

Breakthrough Next Gen AR Display Technology

September 2021

OPTINVENT IN ONE MINUTE

- Spin off from Technicolor
- Founders have 25 years of Corporate XP in Optics and B2B components
- CEO is Executive Committee member of EuroXR
- Award winning team w/ Innovation and Execution DNA
- 35 grated international patents
- Only EU company who masters thin light guide AR display







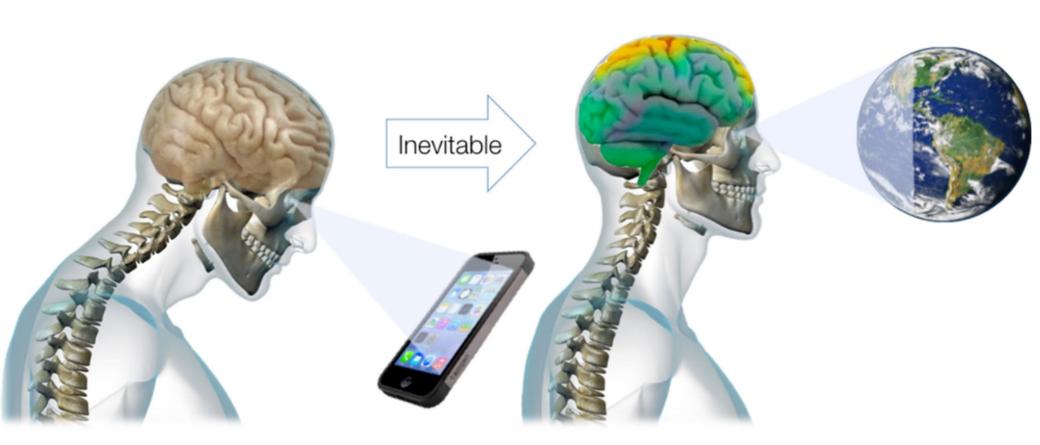






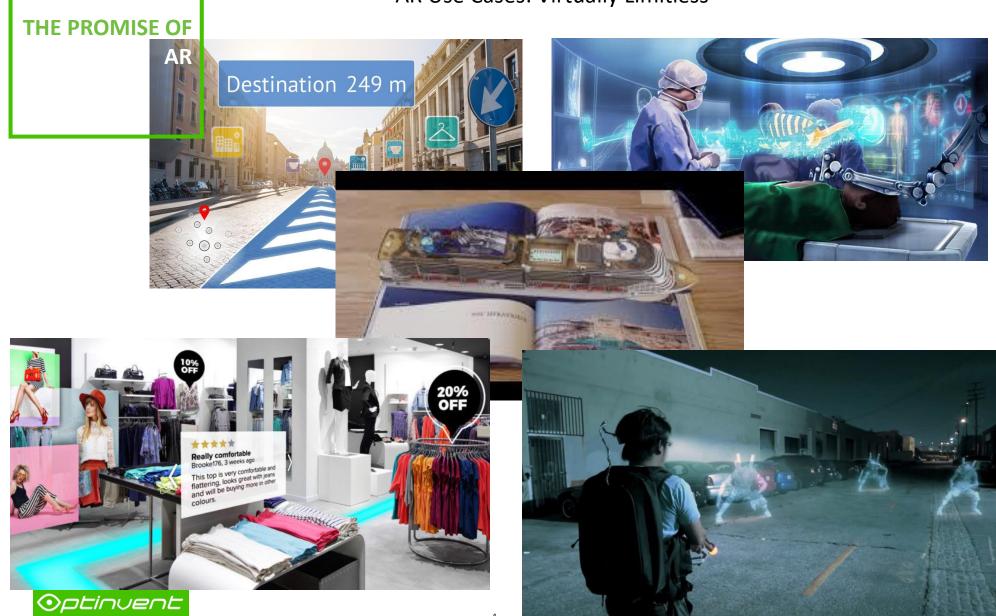
PROMISE OF AUGMENTED REALITY

The augmented human interacting with the world instead of a small screen





AR Use Cases: Virtually Limitless

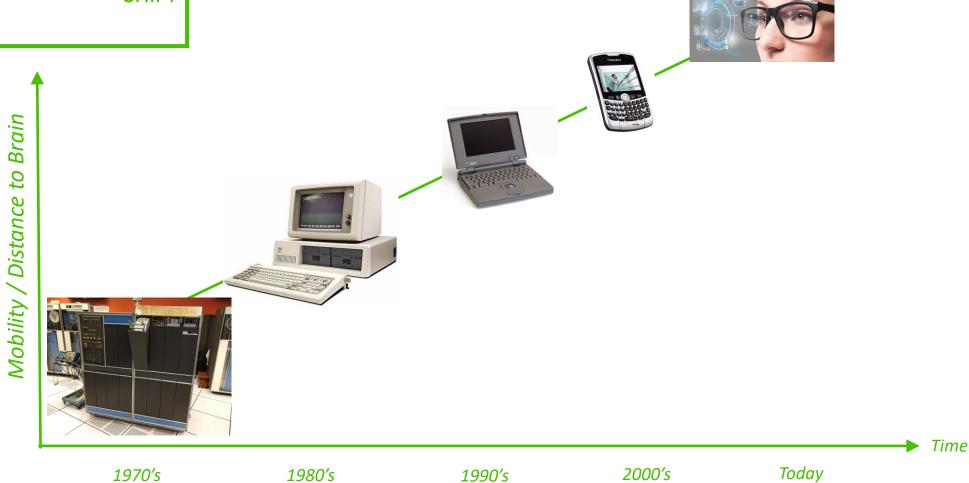


SMART GLASSES:

NEXT PARADIGM SHIFT

⊙ptinuent

AR is inextricably linked to Smart Glasses, the next paradigm in Mobile Computing

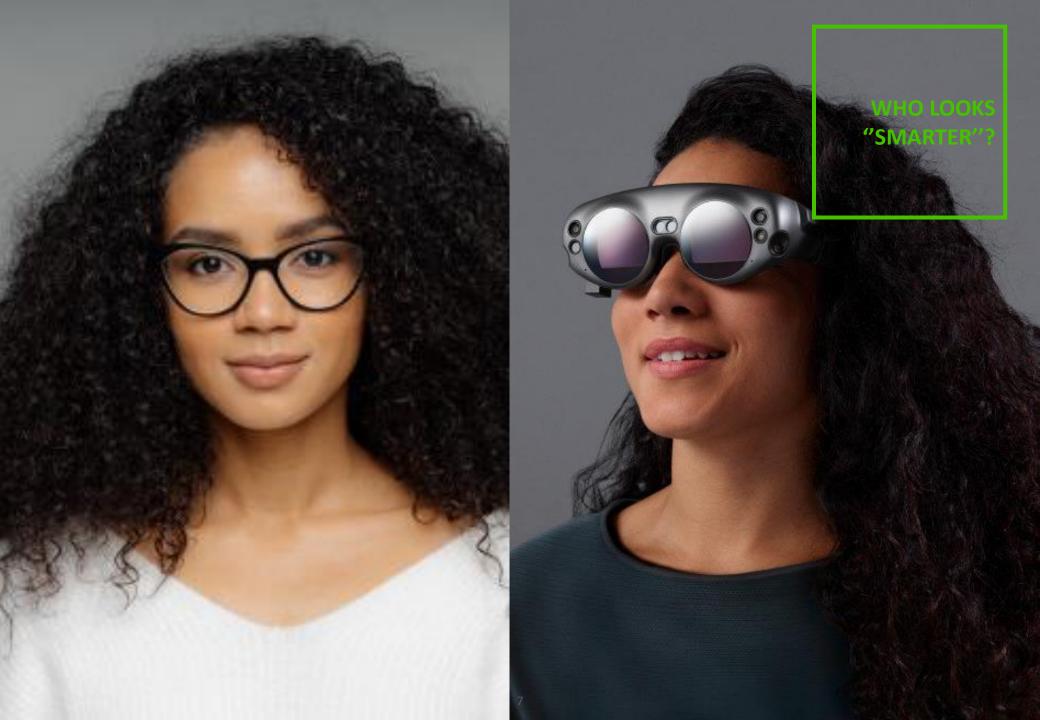


THE REALITY

Nobody has succeeded to have gain consumer traction. Too many failures and bankruptcies have hurt the market.

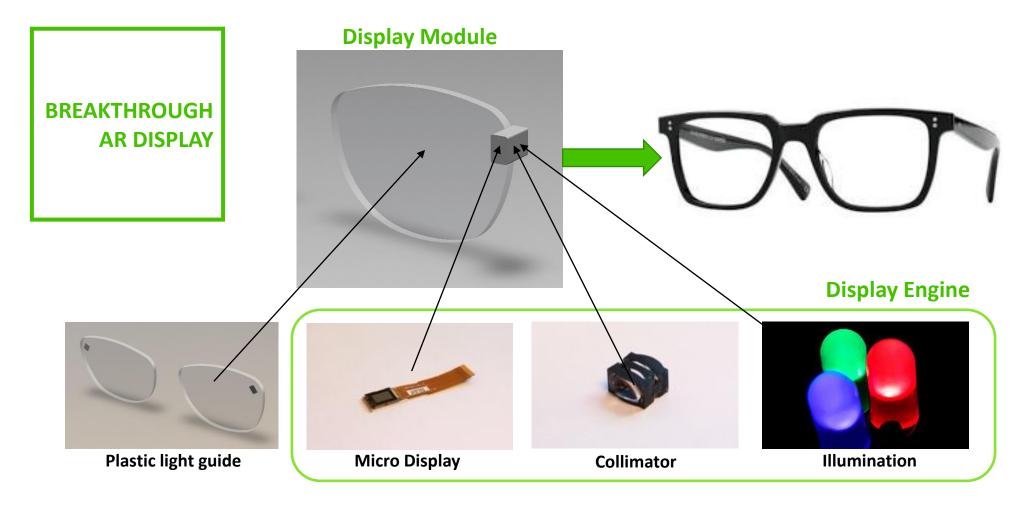
Why? It's not about industrial design. Its about the display technology!





What's the Answer?





- Molded plastic light guide is unbreakable and scalable in high-volume
- Protected by 35 Patents and <u>Secret Know-how</u>
- Proven Technology (previous versions already mass produced)
- Makes "normal" looking smart glasses possible
- Only path to consumer smart glasses



Optinvent Molded Plastic Light Guide

Complete **Light-guide Assembly** contains 2 parts:

- Molded plastic **Cover-plate Part**
- Molded plastic Light-guide Part (coated with a dielectric semi-reflective coating)

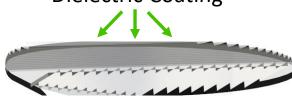
Both parts above are **glued together** with index matching glue





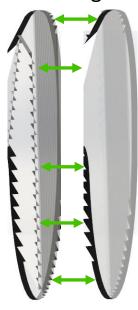


Dielectric Coating



Light Guide

Glueing



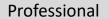


Optinvent's display can address all verticals

Current Displays:



High End



Next Gen Display:



Consumer





Military



Medical



Maintenance, Logistics, Oil and Gas





Consumer AR Glasses







KEY DIFFERENTIATORS

Optinvent's Unfair Advantages:

- 1. Unbreakable **Plastic light guide** vs. Glass
- 2. Scalable and Low Cost (5-10X less)
- 3. Low Power / High Brightness (10X more)
- 4. <15g weight, thin light guide, small display engine
- 5. Excellent color uniformity and large depth of field (near and far focal distance)

Company	⊙ ptinuent	₩ WaveOptics	LUMUS
Product Line	Clear-Vu 9 (Q1 2021)	Vulcan (Q4 2020)	OE Vision
Field of View (°Diagonal)	50	40	40
Optical Engine Form Factor	Very Small and Light	Very Small and Light	Bulky
See Through Ratio	80%	80%	75%
Efficiency (Nits/lumen)	1000	175	Equivalent to Optinvent
Contrast	200:1	40:1	Equivalent to Optinvent
Light Guide Thickness (mm)	2.0	3.1	1.7
Microdisplay Technology	Any (LCoS, DLP, Oled, Mems)	Any (LCoS, DLP, Oled, Mems)	Only LCoS
Visual Comfort (Eyebox)	14x13mm	19x15mm	Low
Light Guide Material	Plastic	Wafer Glass	Wafer Glass
Safety	Unbreakable	Fragile	Fragile
Manufacturing Process	Plastic Molding	Diffractive Nanometric Grating	Multilayer Glass Sandwich
Scalablility	Proven	Costly	Yield Isues
IP	35 Patents + Secret Sauce	Good	Prior art + Secret Sauce
Cost	1X	5X	10X





TARGET CUSTOMERS

Target:

Tech Giants working on consumer AR Glasses but Missing Key Display Technology

Business Model:

Sale of Customized Display Modules or License to Produce

















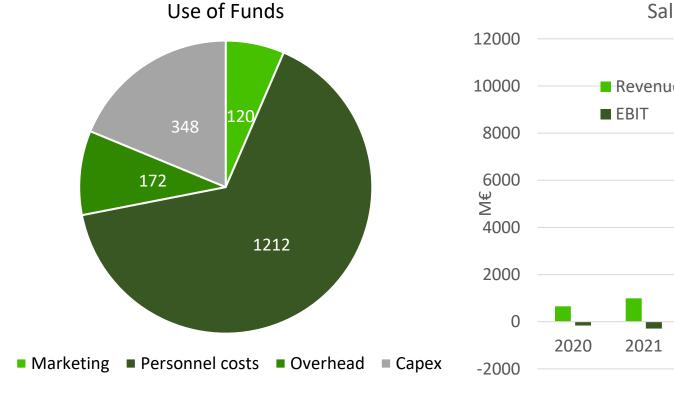






FUNDING

- Currently raising 6M€ Series A in two tranches
- Yr 1: Industrialize and Commercialize next gen. display
- Yr 2: Go to Market
- Yr 3: Profitability







CONCLUSION

- Optinvent's will be the "Intel Inside" of AR smart glasses
- The next gen display is a breakthrough and the only path to consumer smart glasses
- EU can take the lead with an ambitious investment to move beyond niche AR use cases





