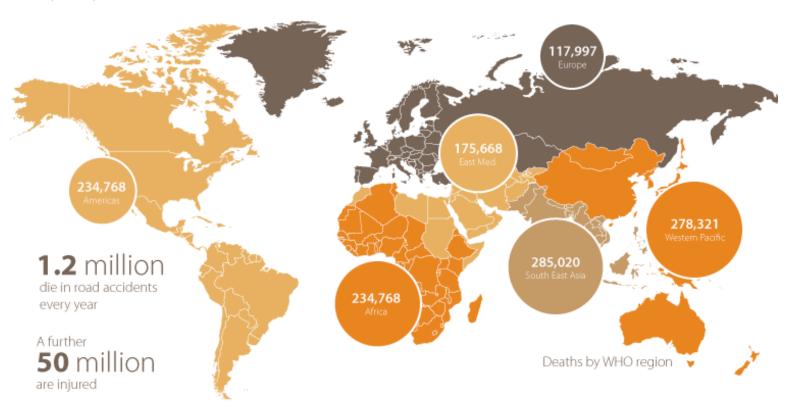


The Motivation

Road Traffic Accidents: The Modern Killer

The Global Status Report released by WHO this year, confirms that road traffic injuries are still a big global health and development problem



The Investments

- Intel purchasing Mobileye for \$15.3billion
 - Dwarfs prior AV investments
 - MobilEye is at the component/system level, not the vehicle control level
- Ford purchases a majority share of Argo AI for \$1B
- Otto is purchased by Uber for \$680M
- GM purchased Cruise Automation for \$1B
 - after investing \$500M in Lyft
- Volkswagen invests \$300M in Gett (Uber rival)
- Apple pumps \$1B into DiDi
- nuTonomy closed on \$16M funding in 2016 and closing on "multiples of \$16M in 1H2017"
- Optimus Ride closed on \$5.25M funding



The Taxonomy

2	LEVEL O	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
	No Active Assistance System	Longitudinal or Transverse Guide	Traffic Control	Awareness for Take Over	No Driver Intervention	No Driver
				Take Over Request	No Take Over Request	
		Longitudinal or Transverse Guide	Longitudinal and Transverse Guide			
	Hands On Eyes On	Hands On Eyes On	Hands Temp Off Eyes Temp Off	Hands Off Eyes Off	Hands Off Mind Off	Hands Off Driver Off



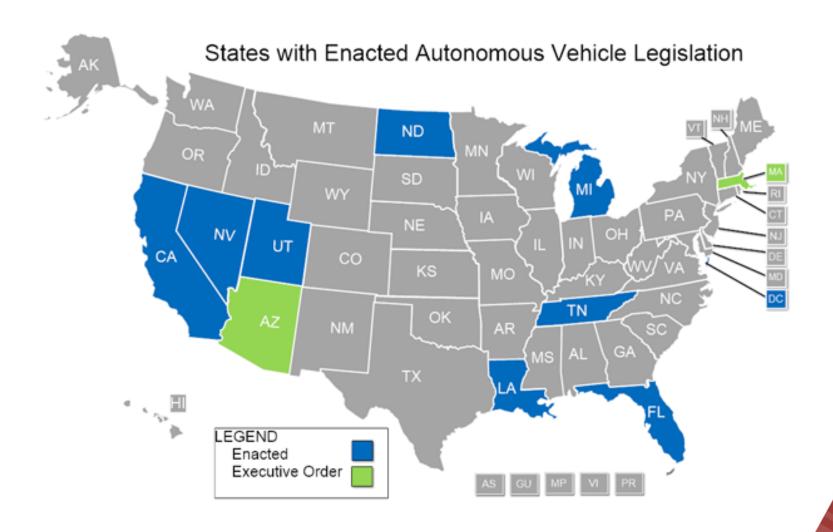
Testing in Massachusetts

- nuTonomy
 - Self-driving taxi cabs in Singapore
 - +200 miles in Ray Flynn Industrial Park
 - Renault Zoes and Mitsubishi i-MiEVs
 - Approval for expanded area
- Optimus Ride
 - Testing at Perkins School
 - Parallel autonomy & level 4
- Delphi applied
- Navya applied

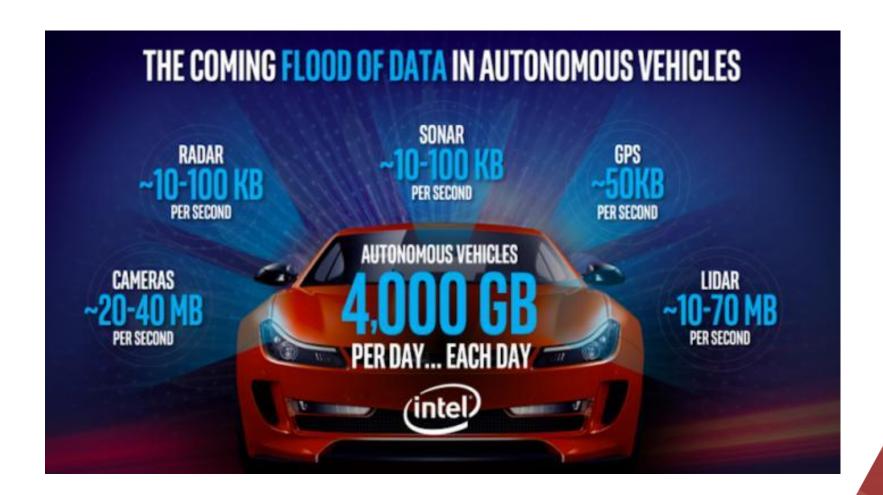


nuTonomy

Regulations



Data Sharing



Challenges to Adoption

- Human behavior and local traffic idiosyncrasies
- Liability and auto insurance
- Varying business models
- Impact on state & local revenue
- VMTs increasing or decreasing?
- Technology
 - Improved localization centimeter accuracy
 - Disrupted GNSS positioning
 - Varying road conditions not miles but experiences
 - •