

# HYPERcurve studio

### **MEET OUR TEAMS**





TOON HUYSMANS
PROFESSOR

TU DELFT

ROSA KRAMER FOUNDER & CEO

HYPERCURVE STUDIO B.V.

LAURA ASHMAN RESEARCHER

TU DELFT

FEBE DE VOS
3D MODELLER

HYPERCURVE STUDIO B.V.

### MY BACKGROUND



**Amsterdam** 

Education:

@AMFI, Hypercraft

**Retail:** Lingerie boutiques @Annadiva

Design & 3D innovation:

Prima Donna @Van de Velde

Bigger mission

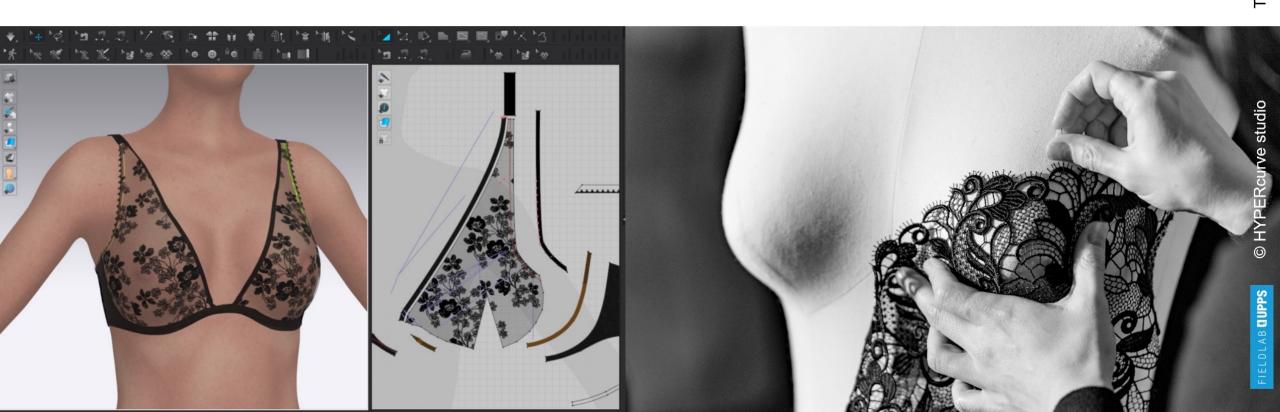
Partnership
Forster Rohner AG
Luxury embroidery

HYPERcurve studio 2020





### DIGITAL CRAFTSMANSHIP



### **WHY 3D?**

#### **TRADITIONAL**



STEP 1 Select swatch



STEP 2 2-3 WEEKS Sketch



Meters



STEP 3 1-8 WEEKS STEP 4 **Prototype creation** 



STEP 5 Assessment



**Alterations** 



STEP 6 2+ WEEKS STEP 7
Alterations Textile sampling

Again and again...

### **WHY 3D?**

#### **TRADITIONAL**



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STEP 3 1-8 WEEKS STEP 4 **Prototype creation** 



STEP 5 Assessment



STEP 6 2+ WEEKS **Alterations** 



STEP 7 **Textile sampling** 

### Again and again...

#### **+ 3D TOOLS**



STEP 1 **Swatch** 



STEP 2 Sketch



STEP 3 1 DAY Swatch scan



STEP 4 **Proto creation** 



STEP 5 1 DAY Assessment



STEP 6 2+ WEEKS **Alterations** 



STEP 7 **Textile sampling** 

### PROBLEM DEFINITION



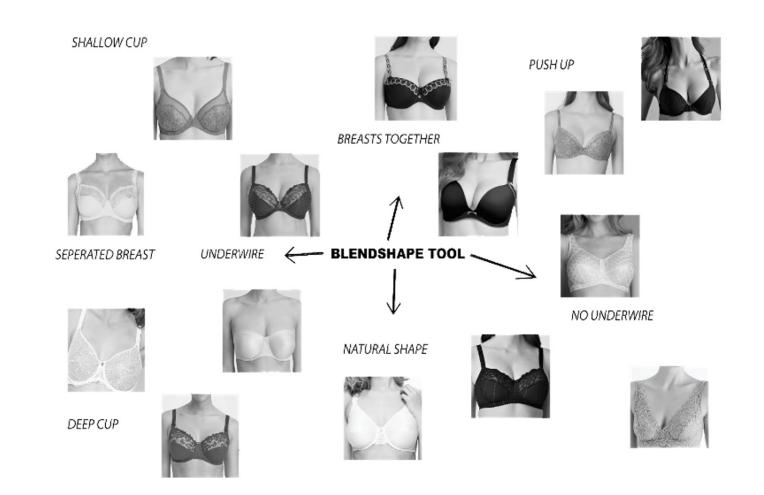
Accurate 3D body models for breast / bra fit simulation

### **PROJECT GOAL**

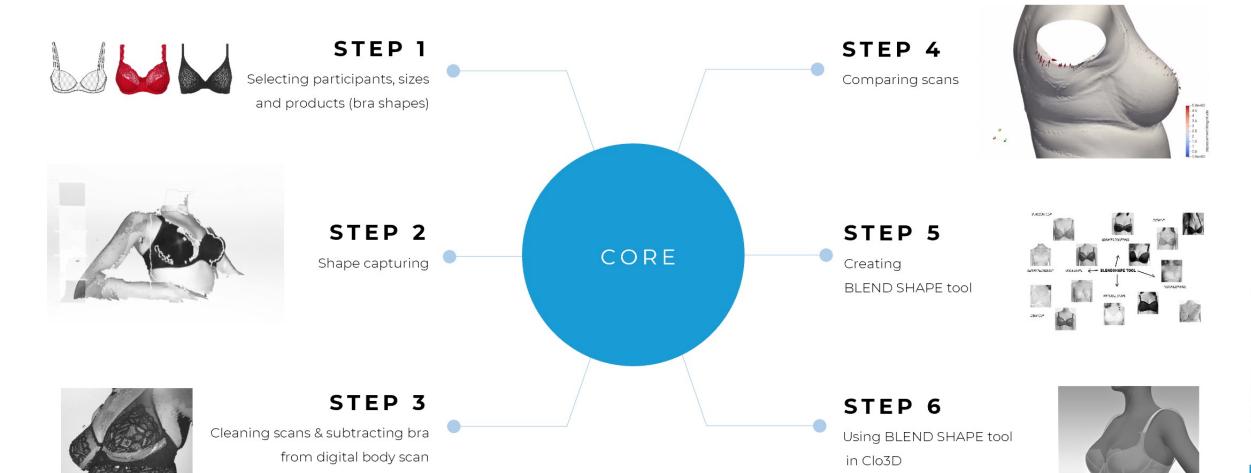
Develop a tool that generates accurate body models for visual digital lingerie sampling.

Scanning costly

Foundation for personalization



### **ACTIVITIES**



with Bra testcase

### **RESULTS & TAKEAWAYS**

> SHAPE CAPTURES

BLENDSHAPE TOOL

**○** IMPLEMENTATION IN THE INDUSTRY

A broader understanding of the challenges and opportunities for 3D body models in the future within the lingerie indsutry

BRAND SPECIFIC AVATARS

For Triumph, Sloggi & Chantelle



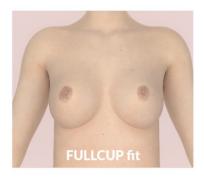
PRODUCT OPTIMALIZATION

For Soft revolt

SOFT SEVOLT

## BRAND SPECIFIC AVATARS Triumph





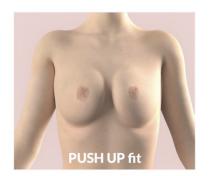














### BRAND SPECIFIC AVATARS CHANTELLE



DIGITAL SAMPLE 75D

**VERSUS** 

PHYSICAL SAMPLE 75C



### BRAND SPECIFIC AVATARS CHANTELLE





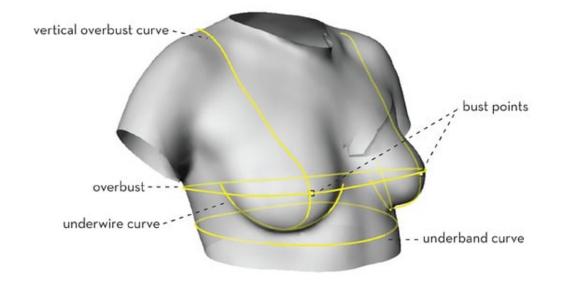
DIGITAL SAMPLE 75D

**VERSUS** 

PHYSICAL SAMPLE 75C

### > PRODUCT OPTIMALIZATION

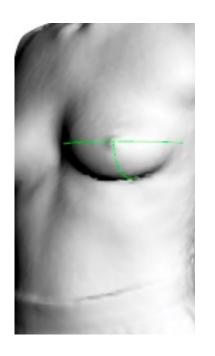
Soft revolt



### > PRODUCT OPTIMALIZATION

#### SOFT REVOLT

INTIMATES







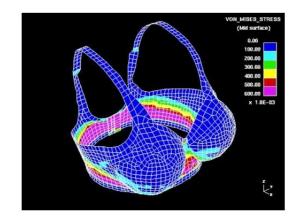


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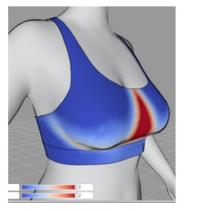
### **FUTURE STEPS**

### SOFT TISSUE AVATARS & DIGITAL FIT

Exploring and partaking in international research studies







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### PERSONALIZED DIGITAL TWINS FOR ECOM

The future online lingerie shop experiences is personalized

### **FUTURE VISION**

TECHNOLOGY = CONNECTIVITY

3D = A TOOL

Not a solution or destination

LINGERIE = COMPLEX

FOCUS ON PREFERABLE FUTURE

**END TO END** 

