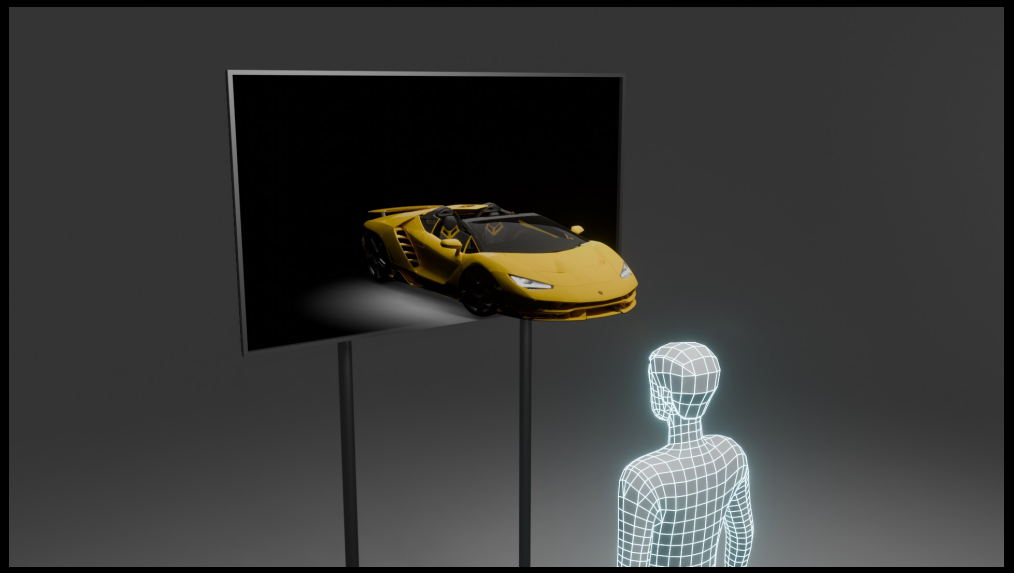

REALFICTION™

# COMPETITOR PROBLEMS

## CURRENT CHALLENGES AND LIMITATIONS - LENTICULAR

**SINGLE USER EXPERIENCE**:

- Current glasses-free 3D displays offering look-around, either only do so for one person at the time or suffer from a high degree of resolution loss.
- The narrow viewing angle of lenticular displays also limits the number of people who can experience the effect simultaneously.



To recap the market situation: Many huge companies including Samsung, Sony, Acer, Asus, Dell, BOE are currently selling glasses-free 3D displays. And they are selling better than expected. So, the appetite is great to reach next level. Their problem is that their current display technology can only support 1 user at a time, which limits the use-case. The target for next level products is to enable multi-user.

# OUR SOLUTION

## DPT FEATURES

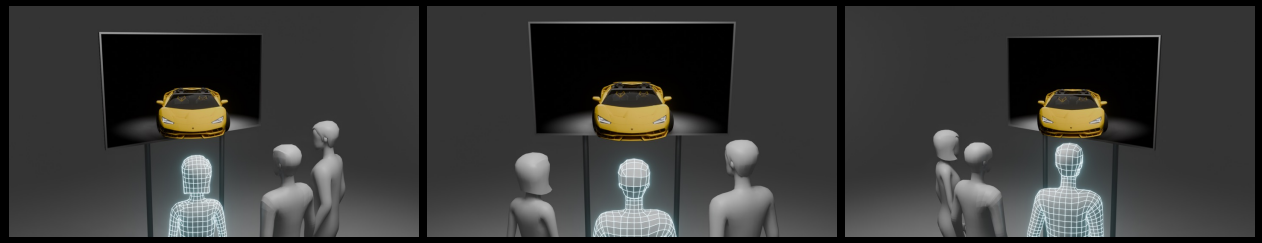
- 3D multi-user
- 2D/3D multi-view
- Electronic privacy (E-privacy)

## DPT ADVANTAGES

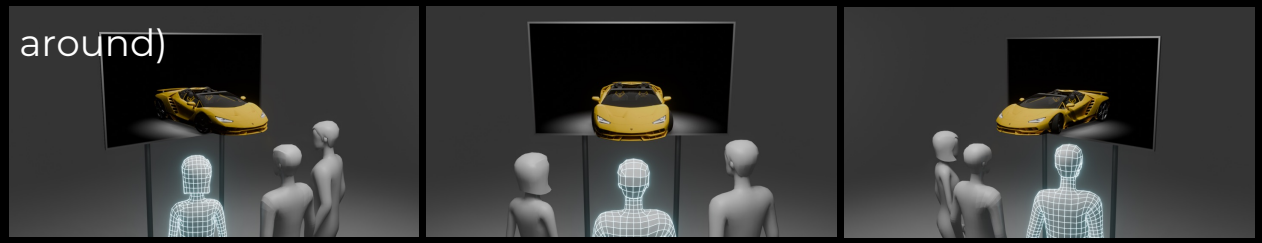
- Electronic Light Modulator
- No resolution loss
- No noticeable crosstalk

3D MULTI-USER vs MULTI-VIEW explained:

3D MULTI-USER: Everybody sees the same (Cinema)



3D MULTI-VIEW: Each person see an individual view (Look-around)

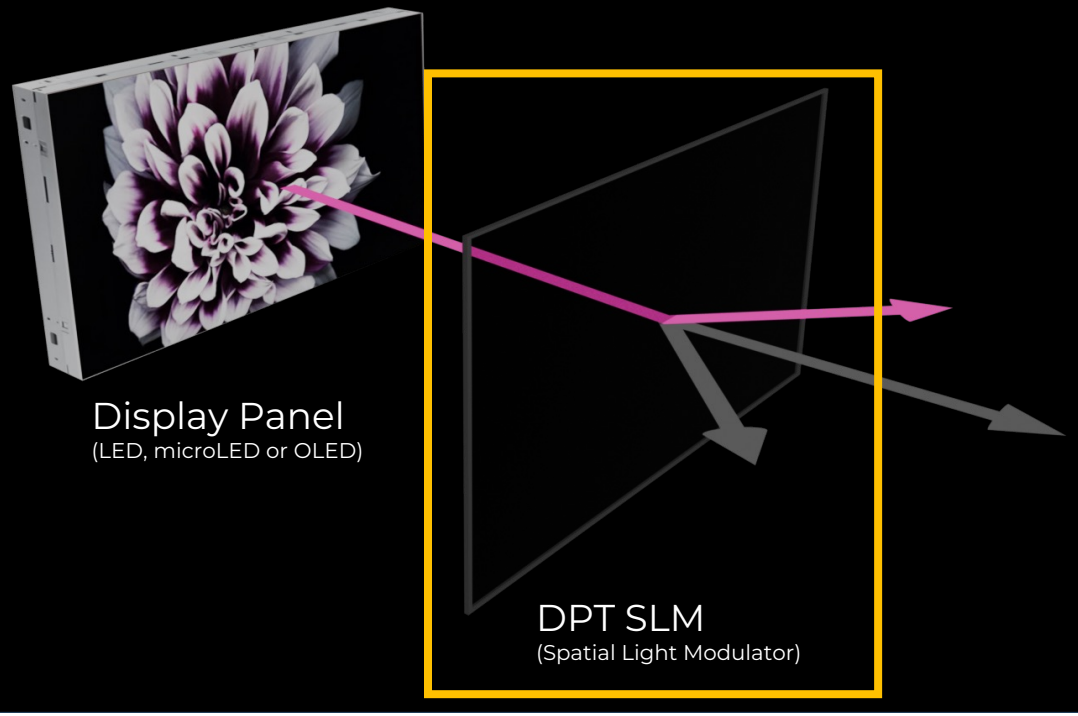


This is where Realfiction comes in. We have a unique solution that enables multi-user glasses-free displays. We demonstrated this for the first time in meetings in October 2025, and since then at CES26 in January and Display Week in May. As a result, we are now having many concrete customer discussions, several of which are at a detailed stage of technology due diligence.

# DELAY IN COMMERCIALISATION

## THE CHALLENGE

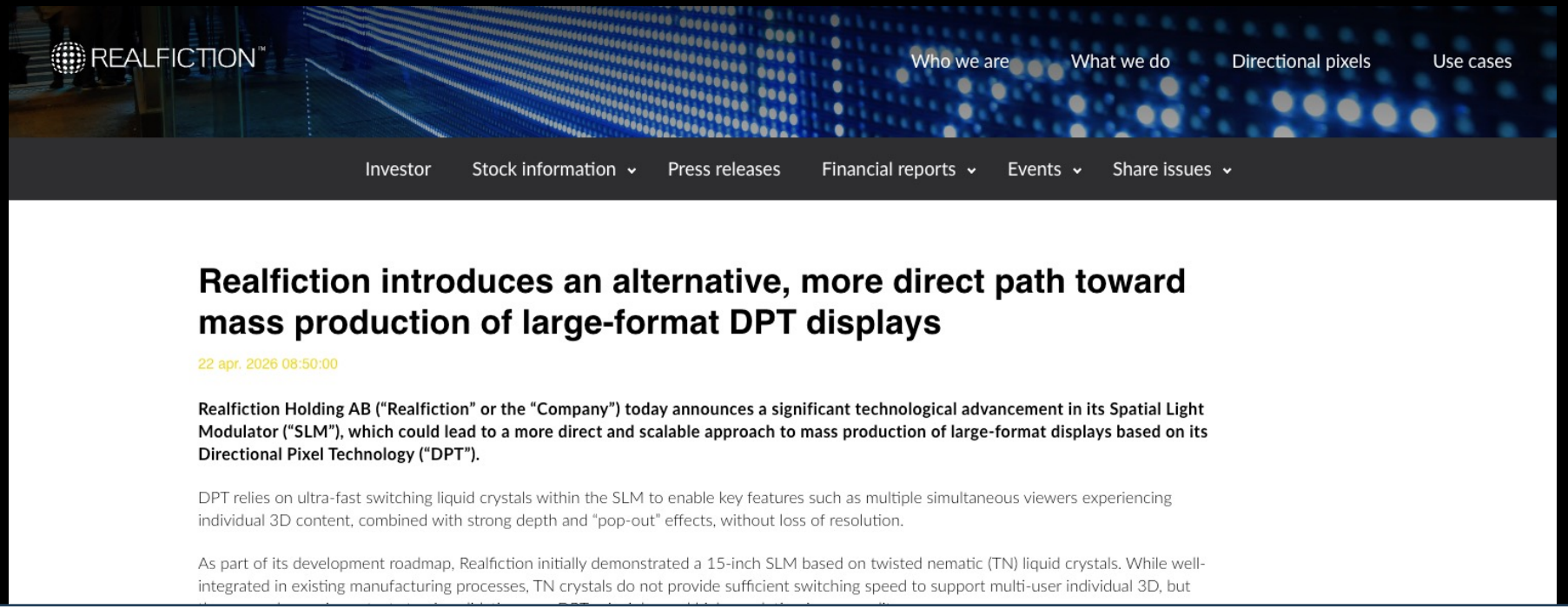
The mass production of FLC-based displays at larger sizes has proven to be complex. Existing display manufacturing processes are not optimized for FLC materials, and while development efforts are ongoing across the industry, no broadly adopted high-volume manufacturing solution has yet been established.




During these technology due diligence processes, it has become apparent that 1 third-party component is not yet fully mature for mass production – namely the fast FLC-crystal supplied by Hong Kong University of Science & Technology, which is used in our Spatial Light Modulator.

# A SOLUTION IS UNDER VALIDATION

## THE SOLUTION



REALFICTION™

Who we are | What we do | Directional pixels | Use cases

Investor | Stock information | Press releases | Financial reports | Events | Share issues

### Realfiction introduces an alternative, more direct path toward mass production of large-format DPT displays

22 apr. 2026 08:50:00

**Realfiction Holding AB ("Realfiction" or the "Company") today announces a significant technological advancement in its Spatial Light Modulator ("SLM"), which could lead to a more direct and scalable approach to mass production of large-format displays based on its Directional Pixel Technology ("DPT").**

DPT relies on ultra-fast switching liquid crystals within the SLM to enable key features such as multiple simultaneous viewers experiencing individual 3D content, combined with strong depth and "pop-out" effects, without loss of resolution.

As part of its development roadmap, Realfiction initially demonstrated a 15-inch SLM based on twisted nematic (TN) liquid crystals. While well-integrated in existing manufacturing processes, TN crystals do not provide sufficient switching speed to support multi-user individual 3D, but

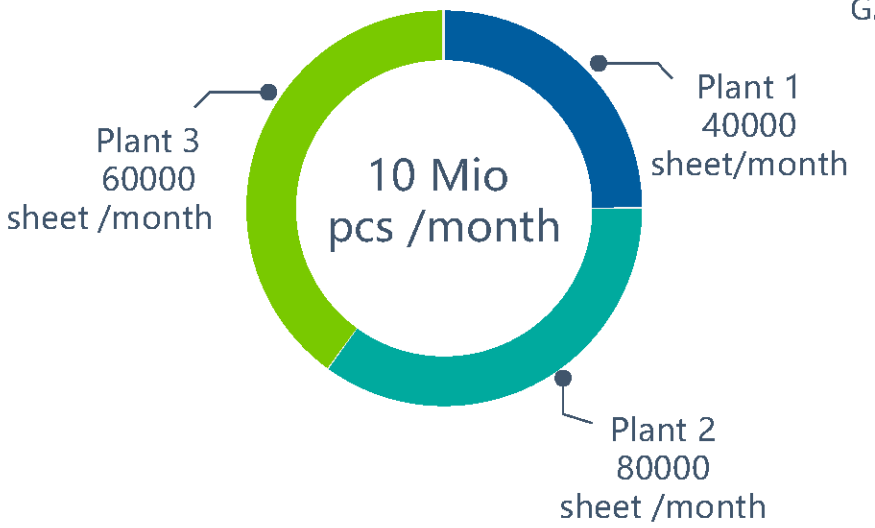
During these technology due diligence processes, it has become apparent that 1 third-party component is not yet ready for mass production – namely, the fast FLC-crystal supplied by Hong Kong University of Science & Technology and used in our Spatial Light Modulator. Luckily, our engineers have found a way to make the SLM without this FLC material. Leading experts have externally verified this new and patented design, which is now being manufactured and tested. This design utilises standard Nematic LCD crystals and has the potential to accelerate the path toward mass production of DPT displays across multiple sizes and application areas.


We already have a very capable mass manufacturing partner on board.

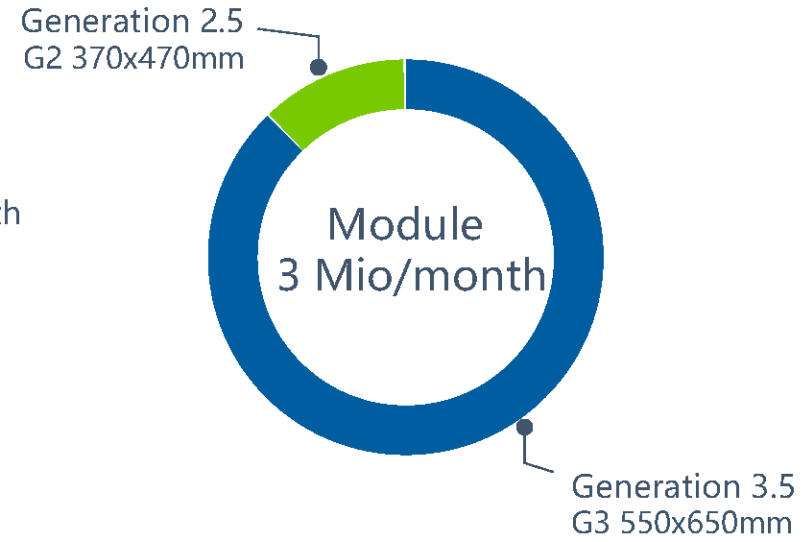
# Production Capacity

We can cover your needs

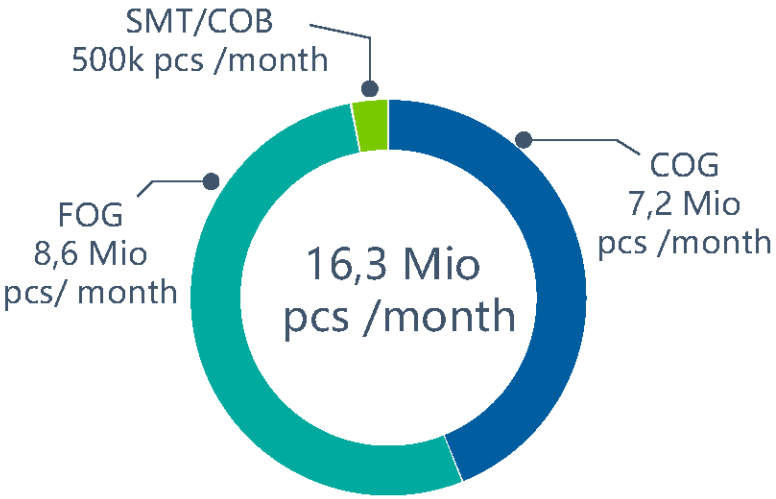
## LCD Capacity




## Touch Capacity




## LCM Capacity

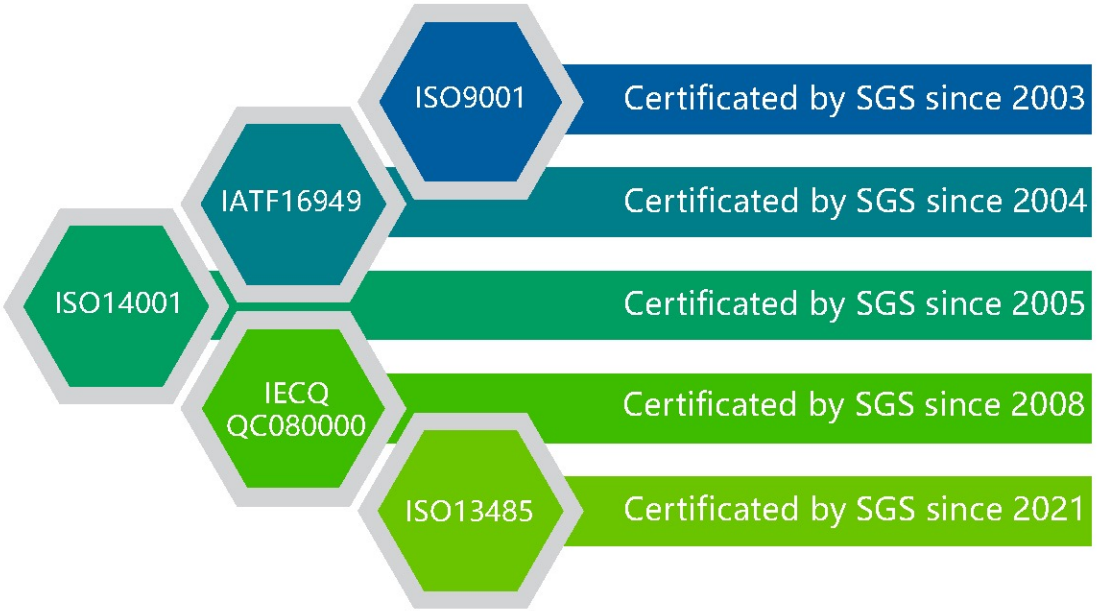



Goworld produces millions of LCD displays every month.

# Quality Management

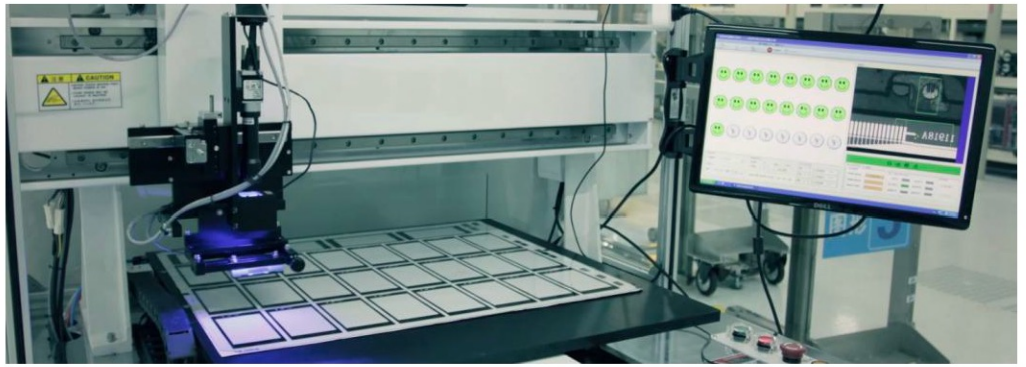
Your Satifaction is our focus

## Quality Certification




## Manufacture Certifications

- 5S Manufacturing Assessment
- TPM Total Productive Manufacturing
- Six Sigma 6σ



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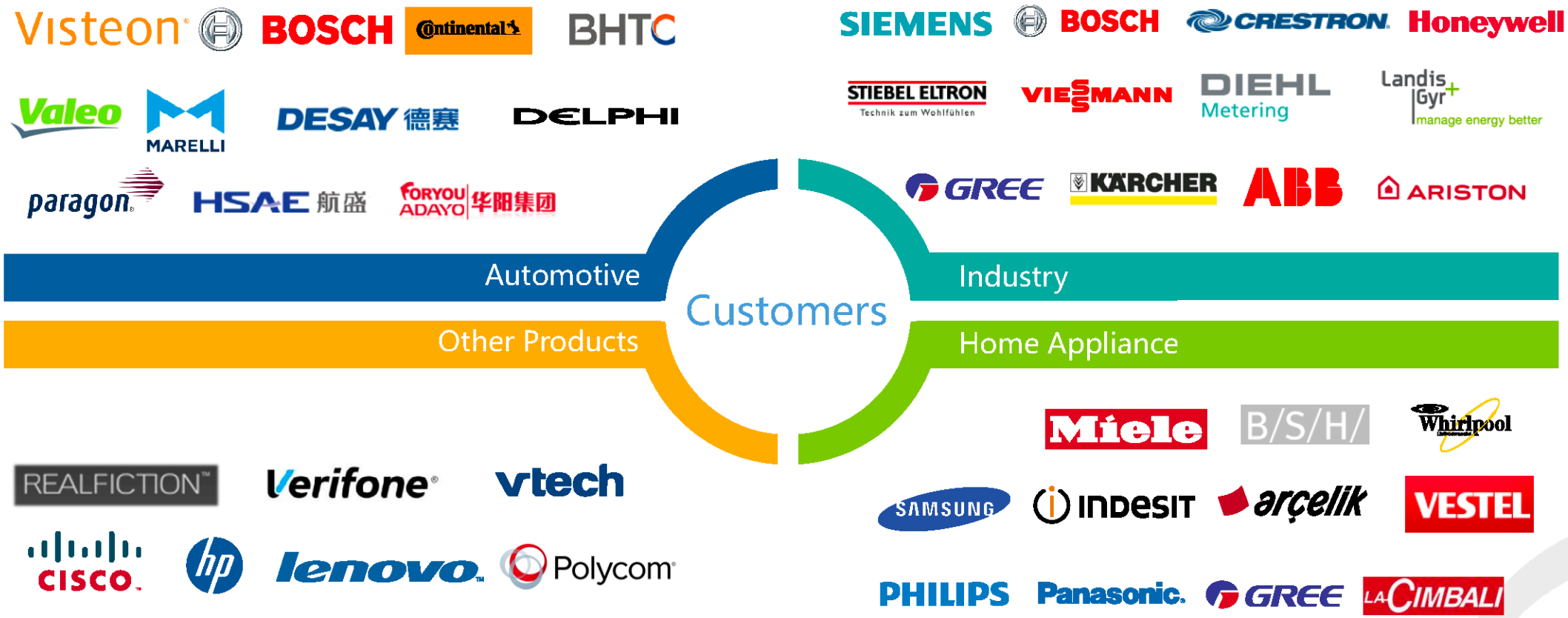
Responsible Business Alliance
Advancing Sustainability Globally

They have all the highest quality certifications.

# Our Customers

Market leaders in their sector




And have huge customers in many different segments.

# Our Customers

## Market leaders in Automobile



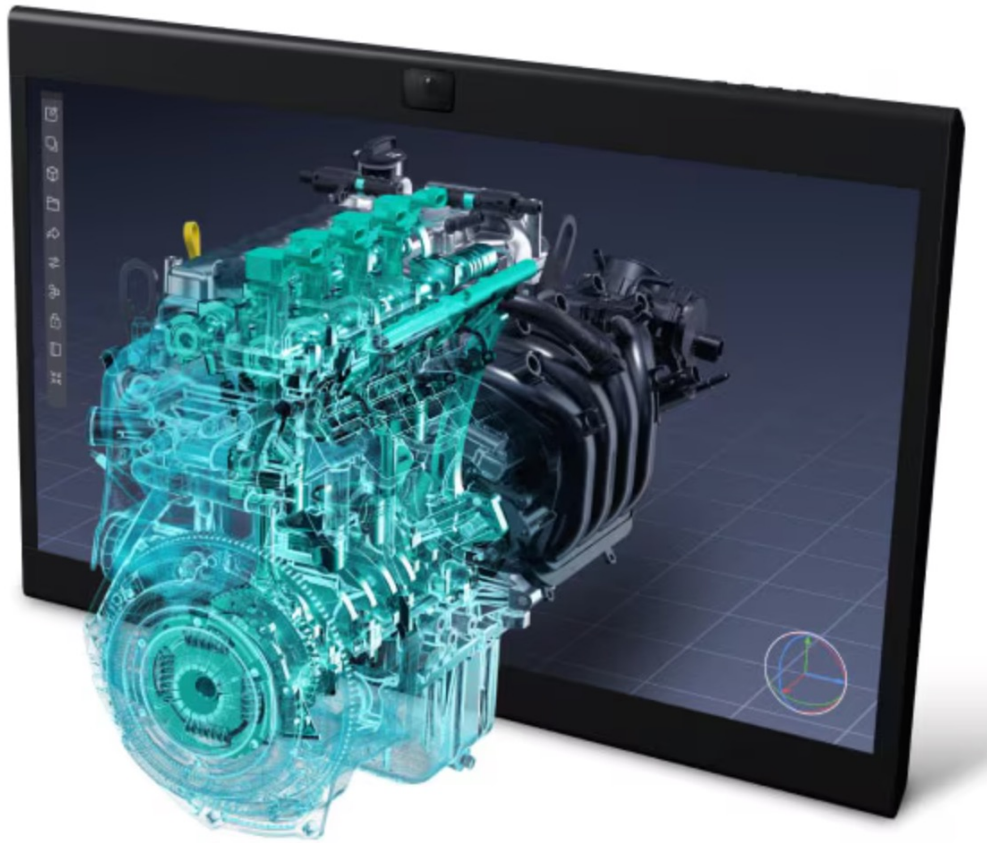

As an example, their display products are already in many of the cars we know.

# LOTS OF INTEREST

Huge companies want this type of technology
They are ready to buy Realfiction evaluation units

- Examples:
  - A global electronic/entertainment company
  - A US online merchant with smart hub products
  - A US technology company known for its search engine
  - A global networking, collaboration tools and infrastructure provider
  - One known for its digital platforms for entertainment and productivity
  - A global leader in personal computers, workstations and services
  - A global provider of professional displays and collaboration solutions
  - Consumer tech company known for smartphones and other devices
  - A global communications technology brand

We are engaged in many dialogues with huge companies. As an example, a global electronics/entertainment company have decided to purchase a DPT demo from Realfiction, as part of their technical evaluation. This dialogue and a small handful others, are in the level of potential acquisition of the entire DPT-technology/company.



TWICE 2023 Picks Awards Winner

NAB Show Product of the Year 2023 Winner

2023 Best of Show InfoComm Digital Signage Winner

reddot winner 2024

iF Design Award 2024

2025 Best of Show InfoComm AVTechnology Winner

## ELF-SR2 Spatial Reality Display

One concrete example of a glasses-free product currently in the market.

*To utilize the viewer switching function, firmware version 1.20.00 or higher is required.

Explore our Developer Site >

This product (same as the previous slide) is a good example of the main limitation in current technology, which is the single-user limitation. In this case, a function has been developed so the operator can switch the display from the operator viewing to the “customer” viewing. This is far from an ideal scenario.


If the new Nematic SLM design is successfully validated as expected, the last technology barrier will have been removed, enabling larger displays and mass production. Three scenarios will therefore be made possible, which we are working on in parallel. 1) Discussions can proceed from technology due diligence to commercial negotiations involving options like full acquisition, joint ventures etc. 2) The discussions we have about NRE projects can mature. 3) Realfiction and Goworld can manufacture a small batch of evaluation units, so all the interested companies can finally purchase these units and start working with their individual use cases and platforms.

# Unique features of the glasses-free Directional Pixel Technology

**True multi-user freedom**

Multiple users. Individual views. Full look-around. DPT's patented lens-free architecture delivers vivid glasses-free 3D for everyone — with each viewer seeing the scene from their own angle.


**Pixel-Perfect 3D**

Regardless of 2D or 3D, DPT preserves full resolution with zero pixel loss, so every viewer sees crisp detail, sharp imagery and full-focus clarity — no matter how many are watching.


**Full Depth Clarity**

As opposed to fixed-multiview screens, a DPT display delivers full depth clarity. Every part of the image is super clear. Even the objects popping out of the screen as well as details in the depth of the image remain razor sharp.


## Zero Crosstalk - Huge 3D

With crosstalk below the visible threshold, DPT unlocks bold parallax and stunning pop-out depth. Objects can appear far in front of — or deep behind — the display.


## Holographic AI Avatars

DPT brings AI avatars to life with gaze-aware 3D presence. Each viewer receives an individual perspective, enabling natural eye contact and a personal connection across multiple people.

## Intuitive Spatial Insight

DPT makes spatial information feel natural. Clear depth, distance and layered detail help users understand complex 3D content faster - from anatomy to engineering and design.