

# AI AND ITS DISRUPTIVE IMPLICATIONS FOR HEALTHCARE

Chris Gough, General Manager,  
Intel Health and Life Sciences







**HEALTHCARE** **30%** WORLD'S  
DATA  
PRODUCTION



# MOVING FROM A SYSTEM OF **RECORD** TO A SYSTEM OF INSIGHTS







# ENABLE PRECISION HEALTH

THE RIGHT INTERVENTION FOR THE RIGHT PERSON AT THE RIGHT TIME

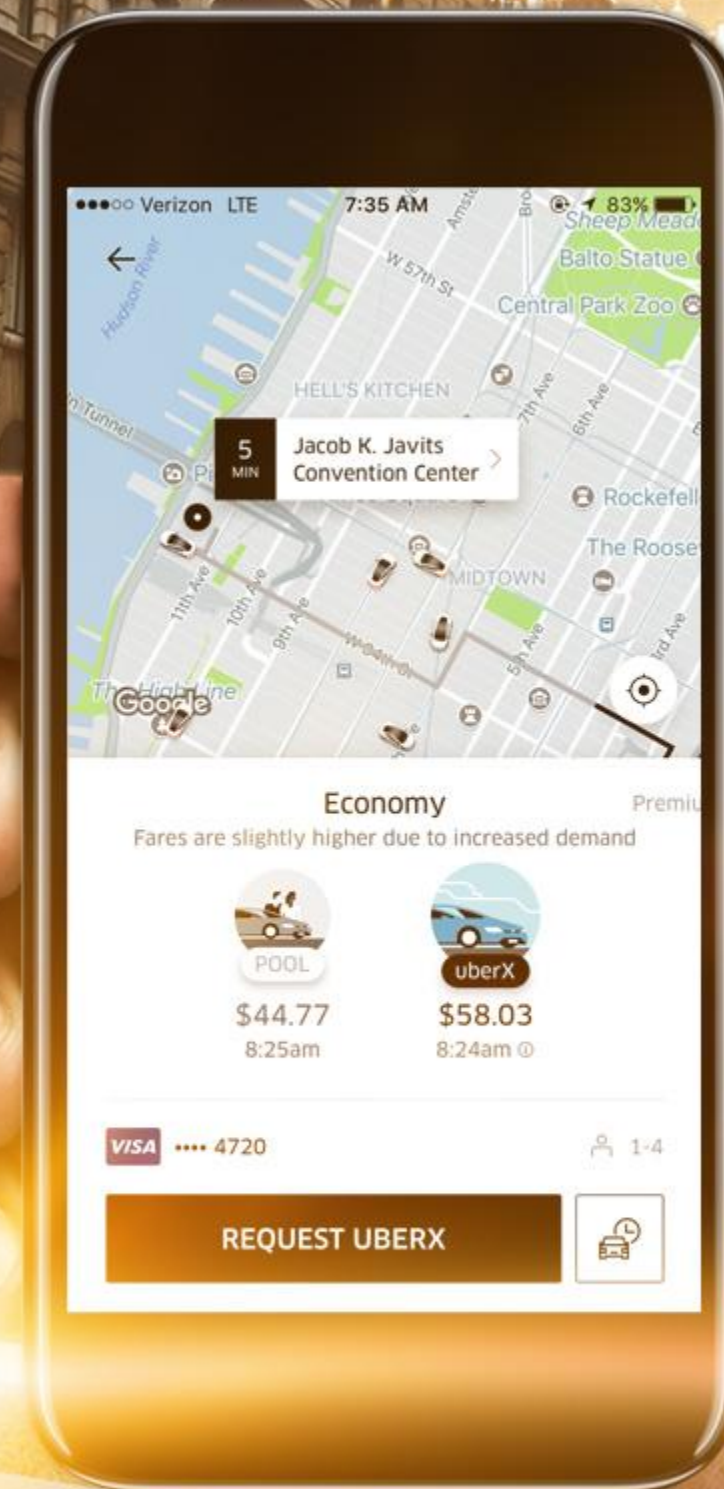


# TECHNOLOGY DISRUPTS EVERYTHING

Uber

amazon.com<sup>®</sup>

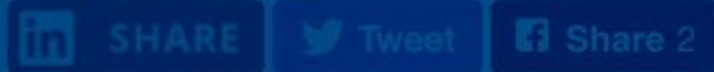
airbnb





## Amazon's voice assistant Alexa is tackling cardiac health: 4 notes

Jessica Kim Cohen - Wednesday, December 12th, 2018 Print | Email



Amazon is teaming up with healthcare products developer Omron Healthcare to bring a blood pressure skill for its voice assistant Alexa, *CNBC* reports.

Here are four notes on Alexa's new healthcare skill:

### NEWS

## Google Patent to Build a Unified Health Timeline Using EHR Data

Google application sought patent for aggregating EHR data to create a unified patient medical history and predictor of likely health events.

## Google Absorbs Streams App to Create An "AI-Powered Assistant for Nurses and Doctors"

Streams App could go from UK based to global with Google's backing.

By Jessica Miley

November, 15th 2018



# TECHNOLOGY DISRUPTS HEALTHCARE

### HEALTH TECH MATTERS

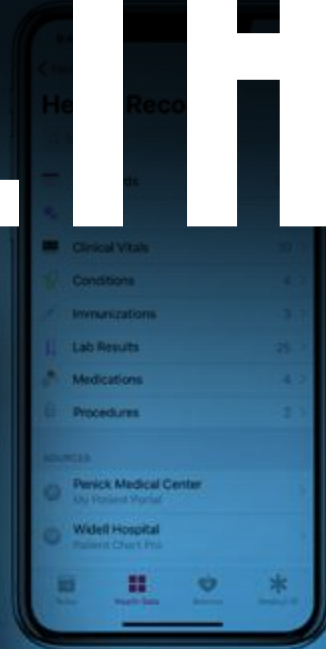
## Amazon's joint health-care venture finally has a name: Haven

- The joint health-care venture between Amazon, J.P. Morgan and Berkshire Hathaway finally has a name. And that's Haven.
- Amazon CEO Jeff Bezos, J.P. Morgan CEO Jamie Dimon and Berkshire Hathaway CEO Warren Buffett last January announced they were teaming up to tackle rising health-care costs.

UPDATE

January 24, 2018

Apple announces effortless solution bringing health records to iPhone



new capabilities in Health Records help patients see medical records from multiple providers.

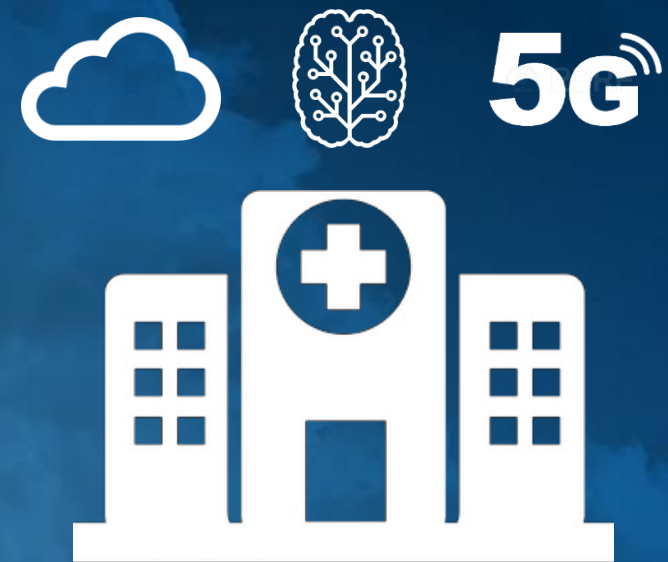
## Amazon buys PillPack, an online pharmacy, for just under \$1B

Ingrid Lunden @ingridlunden / 9 months ago

Comment



**CLOUD + AI + 5G  
WILL DISRUPT  
HEALTHCARE**

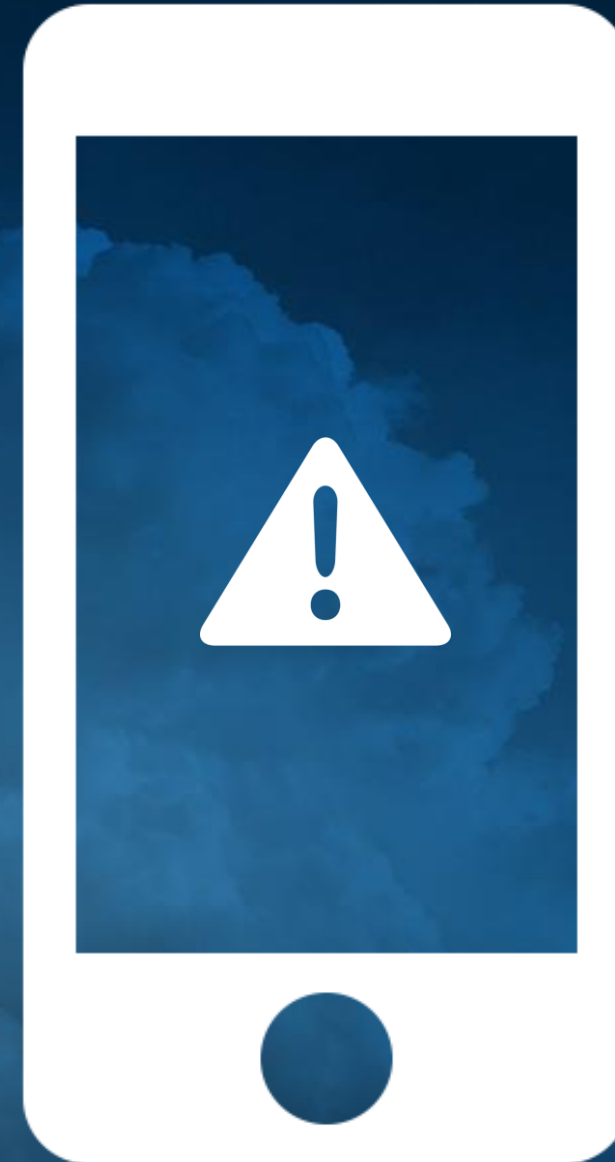


Biometric data  
captured by  
smartphone





Patient receives  
alert on phone to  
schedule appt  
(informed by AI  
algorithms)



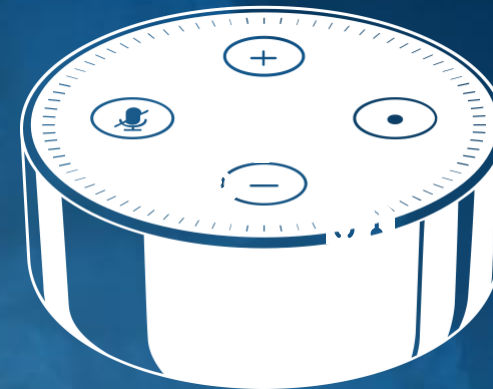


Patient reviews  
record on  
smartphone





Patient converses  
with personal  
assistant to schedule  
appointment



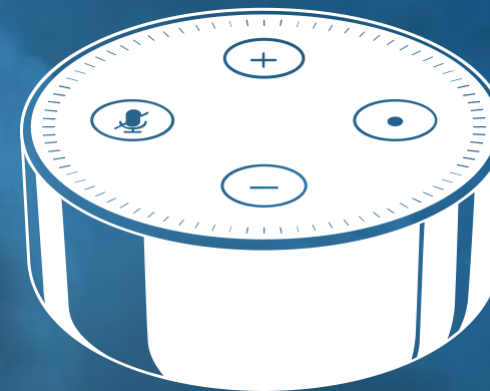


There are new  
highly rated doctors  
in the area with  
appointment  
availability.



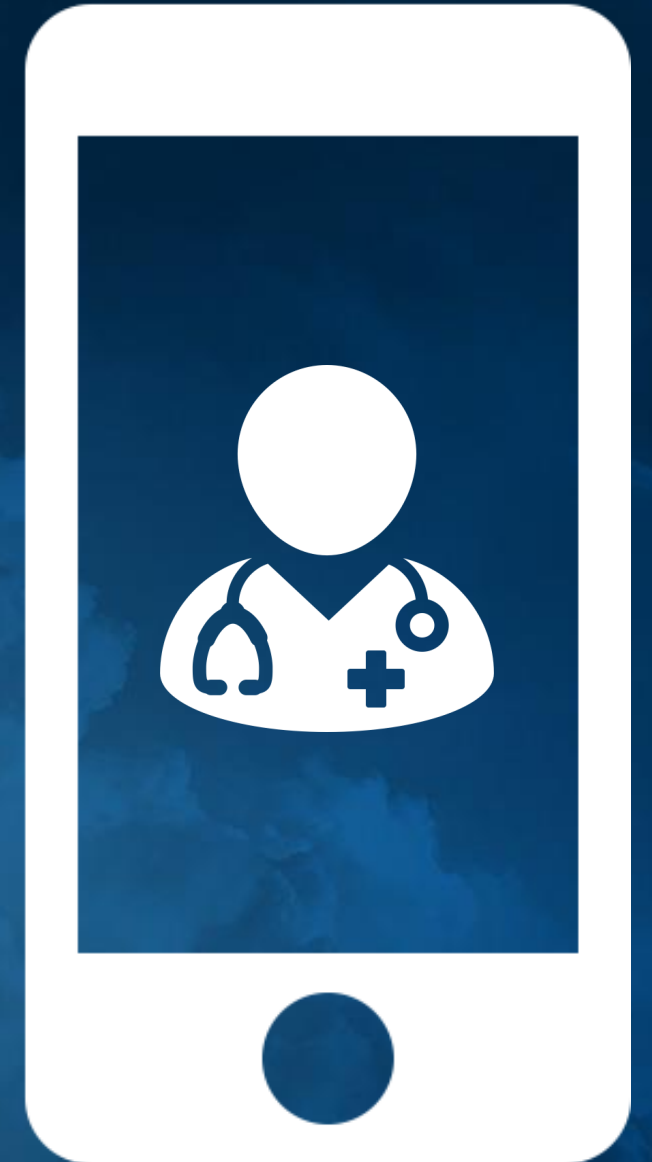


Appointment made  
with new doctor





Appointment is via  
video conference via  
smartphone, while  
patient is on a break  
at work.





Meds delivered  
by drone





IF YOU WANT TO BE RELEVANT  
**IN 10 YEARS**  
**ACT NOW**



A woman with dark hair and glasses is shown in profile, looking intently at several computer monitors. The monitors display various data visualizations, including line graphs, bar charts, and network diagrams. A futuristic, semi-transparent digital interface is overlaid on the scene, featuring glowing blue and yellow lines, circles, and text labels such as 'Administration', 'Human Resources', 'Engineering', 'Manufacturing', and 'Planning'. The background is dark with out-of-focus light sources, creating a bokeh effect of warm colors.

**MACHINES WITH HUMANS,  
NOT INSTEAD OF.**





# MONTEFIORE VIDEO



# GE/INTEL JOINT COLLABORATION PNEUMOTHORAX DETECTION

Detect Pneumothorax at  
the point of care in under

**1 SEC**







AccuHealth

Reduce ER  
visits by up to

**42%**

Reduce costs to  
insurers by up to

**50%**





# Playing catch-up, Germany throws money at AI

Paul Carrel

3 MIN READ



BERLIN (Reuters) - Germany plans to invest more than 3 billion euros (\$3.39 billion) by 2025 to beef up its artificial intelligence capabilities and appoint 100 professors to lecture about it.

REUTERS INVESTIGATES

FAX AGE

## Rebooting Germany

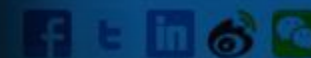


# EUROPE

Wednesday, Nov 14, 2018

## Germany lags behind in AI: industry leader

Source: Xinhua | 2018-10-30 23:10:49 | Editor: Mu Xuequan



Xinhuanet App

# HOW DO WE GET FROM HERE TO THERE



39°F New York

Business Interviews Lifestyle Democracy at Risk Opinion Submit Op-ed

## Artificial Intelligence Latecomer Germany

by David Tuffley — December 11, 2018 In Opinion



Recommended

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**“TO THINK THAT WE CAN BE AT THE FOREFRONT OF  
ARTIFICIAL INTELLIGENCE AND BE AS RESTRICTIVE  
AS POSSIBLE WITH DATA IS JUST LIKE WANTING TO  
REAR COWS WITHOUT FEEDING THEM.”**

**ANGELA MERKEL**



# PAVING THE WAY FOR AI ADOPTION



Digitization



Data Lake



FHIR

Data Exchange /  
FHIR



# HOW TO GET STARTED



INVEST  
IN DATA



FOSTER  
COLLABORATIVE  
CHANGE



DEVELOP  
STRATEGIC  
IN HOUSE  
EXPERTISE



ALIGN WITH  
IMPORTANT  
OBJECTIVES

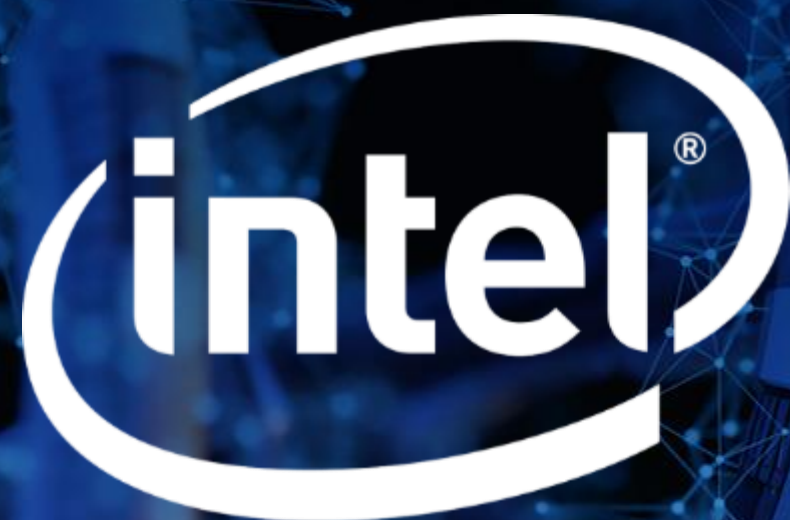


ENGAGE WITH  
END USERS



PAY ATTENTION  
TO **THE**  
**LAST MILE**





experience  
what's inside™