GLOCALIZED BIOFABRICATION ECOSYSTEMS



M.A. Sustainability in Fashion and Creative Industries // AMD Berlin // Strategic Foresight and Sustainable Digital Transformation // Prof. Dr. Ingo Rollwagen & (Kaia)Olivia Allbritton, Cheryl Barr, Natalia Llanos, Juliana Villegas This work is licensed under the Creative Commons Attribution 4.0 International License. To view a copy of this license, visit http://creativecommons.org/licenses/by/4.0/ or send a letter to Creative Commons, PO Box 1866, Mountain View, CA 94042, USA.

A declining globalized system and the pressure caused by climate change will lead to a multidisciplinary fusion of creative industries, science and technology for breakthroughs in biomaterials with shorter, more efficient and transparent supply chains.

A global collaborative environment using AI and VR to develop new materials and the integration of Blockchain to track resources and shorten supply chains for hyperlocal manufacturing will be the drivers for the emergence of "Glocalized biofabrication Ecosystems".



SDG 17

Cross-disciplinary collaborations among researchers, scientists, corporations, and investors towards the creation of more circular bio-based materials.

SDG 9

SDG 13

EVENTS

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Breakdown of globalized supply chains, biomaterials istainable & circular systems

PATTERNS/TRENDS

UNDERLYING STRUCTURES

Open source and patent waivers are the starting point for more technology and science transfer in diverse contributions in the future in the pro of collective wellbeing. resources for future generations.

MENTAL MODELS

Emergent systems of thinking around sustainability are introducing new values that are replacing old paradigms of prosperity. Shifting overproduction towards regenerative and

Circular Bio-flows

Regenerative biomaterials create a system that produces new products out of waste, keeps the value of materials in cyclical flows, and assist the regeneration of natural systems.

Local Jobs:

- Biomaterial:
- Researcher, Engineer • Expert, Professor
- Resource Manager/Analysts
- Ecologists/ Eco Lawyers
- Indigenous community
- representatives

2030+ **OPTIMIZATION**