VIZOO

Vizoo Material Digitization Solutions

Company Presentation

Vizoo GmbH, 2023

About Vizoo

Based in Germany

Founded in 2013, Vizoo has grown from a startup to the leading global provider of material digitization solutions.

Management

- Martin Semsch – CEO & Founder
- Renate Eder – Chief Commercial Officer

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About Vizoo

Mission

Democratize Material Digitization

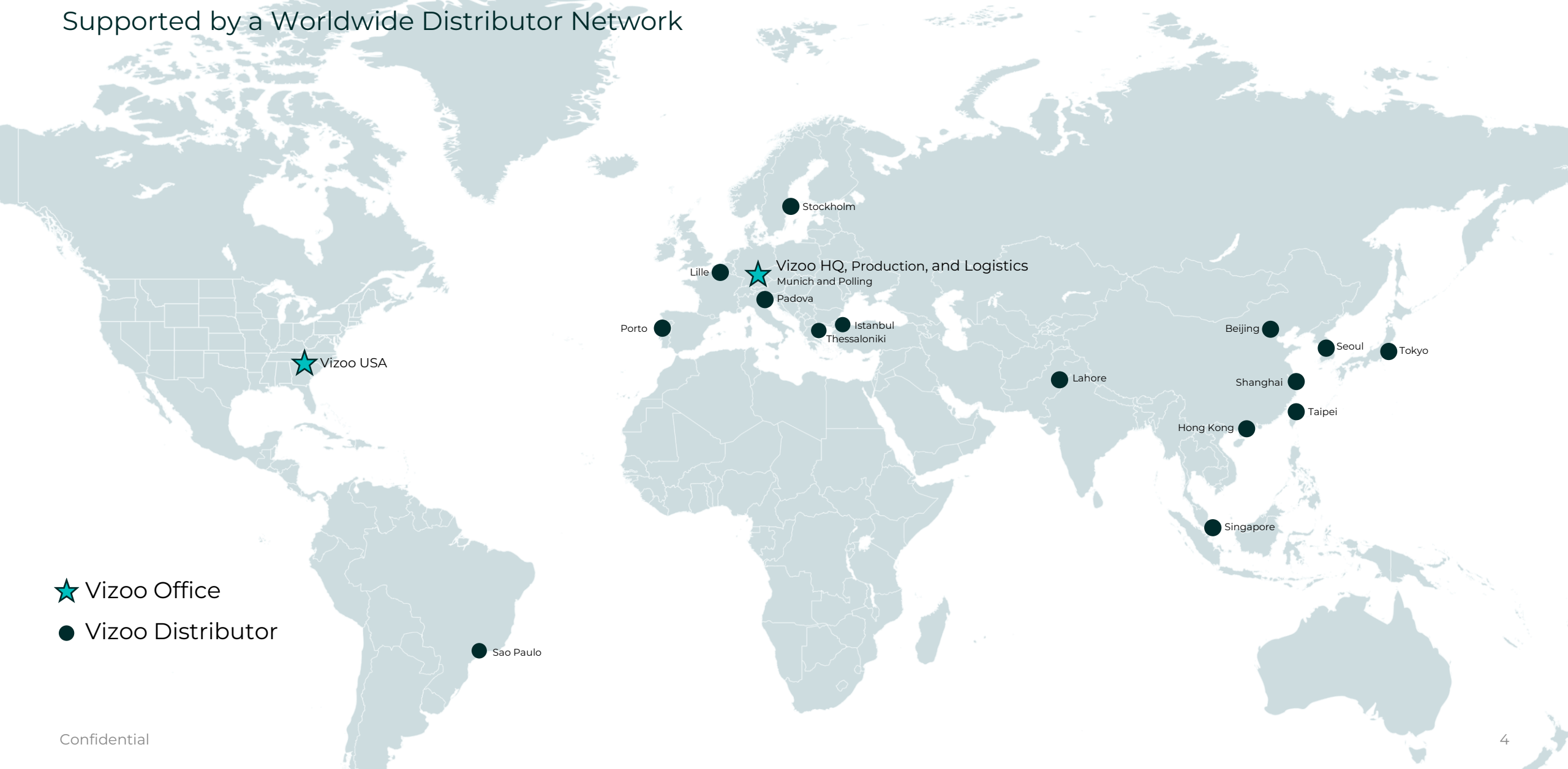
- Previous digitization processes involved complicated manual capture and processing.
- Digitization should be **fast, easy,** and **consistent.**

Vizoo's xTex technology provides:

- Rapid capture and processing
- Simple to use but advanced functionality
- User-independent, consistent output

Offices in **Germany** and **USA**

Supported by a Worldwide Distributor Network



Our **Client Base**

400+ Clients in 45+ Countries

Many Industries Rely on Vizoo Technology

- Automotive
- Fashion
- Apparel and Footwear Manufacturers
- Fabric Mills
- Interior / Home Fashion
- Gaming and Entertainment
- Creative Agencies
- Universities

Our **Client Base**

Apparel & Footwear Industry

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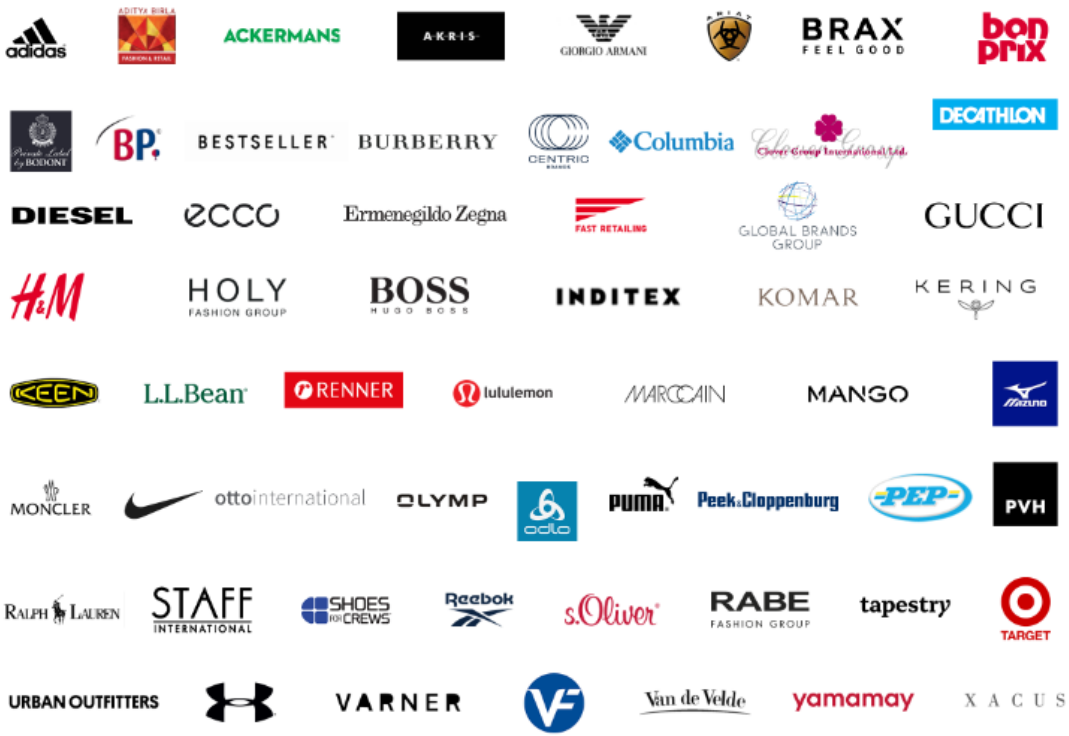


Brands

Fashion, Footwear, Lingerie, and Sportswear

Supply Chain

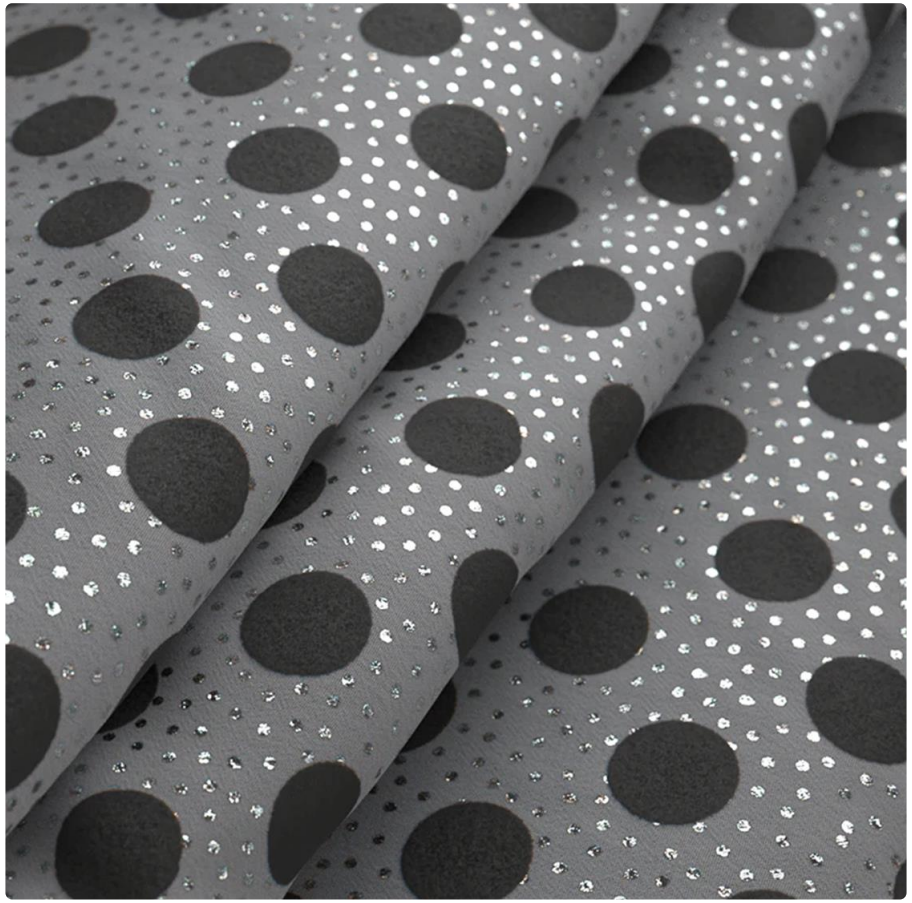
OEM, Fabric Mills, and Fabric Trading Companies

What is a **Digital Material**?

Before using a digital material, it is important to define the term.

What is a **Digital Material**?

Digital Material Have Two Main Characteristics



1. Visual Properties

- How a material looks.
- Color, reflectivity, surface structure, and transparency
- A 3D program requires an image-based description of the individual surface properties to visualize a complex material structure.

2. Physical Properties

- How a material behaves.
- Bend, stretch, weight, and thickness.
- 3D fashion design programs such as BrowZwear, CLO3D, and Optitex require fabric physical properties for simulating garment drape simulation.

What is a **Digital Material**?

THE LOOK: Visual Properties Example

Base shape without a digital material.

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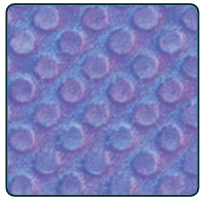
What is a **Digital Material**?

THE LOOK: Visual Properties Example

Base shape without a digital material.

\+ Surface structure detail



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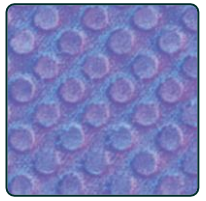
What is a **Digital Material**?

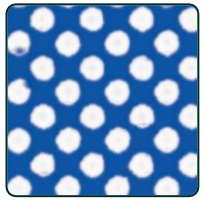
THE LOOK: Visual Properties Example

Base shape without a digital material.

+ Surface structure detail



+ Material color



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What is a **Digital Material**?

THE LOOK: Visual Properties Example

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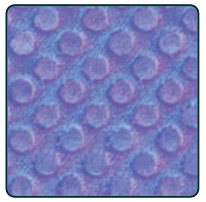
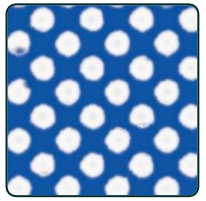
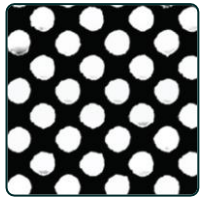
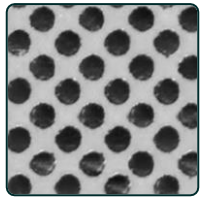


+ Material color



+ Reflectivity





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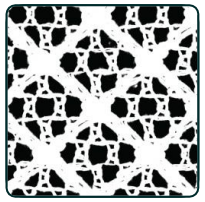
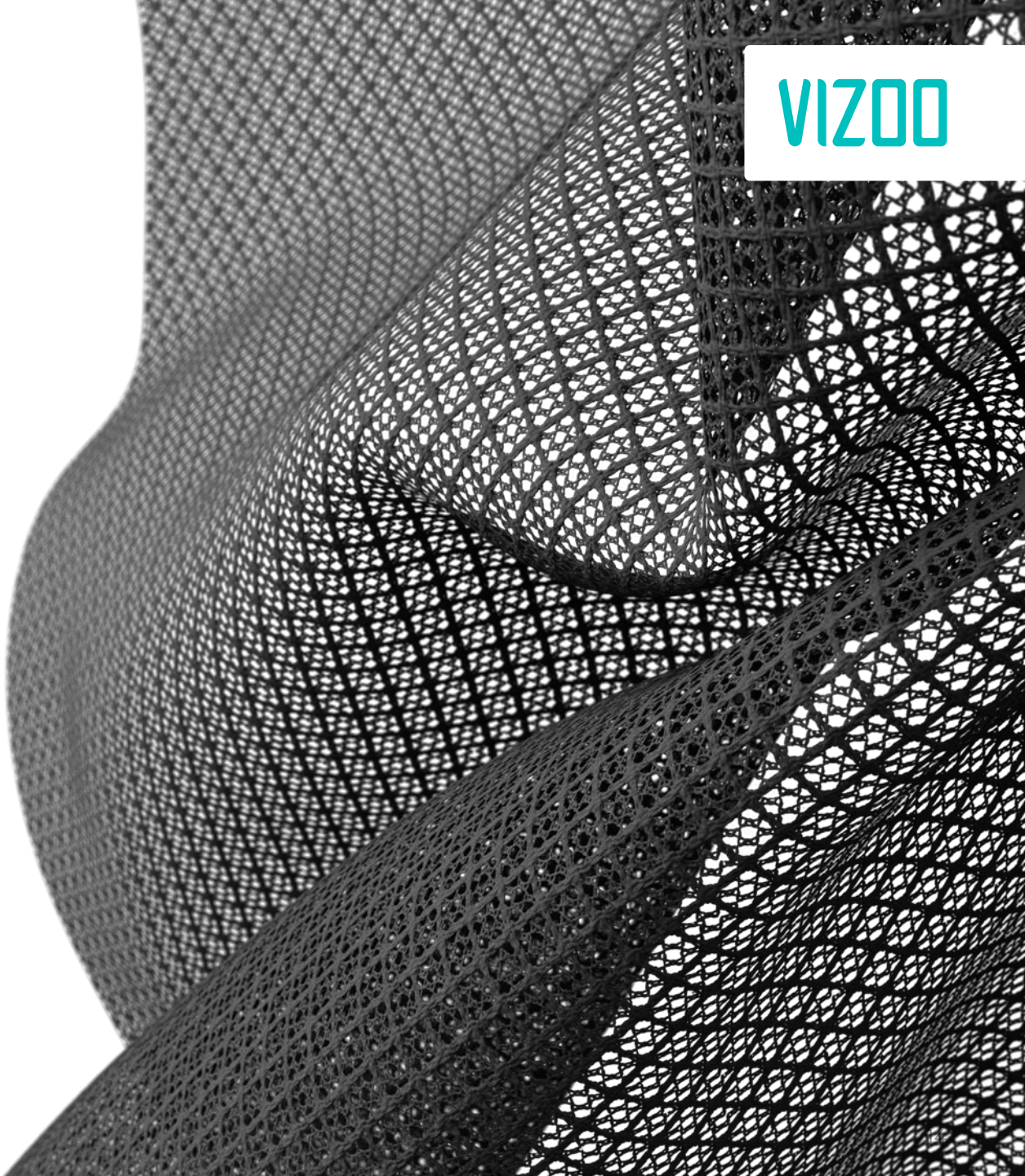
What is a **Digital Material**?

THE LOOK: Visual Properties Example

+ Transparency





What is a **Digital Material**?

THE BEHAVIOR: Physical Properties Example

The drape of a material is dependent on parameters like bend, stretch, weight, and thickness.

Digital Material **Advantages**

High quality digital material libraries
accelerate the creation process.

Digital Material **Advantages**

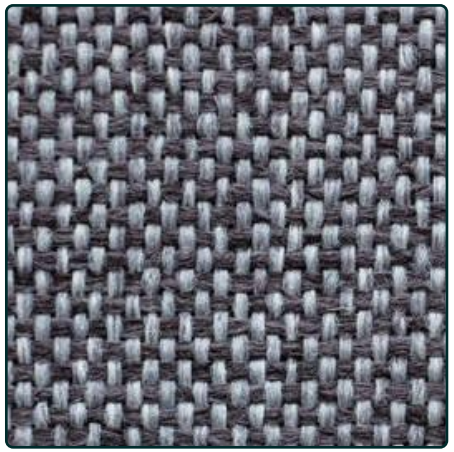
Overview

Brands

- Design and Sell Products
- Reduce Turnaround Time
- Rapid Validation

Suppliers

- Design and Sell Materials
- Reach New Clients
- Instant Sample Sharing



Digital Material

3D Design

Prototyping & Sampling

Color Variants

eCommerce

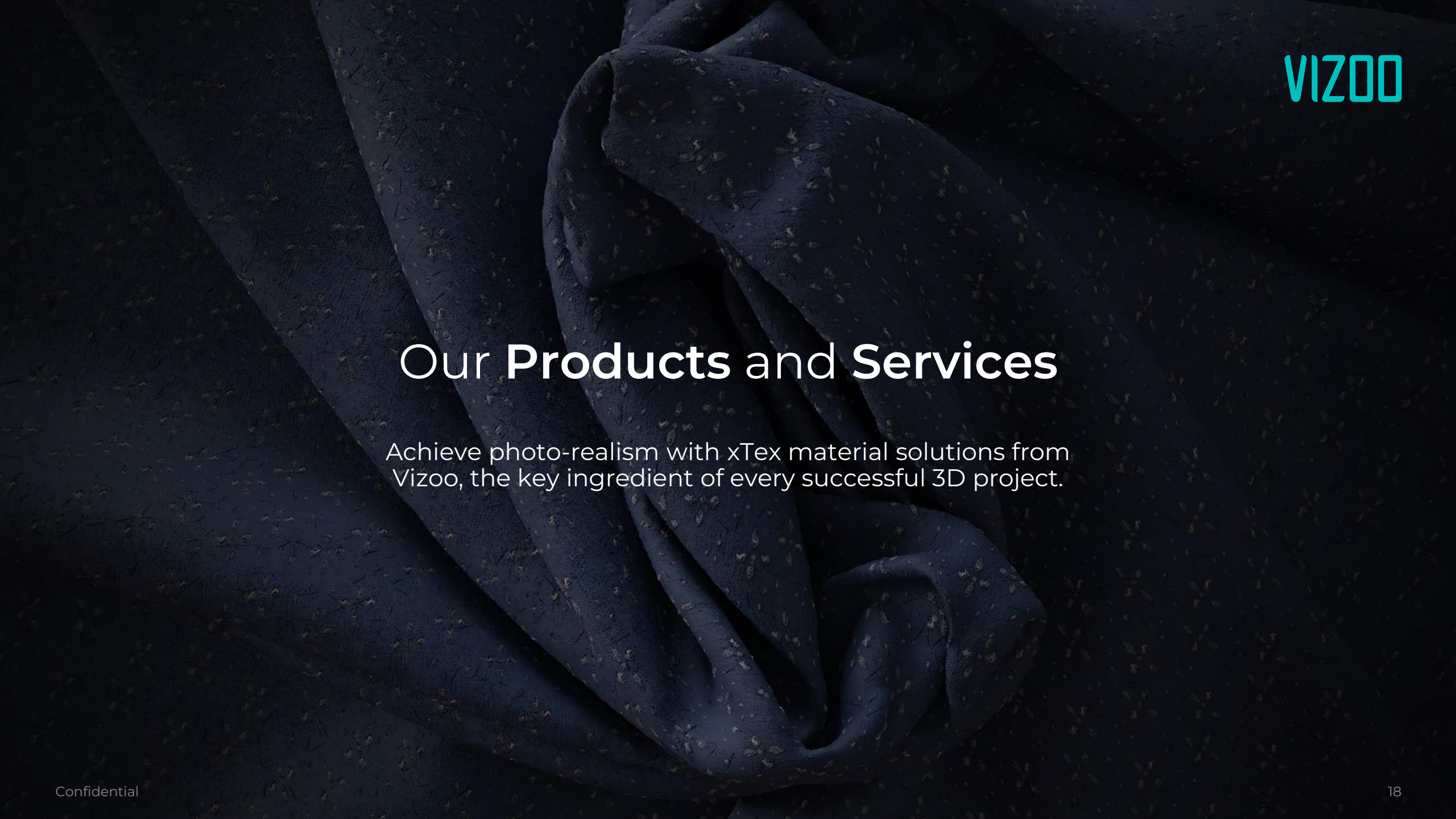
Metaverse

Configurators

Online Shops

Fabric Fairs

Digital Lookbooks



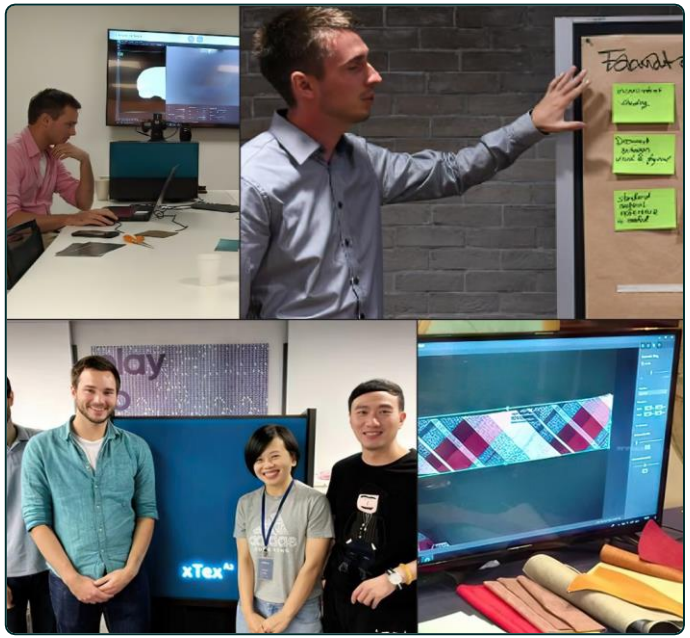
Our **Products** and **Services**

Achieve photo-realism with xTex material solutions from Vizoo, the key ingredient of every successful 3D project.

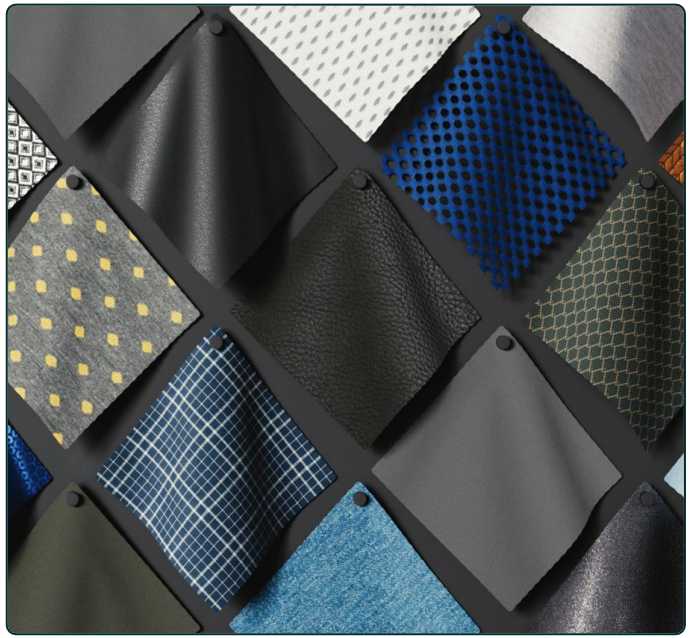
Products and **Services**

Overview

Digitization Technology



Implementation



Digitization Services

Vizoo **Products**

Scanning Hardware

xTex A4

- Desktop scanner
- Scanning area up to 20 x 28 cm / 7.9 x 11 in.
- High resolution output up to 950 dpi
- Simple installation
- Full PBR support (physically based textures)
- Works in any office environment

Vizoo **Products**

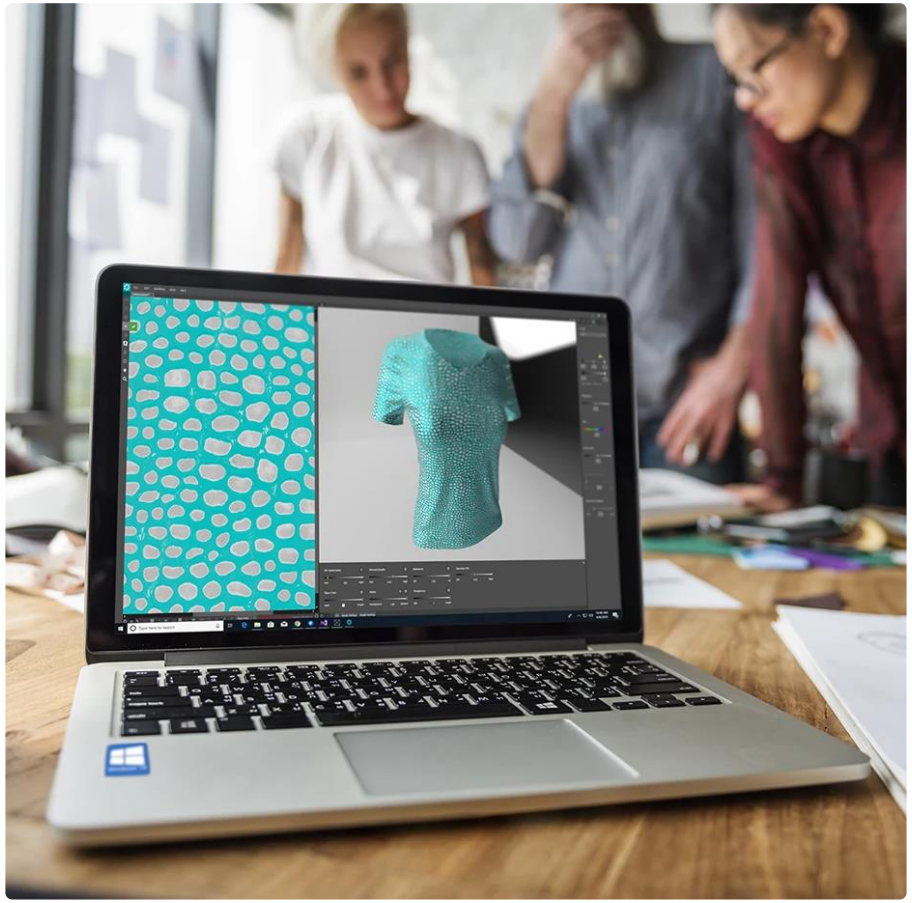
Scanning Hardware

xTex A2

- Large format scanner
- Scanning area up to 60 x 40 cm / 23.6 x 15.7 in.
- High resolution output up to 700 dpi
- Full PBR support (physically based textures)
- Works in any office environment

Vizoo **Products**

Software



xTex Software

- **Capture** - Controls xTex A4 and A2 hardware
- **Tile** - Powerful algorithms for seamless materials
- **Recolor** - Create color variants with a single scan
- **Render** – Produce photorealistic images of materials
- **Physical Properties** – Add fabric drape properties
- **API** – Connect to 3rd party software

Vizoo **Products**

Compatible with Industry-Leading Tools

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xTex Materials Work Everywhere

- xTex supports Phong (Specular) and Metalness (PBR) workflows with its .xTex and .U3M project files.
- Export: Substance SBS, SBSAR, and Nvidia's MDL.
- Image formats: 8 or 16 bit images, .jpg, .png, and .tif.
- Some of our clients' most common tools are shown on the right.

ASSYST

Be Product
social product development

blender

BROWZWEAR

CentricSoftware

CLO

KeyShot
by Luxion

OPTITEX

SHOEMASTER

stitch

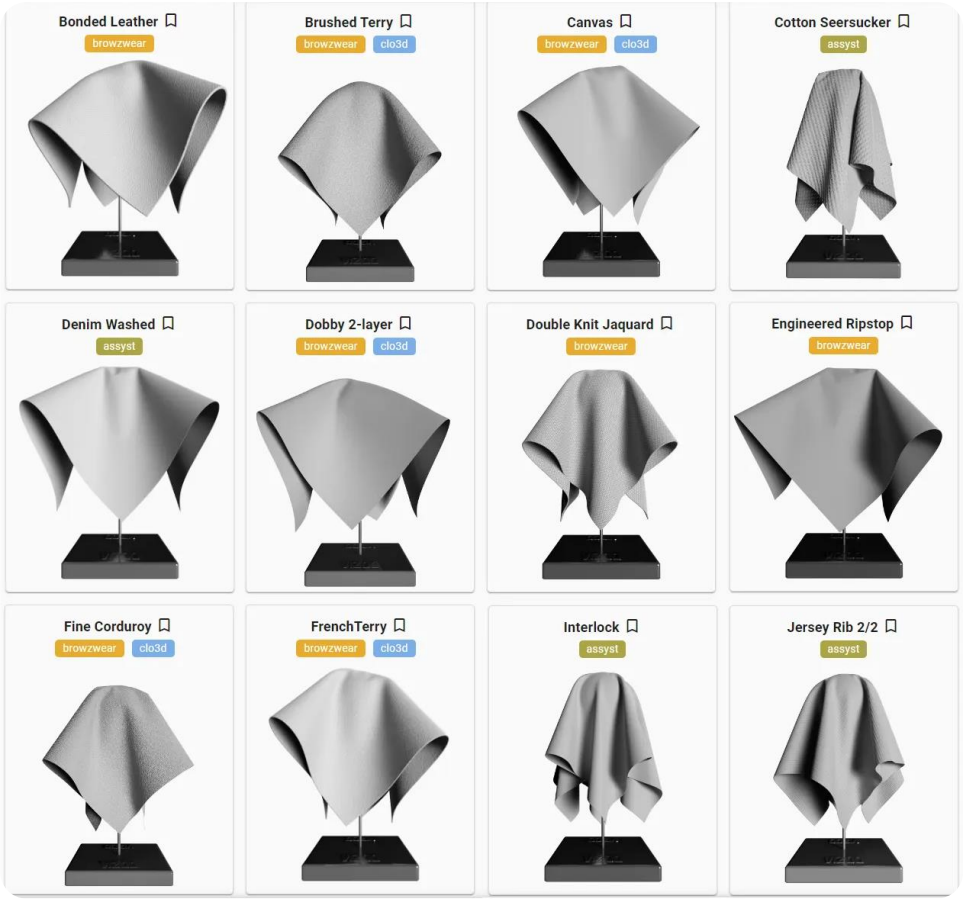
swatchbook

z-emotion

...and many more.

Vizoo **Products**

physX Fabric Platform



Accelerate Physical Property Acquisition

- Traditional fabric measurement is a time-consuming task.
- physX platform makes high-end fabric for 3D apparel simulation more accessible by giving instant access to high-quality physical properties.
- Physical properties are available for Browzwear, Assyst vydia, and CLO3D

Vizoo **Services**

Implementation Support

Training

- Online and onsite
- Become an expert in material creation

Certification

- Take if further by having Vizoo audit and accredit your staff or scanning facility with our material digitization certification program.

Process Consulting

- Leverage our vast experience in material digitization processes

Supplier Onboarding

- Bring your vendors up to speed on material digitization
- We help formulate the right quality standards and experience a smooth implementation

Vizoo **Services**

Material Digitization Service

Utilize our expertise

Are you new to 3D, need more digitization resources, or want your materials captured quickly? Leverage Vizoo's decade of digitization experience as your own.

On-Demand Digitization

- Let us be your scanning hub.

3D Content

- Showcase your materials with high quality content.
- We offer product previews, look books, material preview renders, and more.

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Vizoo **Services**

Create a best-in-class workflow with material creation assessment processes and tools

Reference geometries

- Link the physical and the virtual world
- Support your QC process

Process Consulting

- Leverage our vast experience in material digitization processes
- Achieving the perfect digital twin needs the right tools as well as a quality process.

Why **Vizoo** Technology?

High Quality

Complete, high-quality digital materials bring photo-realism to any 3D workflow.

Lightning Fast

Vizoo's xTex™ and physX™ provide the fastest and easiest material digitization solutions available to enable scaling and mass production.

Universally Compatible

Capture once and use everywhere. Our universal output works with any 3D software, process, or workflow.

Trusted

As a proven and long-standing digitization solution, clients trust Vizoo systems in mission critical initiatives.

Made in Germany

Vizoo hardware and software solutions are engineered and developed in-house to meet industry specific needs.

High Value

High quality output, ease of use, and speed add up to a fast return on investment.

Contact Vizoo

Questions?

Contact your sales representative or
reach us on our website and social media

www.vizoo3d.com

Our Locations

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