Accelerating the future...

...by empowering visionaries and inventors

@farshchi



















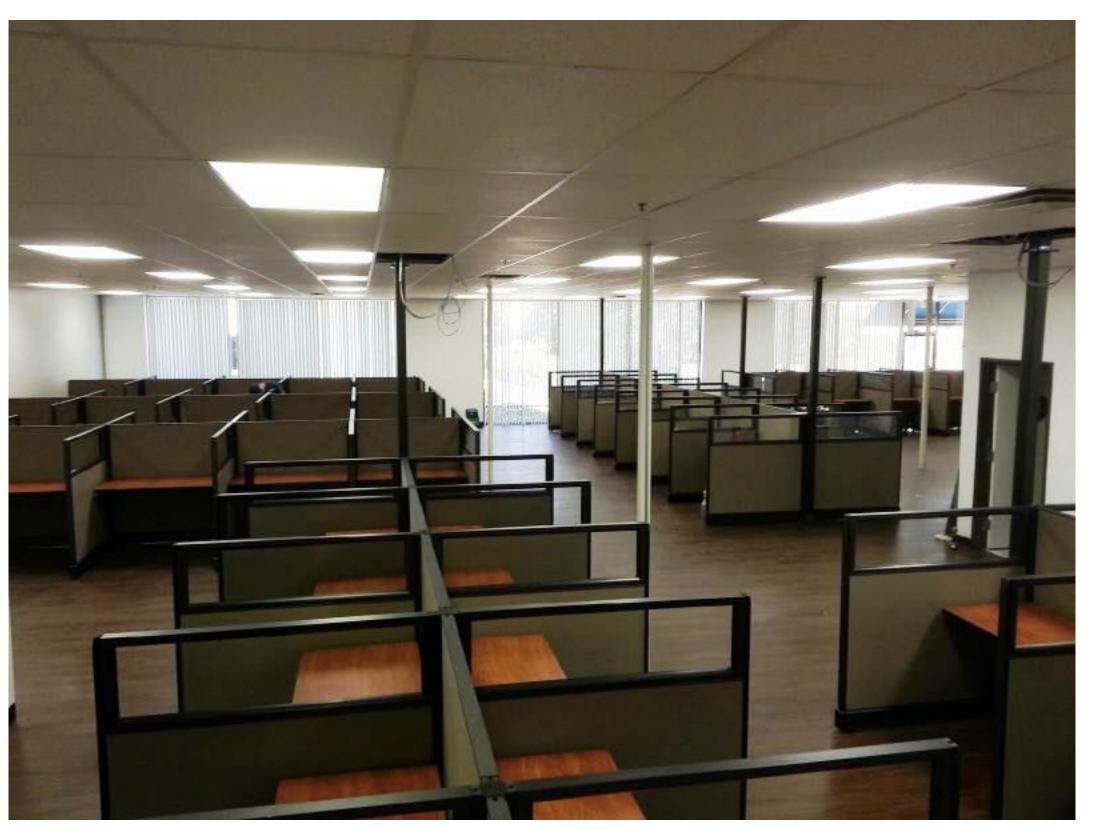




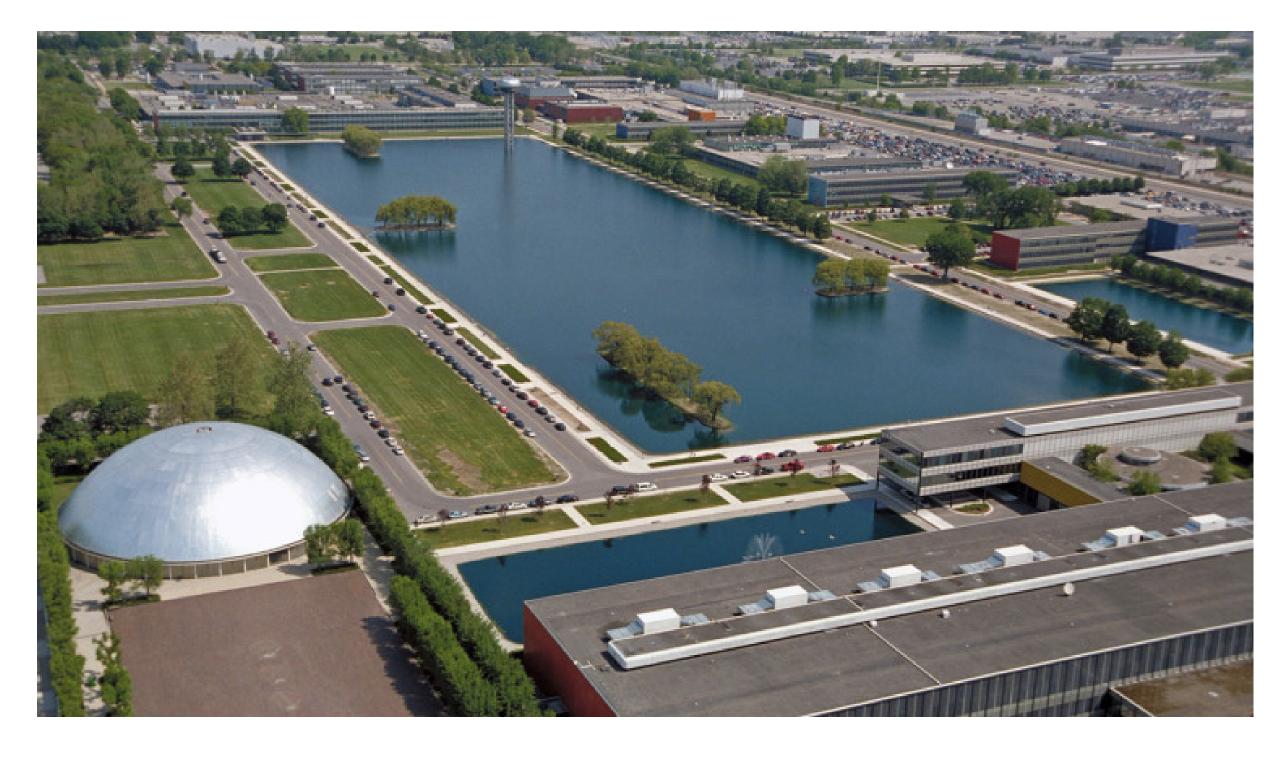






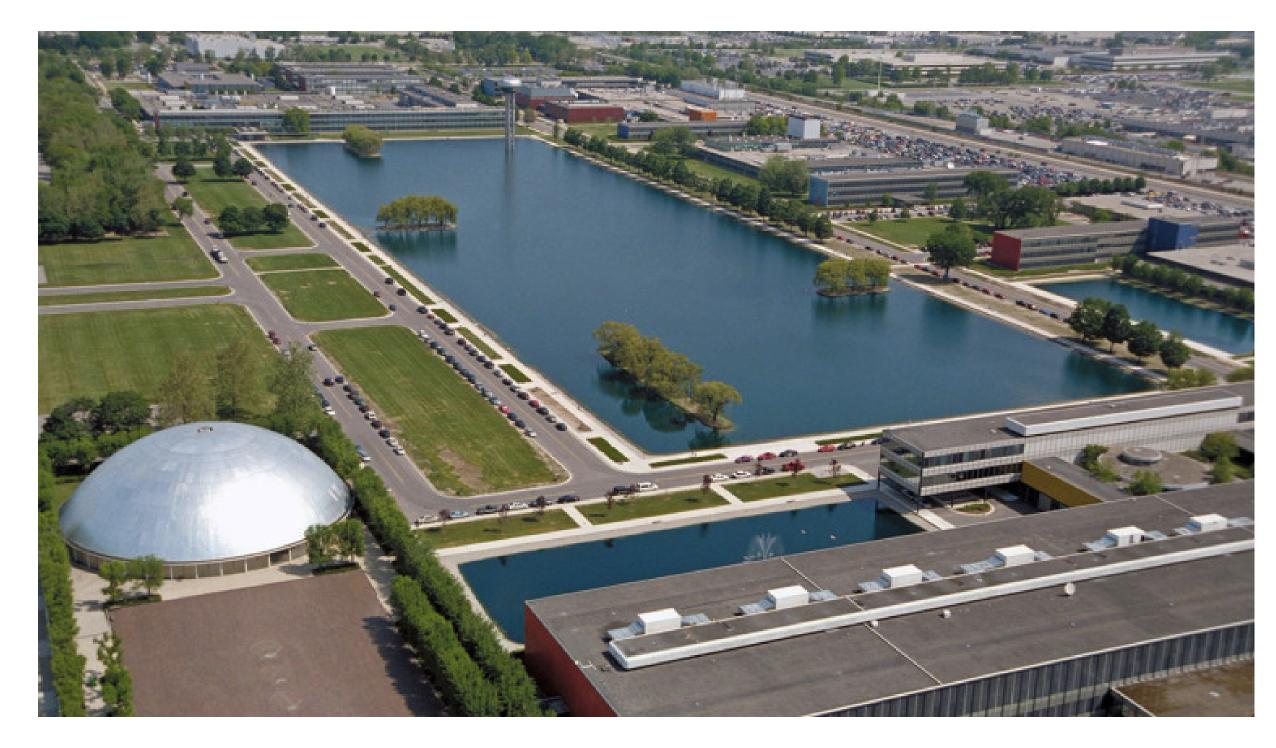










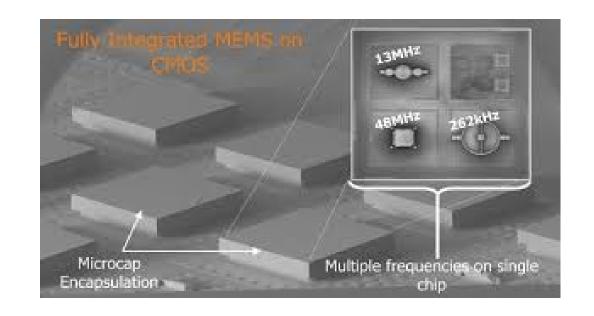






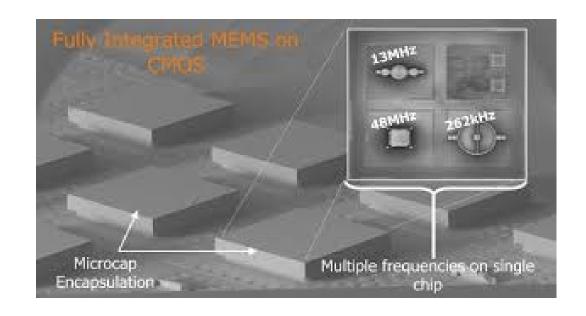




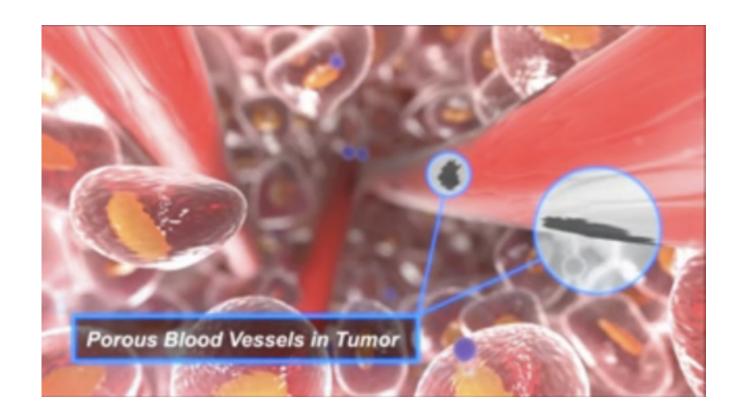




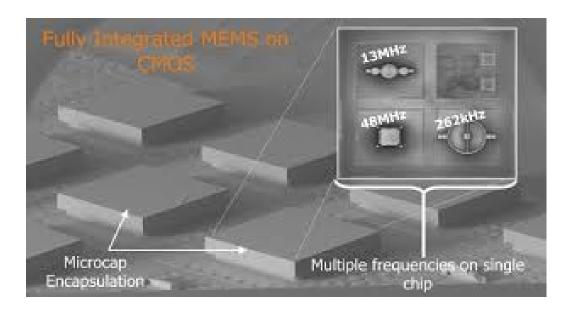




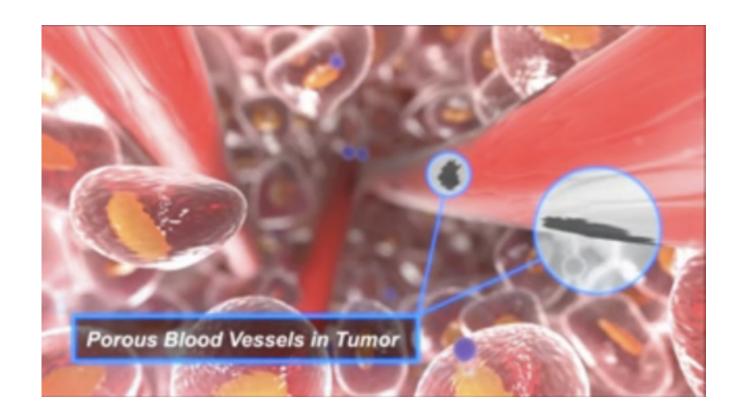












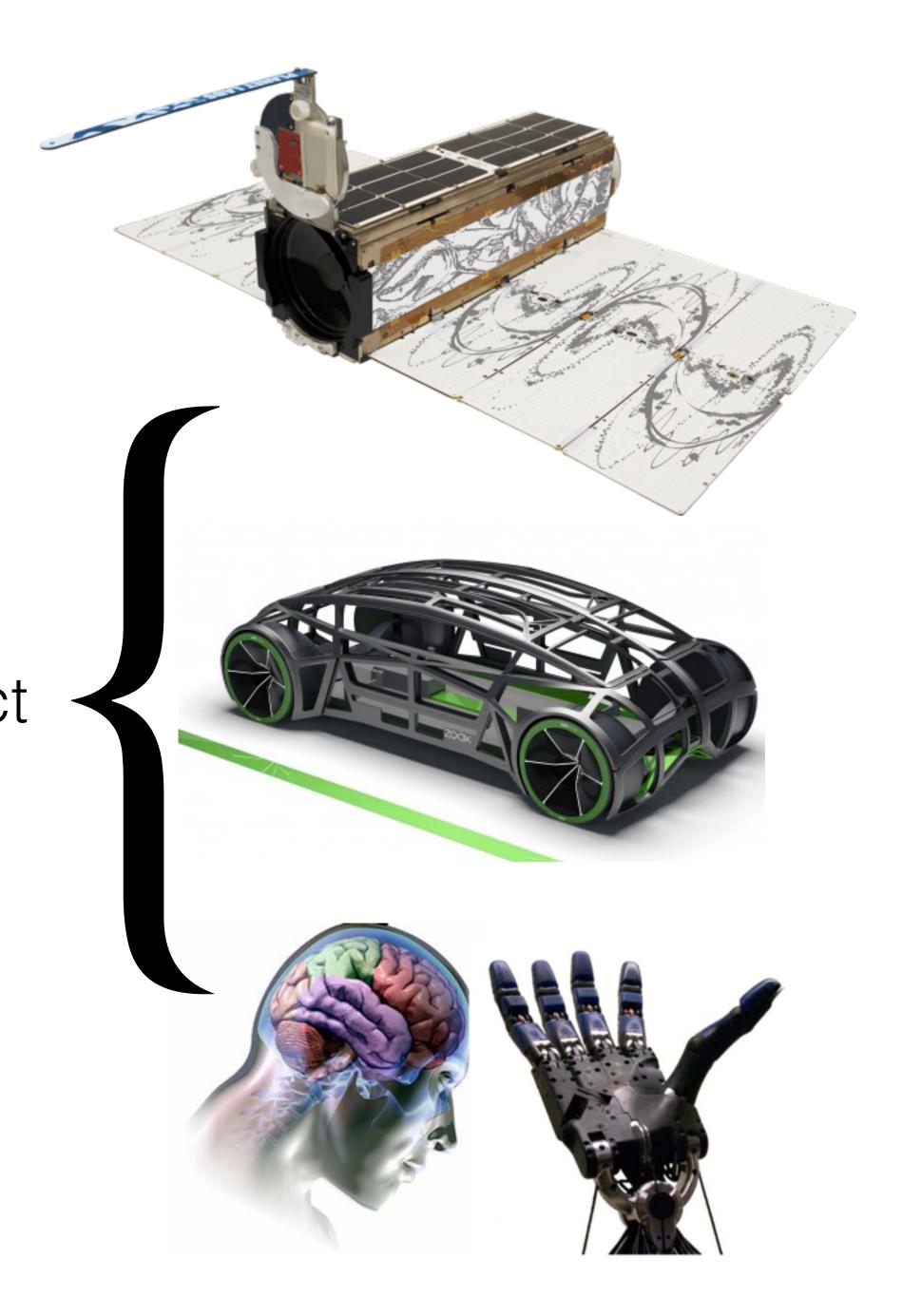


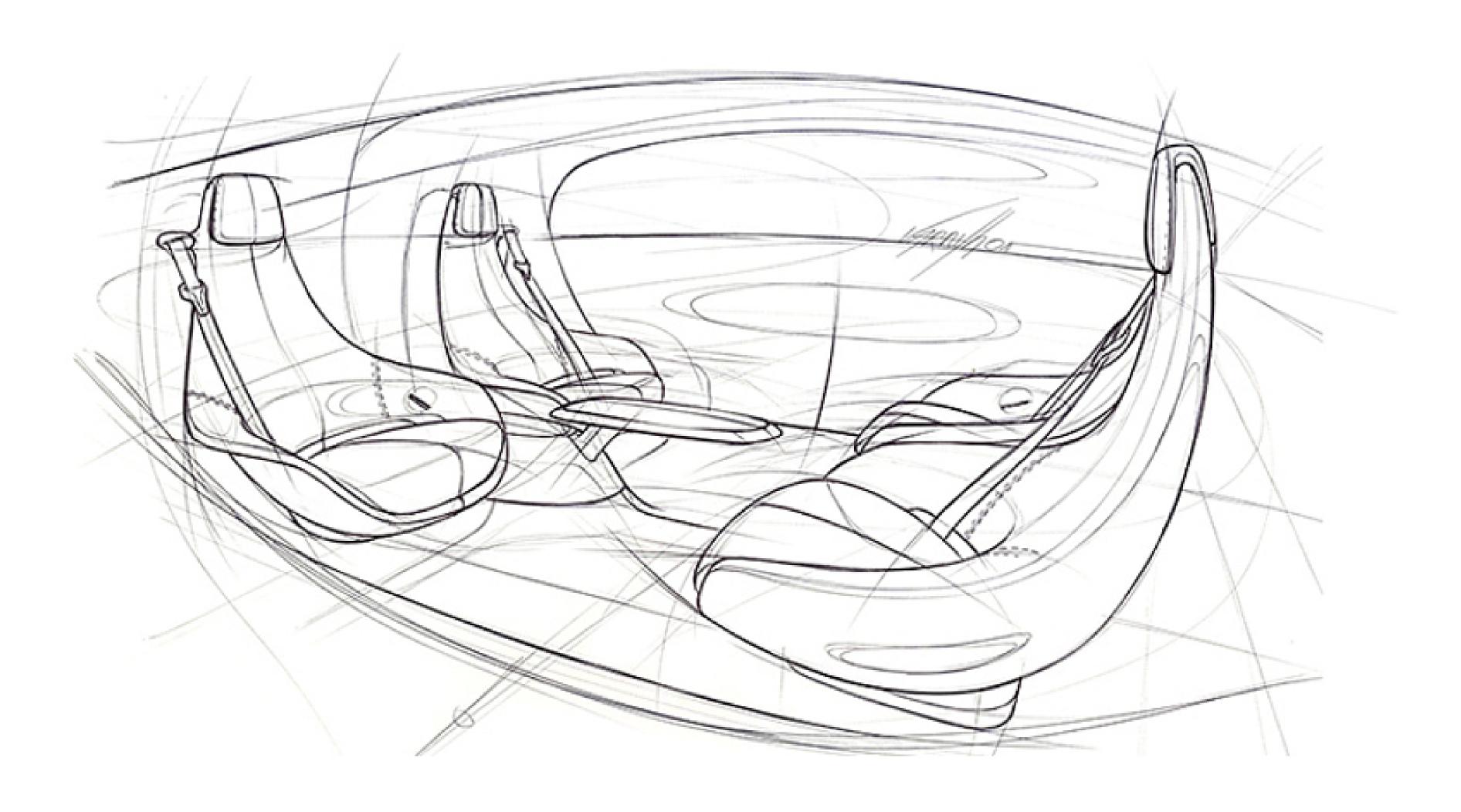


Into the mind of a VC...









•••

Safety and Emissions Manufacturability Style and Performance Autonomy 1900's 1960's 1920's 1940's 2000's

1980's

Driverless cars are coming sooner than you think

By Ashley Halsey III May 13

Will Nissan Follow In Kodak's Footsteps By Rejecting **Forbes** Driverless Cars?

5/20/2015

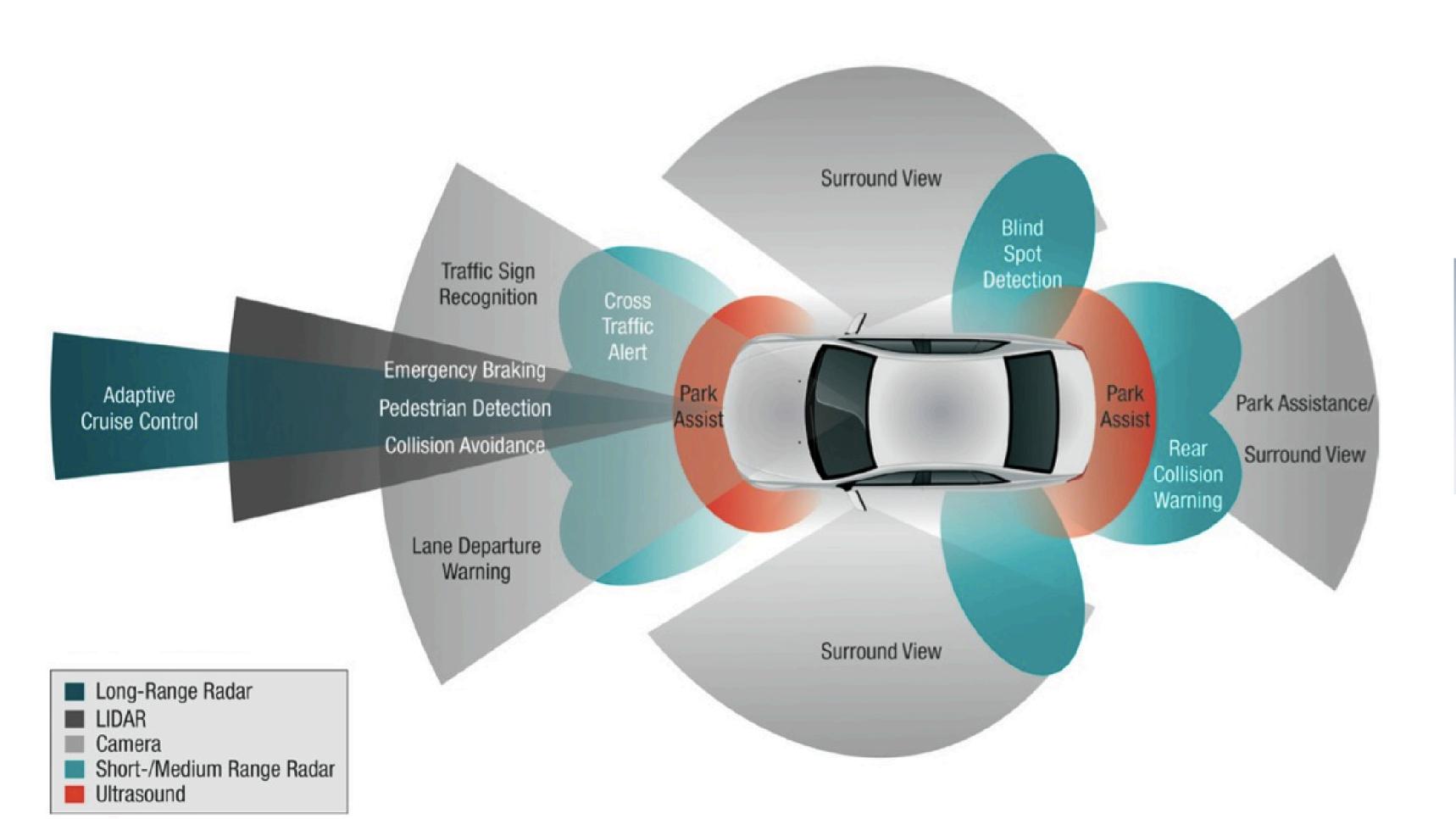
Driverless car rides? Garcetti hopes L.A. will be first

Los Angeles Times

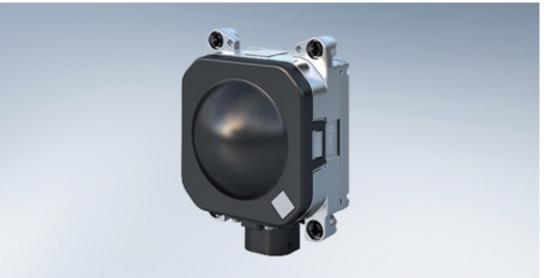
9/30/2014

How Do You Insure a Driverless Car?

Auto Makers Seek Approval in Some States as Regulators, Insurers Weigh Liability



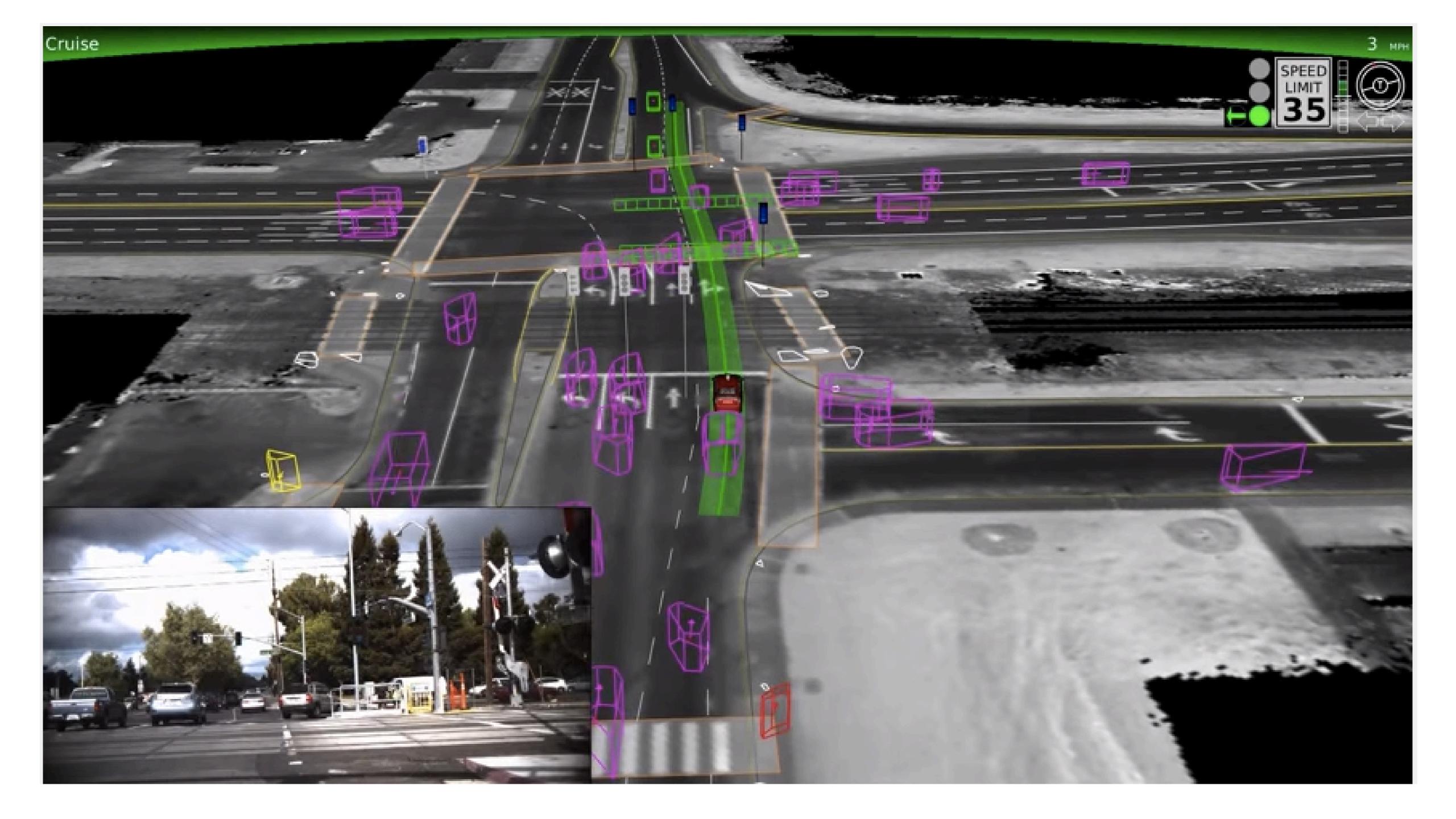












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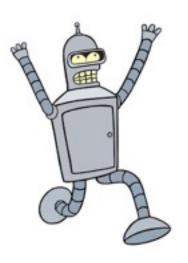






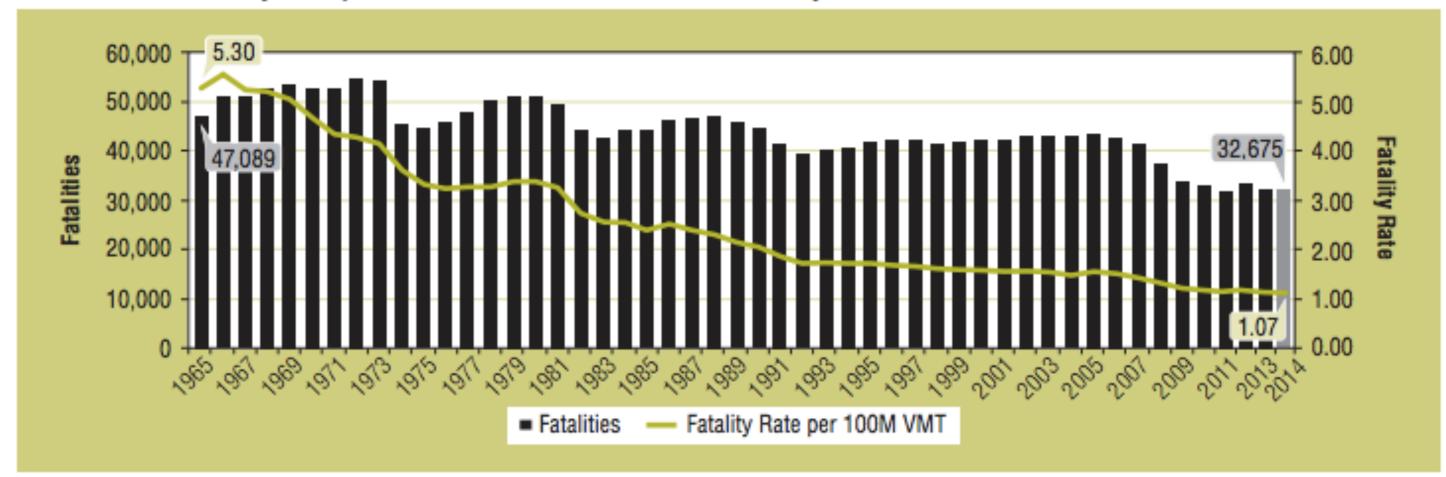






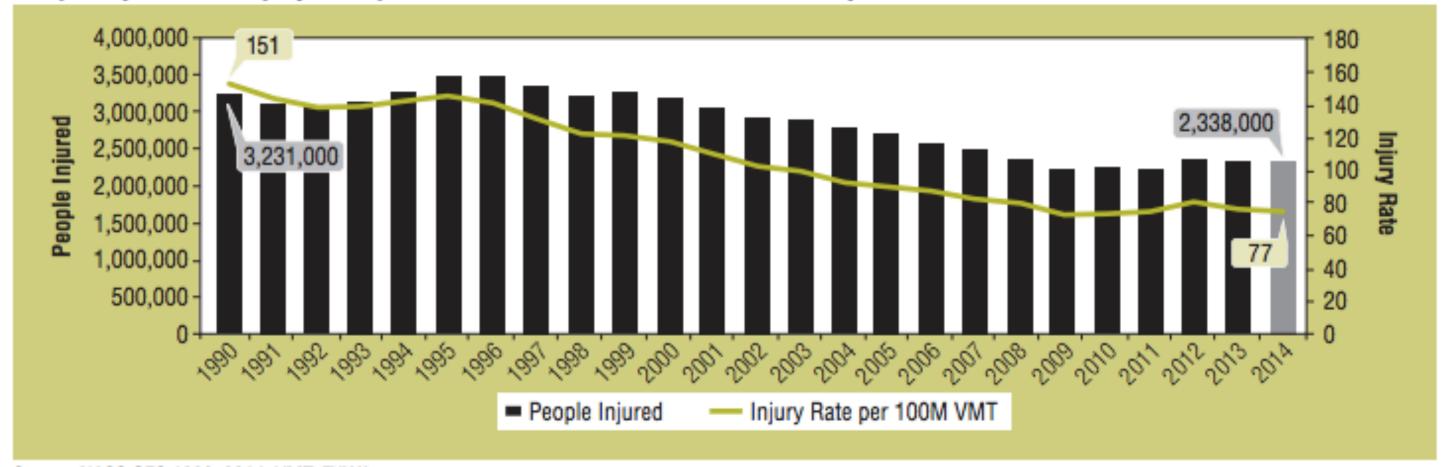


Fatalities and Fatality Rate per 100 Million Vehicle Miles Traveled by Year



Source: 1965–1974: National Center for Health Statistics, HEW, and State Accident Summaries (Adjusted to 30-Day Traffic Deaths by NHTSA); FARS 1975–2013 (Final), 2014 Annual Report File (ARF); Vehicle Miles Traveled (VMT): Federal Highway Administration (FHWA).

People Injured and Injury Rate per 100 Million Vehicle Miles Traveled by Year



Source: NASS GES 1990-2014; VMT: FHWA.

- > 30k killed
- > 2.3M injuried
- 1.07 deaths per M mi
- 77 injured per M mi



Driving to Safety

How Many Miles of Driving Would It Take to Demonstrate Autonomous Vehicle Reliability?

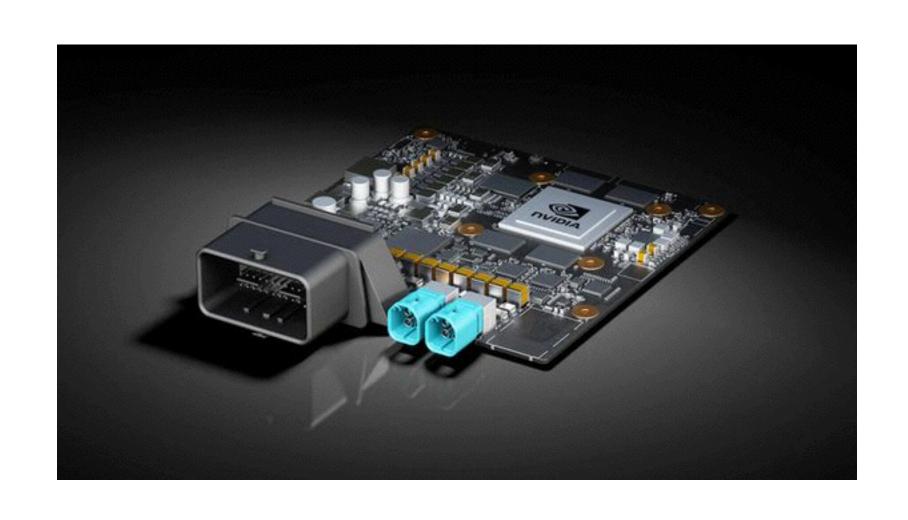
by Nidhi Kalra, Susan M. Paddock

Related Topics: Autonomous Vehicles, Traffic Accidents, Transportation Safety

How many miles (years ^a) would autonomous vehicles have to be driven	Benchmark Failure Rate		
	(A) 1.09 fatalities per 100 million miles?	(B) 77 reported injuries per 100 million miles?	(C) 190 reported crashes per 100 million miles?
(1) without failure to demonstrate with 95% confidence that their failure rate is at most	275 million miles	3.9 million miles	1.6 million miles
	(12.5 years)	(2 months)	(1 month)
(2) to demonstrate with 95% confidence their failure rate to within 20% of the true rate of	8.8 billion miles	125 million miles	51 million miles
	(400 years)	(5.7 years)	(2.3 years)
(3) to demonstrate with 95% confidence and 80% power that their failure rate is 20% better than the human driver failure rate of	11 billion miles	161 million miles	65 million miles
	(500 years)	(7.3 years)	(3 years)

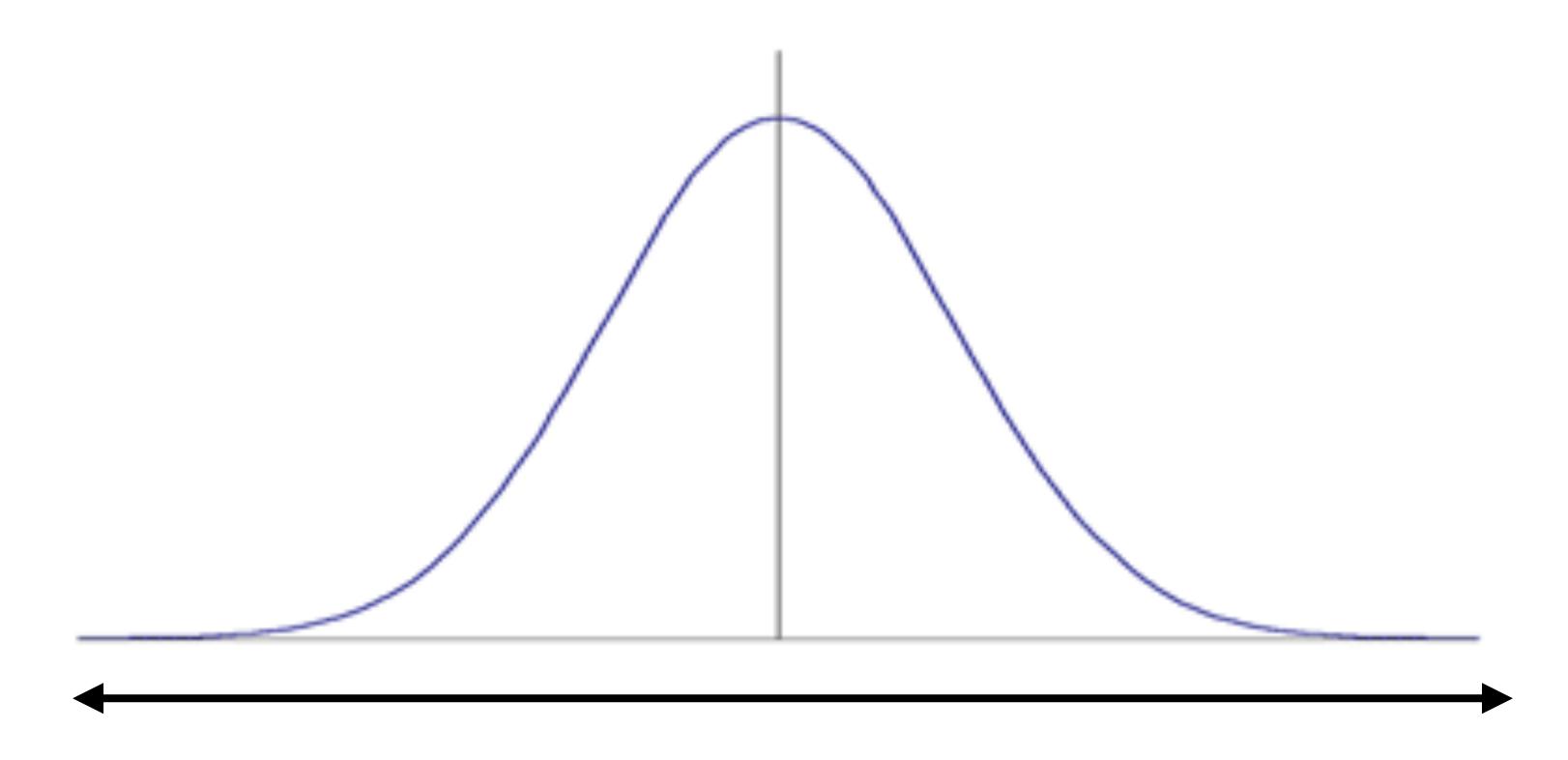
^a We assess the time it would take to compete the requisite miles with a fleet of 100 autonomous vehicles (larger than any known existing fleet) driving 24 hours a day, 365 days a year, at an average speed of 25 miles per hour.





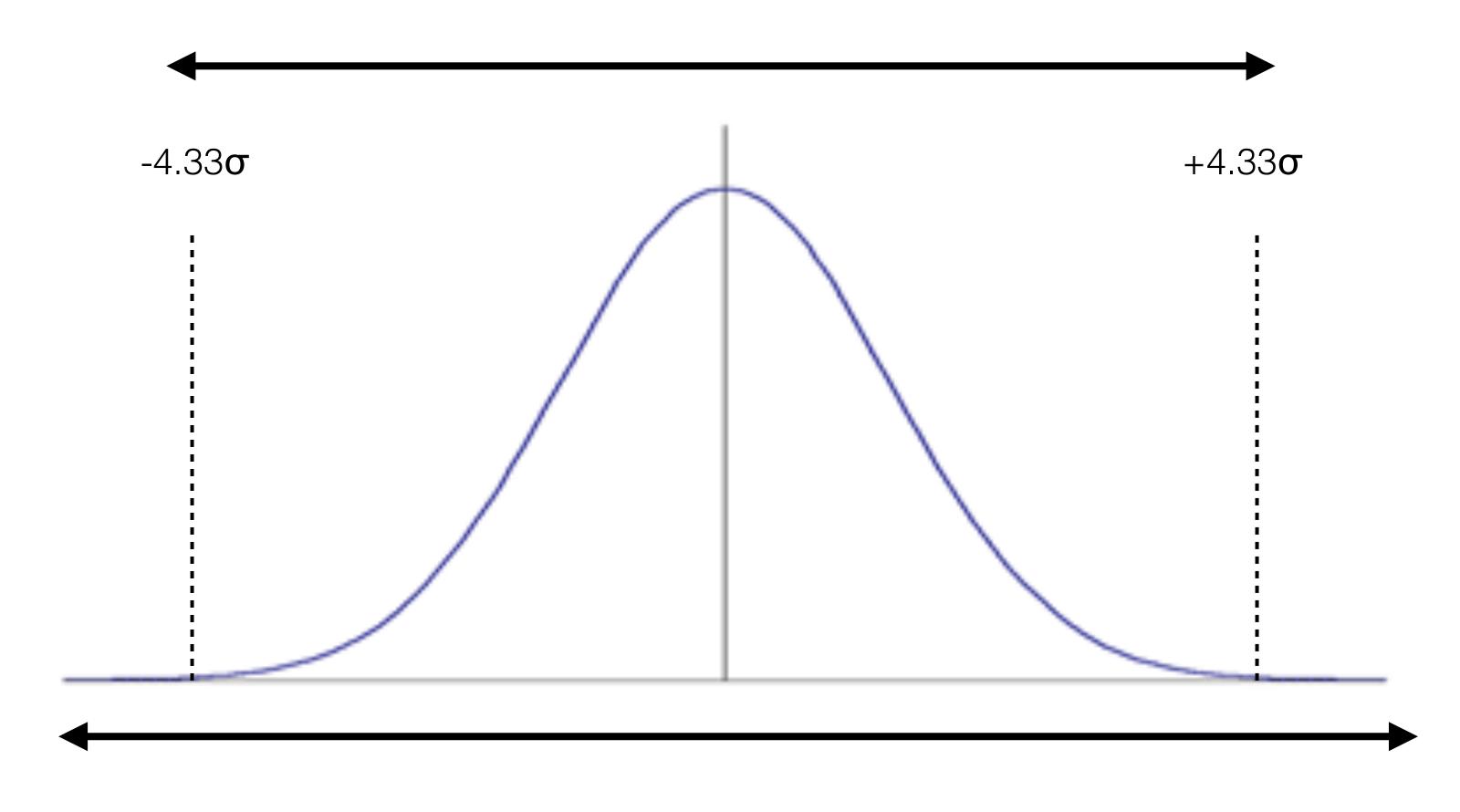
- 400B trips per year
- 6.1M crashes
- 1/65,000 chance of getting into a crash

- Safely handles what it's seen
- Learns from other Als
- Could crash if it encounters the unknown



Distribution of possible events a vehicle can encounter

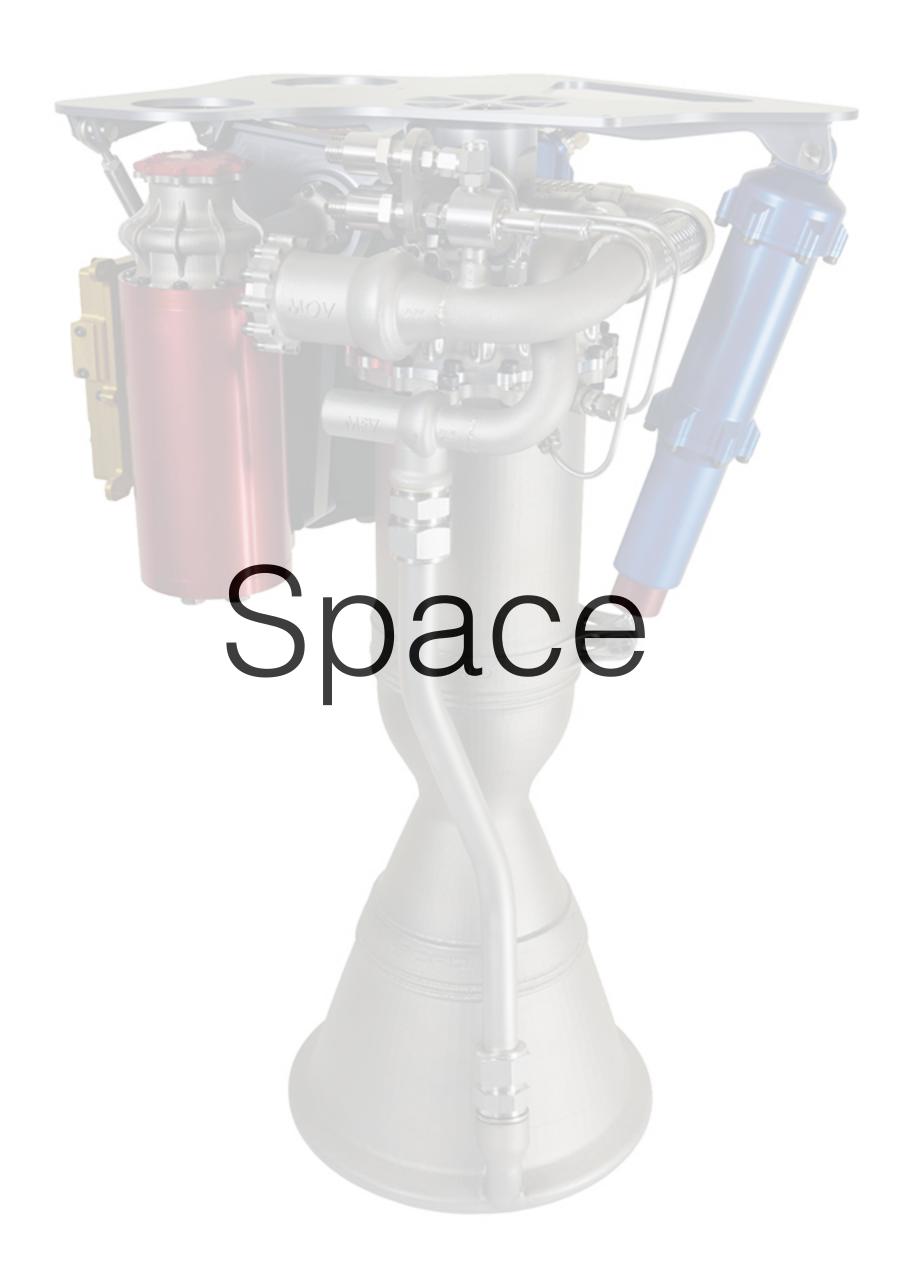
Portion an AI needs to encounter to be as reliable as humans



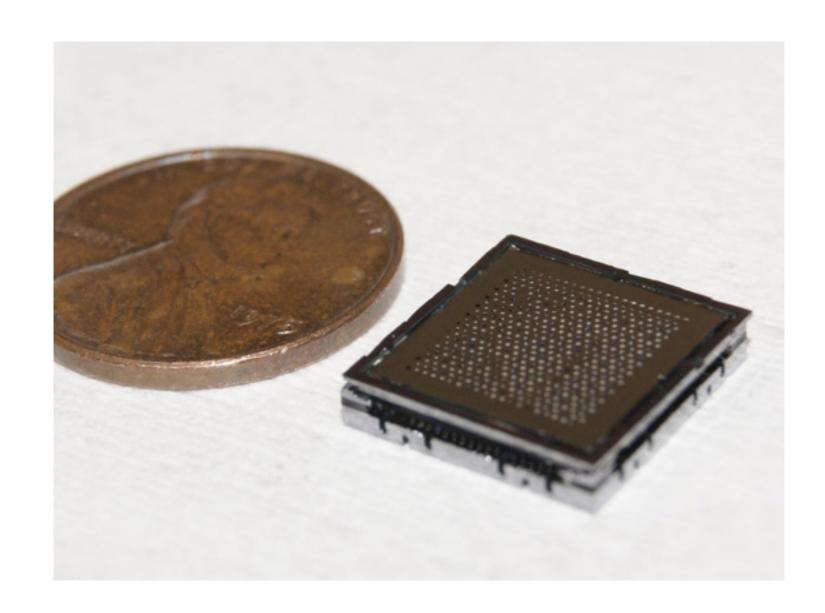
Distribution of possible events a vehicle can encounter

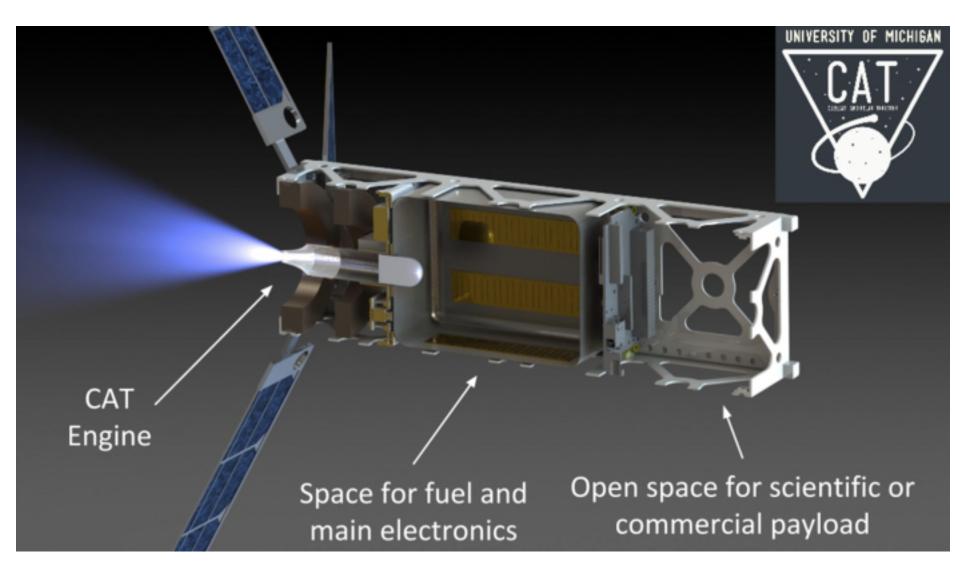
- Al-enabled products should be held to new standards
- We will save lives by adopting imperfect driverless cars
- Let's build tools that build, subject Als to, and measure them against these corner cases

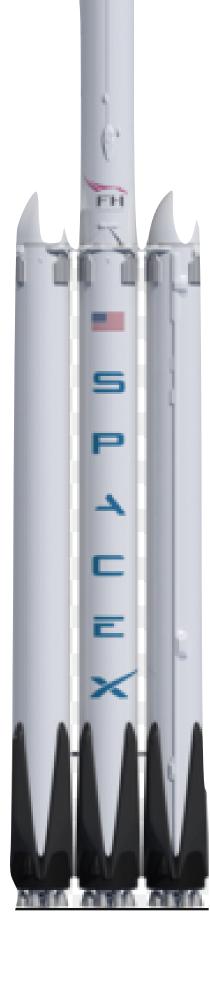


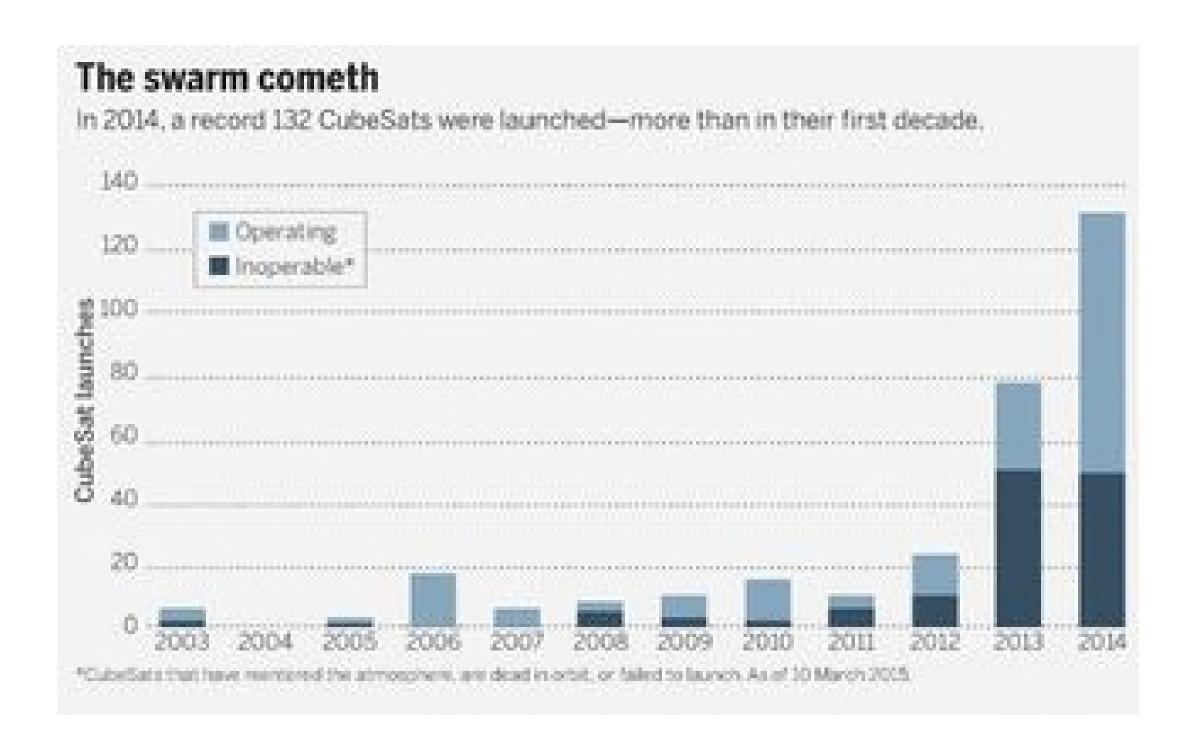


Accessing space

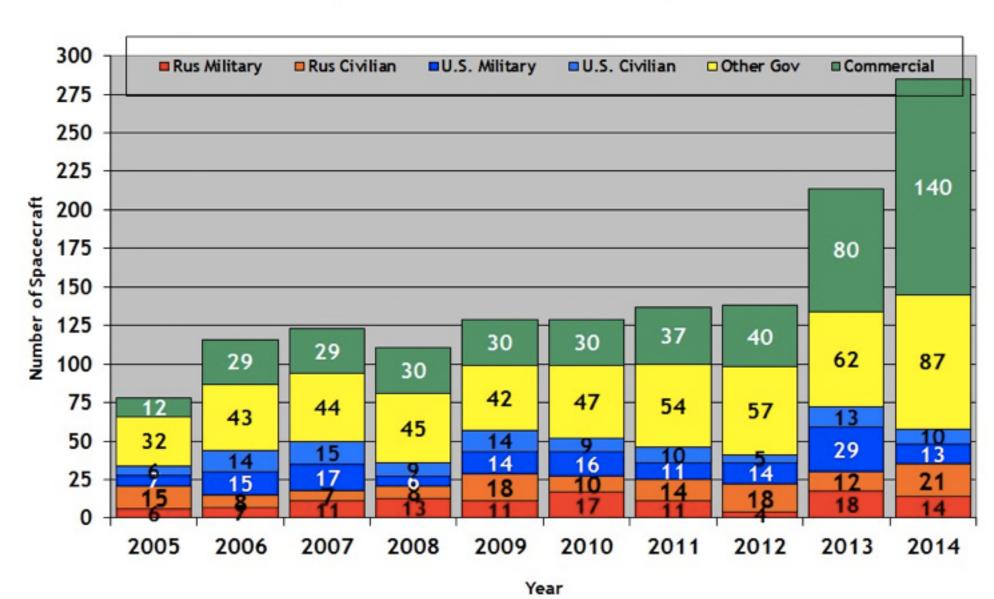








Number of Spacecraft Launched, 2005-2014

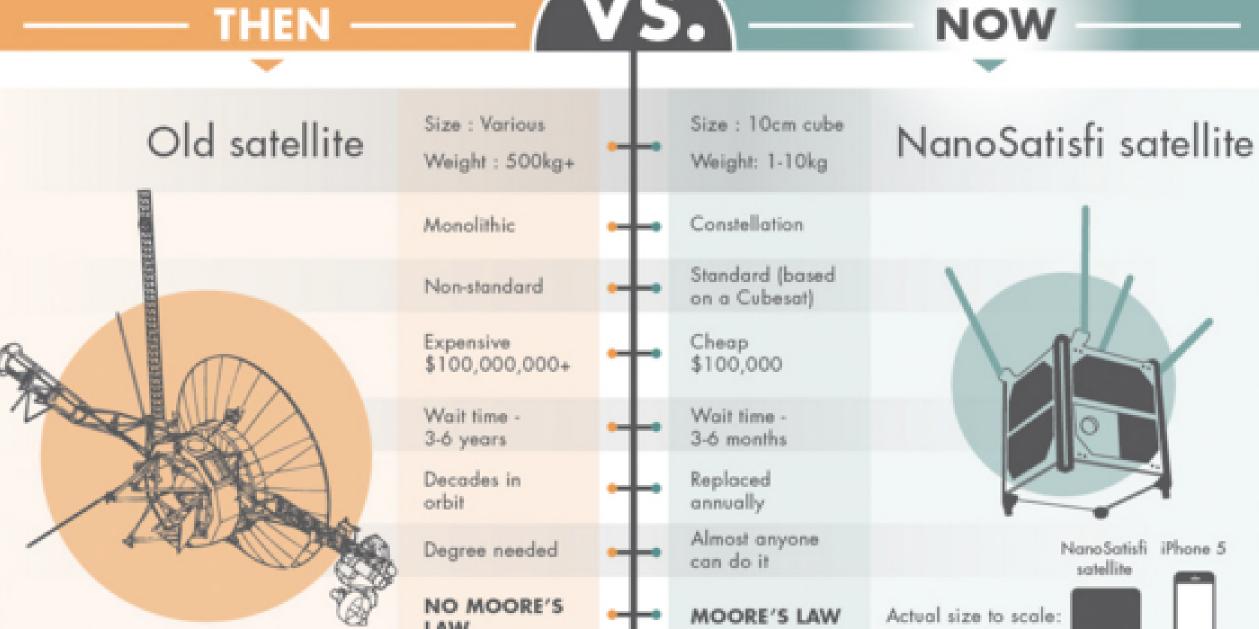


Democratizing space

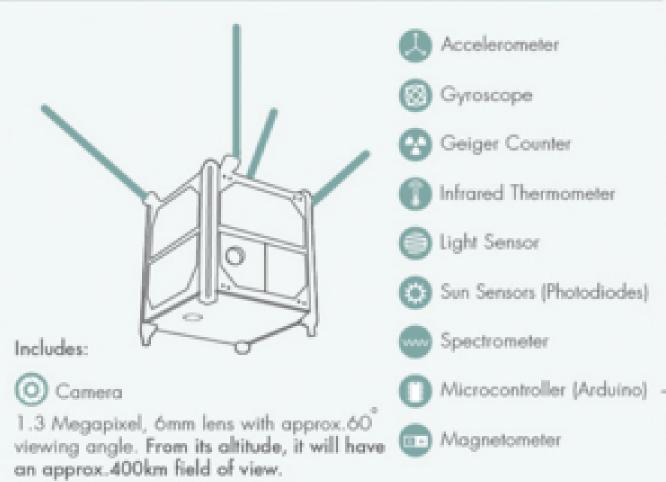








THE EQUIPMENT INSIDE

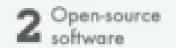


- ACCESSIBLE TO EVERYONE -

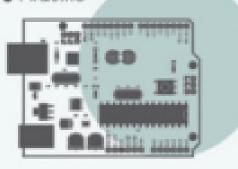
Technological tools available to everyone

Using Kickstarter, almost 700 backers raised more than \$100,000 to help fund the ArduSat project, meaning affordable space exploration is open to everyone, and funded by everyone.





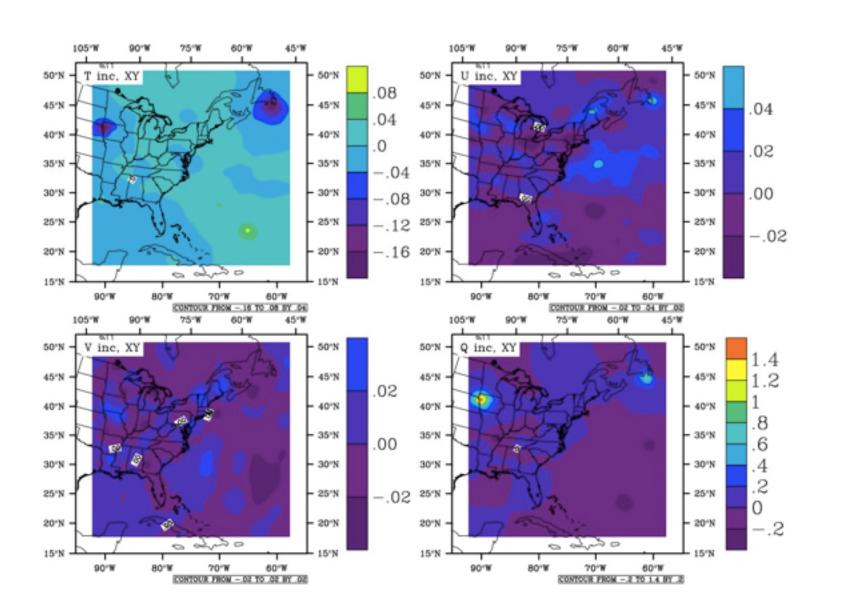




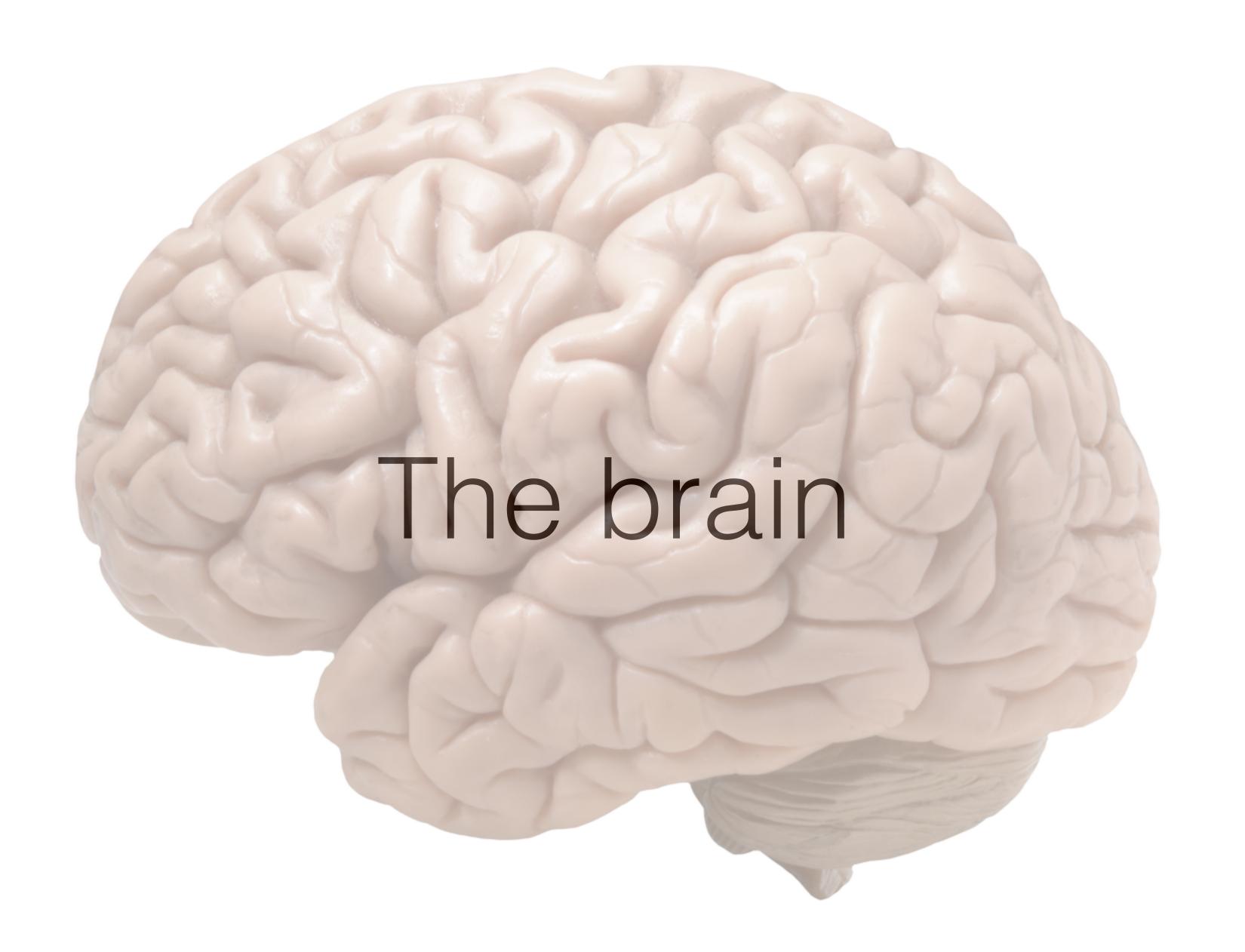


Pixels -> Signals



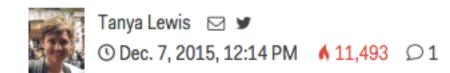








I controlled a robot arm with my brain, using this hightech headset





TECH & SCIENCE

U.S. MILITARY PLANS CYBORG SOLDIERS WITH NEW DARPA PROJECT

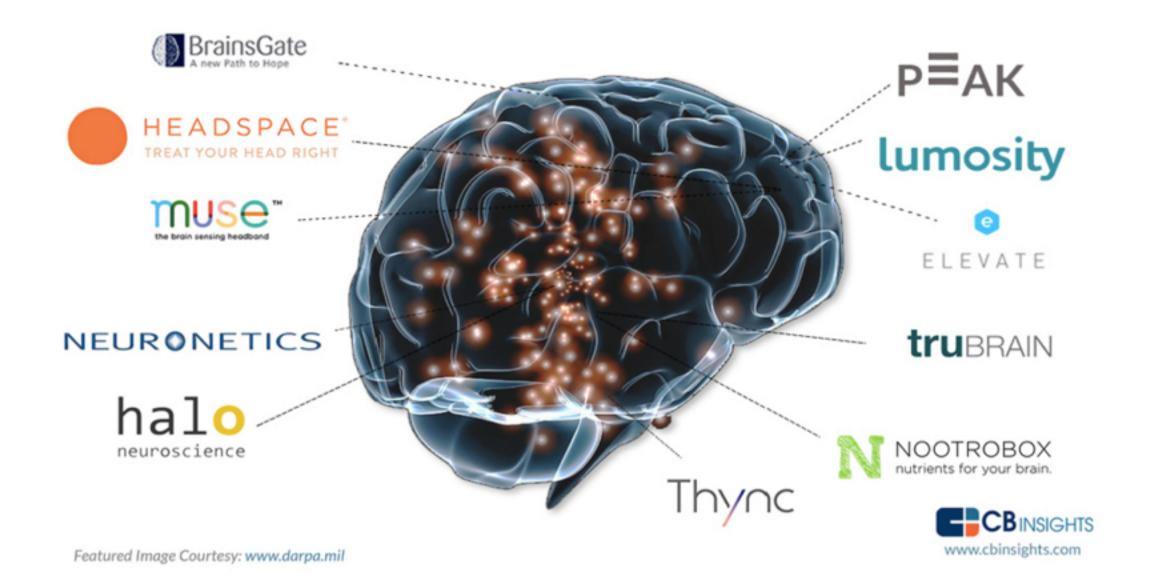
BY ANTHONY CUTHBERTSON ON 1/21/16 AT 9:20 AM

FORTUNE

MindMaze Snags \$100 Million for Virtual Reality Push

FEBRUARY 11, 2016

Meditation Apps, Nootropics, And Mood-**Enhancing Wearables: 11 Startups Boosting The** Brain



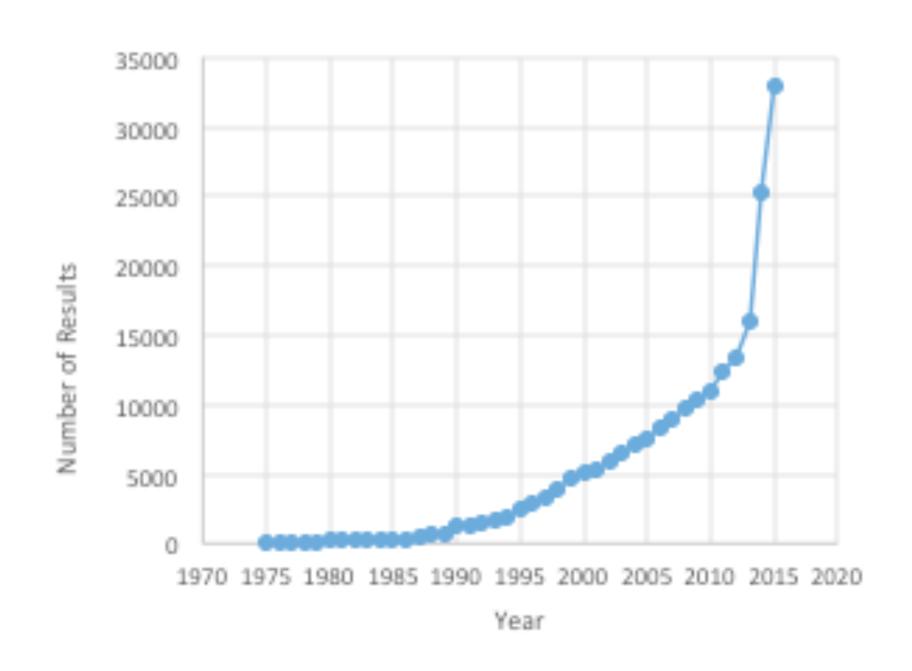
The New Hork Times

Computer-Brain Interfaces Making Big Leaps

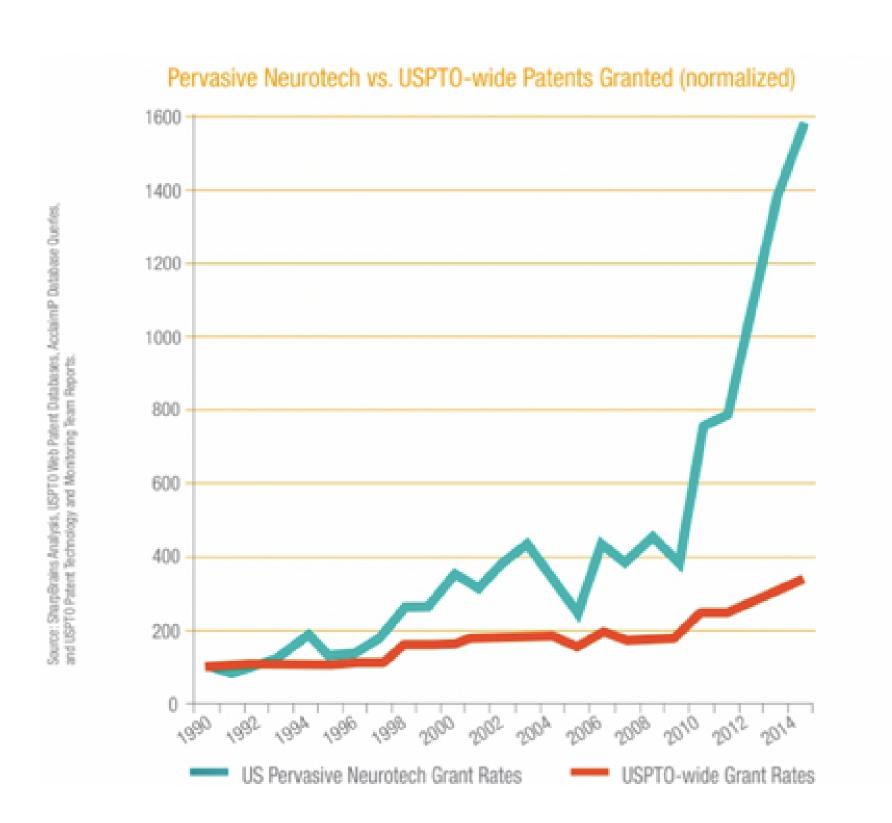
By NICK BILTON AUGUST 4, 2013 1:39 PM

94 Comments

The tools are being built:



Pubmed results growing exponentially







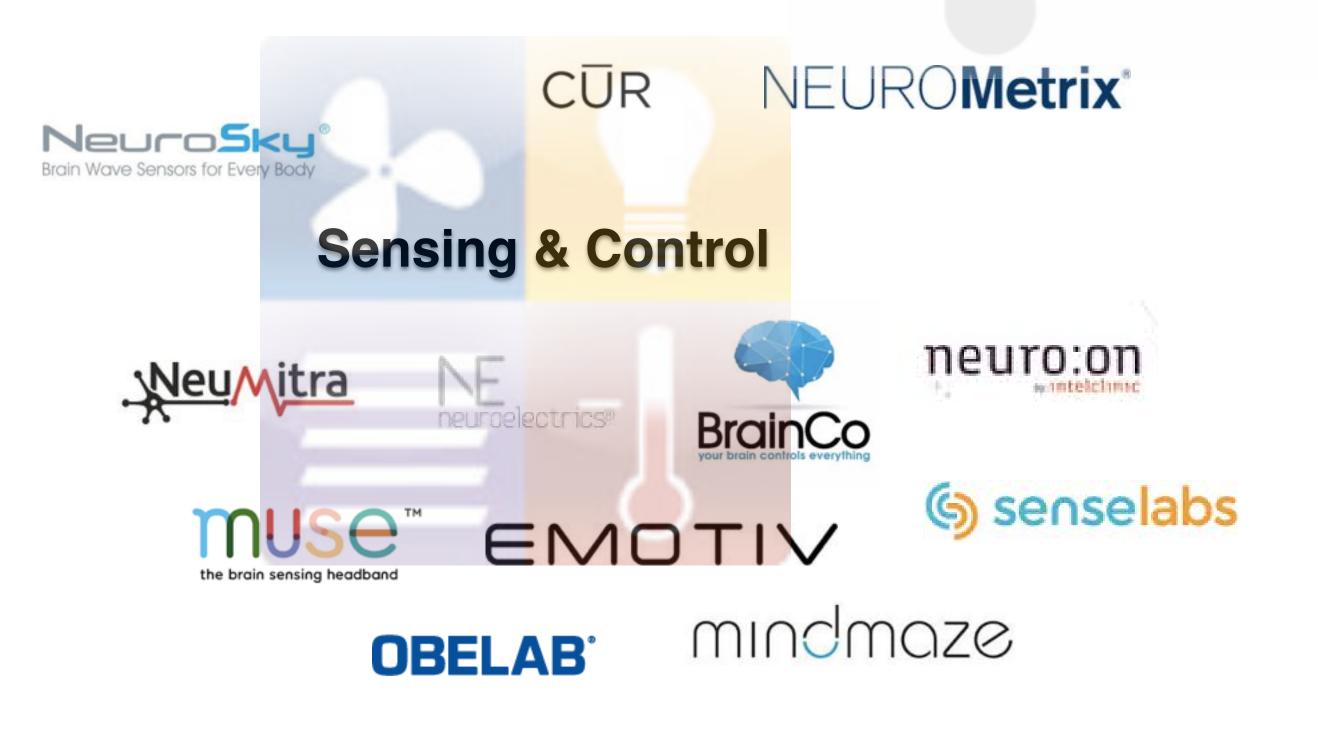


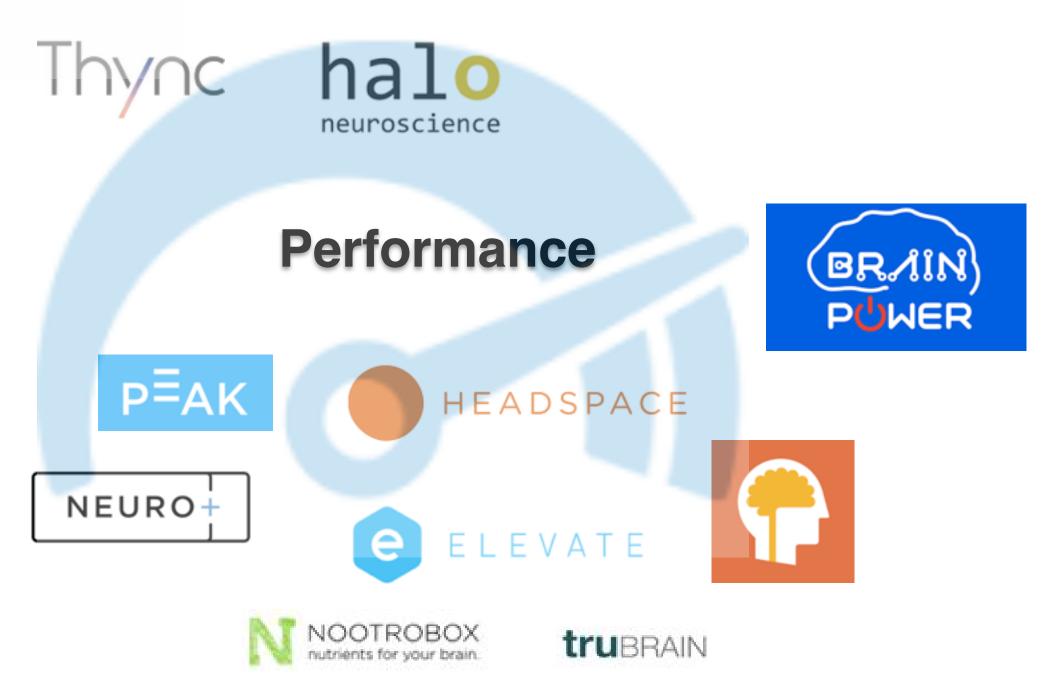


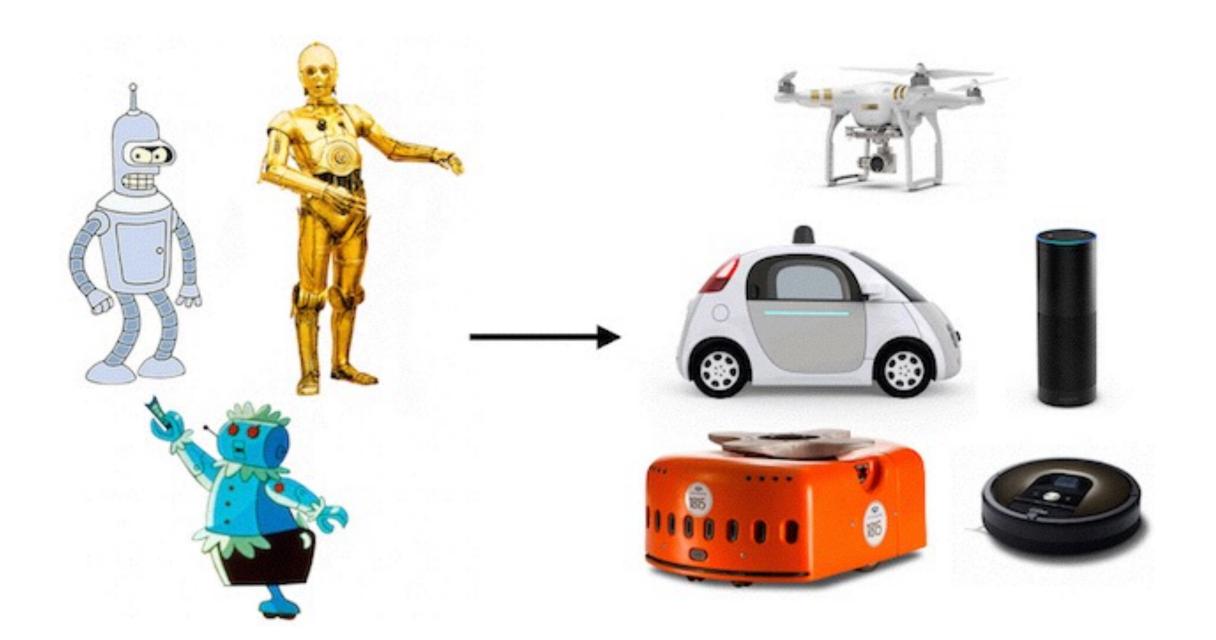
Similar trend on patent grants

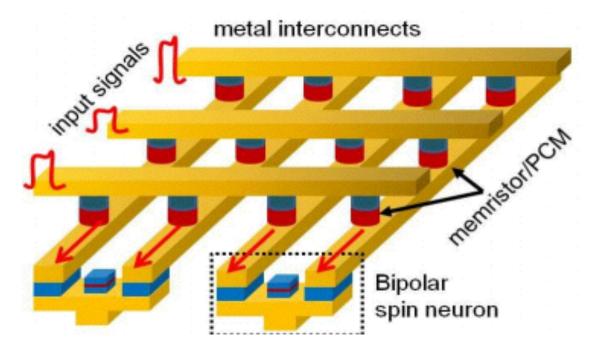
Neuro is much more than just medical devices:











Point of contact Shahin Farshchi Partner (925)323-2784 sf@lux.vc

