JOINT PROJECTS BETWEEN ACADEMIC LABS, START UPS, TECH CORPORATIONS & FASHION BRANDS

3 INTER-RELATED TECHNOLOGY LABS



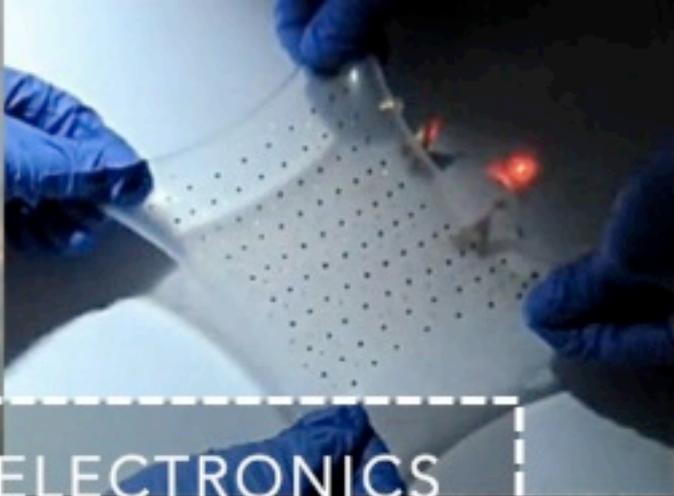
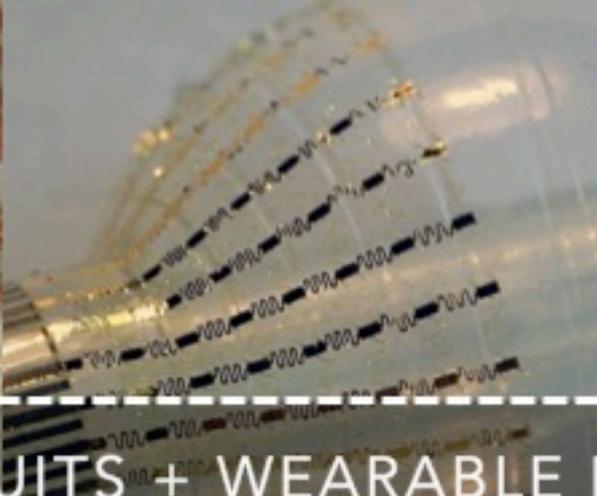
ADVANCED
DIGITAL
FABRICATION

SOFT CIRCUITS +
WEARABLE
ELECTRONICS

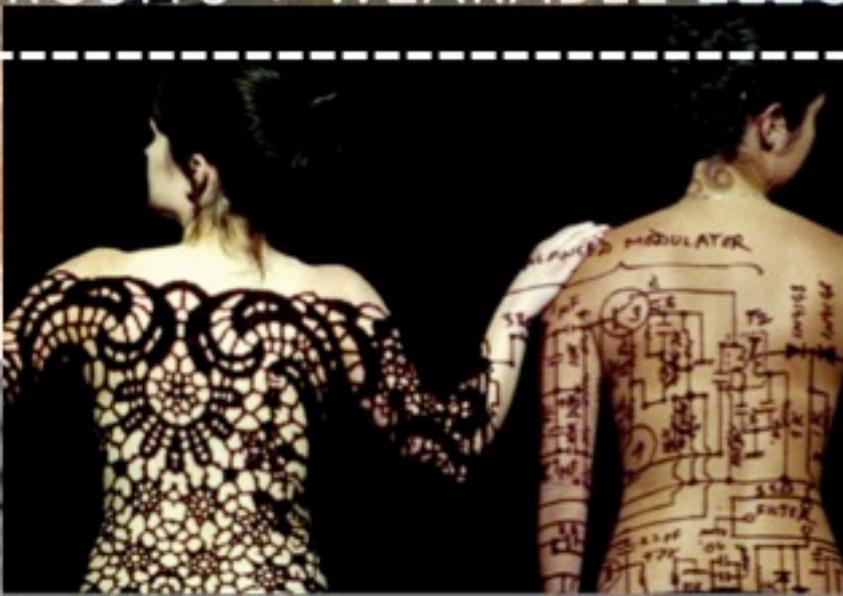
BIOLOGY +
CHEMISTRY

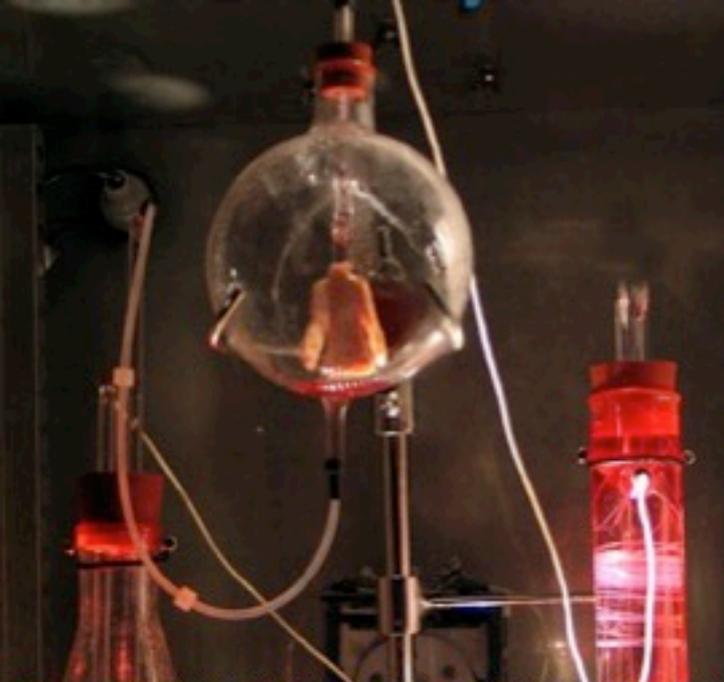


DIGITAL FABRICATION



SOFT CIRCUITS + WEARABLE ELECTRONICS

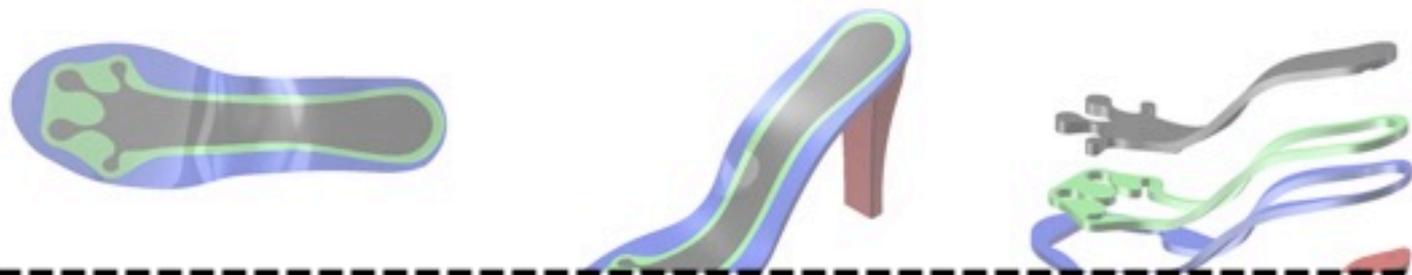




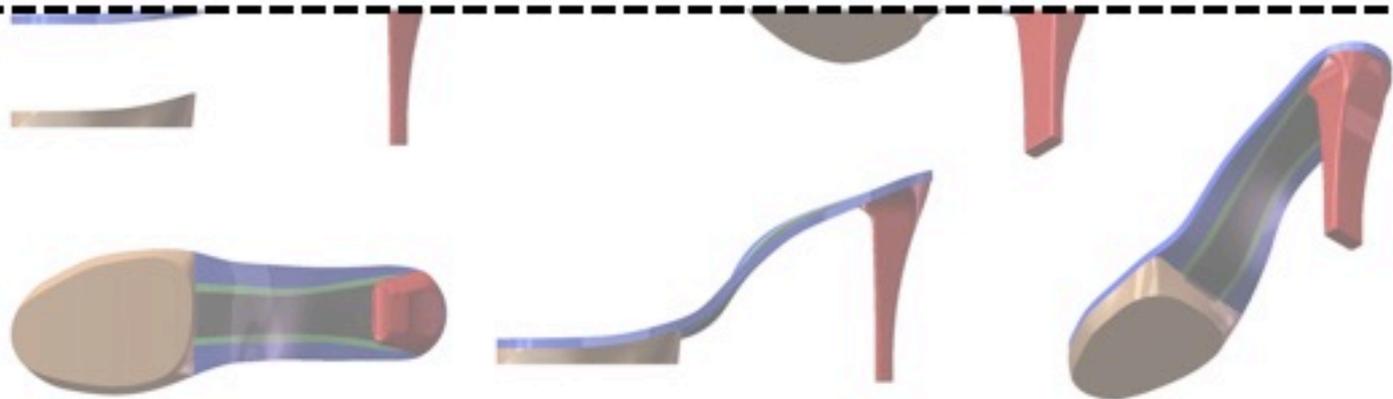
BIOLOGY, CHEMISTRY & BIOFABRICATION



BIOLOGY IS THE NEXT HARDWARE REVOLUTION



NOT ALL WEARABLE TECHNOLOGY
INVOLVES ELECTRONICS





THESIS

STYLE WITHOUT SACRIFICE



DANIEL SILVERSTEIN





DANIEL SILVERSTEIN
2014 Zero Waste Collection







TECH INNOVATION

This Fashion Startup Wants to Eliminate Stains Forever

Jack Linshi @jacklinshi | June 12, 2015

TIME

Dropel
Fabrics

Hydrophobic textiles could soon be in your closet

To most people, stain-resistant clothing sounds like a smart buy — but only if it's carried by their favorite brands in the styles they want.

Fashion startup [Dropel Fabrics](#) wants to close the gap between everyday clothes and wearable technology. A self-described “ingredient brand,” the





“ “ Vertically integrated factories such as Manufacture New York, where the designers work closely with producers, have the potential to elevate and re-skill the manufacturing jobs they create by bridging the divide between designers, consumers and people who make things.

This is New York fashion's most radical promise...

There are many hurdles to overcome, but hopes are high that New York fashion could become the harbinger of a twenty-first-century urban Industrial Revolution, heralding a new, more equitable era for the city.

- *The Nation*, January 2014

Fashion, Business & Government Supporters

Office of the Brooklyn Borough President	Save The Garment Center	Open Source Fashion Network
Office of Senator Kirsten Gillibrand	The Garment District Alliance (formerly the Fashion Center BID)	Decoded Fashion
Representative Nydia Velasquez	Fashion Institute of Technology	Impact Hub NYC
City Councilmember Brad Lander	Fashion Group International	Made In America Movement
City Councilmember Carlos Menchaca	Yeohlee Teng	Red Hook Initiative
Brooklyn Chamber of Commerce	Nanette Lepore	Restore Red Hook
Made In NYC (Pratt Center for Community Development)	Ralph Rucci	TrimLab
Southwest Brooklyn Industrial Development Corporation	Norma Kamali	RePopRoom
American Sustainable Business Council	Eileen Fisher	LIM College
The Design Trust for Public Space	Centre for Social Innovation	FashInvest
	Social Enterprise Alliance	

Technology & Academic Partners & Supporters

MIT Media Lab
Columbia University-
Dept of Architecture
& Computer Science
Princeton University-
Dept of Material Science
Harvard University GSD
Stanford University Product Design
NYU ITP
Parsons Fashion Technology
Fashion Institute of Technology
Copenhagen Institute
of Interaction Design
Intel
Makerbot
Shapeways

3D Systems
Statusys
Autodesk
iMaterialise
Francis Bitonti Studio
3D Hubs
Other Labs
Sewbo
Bodylabs
3D Hubs
Other Labs
Sewbo
Bodylabs
Wearable Experiments
Body-by-Print
Fabrican
NewAer

Biocouture
Modern Meadow
Genspace
Synbiota
Epibone
MC-10
Bare Conductive Ink
Terreform One
New Lab
Nooka Mind style
Thesis Couture
Rock Paper Robot
Sourcemap
Tennaxia
Geli
Littlebits



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TWITTER: @MANUFACTURENY #tothefuture

BOB BLAND, CEO + FOUNDER | MANUFACTURE NY