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An evolved "knitting workshop"

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BACKGROUND ISSUES

Knitting product evolution.



StarckNaked,
Philip Starck



A-POC,
Issey Miyake

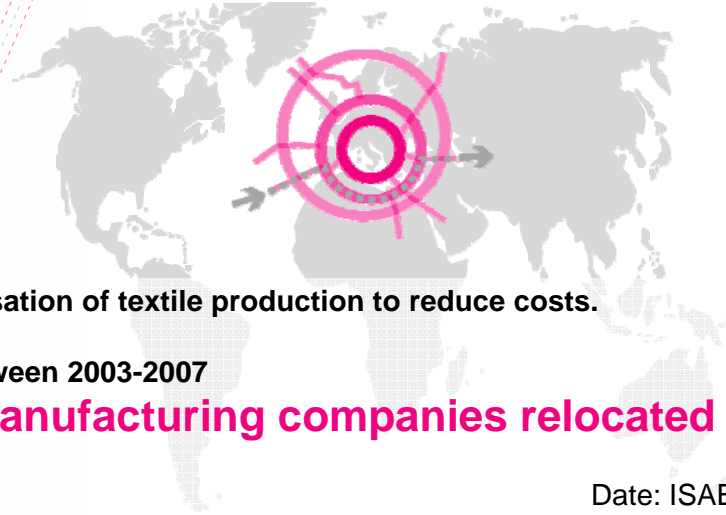


Shima Seiki collection,
Saverio Palatella

Transformation of "dress concept" into a new
idea of **minimalism**

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PROBLEM SETTING



Delocalisation of textile production to reduce costs.

Italy between 2003-2007

356 manufacturing companies relocated

Date: ISAE

Source: Emmanuele Scarci, *Un posto su 4 va all'estero*,
Il Sole 24 ORE, 28/04/08

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PROJECT IDEA: THE BRIEF

The project brief is to set up a **urban scale** textile production, using a **new service concept** (and a new business idea) that **puts together in a single physical place** many different functions and activities involved in the **customized knitwear** production process (design, production, distribution and sale).

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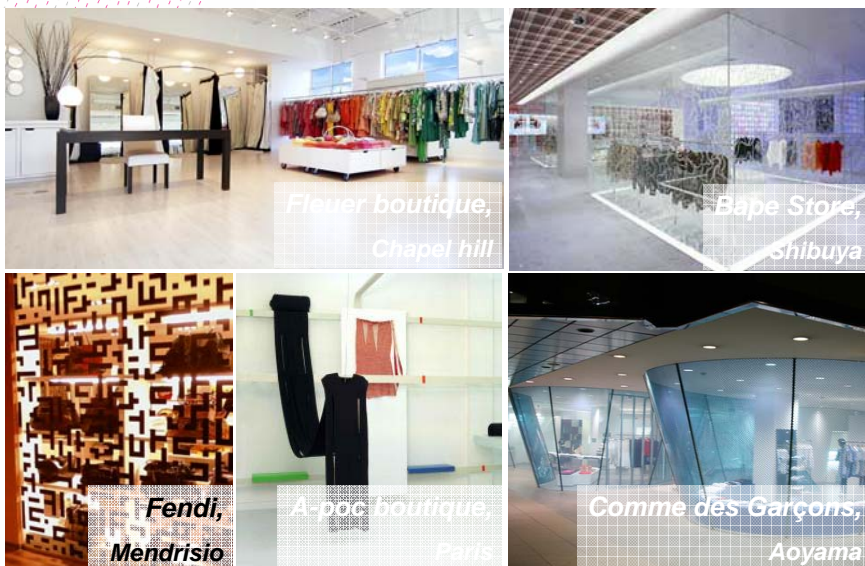
THE SERVICE IDEA

Fas.P.onsite is a **workshop – store** where it is possible to design, project and produce **customized knitwears ‘on demand’ and ‘on-site’**. This process could take place in a very short time: only a few hours between ideation and production.

The latest technological supports (digital elaboration of customers physical data and knitting models, Shima-Seiki knitting technology) allow the convergence between design, production processes and distribution in **the same place**.

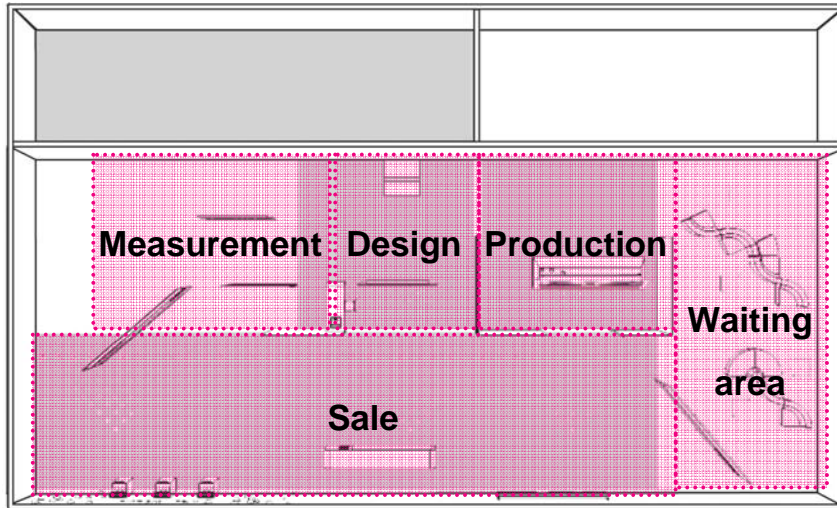
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THE SERVICE PROCESS/Lab-store inspirations



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THE SERVICE PROCESS-PLACE/Workshop-store



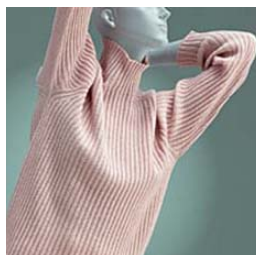
Hypothetic areas subdivision

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THE PARTNER AND THE TECHNOLOGY

SHIMA SEIKI

Leader company producing original hardware and software design, applied to textile industry and fashion creation.



**SHIMA - SEIKI
WholeGarment®**

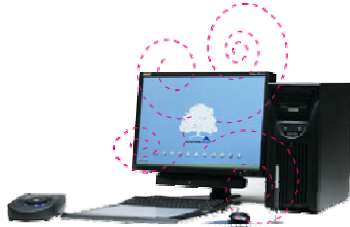
New Tecnology which allows to produce a ready knitwear item in less than 60 minutes

<http://www.shimaseiki.eu>

<http://www.shimaseiki.co.jp>

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THE PARTNER AND THE TECHNOLOGY



SDS-ONE Workstation
Shima-Seiki software



First 184

SHIMA – SEIKI system is composed by hardware and software elements specifically created for its purposes

> **Shima-Seiki software**

> **SDS-ONE Workstation**

> **Shima-Seiki**

“First” Line machine

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THE TECHNOLOGY



SDS-ONE Workstation

Digital elaboration of a virtual item, from a real picture of it, a scanned or a digitally created one, by using SDS-ONE workstation and a software specifically created for the purpose.



SSS120

Transposition of the virtual picture of the item on a digital picture of a manquin or of a real person.

It's a process of creation of a digital picture of the item by mapping it out according to the shape of a manquin-person.



Projection

Screen projection of the matching digital pictures (of the manquin-person and of the virtual item)

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THE TECHNOLOGY

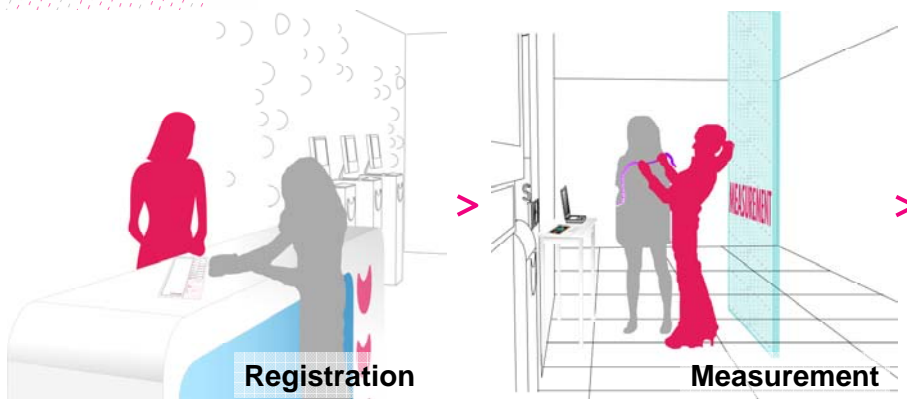


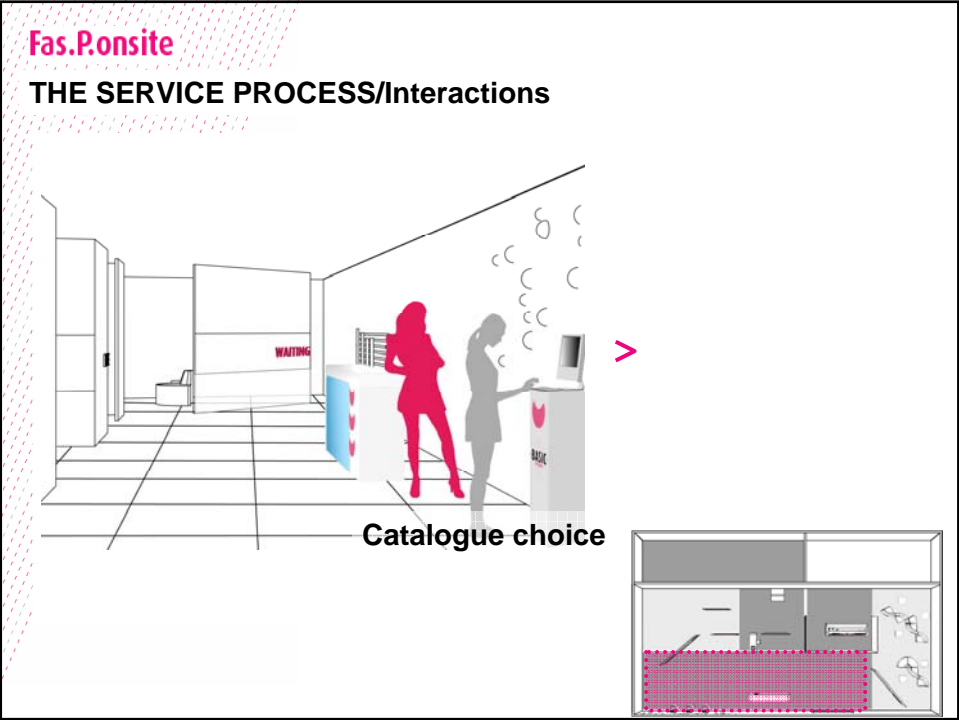
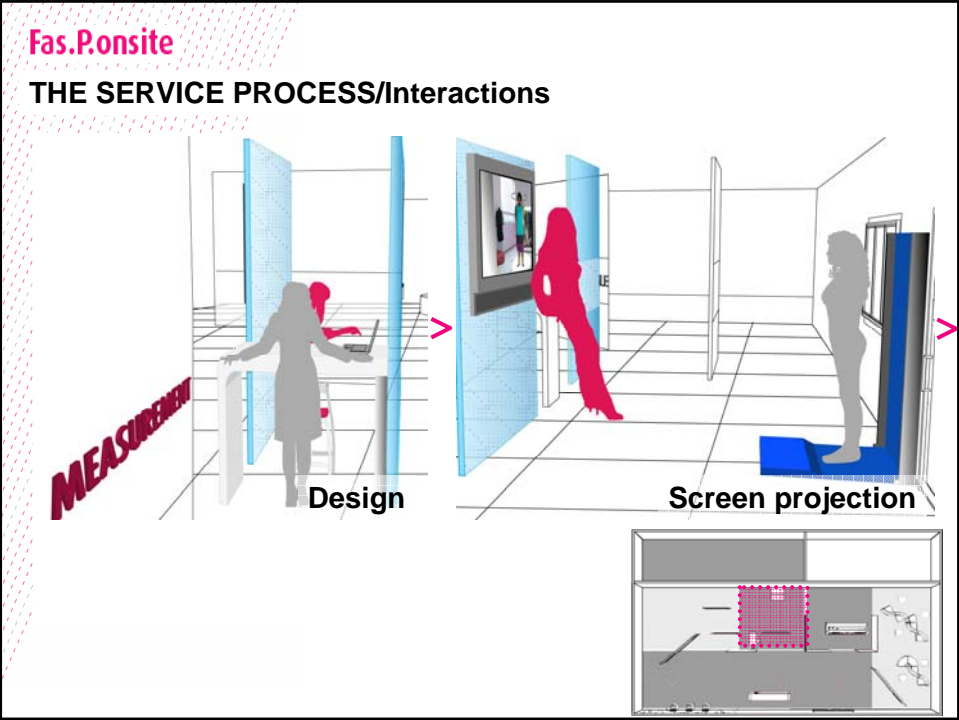
THE KNITTING MACHINE: FIRST 184

Production of the knitwear, WHOLEGARMENT® knitwear is produced in one entire piece, three-dimensionally, directly on the knitting machine. Consequently it requires no post-production labor whatsoever* (the seamless construction of the knitwear)

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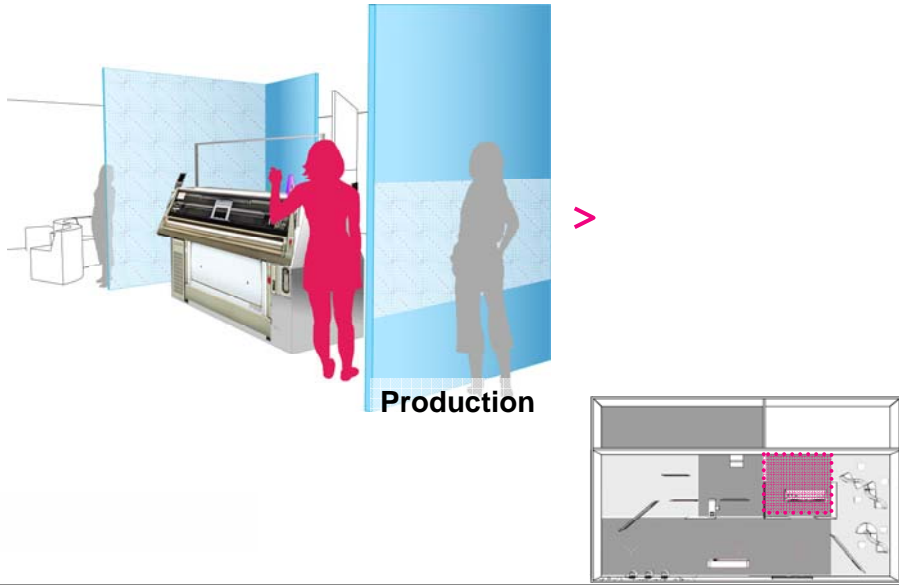
THE SERVICE PROCESS/Interactions





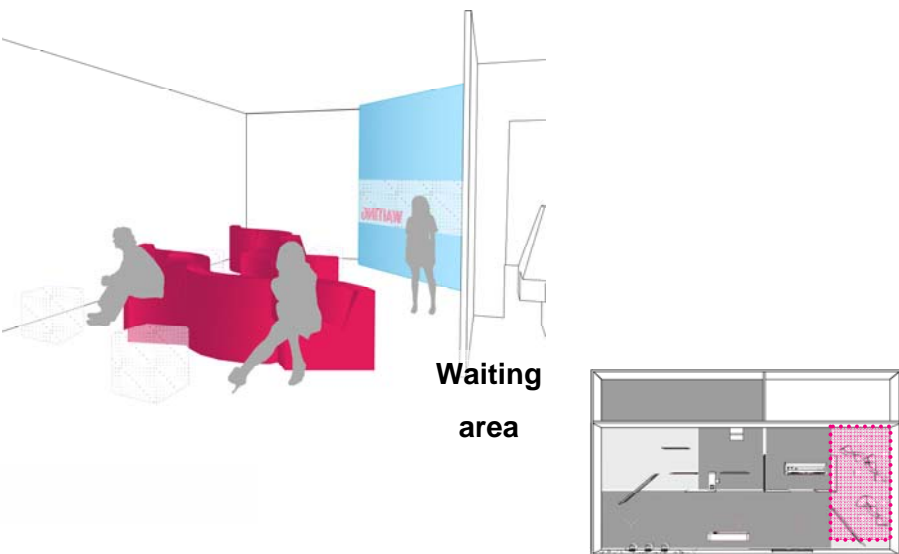
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THE SERVICE PROCESS/Interactions



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THE SERVICE PROCESS/Interactions



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THE SERVICE PRODUCTS/Examples of items



By Shima-Seiki

Examples of knitwears

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THE SERVICE PRODUCTS/Examples of items



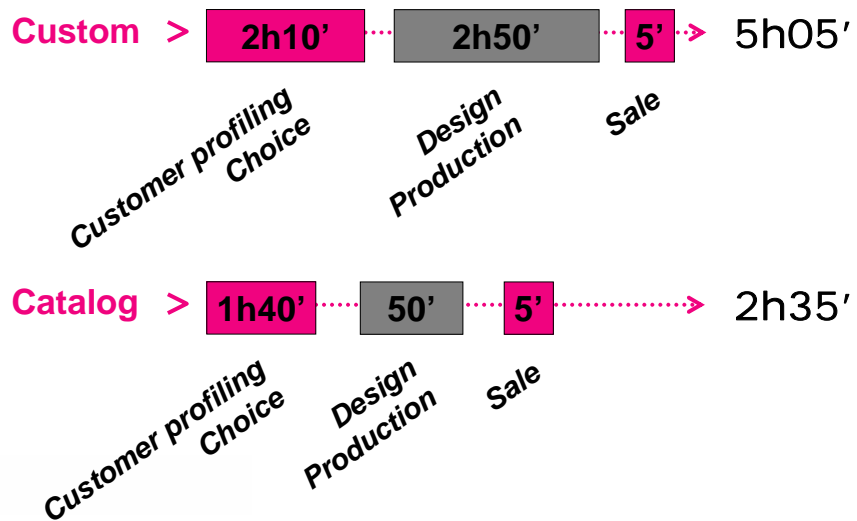
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THE SERVICE PROCESS/Items



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THE SERVICE PROCESS/Time



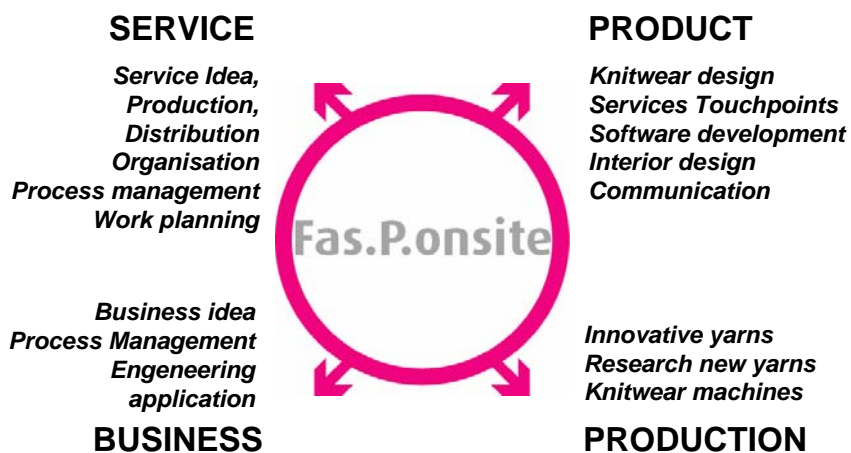
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THE INNOVATION ISSUES

- DEVELOPED KNITTING WORKSHOP** > A new type of evolved Knitting production atelier with high-tech tools and machinery
- NEW BUSINESS IDEA** > Remove the distinction between production and distribution using the idea of 'on demand'/'on site' production.
- ON SITE PRODUCTION** > Producing in a urban context and eliminate distribution procedures.

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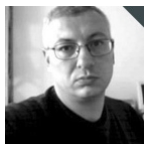
THE PROJECT AREAS



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THE PROJECT TEAM

Coordinator



Stefano
Maffei

**POLIMI
INDACO**



Beatrice
Villari

**POLIMI
INDACO**



Pier Paolo
Peruccio

**POLITO
DIPRADI**

Nicola **Spiller** POLIMI DIG
Alessando **Casinovi** POLIMI INDACO

Massimo **Bianchini** POLIMI INDACO
Laura **Laurenzi** POLIMI INDACO