



Emerging Tech Trends in the Library – Part 9

An Infopeople Webinar
January 23, 2019



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Introduction

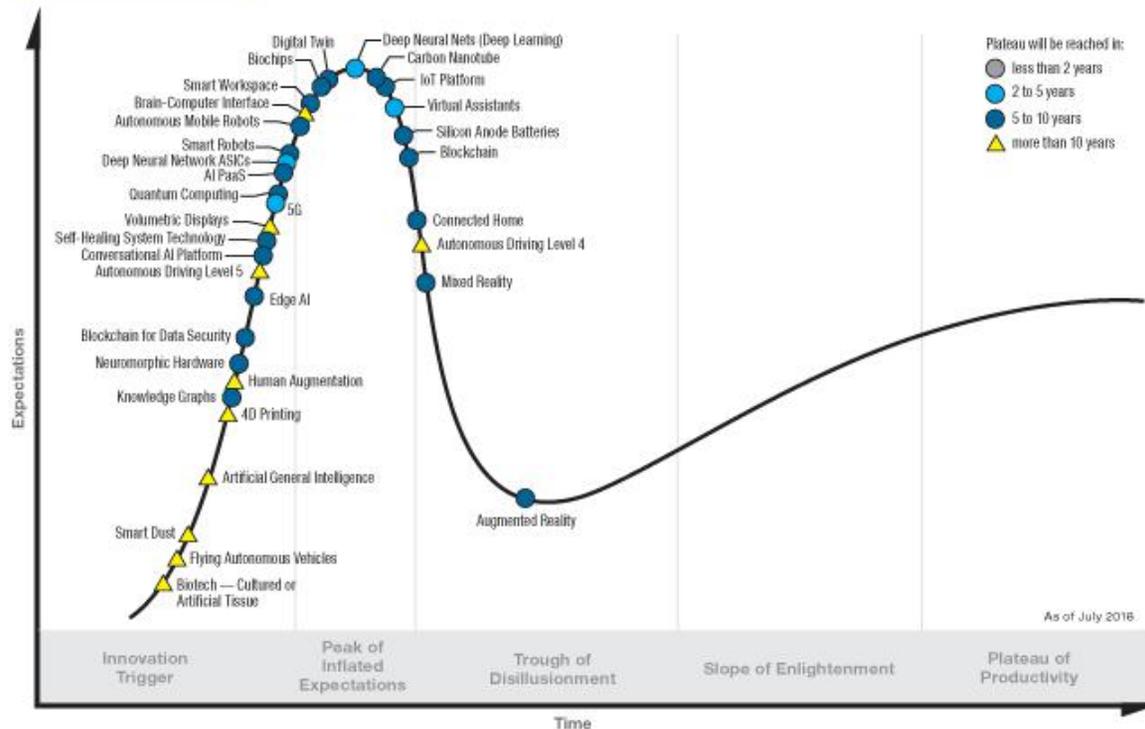




both sides of the
fence



Hype Cycle for Emerging Technologies, 2018



<https://www.gartner.com/smarterwithgartner/5-trends-emerge-in-gartner-hype-cycle-for-emerging-technologies-2018/>

gartner.com/SmarterWithGartner

Source: Gartner (August 2018)
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Gartner.

It's **not** all about
libraries



Libraries are now
IT-driven

Why care?

This stuff is going to affect
your job

Our patrons may already
be using them

THE AGENDA



Facial recognition



Mixed reality



Smart spaces



Implanted wearables



Facial recognition

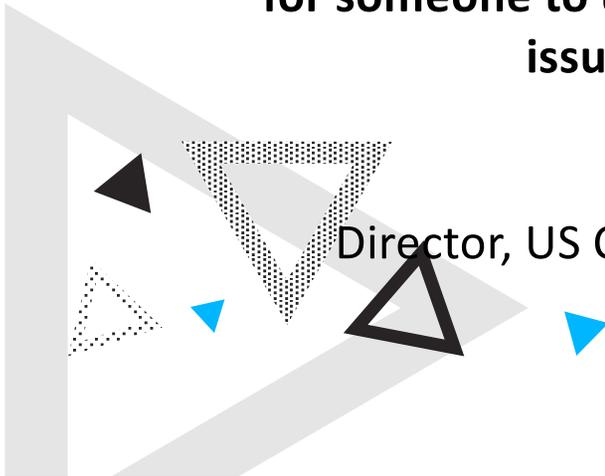


It's already in U.S. airports

"Facial recognition technology is an important step forward for CBP in protecting the United States from all types of threats. Terrorists and criminals continually look for creative methods to enter the U.S. including using stolen genuine documents. The new facial recognition technology virtually eliminates the ability for someone to use a genuine document that was issued to someone else."

Casey Durst

Director, US Customs and Border Protection



It's already in
police
departments

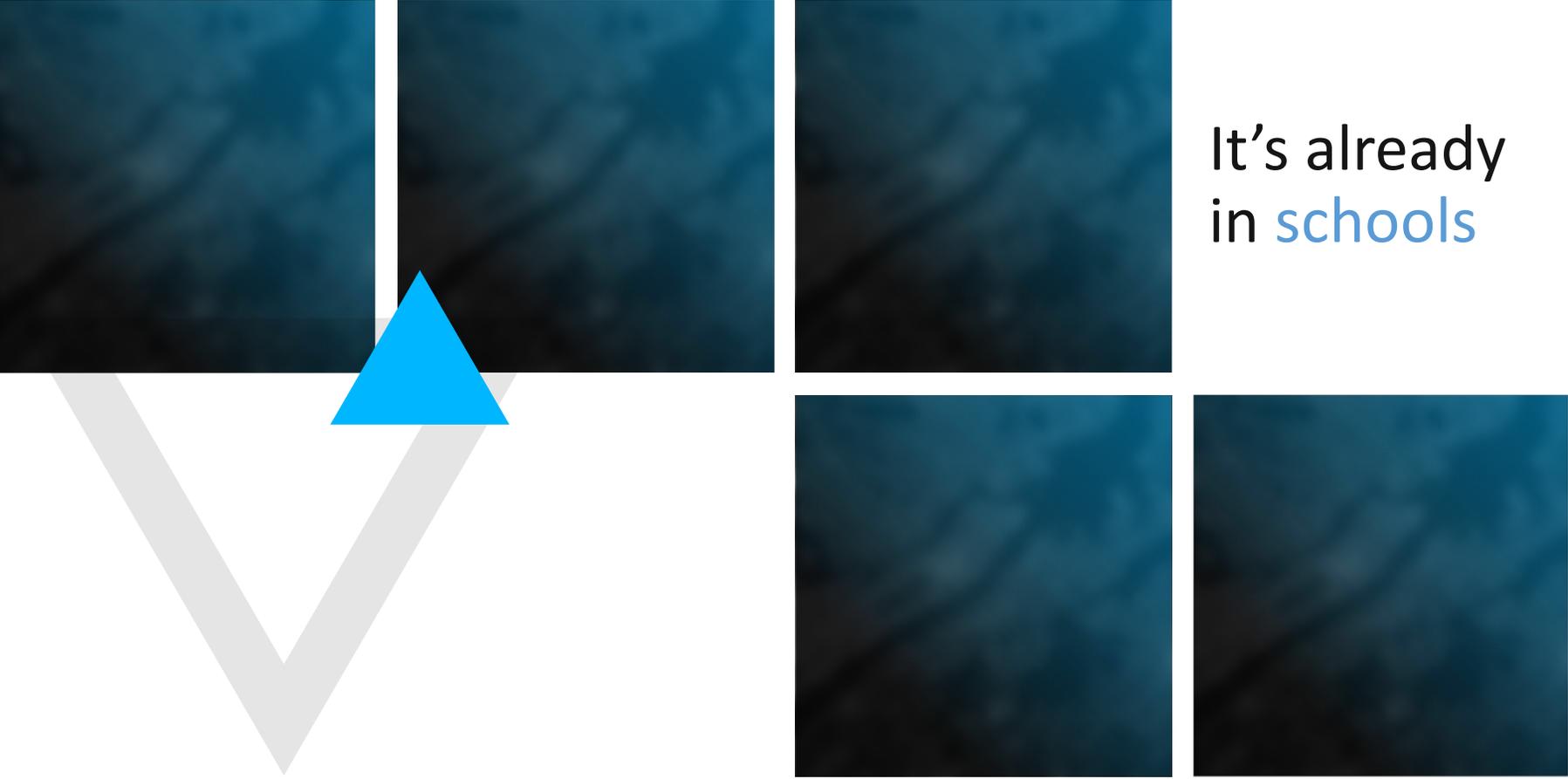


Amazon Rekognition

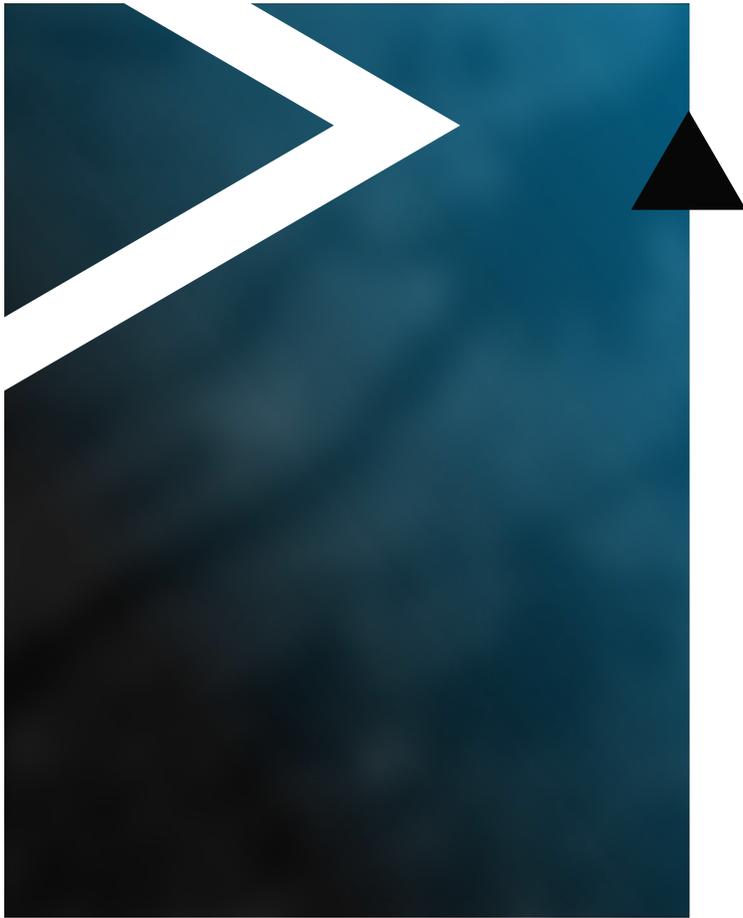
Deep Learning-Based image analysis

[Try Demo](#)

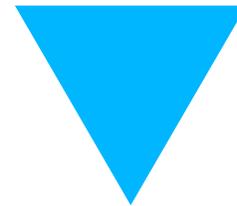
[Download SDKs](#)



It's already
in schools



It's already
on **social media**



It's coming
to **baseball**



Image from <https://gizmodo.com/face-recognition-tickets-are-coming-to-baseball-games-1827577430>

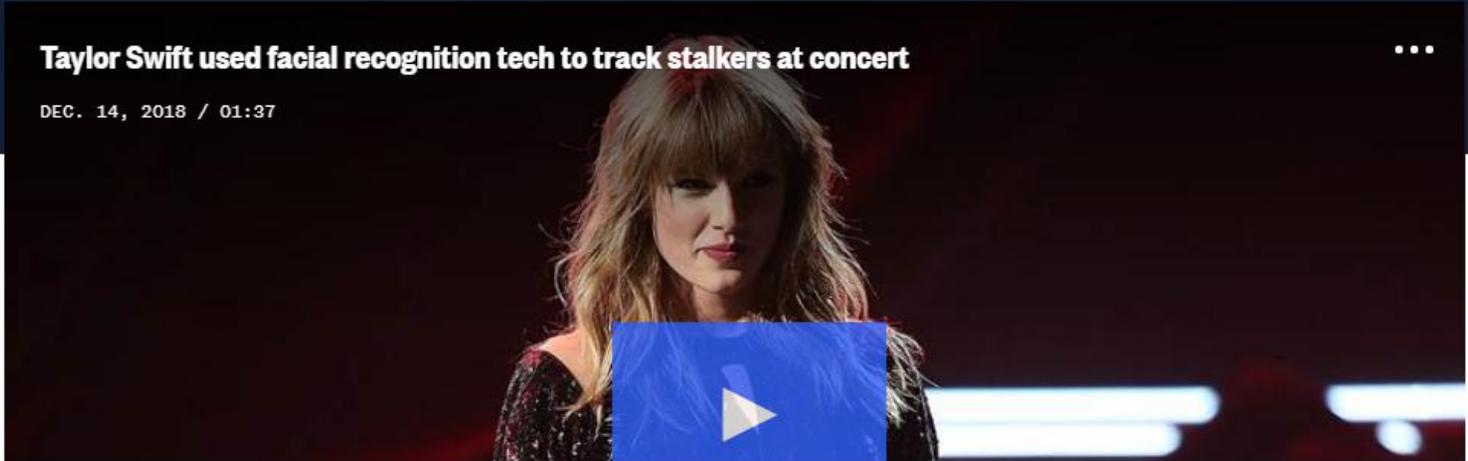
TECH NEWS

Facial recognition tech used to scan for stalkers at Taylor Swift show: report

Security at a Taylor Swift show secretly used facial recognition technology on the crowd to look out for 'Trouble' – her stalkers, a new report says

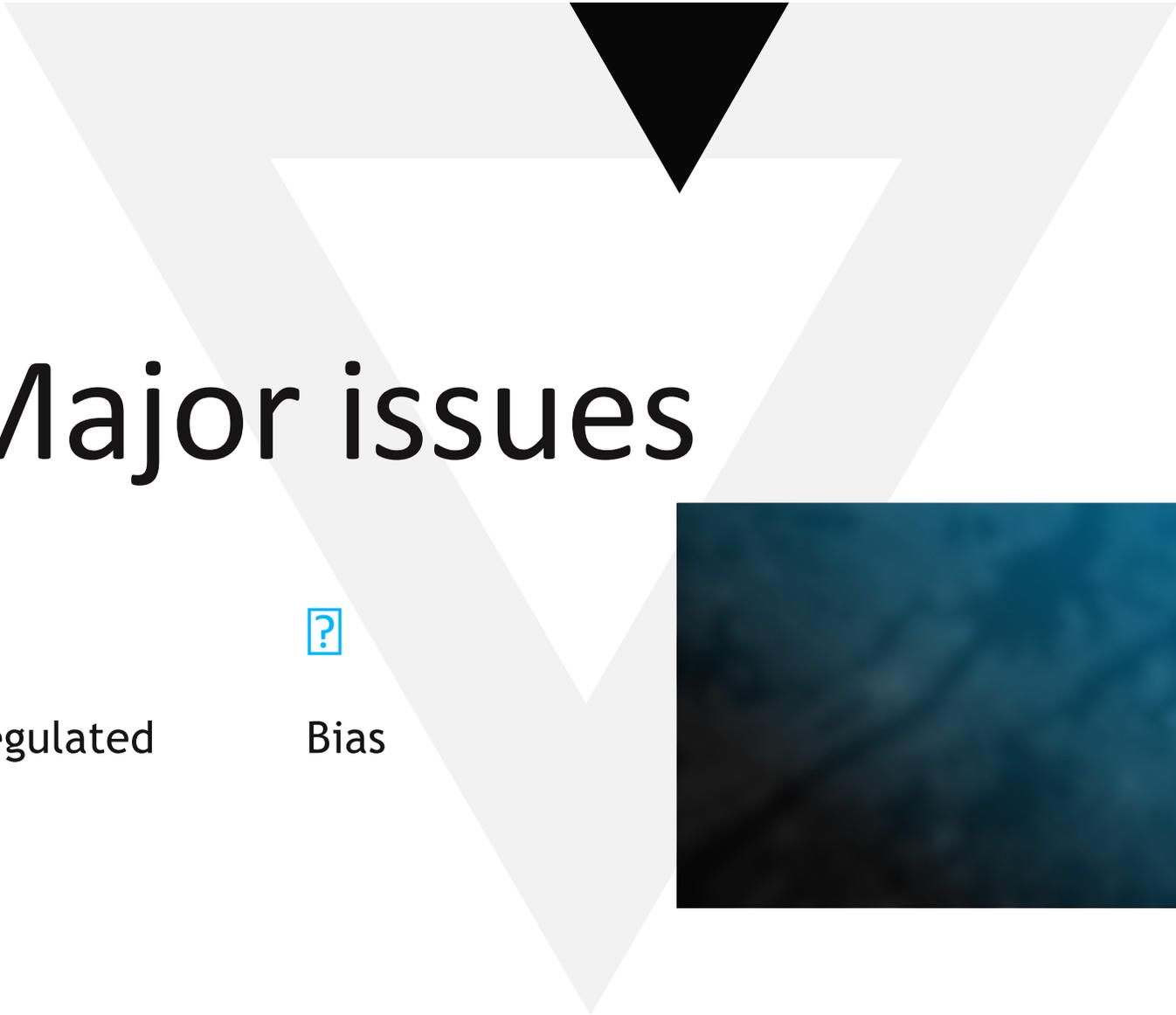
Taylor Swift used facial recognition tech to track stalkers at concert

DEC. 14, 2018 / 01:37



It's even available for COWS





Major issues



Privacy



Unregulated



Bias





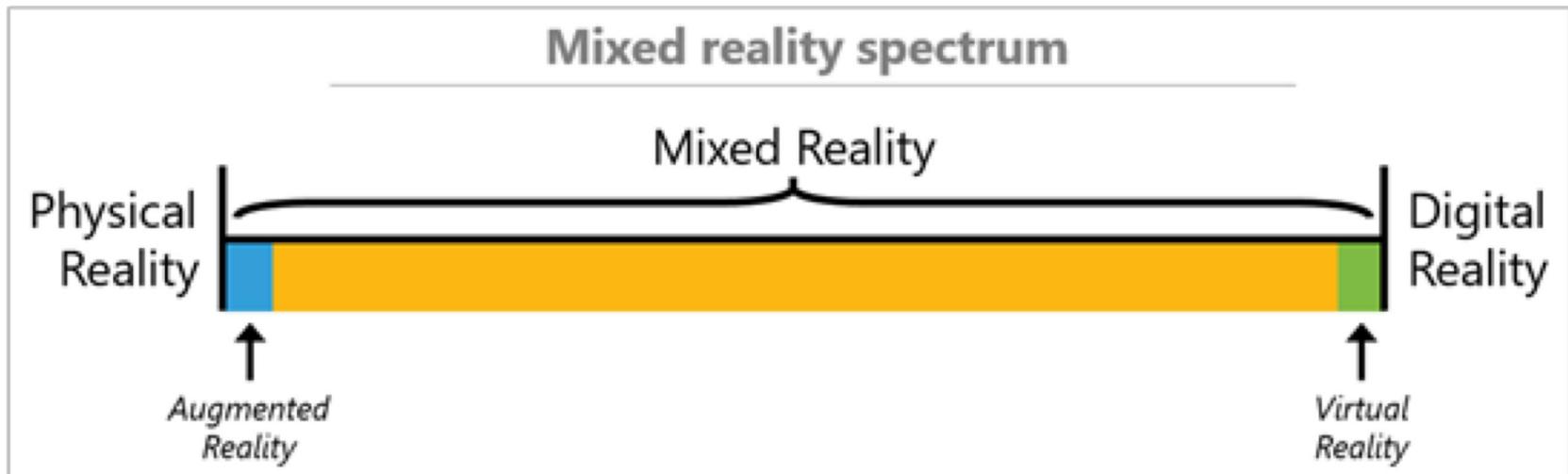
What about libraries?

Does facial recognition hold
any value for us?



Mixed reality



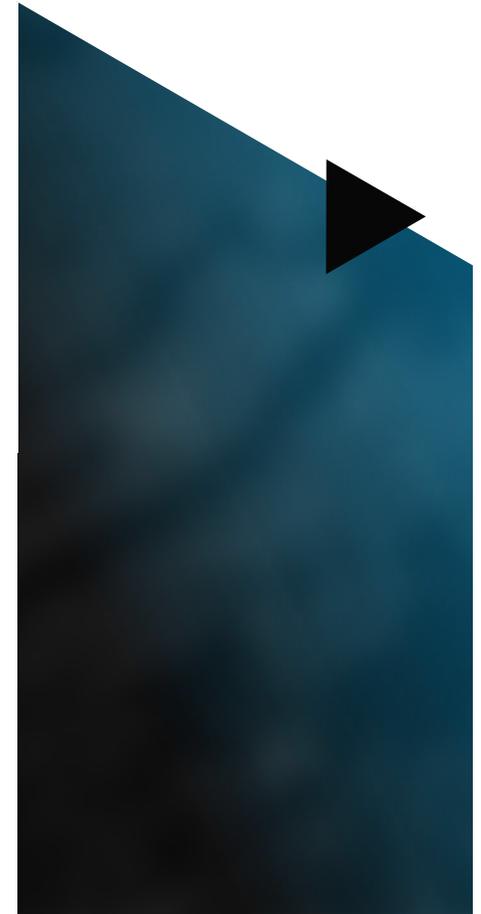


<https://docs.microsoft.com/en-us/windows/mixed-reality/mixed-reality>



MIXED
reality

The next step





AR

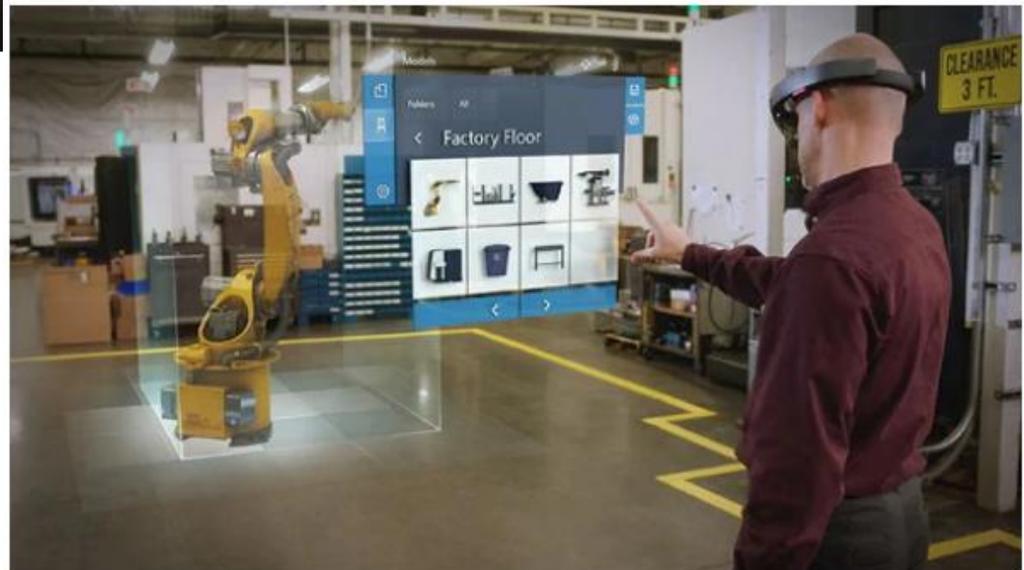
MR

VR



Images from <https://www.microsoft.com/en-us/hololens>

HOLOGRAPHIC computing



**The
Weather
Channel**



Philadelphia, PA

ABOUT

SAFETY

COMMUNITY

PROJECTS

CAREERS

SUSTAINABILITY



COMCAST TECHNOLOGY
CENTER,
PHILADELPHIA, PA



Seniors' driving ability tested with mixed-reality driving simulator

By Matt Johnston
Dec 3 2018
11:55AM

3 Comments



'Hector' helps study driver reaction times.

Engineers at Deakin University have developed an augmented reality driving simulator designed to help older drivers make better informed decisions about their safety on the road.

The simulator, dubbed 'Hector' and built into a sawn-in-



Kratos to Introduce Mixed Reality Military Training Platform at I/ITSEC

Mon November 26, 2018 9:00 AM | GlobeNewswire | About: KTOS

GlobeNewswire

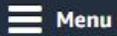
SAN DIEGO, Nov. 26, 2018 (GLOBE NEWSWIRE) -- Kratos Defense & Security Solutions, Inc. (KTOS), a leading National Security Solutions provider, announced today that it will introduce its new Mixed Reality (MR) Simulation Platform at I/ITSEC, the world's largest modeling, simulation and training event held this week in Orlando, Florida.

To meet the challenge of increasingly sophisticated weaponry, tactics and readiness demands, DoD's goal is to improve training effectiveness, deploy it rapidly and increase affordability while enhancing fidelity, content and safety. An increasingly popular solution is Mixed Reality (MR), the next step in human, ~~computer and environmental convergence that goes beyond virtual reality~~

<https://seekingalpha.com/pr/17341017-kratos-introduce-mixed-reality-military-training-platform-itsec>

What about
libraries?





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Amazon Sumerian

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Amazon Sumerian

The fastest and easiest way to create VR, AR, and 3D experiences

Get started with Amazon Sumerian

Amazon Sumerian lets you create and run virtual reality (VR), augmented reality (AR), and 3D applications quickly and easily without requiring any specialized programming or 3D graphics expertise. With Sumerian, you can build highly immersive and interactive scenes that run on popular hardware such as Oculus Go, Oculus Rift, HTC Vive, HTC Vive Pro, Google Daydream, and Lenovo Mirage as well as Android and iOS mobile devices. For example, you can build a virtual classroom that lets you train new employees around the world, or you can build a virtual environment that enables people to tour a building remotely. Sumerian makes it easy to create all the building blocks needed to build highly immersive and interactive 3D experiences including adding objects (e.g. characters, furniture, and landscape) and designing

Smart spaces





What is a
smartspace?

"**Smart spaces**" are ordinary environments equipped with visual and audio sensing systems that can perceive and react to people without requiring them to wear any special equipment.

Dec 30, 1996.



NOT smart spaces



Small Libraries Create Smart Spaces

[Overview](#)[News](#)

Hot Springs Library, Smart Spaces participant library

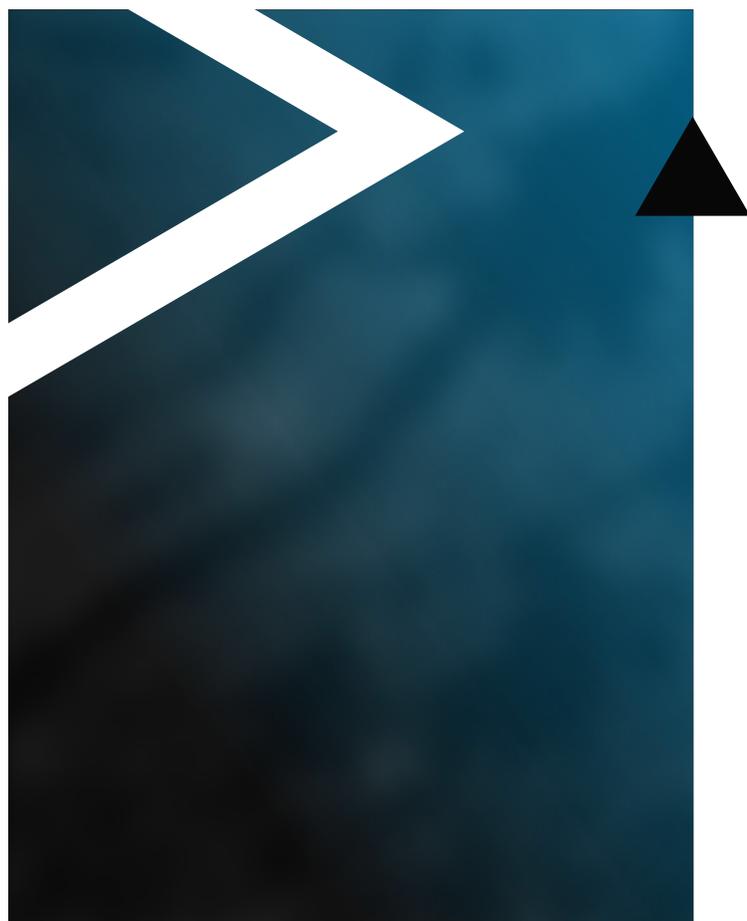
More Smart Spaces Coming Soon

We are pleased to announce that OCLC has received a supplemental IMLS grant that will allow the next iteration of the WebJunction program Small Libraries Create Smart Spaces. The original program led [15 small and rural public libraries](#) from across the country to reimagine and reconfigure their libraries into smart spaces. The supplemental funding provides the opportunity to guide 15 more small and rural libraries through the

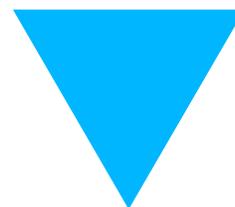
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\$150 billion







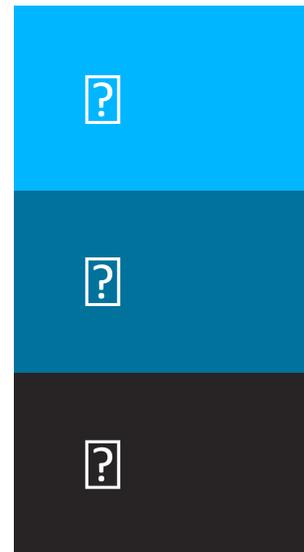
Homes



Buildings



Cities



The IDC [International Data Corporation] defines smart city development as the use of smart initiatives combined to leverage technology investments across an entire city, with common platforms increasing efficiency, data being shared across systems, and IT investments tied to smart missions.

Smart city: Louisville, KY

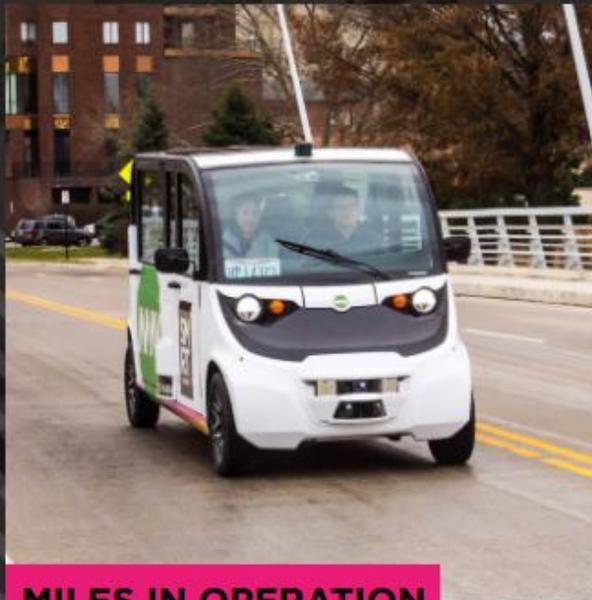


SMART CIRCUIT STATS

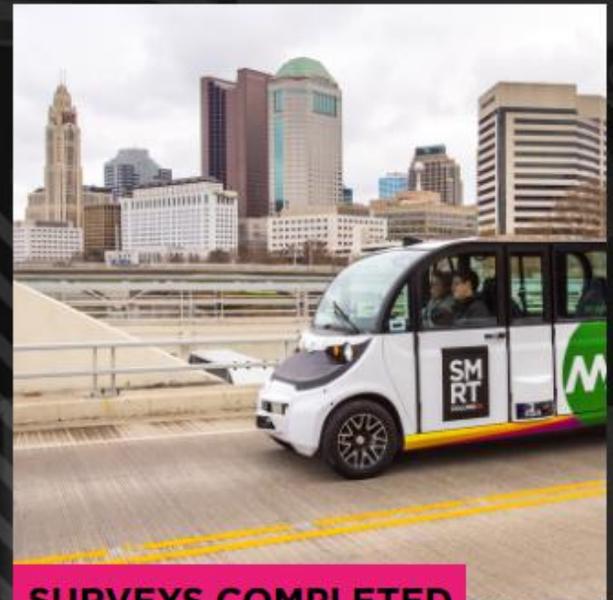
Smart Circuit is our community's opportunity to learn about self-driving vehicle technology together. Data we're tracking includes:



RIDERS



MILES IN OPERATION



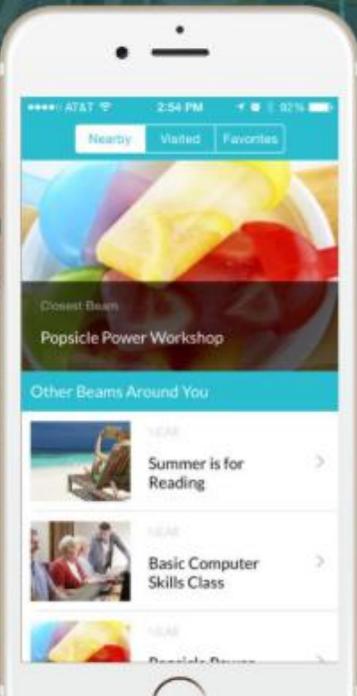
SURVEYS COMPLETED

<https://smartcircuitbus.com/>

What about
libraries?



?



The image shows a smartphone displaying the BluuBeam app interface. The screen features a status bar at the top with the time 2:54 PM and 92% battery. Below the status bar are three tabs: 'Nearby', 'Visited', and 'Favorites'. The main content area shows a 'Download Beams' section with a 'Popsicle Power Workshop' card. Below this is an 'Other Beams Around You' section with three cards: 'Summer is for Reading', 'Basic Computer Skills Class', and another 'Popsicle Power Workshop' card. The background of the entire banner is a library with bookshelves and a table, overlaid with a teal circular radar pattern.

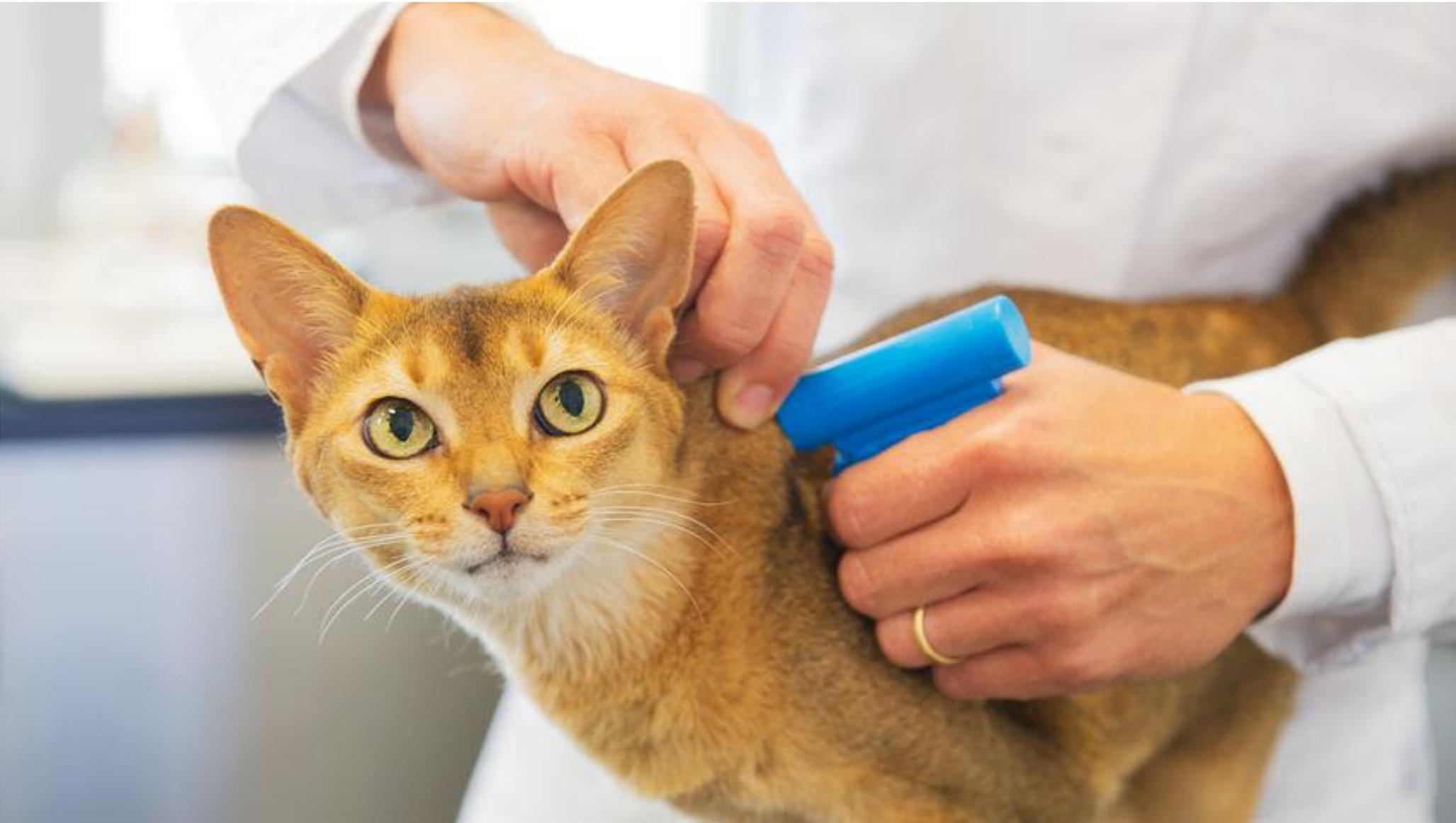
Libraries

[Learn More](#)

Implanted wearables

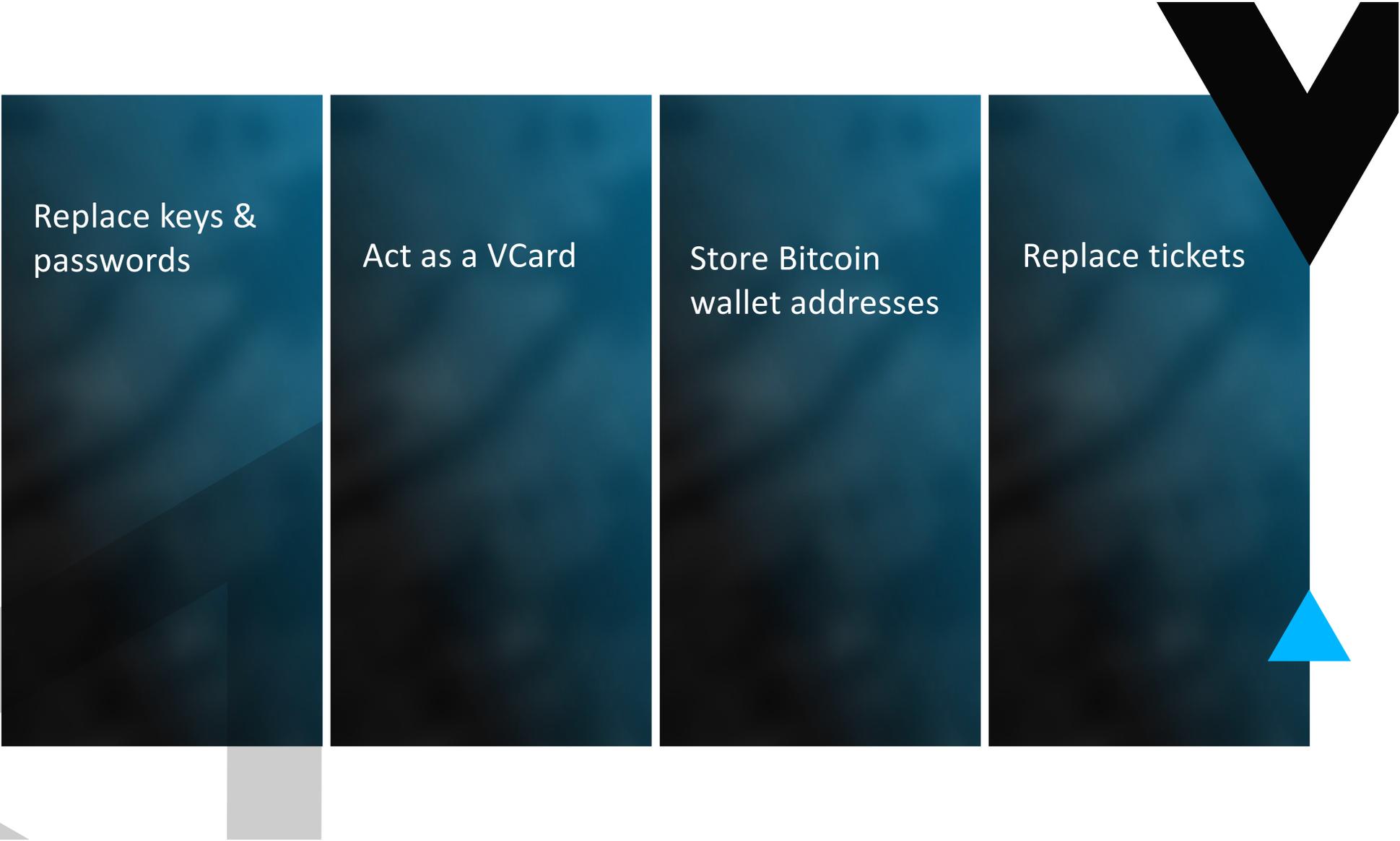






<https://www.technologyreview.com/s/611884/this-company-embeds-microchips-in-its-employees-and-they-love-it/>





Replace keys &
passwords

Act as a VCard

Store Bitcoin
wallet addresses

Replace tickets

Unlock front
door

Access
computer



What about security?





Are they safe?





Benefits &
drawbacks:
both minor



What about libraries?

“ We will likely be healthier, safer, more informed, and more connected, and we will continue to disagree over whether or not it matters if our privacy and autonomy was the corresponding cost..”



Haley Weiss, *The Atlantic*

The big take-aways



Thank you for listening!

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