

Sewing Architecture

Creating a unity of garment production and architecture fabrication

Output Packaging Ironing Labelling Inspection Sewing Printing Embroidery Cutting Spreading (Printing) Input

Instant line

Fully automated line

Hybrid line

Transition to automation

Labor intensive
production line

Current Production
Assembly line model

Direction switch
From Textile to Garment
From Garment to Textile
From Textile to Architecture
From Garment to Architecture

In the near future mass customization and automation as well as technology such as 3d printing will enable instant production on demand merging textile and garment production in one process.

Automation and digitalization shift towards a new production model: mass customization, reducing waste and increasing quality.

The transition to fully automated production will happen gradually including different degrees of automation on each production stage and will coexist with labor intensive systems.

The garment industry relies heavily on human labor due to the difficulties in handling fabrics. The existing ready to wear system creates clothing before demand resulting in overproduction and waste.

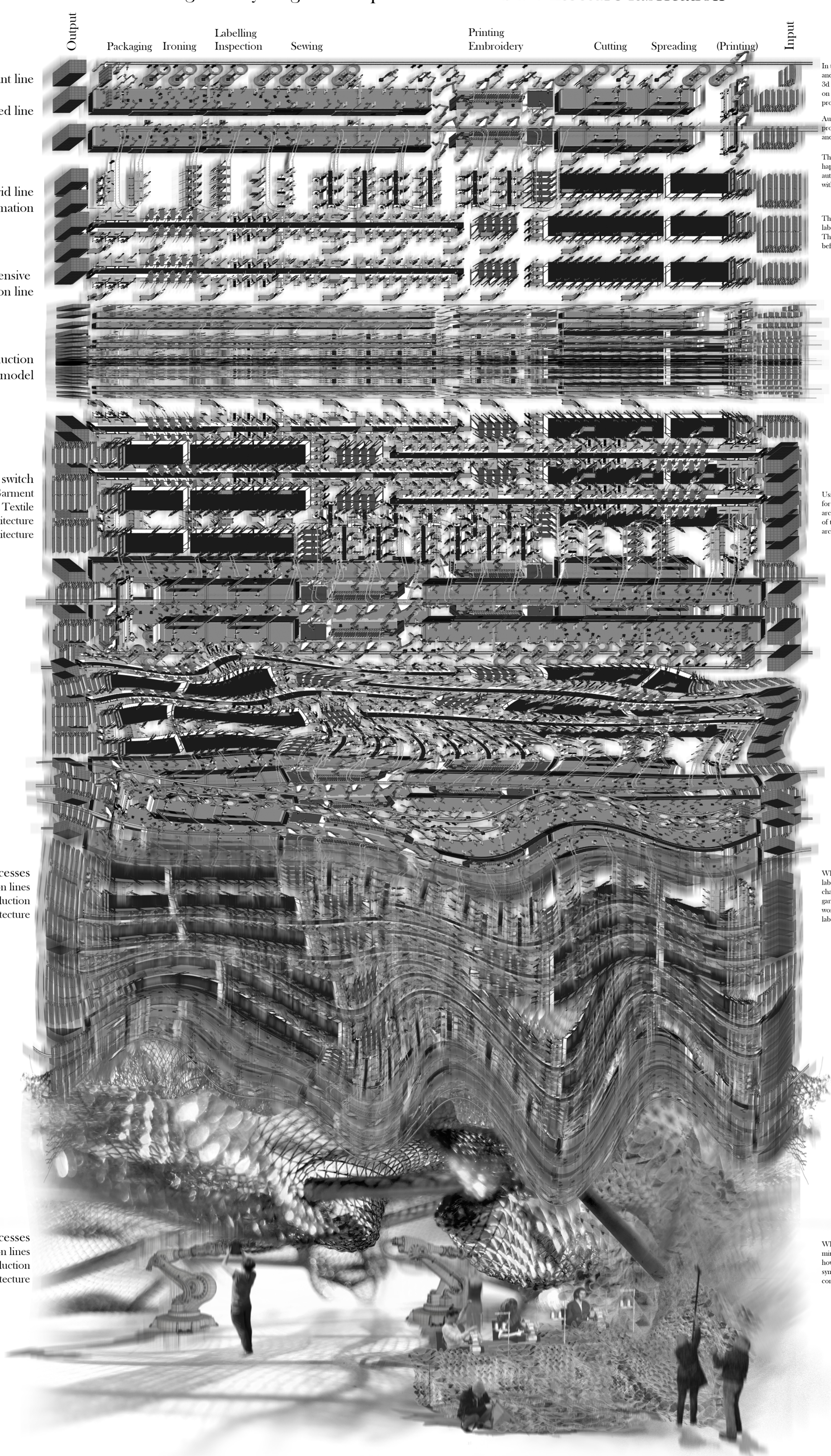
Using existing and future production lines for the creation of garments as well as architectural structures will allow a cross hybridization of two fields traditionally influencing each other since archaic times.

While automation will increasingly lead to better labor conditions the transitioning period creates challenges. By unifying architecture and garment production while increasing automation workers evolution and safety is achieved in a synergy of labor between humans and robots.

While robots need to be trained into mimicing human activity, humans need to learn how to work with robots. Structures created in a synergy of garment workers and robots will contribute to a smooth transition

Merging Production Processes
Bending the existing production lines
Simultaneity of garment production
and textile architecture

Merging Production Processes
Bending the existing production lines
Simultaneity of garment production
and textile architecture



City Within The City

Urban Territories of Textile and Clothing Production



Textile
Factories

Clothing
Factories
Big scale

Sweatshops
Home-Based
Work

Clothing
Factories
Small scale

Sweatshops
Home-Based
Work

Clothing
Factories
Small scale

Wholesale
malls - reduced
production

Wholesale
malls

Coşlu - Çerçenkoy

Bağcılar - Yenibosna

Sultangazi - Esenler

Merter

Tekstilkent-Gyimkent
Laleli - Osmanbey

Raw Material Processing

Hinterlands

Periphery - New center

Finished Garments

Center

Weaving and Spatial Coding
From weaving to digitalization - The space between threads - Transforming Lines

