



Emerging Tech Trends in the Library – Part 9

An Infopeople Webinar
January 23, 2019



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Introduction

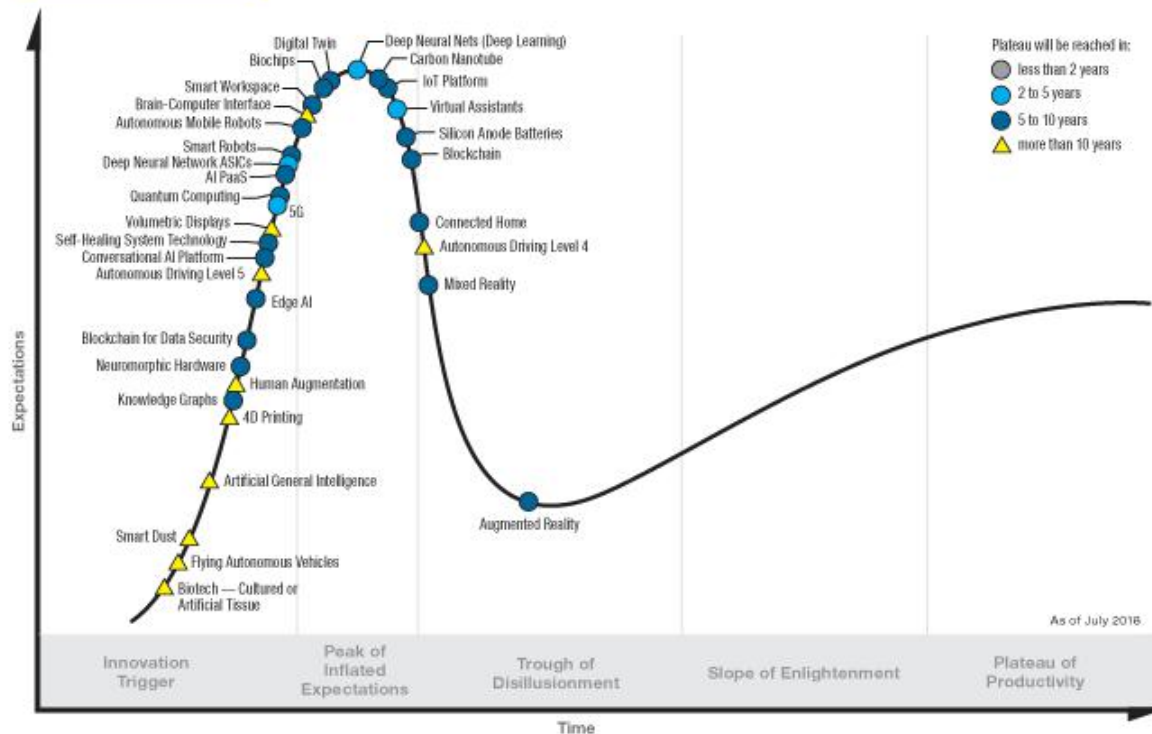




both sides of the
fence



Hype Cycle for Emerging Technologies, 2018



[gartner.com/SmarterWithGartner](https://www.gartner.com/SmarterWithGartner)

Source: Gartner (August 2018)
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Gartner.

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

It's **not** all about
libraries



The diagram features three dark blue rectangular boxes. The left box contains the text 'Libraries are now IT-driven'. A large, light gray downward-pointing arrow originates from the top center of this box and points towards the other two boxes. The arrow is composed of two light gray chevron shapes meeting at a point. The right side of the diagram consists of two adjacent dark blue boxes. The left box of this pair contains the text 'This stuff is going to affect your job', and the right box contains the text 'Our patrons may already be using them'. A light gray horizontal bar is positioned at the top, spanning the width of the three boxes.

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](#)

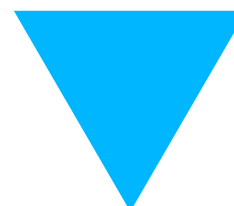
[Download SDKs](#)



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>

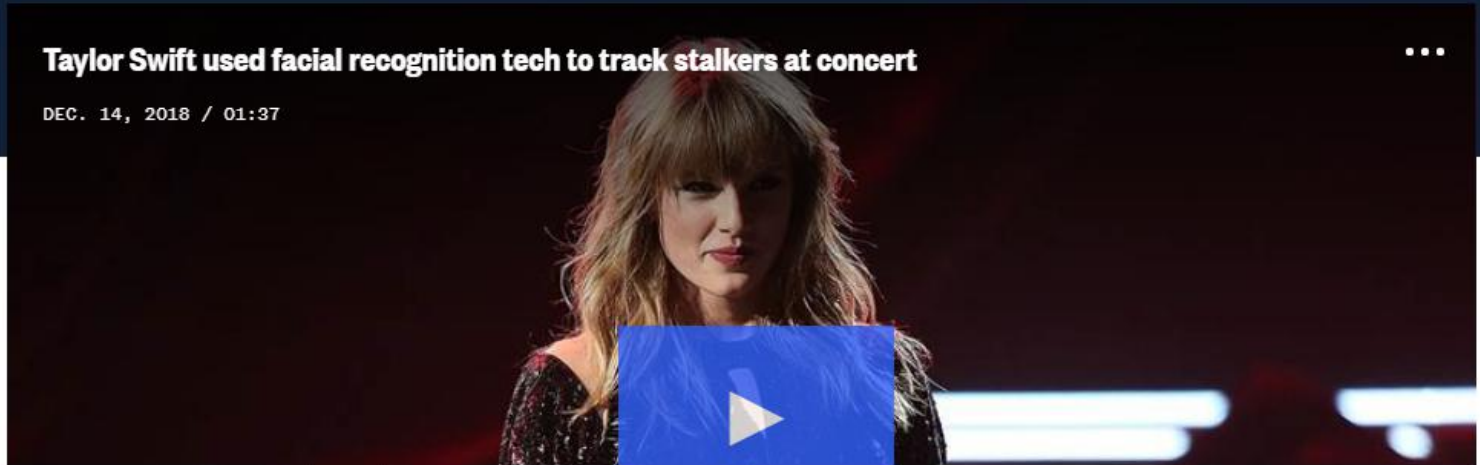
TECH NEWS

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



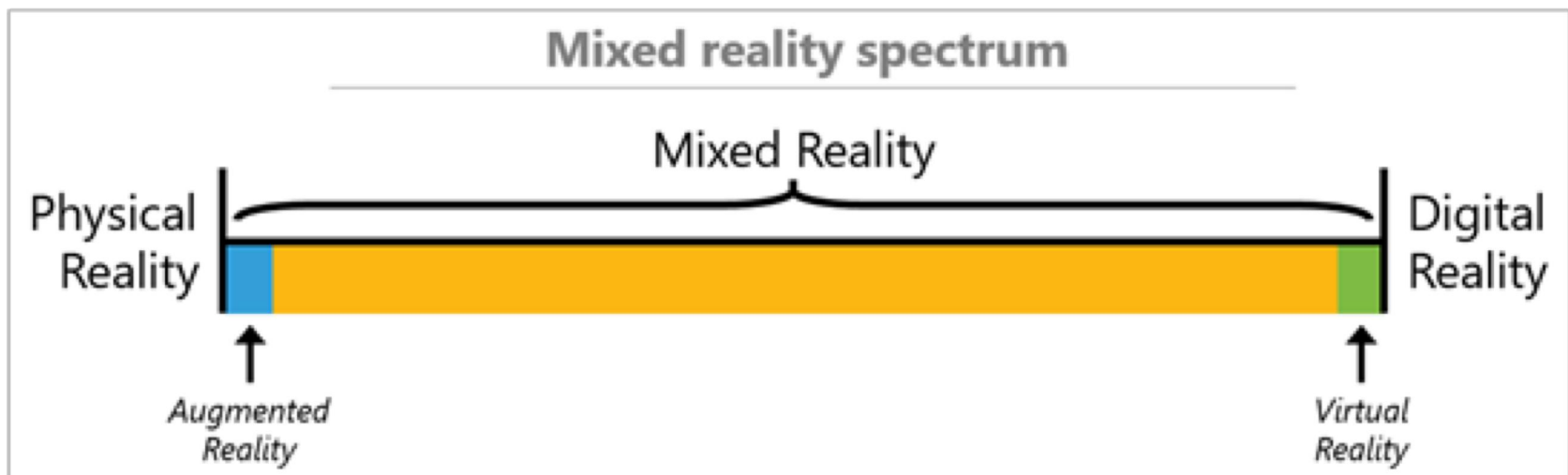


What about libraries?

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

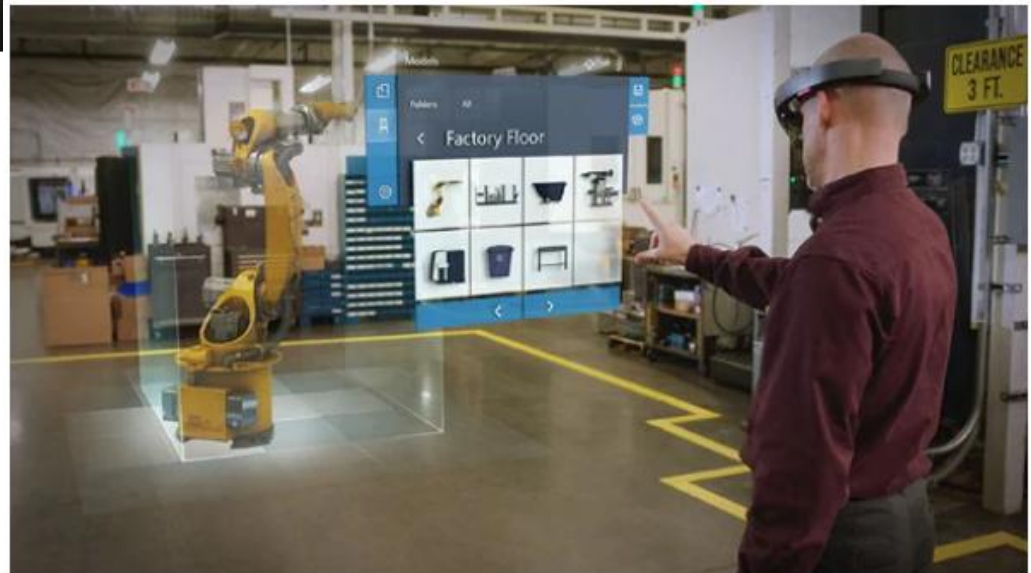
MR

VR



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

HOLOGRAPHIC computing



**The
Weather
Channel**



LF Driscoll

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

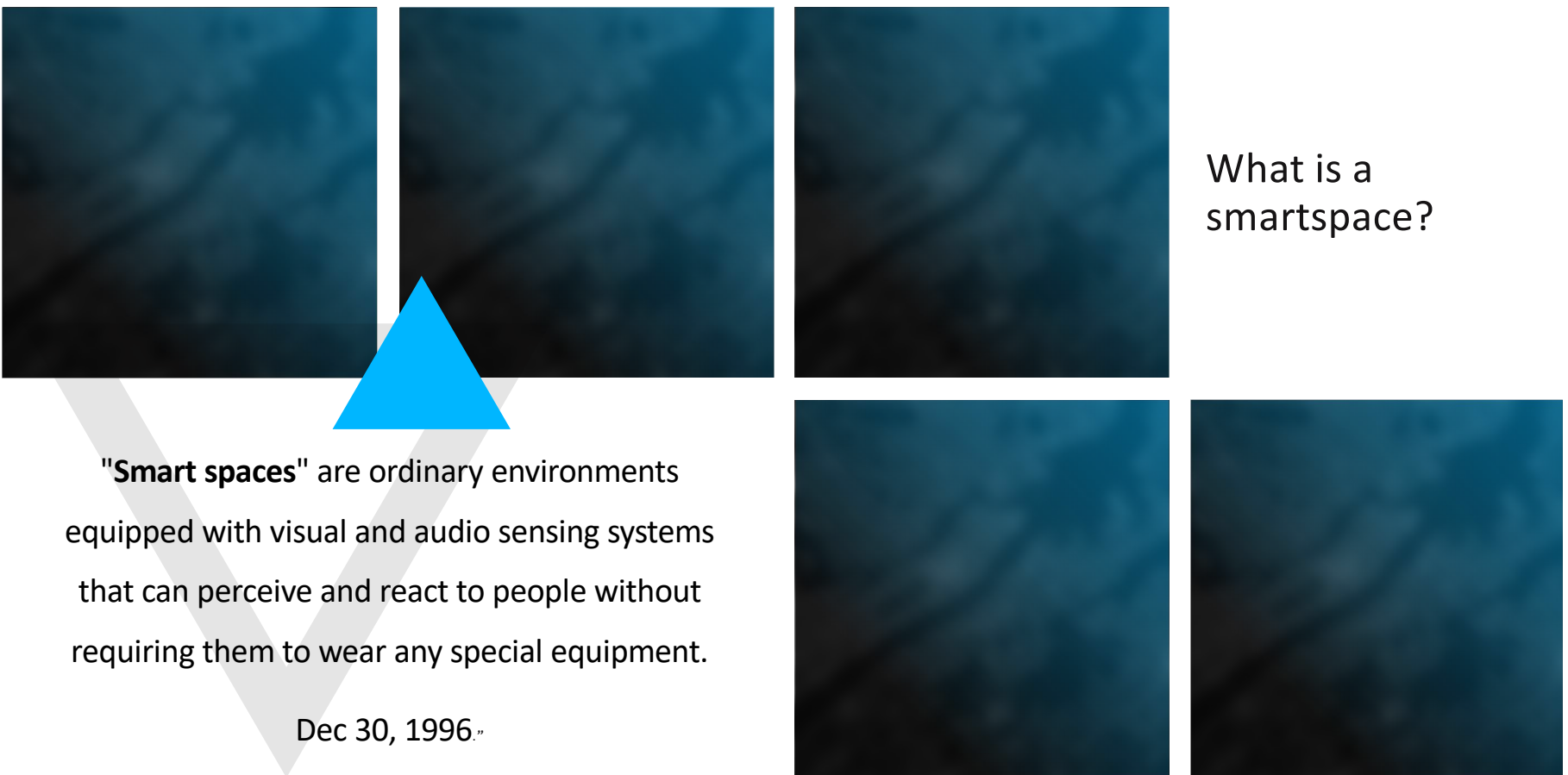
The fastest and easiest way to create VR, AR, and 3D experiences

[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

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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

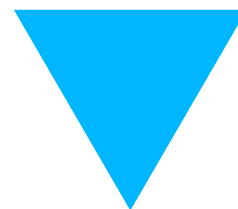
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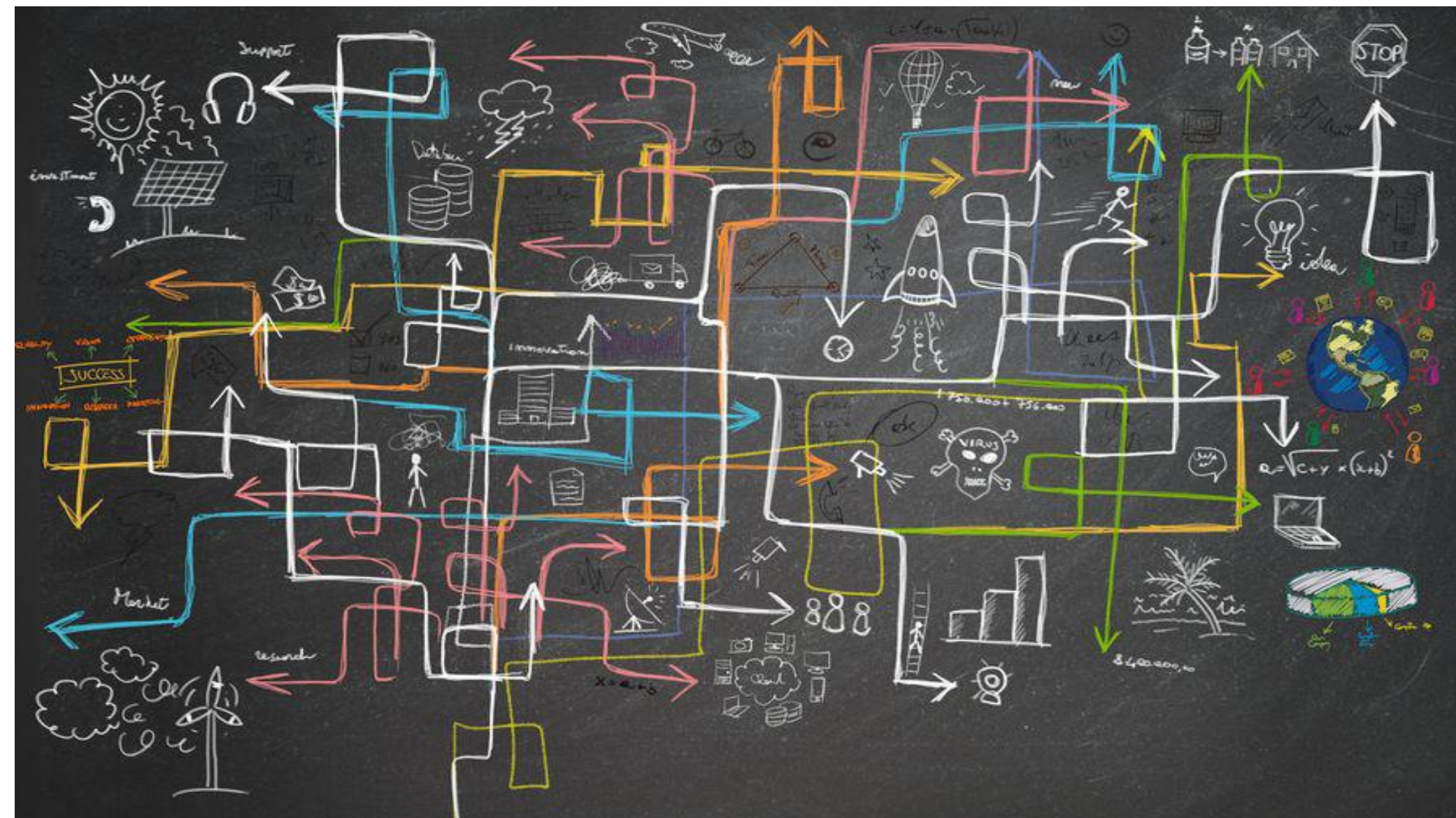
- [Programming](#)
- [Space Planning](#)
- [Transforming Library Spaces](#)

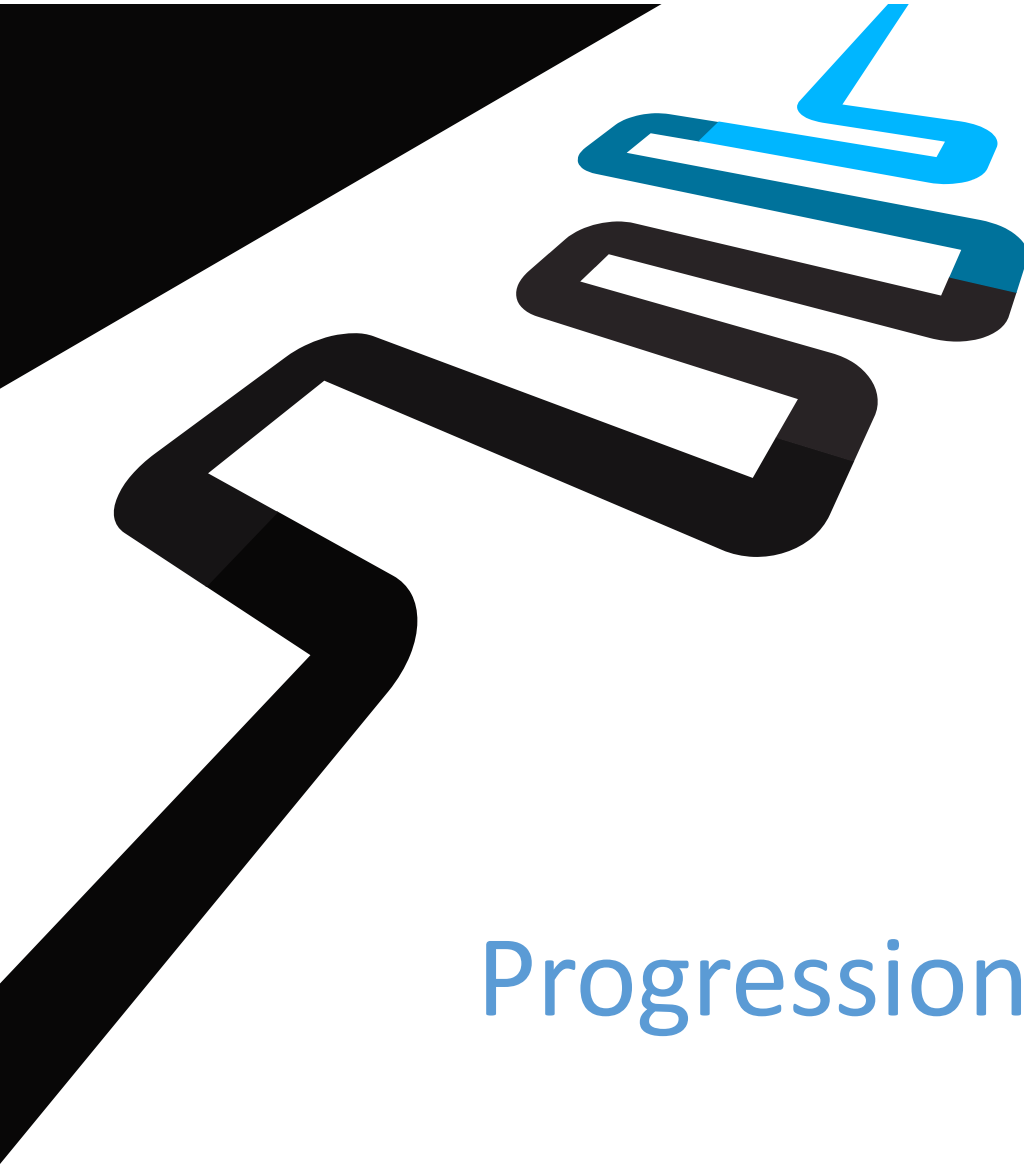


\$150 billion









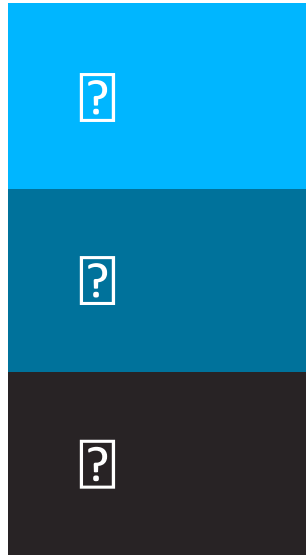
Homes



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

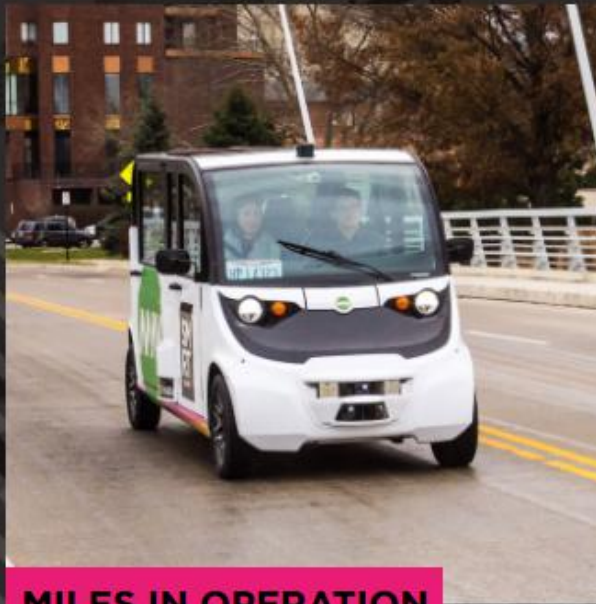


SMART CIRCUIT STATS

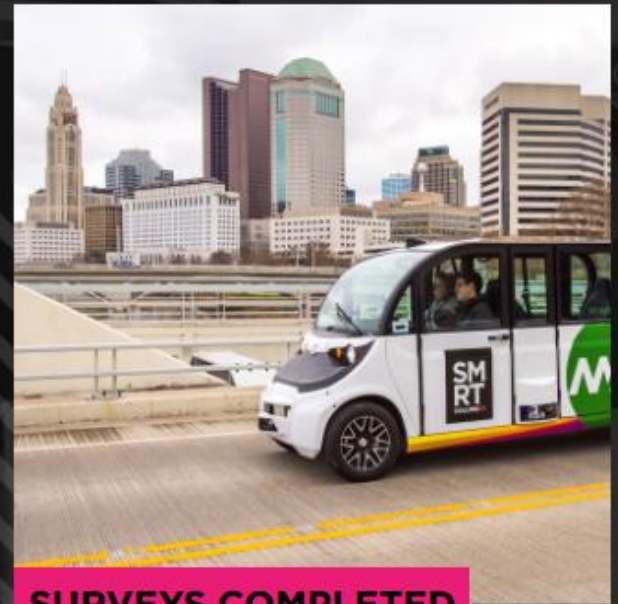
Smart Circuit is our community's opportunity to learn about self-driving vehicle technology together. Data we're tracking includes:



RIDERS



MILES IN OPERATION



SURVEYS COMPLETED

<https://smartcircuitbus.com/>



What about
libraries?

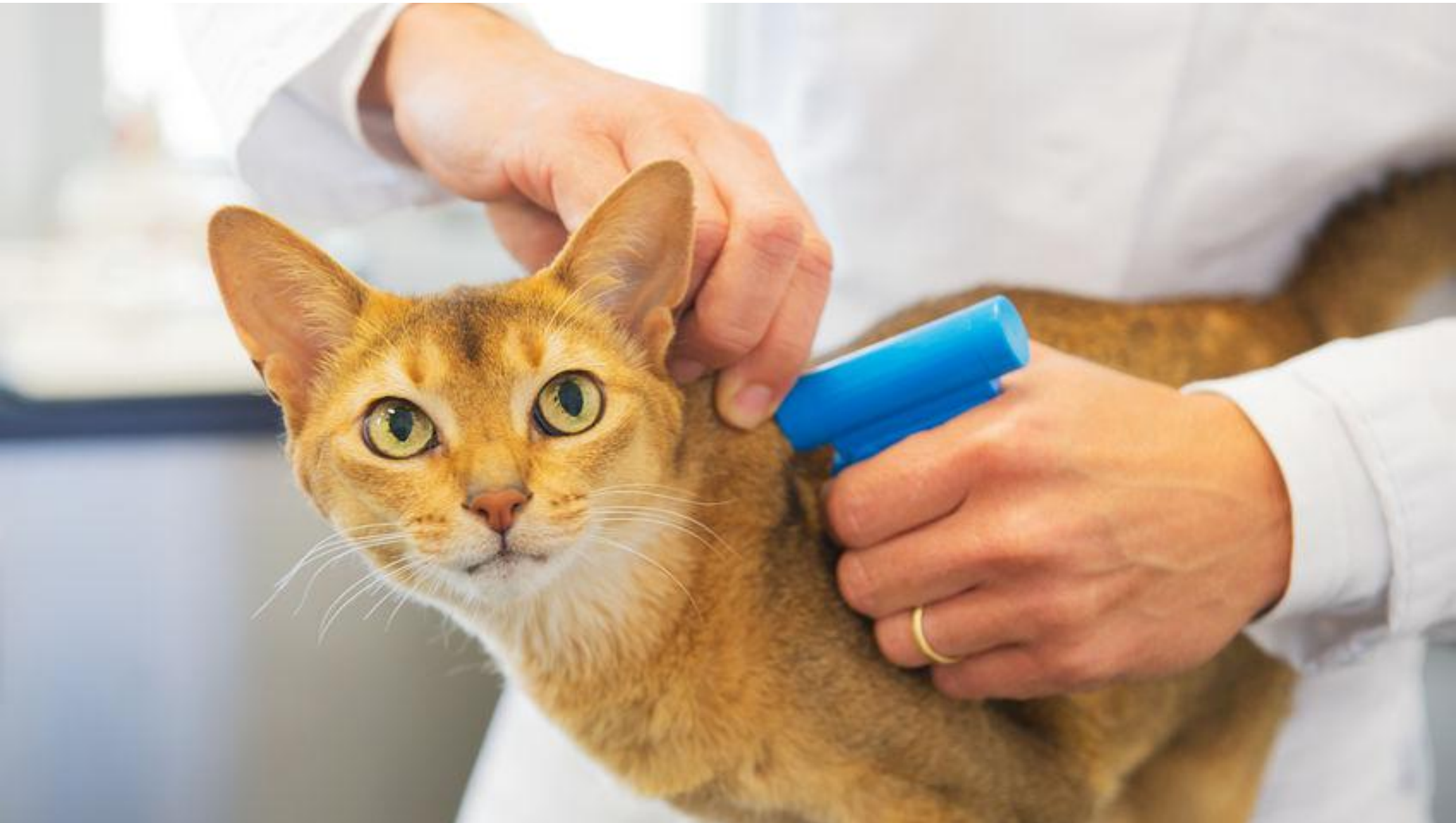




Implanted wearables








<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



```
graph TD; A[Unlock front door] --> B[Access computer]; B --> A;
```

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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