

# Governor's Office of Business and Economic Development (GO-Biz)

Smart Cities, Connected/Autonomous Vehicles  
and Workforce



**Presented by:**

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# Who is GO-Biz?

The Governor's Office of Business and Economic Development (GO-Biz) was codified in 2011 by Governor Edmund G. Brown Jr. to serve as California's single point of contact for economic development and job creation efforts.

## Seven Units Including:

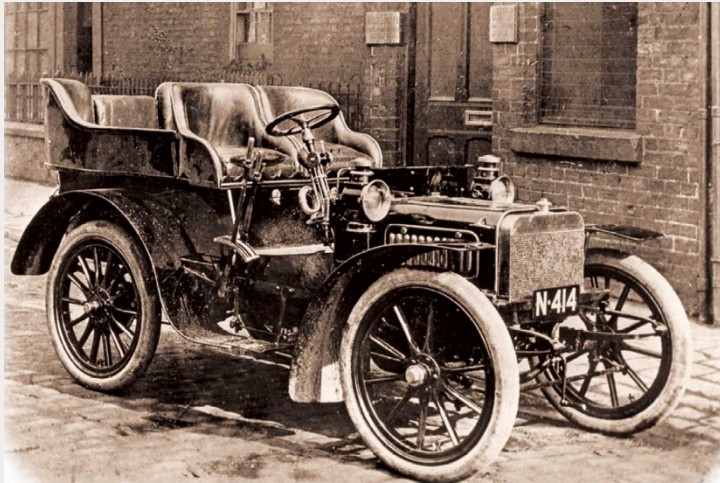
- Business Development (CalBis)
- Permit Streamlining
- Small Business Assistance
- California Competes Tax Credit
- International Affairs and Trade Development
- Zero Emissions Vehicle Infrastructure
- Innovation & Entrepreneurship



# REGIONAL LOCATIONS OF THE INNOVATION HUB PROGRAM

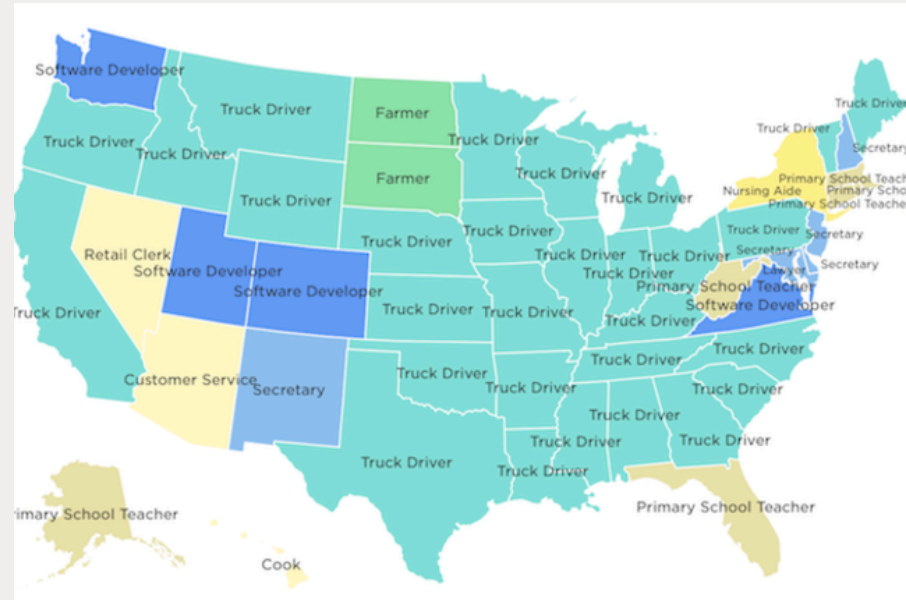


# Disruption is Coming



# Uncertain Future

- More than 3 million Americans drive trucks, taxis, buses or delivery vehicles.
- A May 2014 study found that 11.3 million workers will be significantly affected by autonomous vehicles.



- Natalie Kitroeff. "Robots could replace 1.7 million truckers in the next decade." *Los Angeles Times*. September 25, 2016.
- Jennifer Miller. "Autonomous Vehicles: Implications for Employment Demand." National Academy of Engineering. Fall Bridge Issue on Engineering, Technology, and the Future of Work. 2015.



# Changing Workforce



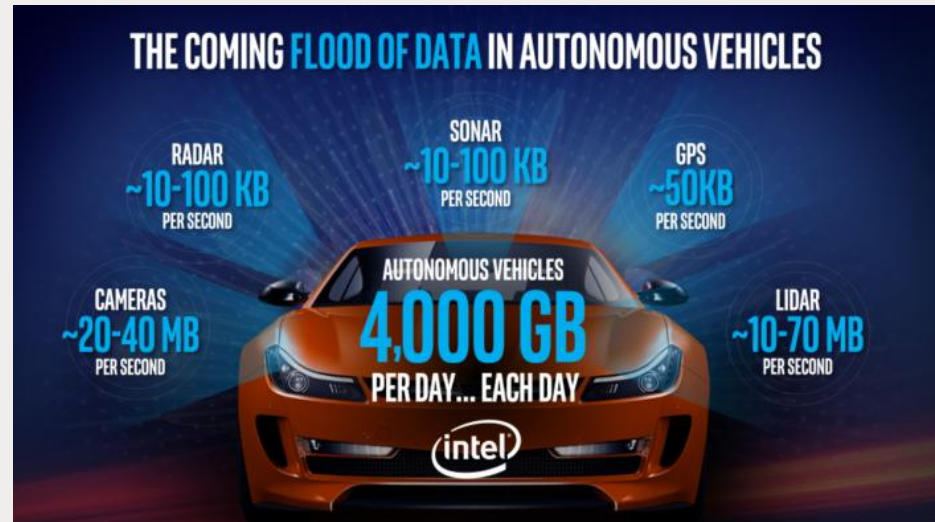
- A proactive approach to workforce development will bolster California's innovation economy and accelerate the growth of autonomous vehicles.



# CAVs and Smart Cities

There is an increasing convergence between CAVs and other advanced industry sectors:

- Cybersecurity
- Drones
- Agriculture
- Health Care
- Entertainment/Tourism
- Big data/analytics



# CAVs and Smart Cities (cont'd)



**Workforce development opportunities to support CAVs within the smart and connected cities ecosystem include:**

- Vehicle manufacturers, data/analytics companies, software
- Connections with public transit
- Greater mobility for seniors and disabled
- Public safety and firefighting





# Workforce Development

- Job creation potential for autonomous vehicles, and supporting services, is extremely high
- Both comprehensive STEM/STEAM efforts and more tailored training programs needed



# Workforce Blueprint



- Collaboration is key
- Document all findings
- Create a Roadmap
- Communicate Success

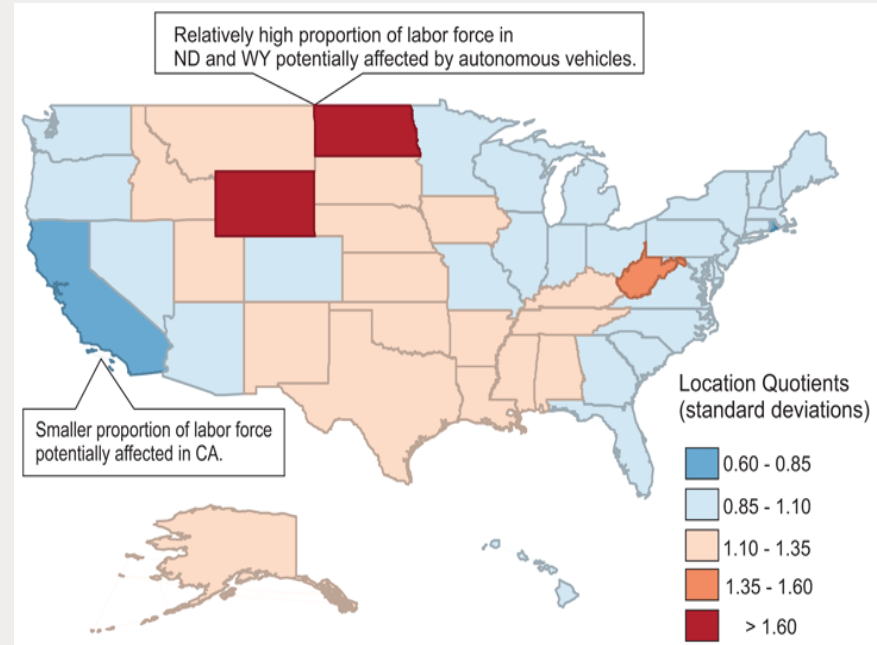


- Adam Thierer and Ryan Hagemann. "Removing Roadblocks to Intelligent Vehicles and Driverless Cars." Mercatus Center, George Mason University. September 2014.



# Optimism Abounds

- Comprehensive network of innovation leaders and supporters
- Diverse and well-rounded innovation ecosystem
- Key driver of a future connected society
- Support the testing and deployment of autonomous vehicles
- California is uniquely well-positioned



# Contact Information

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