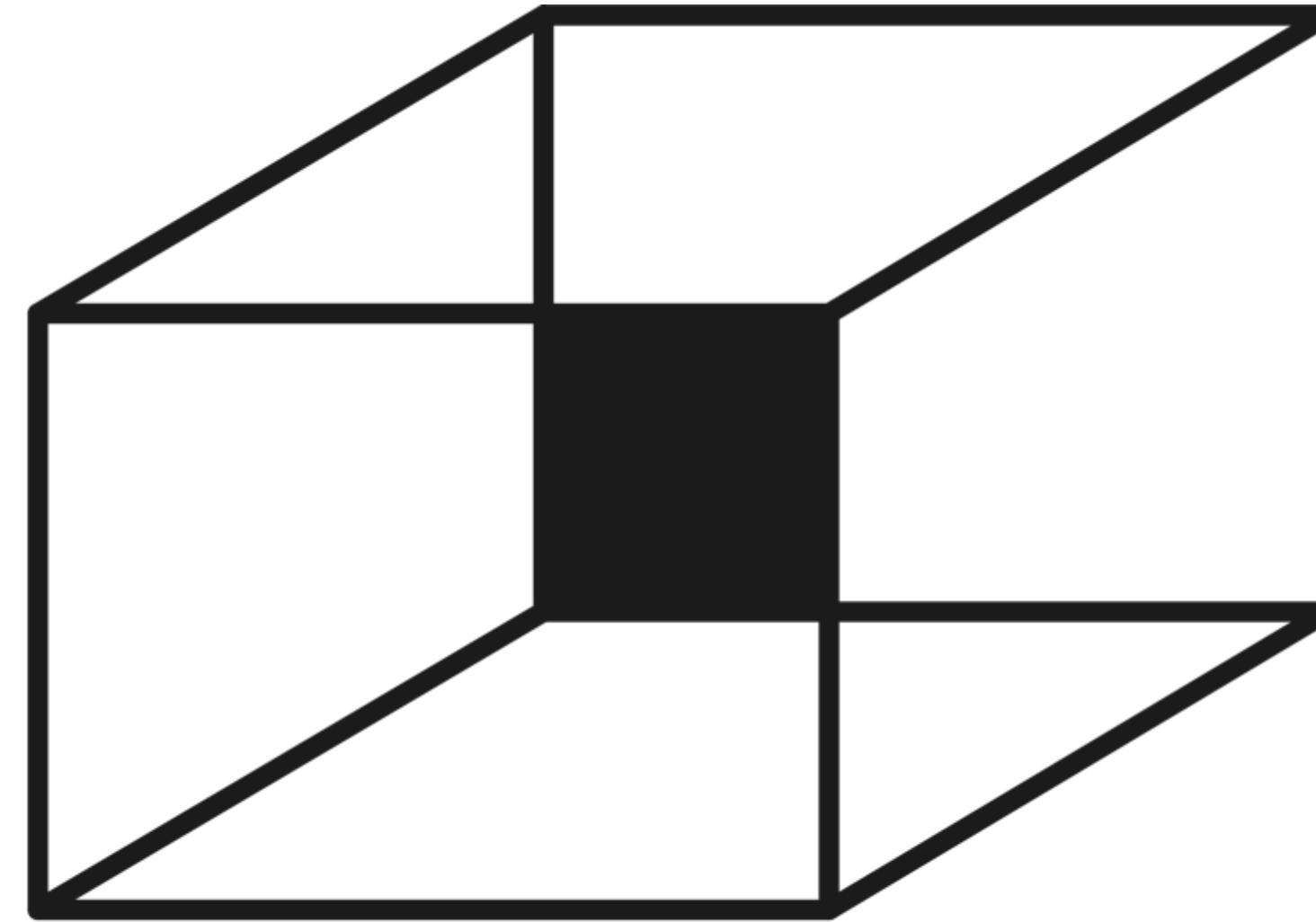


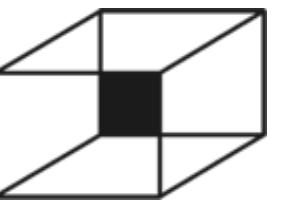
Den Kloke Teknologi - 24 Oktober



Dimension10

Revolutionizing collaboration and visualization with Virtual Reality

The third computing platform



Computer / PC

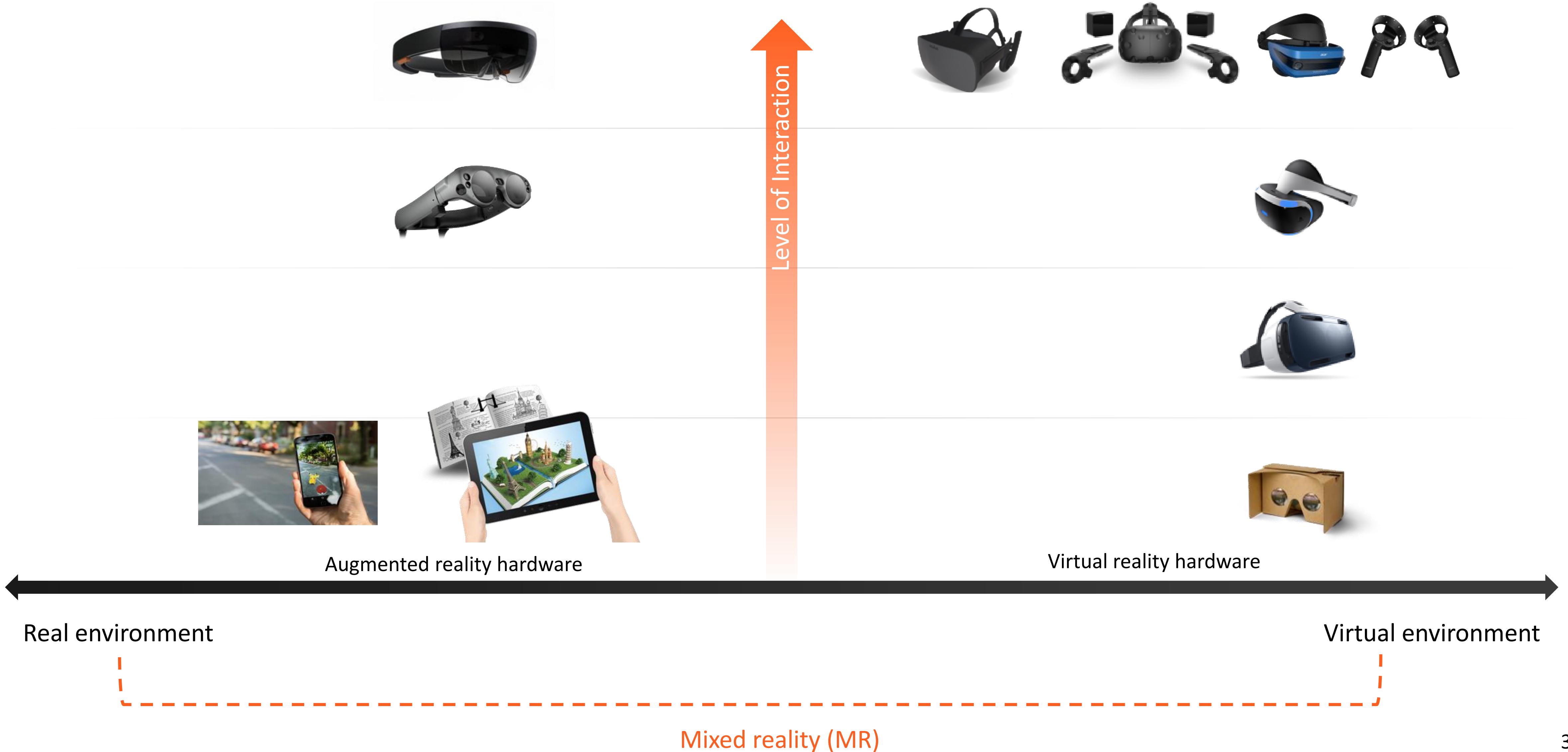
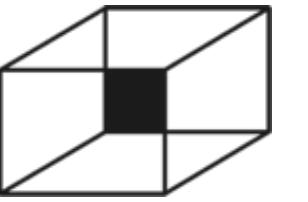


Mobile Phone / Pad

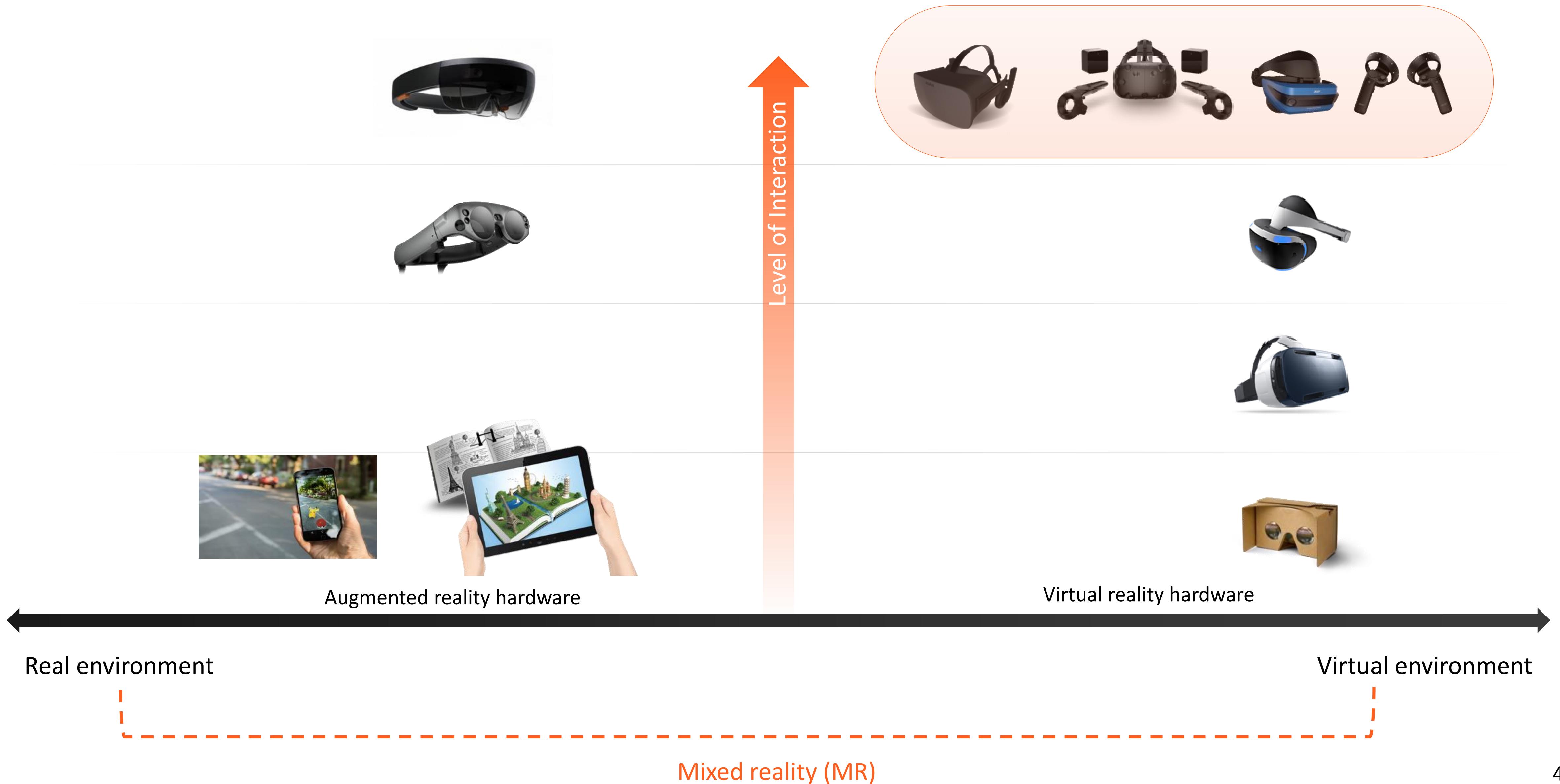
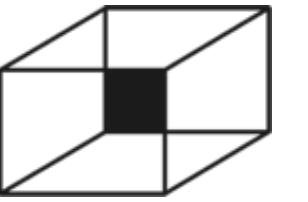


AR/VR/MR

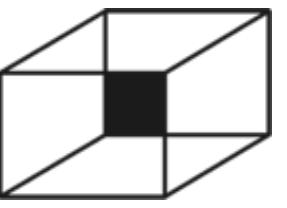
The third computing platform



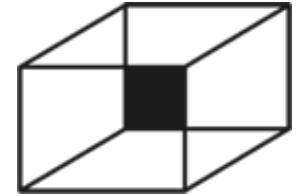
The third computing platform



Why care about VR?



We learn and understand better using VR



Virtual Reality is the only technology that allows you to learn through experience

Experience is the best way to learn, 10x more efficient than reading and 5x better than listening

“People remember information better if it is presented in VR vs. on a two-dimensional personal computer”

- University of Maryland, July 2018



After two weeks,
we tend to remember ...

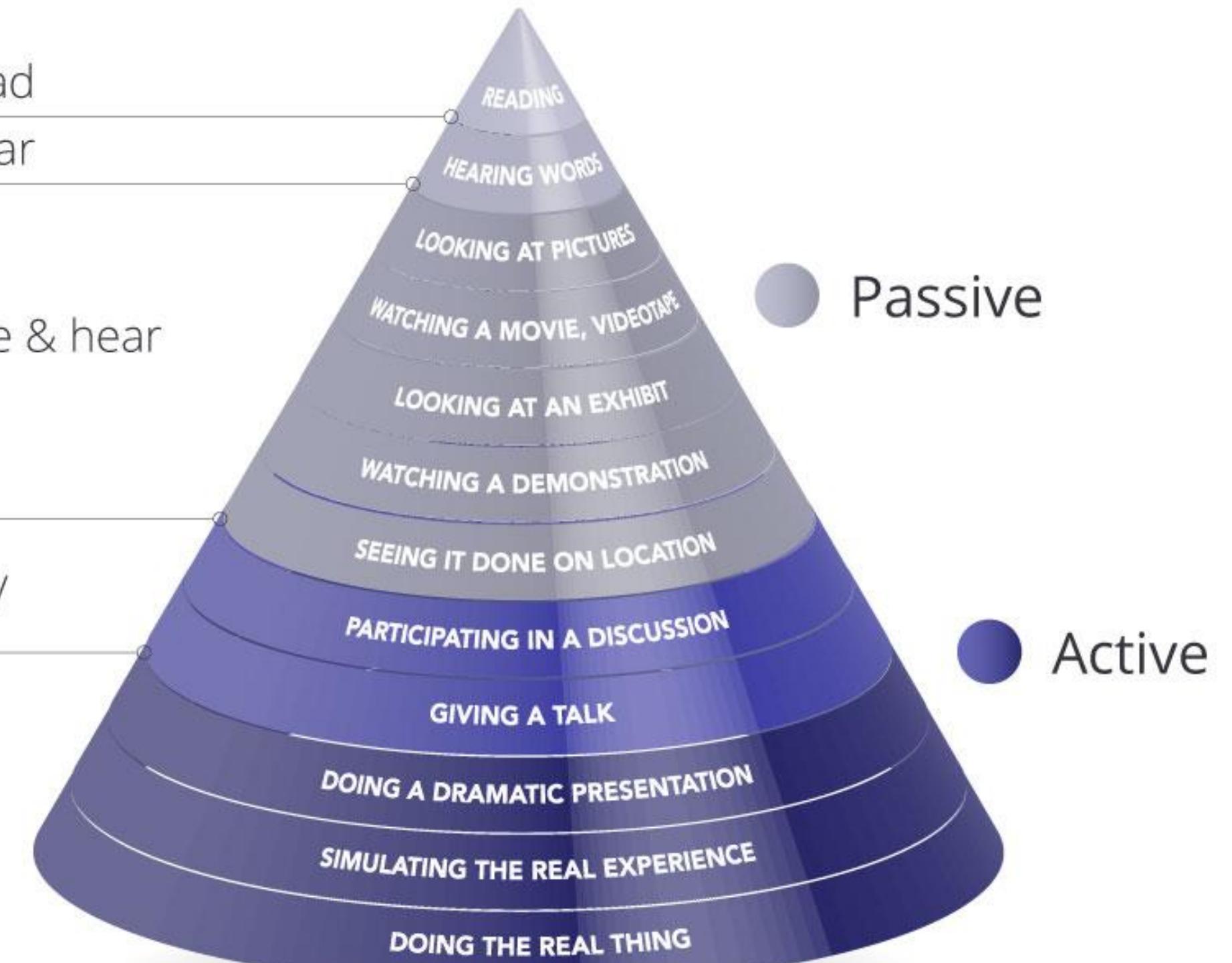
10% of what we read

20% of what we hear

50% of what we see & hear

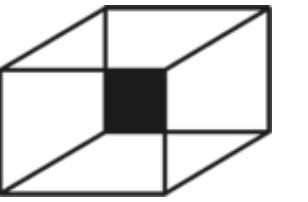
70% of what we say

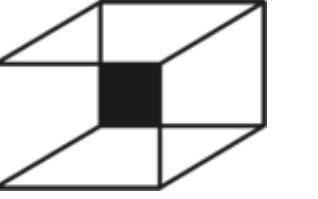
90% of what we do



Adapted from: Edgar Dale *Audio Visual Methods in Teaching*, Holt, Rinehart & Winston.

What is it we experience in VR?

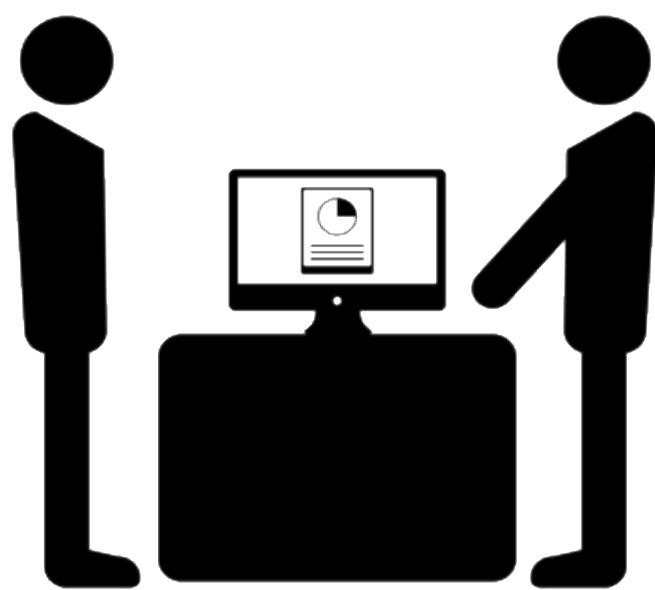
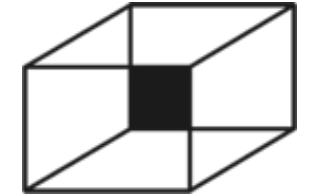




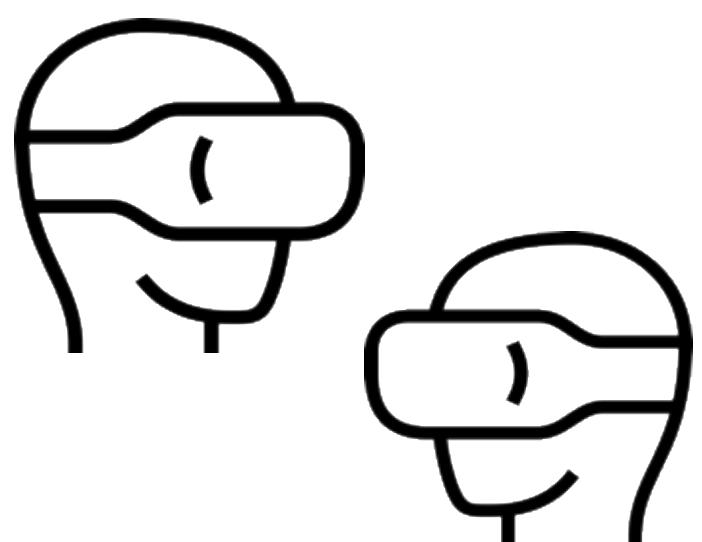
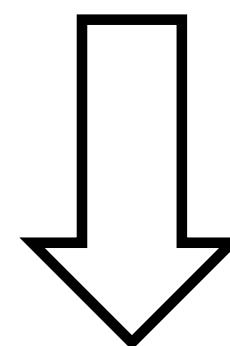
Always a party in VR



Experience 3D-models in 3D as intended



Traditional design reviews and projects meetings are centred around the 3D-model projected on a 2D-screen (pc screen, smart TV or projector)



Companies now move towards meetings using the Dimension10 platform, viewing 3D-models in 3D, enabling participants to have better discussions, reduce misunderstandings and solve problems faster

Dimension10 makes your job easier and significantly increase general efficiency

1. Easier to understand the design and the model
2. Easier to explain the design and the model
3. Easier to navigate the 3D-model for everyone, no need for dedicated operators
4. Easier to find solutions
5. Easier to be creative

Using dimension10 for design reviews and project meetings will make the project progress faster, reduce the number of misunderstandings and make life better for all parties involved

Statsbygg – better collaboration



Statsbygg is the **Norwegian government's** key advisor in **construction** and **property** affairs, building commissioner, property manager and property developer. Controls property portfolio valued at **USDbn 5** (as of 2016).

"The D10 platform gives us the possibility to both visualize and collaborate in ways we only dreamed was possible. This will change how we work and think throughout the AEC industry."

- Omar Manaf, Statsbygg

■ Pain points

- Aligning model understanding across different disciplines development
- Travel to and from construction site for meetings - both related to cost and sustainability
- Different disciplines have different interest, often HVAC can collide with electricians interests

■ D10 solution:

- Allows all disciplines, from engineers to business developers to carpenters to align understanding
- Allows for reduced travel, saving cost, time and the environment
- Allows for better understanding of collisions and facilitates problem solving

AF Gruppen – Build better roads



AF Gruppen is a **leading contracting and industrial group**. The purpose of their business is to create value for their customers, owners, employees and society at large.

«Når du allerede etter en times bruk (modell i VR) fant flere slike ting i en rundkjøring, kan man jo tenke seg hva man kan spare på et helt veiprosjekt» - Rune, AF Gruppen

«Det var interessant å oppleve hvor raskt man aksepterer et VR-møte som konsept. Det tok ikke lang tid fra man tok på seg brillene til man ikke lenger reflekterte over at man befant seg i VR og heller konsentrerte seg om de faglige detaljene» - Anja, AF Gruppen

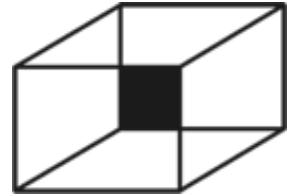
■ The Challenge

- To build the new E39 between Kristiansand and Mandal
- Use new technology that will add value to the project

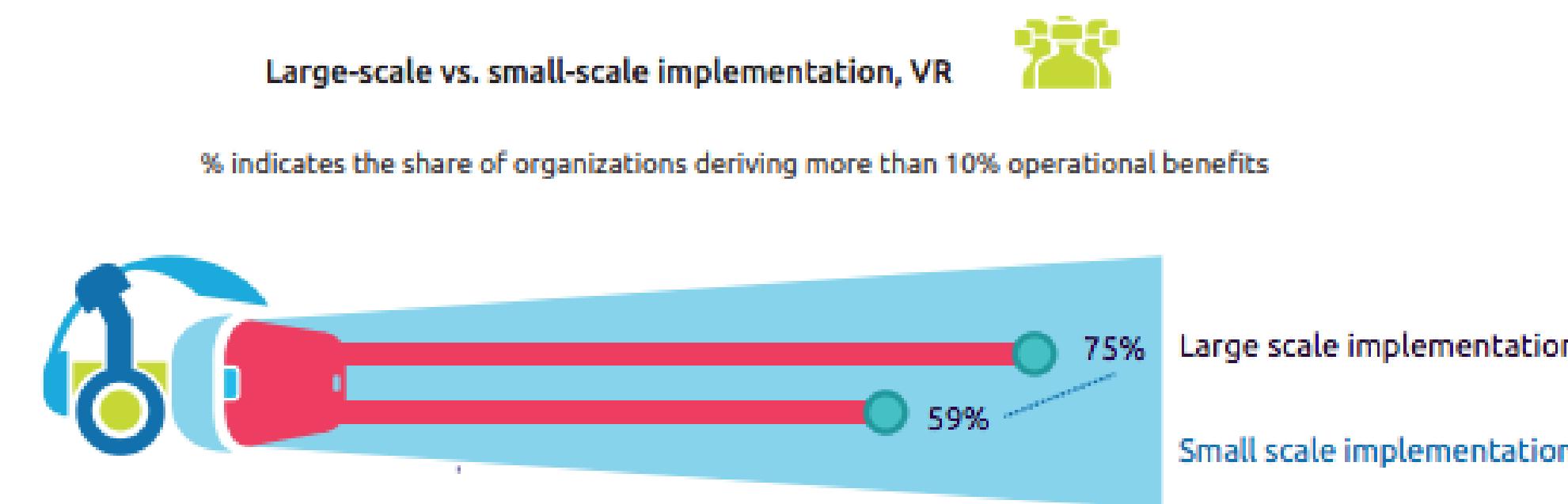
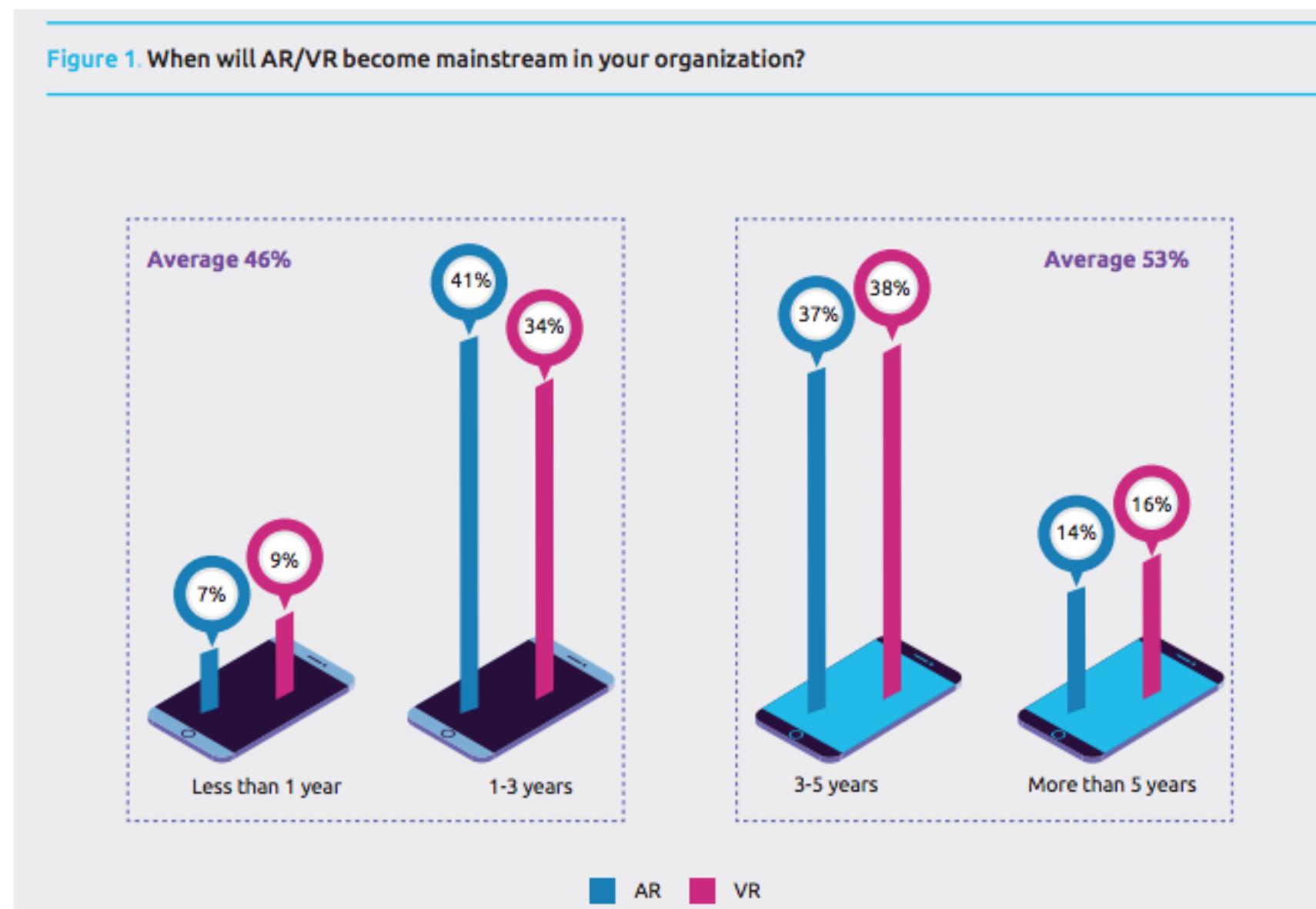
■ The D10 Solution

- Allow the use of own 3D-model in VR to see challenge not “visible” on a 2D screen
- Allow users to discuss solutions “on site”, using VR to be onsite virtually instead of car to be onsite physically. Saves time, the environment and money

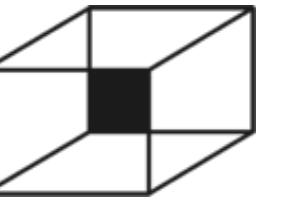
VR yields great operation benefit



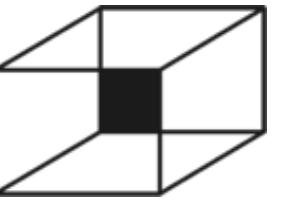
«82% of companies implementing AR/VR indicate that benefits yielded from their AR/VR initiatives meet or exceed their expectations» - Capgemini, July 2018



How to get started?



What does the future look like



Software will evolve, creating new features and cater for more versatile use and new use cases



VR will become standard equipment at all companies involved with 3D-models



The companies that start using the technology now will gain a competitive advantage

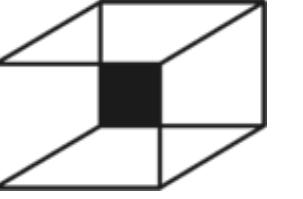


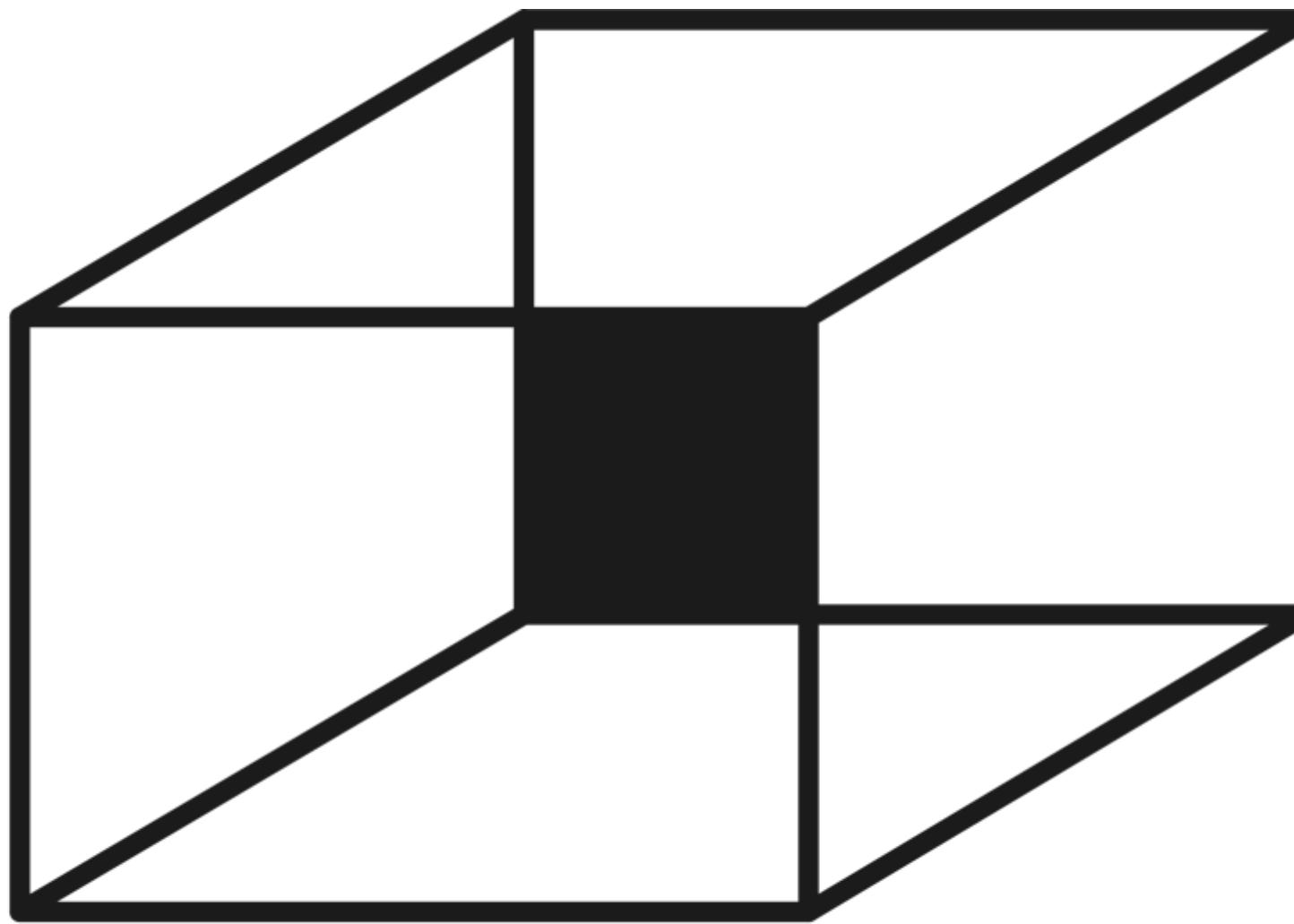
Hardware will evolve, just like computers and mobile phones have done



VR and AR will merge, one headset will support both technologies

From VR rooms to personal equipment





Dimension10

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Aleksander@dimension10.com