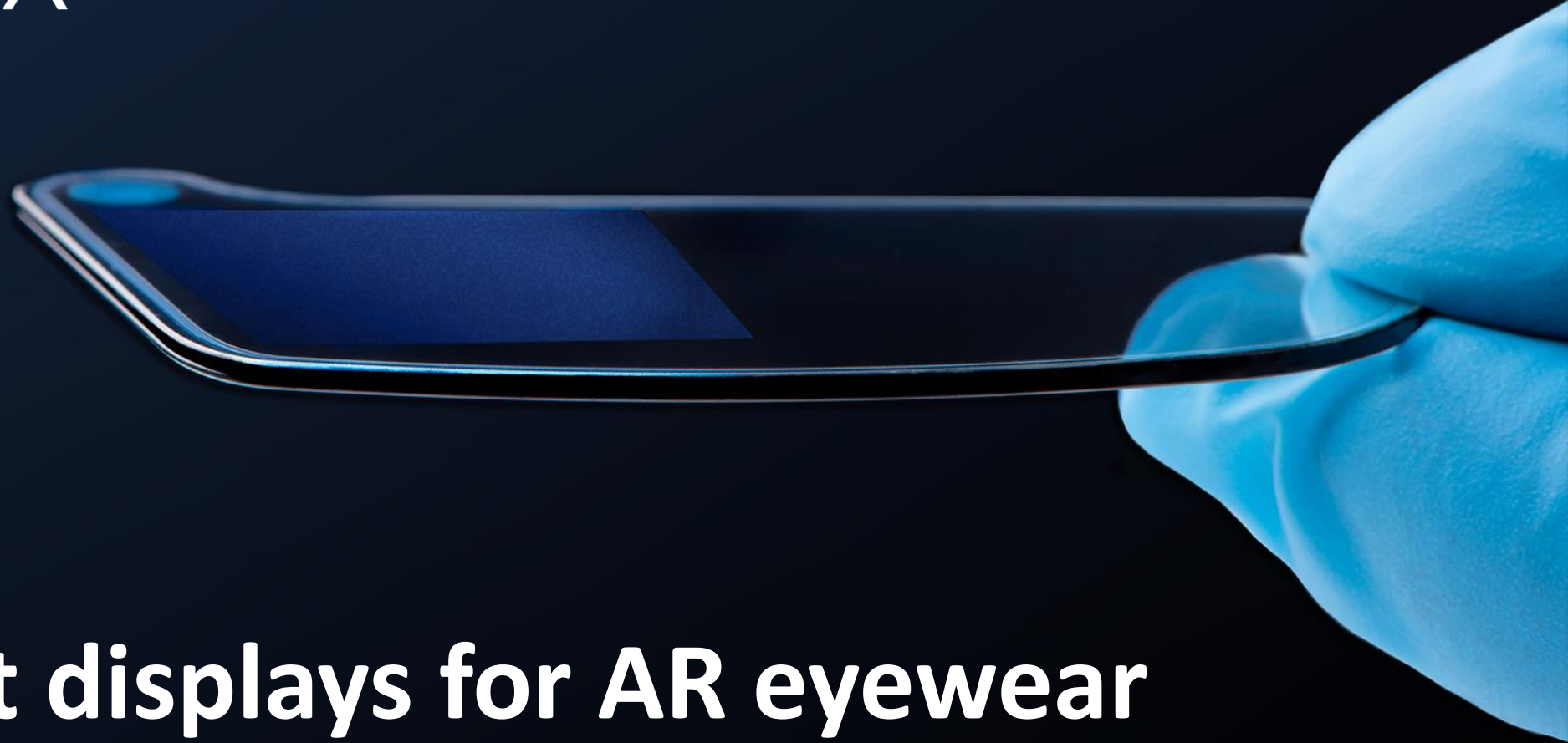


dispelix



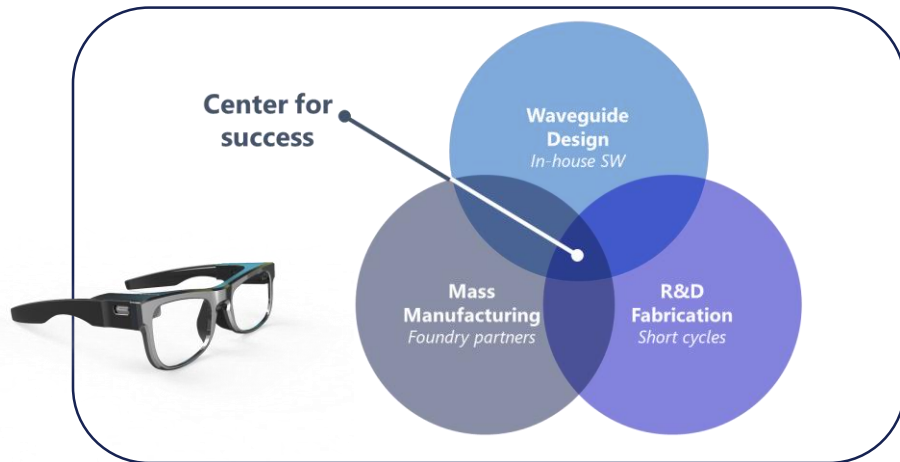
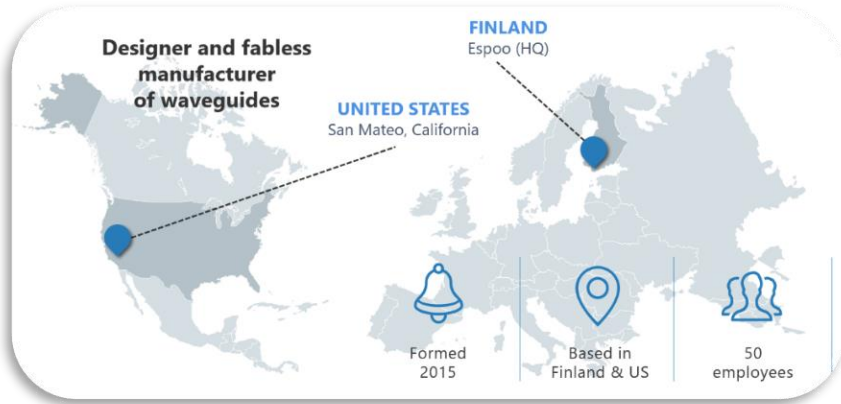
The best displays for AR eyewear

Jussi Rahomäki, Dispelix

EPIC Online Technology Meeting on Freeform Optics for AR/VR

April 29, 2020

Dispelix Snapshot



Our Business:

- DPX™ waveguide displays
- Customized display solutions

DPX™ waveguide displays

30° | 40° | 50° | LBS

Full-color single-layer near-eye display

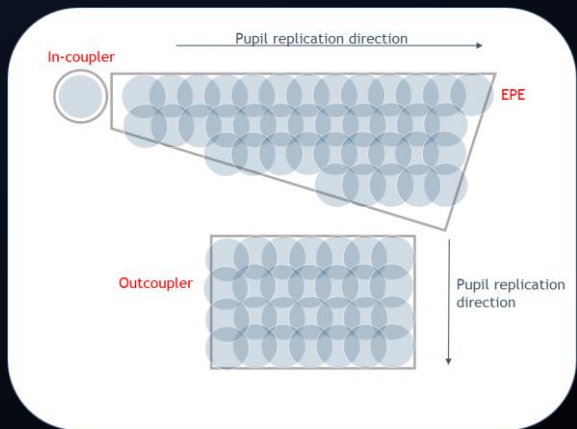
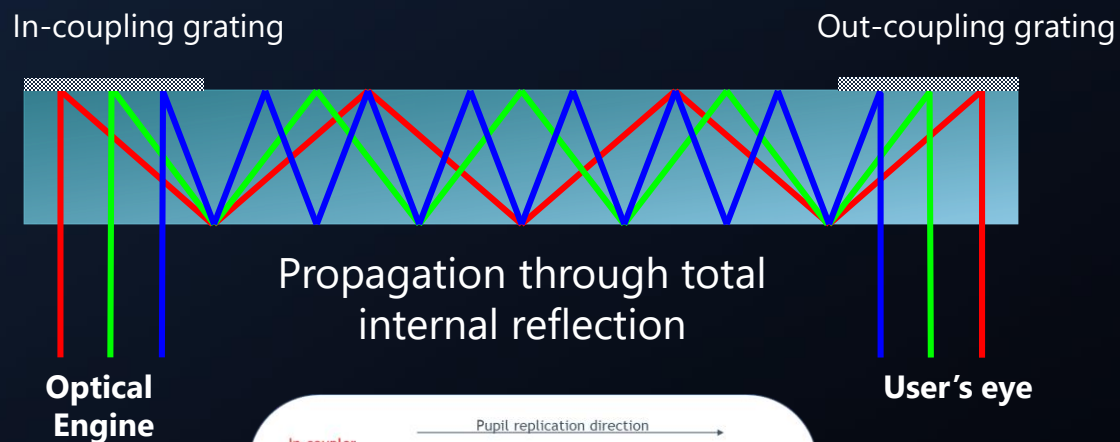
The best form factor in the AR industry

Designed for mass manufacturing

Investors



Technology



Single Layer Waveguide

- Thin
- Low Weight
- High Transparency
- Low Cost

Example configurations

Traditional	Mushroom forest
<ul style="list-style-type: none">▪ 30 deg FOV▪ 1D grating	<ul style="list-style-type: none">▪ 60-70 deg FOV▪ 2D grating

How about Freeform Optics and Waveguides?

Are there benefits from freeform optics★

Increasing FOV increases the challenges for optical engine (OE) design for wearable AR with waveguides (WG):

- Size
- Shape
- Brightness
- Efficiency
- Uniformity control
- Aberrations

