TO EXPLORE
THE POSSIBILITIES OF
VIRTUAL REALITY (VR) & AUGMENTED REALITY (AR)

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Emerging Technologies
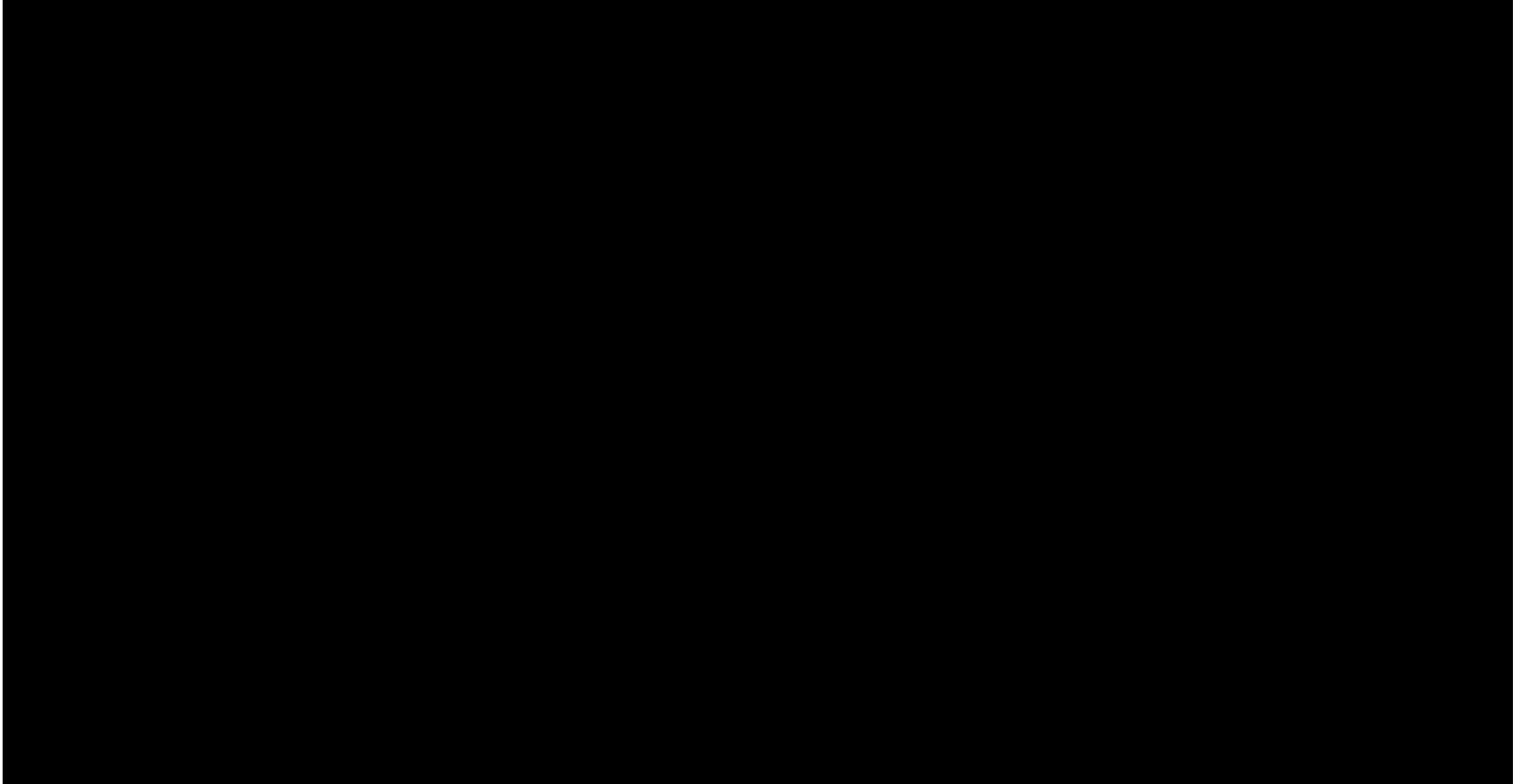Tennessee Board of Regents
USA

10 Industries that are using Virtual Reality

- Healthcare
- Entertainment
- Automotive
- Advertising
- Education
- Tourism
- Space
- Skilled trades
- Military and law enforcement

Harvard Recruiting with VR

10 Ways Virtual Reality is Impact Health Field

- **Exposure therapy**

One treatment for patients with phobias is exposure therapy. In one instance, psychiatrists at the University of Louisville are using VR to help patients deal with fears of things like flying and claustrophobia.

- **Treatment for PTSD**

Similar to exposure therapy for phobias and anxieties, virtual reality is being put to use to help soldiers with post traumatic stress disorder (PTSD).

- **Pain management**

For burn victims, pain is an ongoing issue. Doctors are hoping distraction therapy via virtual reality could help them get a handle on that pain.

- **Surgical training**

Training for surgeons usually involves cadavers and a gradual process of assisting more experienced doctors before taking over tasks and bigger portions of the surgery. Virtual reality could provide another means of practice, without any risk to real patients.

- **Phantom limb pain**

For people who lose a limb, a common medical issue is phantom limb pain. For example, someone without an arm might feel as though he is clenching his fist very tightly, unable to relax.

- **Brain damage assessment and rehabilitation**

- **Social cognition training for young adults with autism**

Professors at the University of Texas, Dallas created a training program to help kids with autism work on social skills. It uses brain imaging and brain wave monitoring, and essentially puts kids in situations like job interviews or blind dates using avatars.

- **Meditation**

One treatment for general anxiety can be meditation. A new app for Oculus Rift called DEEP aims to help users learn how to take deep, meditative breathes by making breathing the only control for the game.

- **Opportunities for the disabled**

Field Studies
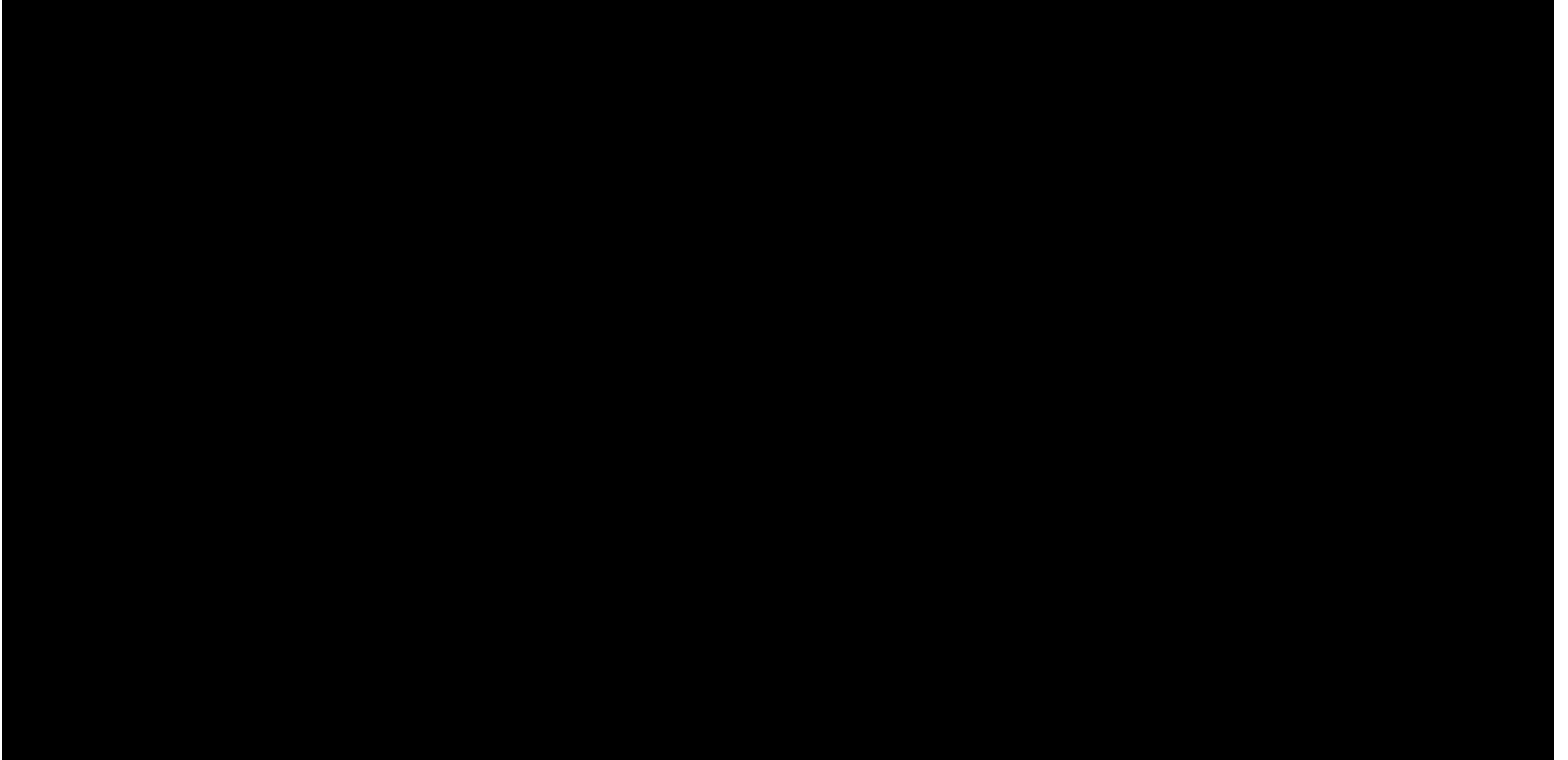
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Google Cardboard

Google Cardboard Assembly – Step by Step Instructions

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Sports and VR

CNN will Live Stream Democratic Debate in virtual reality

Colleges are starting to use virtual reality platforms to augment or replace cadaver labs, saving universities thousands of dollars.

http://www.centerdigitaled.com/higher-ed/Can-Virtual-Reality-Replace-the-Cadaver-Lab-CDE.html

Where the Internet of Things Could Take Society by 2025

New POSSIBILITIES

Google Cardboard

Google Cardboard Apps

- Top Free Apps for Google Cardboard:
https://youtu.be/bvvS9zYbTFg

- Google Cardboard Best of Apps List:
https://youtu.be/JWayxeg-k4c

- Best Google Cardboard apps / games 2015:
https://youtu.be/ysNu5w_niYE

- Google Play Store:
https://play.google.com/store/apps/collection/promotion_3001527_cardboard_apps

Changing Behavior – Enhance Performance

- Many expect that a major driver of the Internet of Things will be incentives to try to get people to change their behavior—maybe to purchase a good, maybe to act in a more healthy or safe manner, maybe work differently, maybe to use public goods and services in more efficient ways.

- Laurel Papworth, social media educator, explained, "Every part of our life will be quantifiable, and eternal, and we will answer to the community for our decisions. For example, skipping the gym will have your gym shoes auto tweet (equivalent) to the peer-to-peer health insurance network that will decide to degrade your premiums.

Concerns and Challenges

- The realities of this data-drenched world raise substantial concerns about privacy and people's abilities to control their own lives. If everyday activities are monitored and people are generating informational outputs, the level of profiling and targeting will grow and amplify social, economic, and political struggles.