

GETTING READY FOR AUTONOMOUS VEHICLES

Abstract

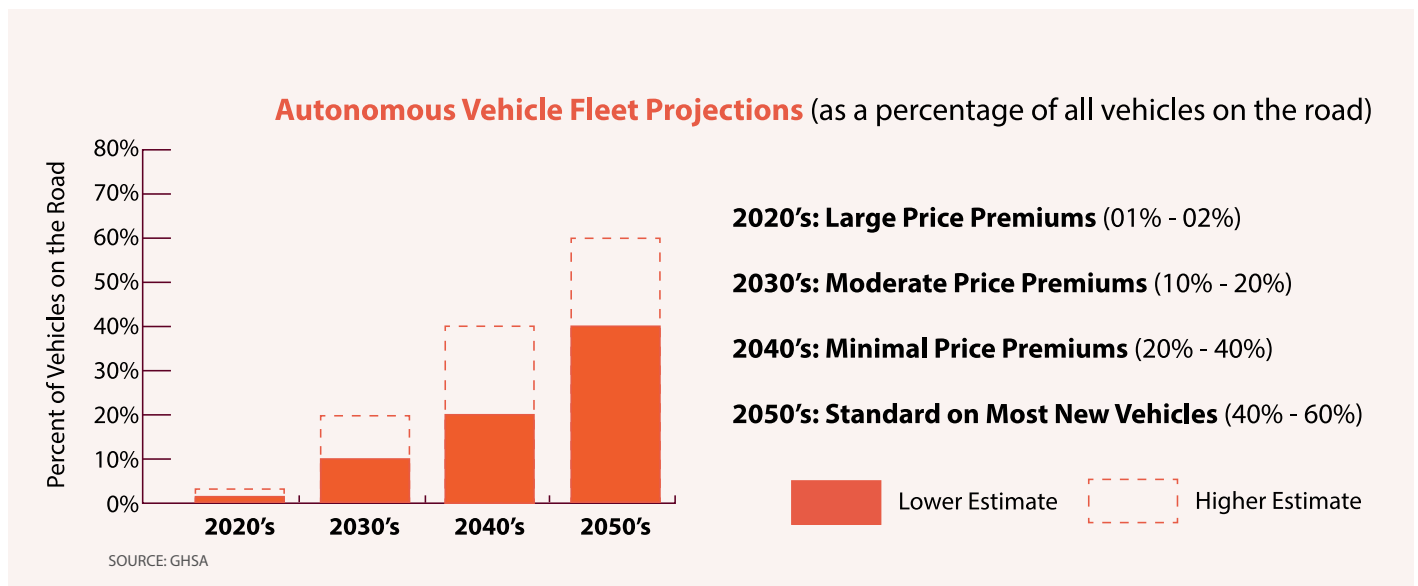
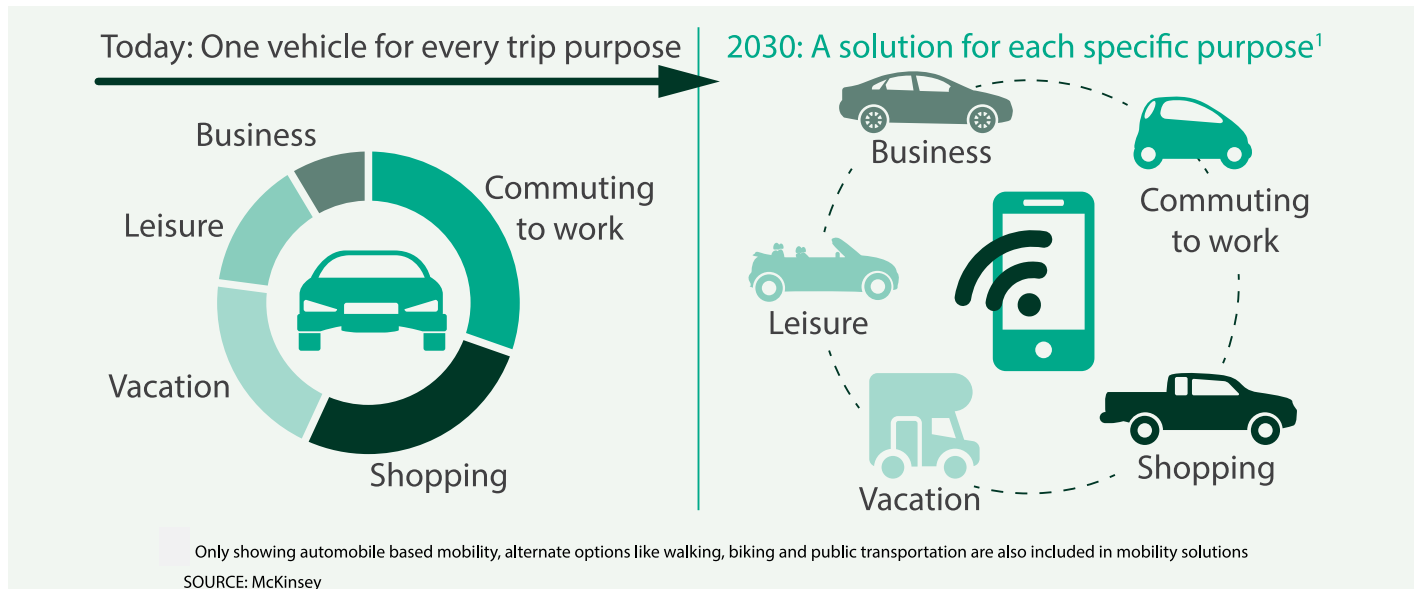
Autonomous Vehicles will change the way vehicles, drivers and operators are registered, licensed and regulated. This paper summarizes our understanding of how autonomous vehicles will impact motor vehicle and licensing agencies and what agencies should do to manage them properly.

Growth of autonomous vehicles

Adoption of autonomous vehicles will accelerate over the next few decades. A recent study estimated that by 2035 more than 12 million fully autonomous vehicles

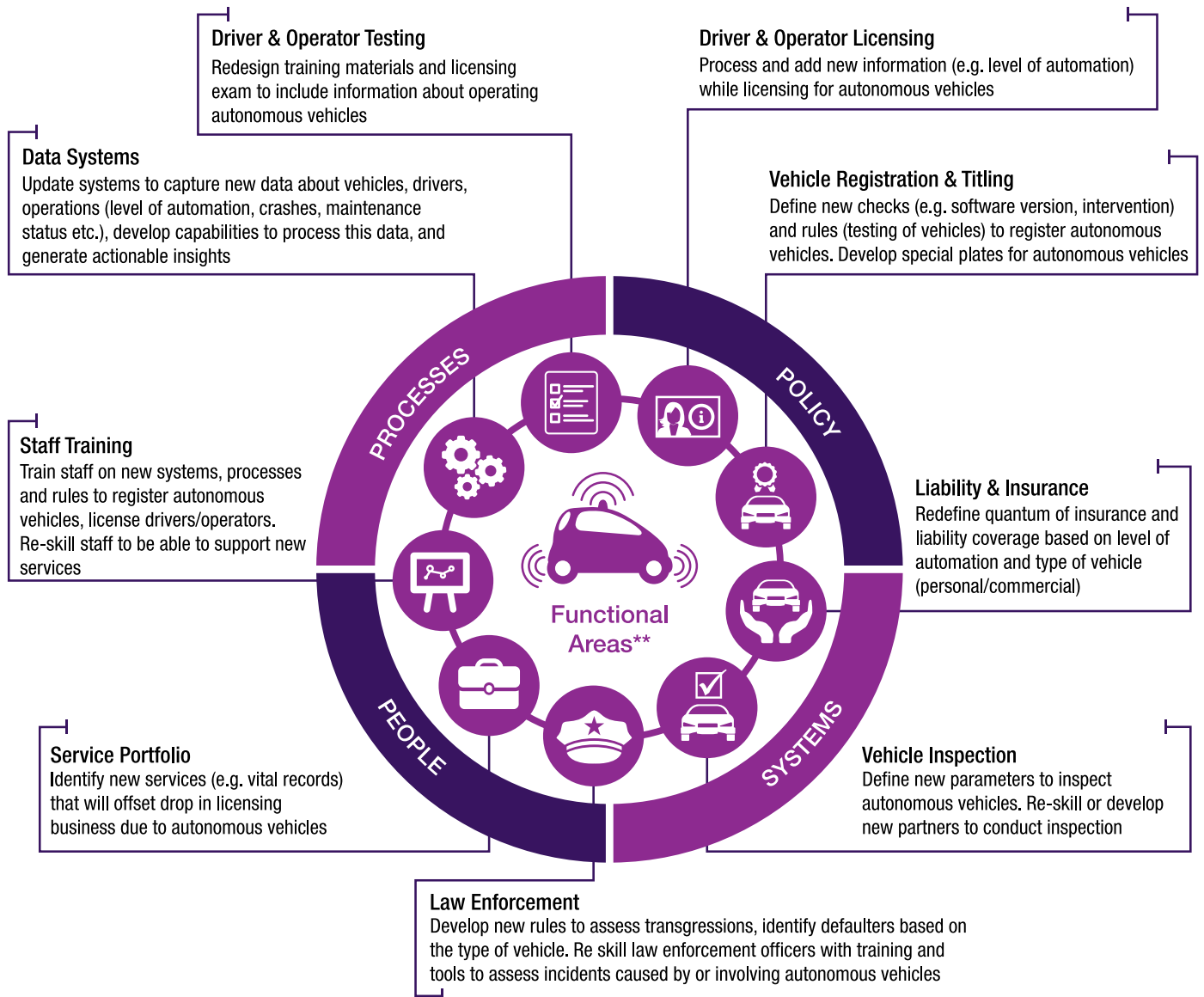
and 18 million partially autonomous vehicles will be sold per year across the world¹. Not only will there be more autonomous vehicles, but more types of

vehicles as well – vehicles for business, leisure, commuting, vacation, etc. and most of these would be shared².



Impact of autonomous vehicles on motor vehicle and licensing agencies

Growth in the volume and diversity of autonomous vehicles, and the rise of the 'sharing' economy will impact the following areas overseen by motor vehicle and licensing agencies.



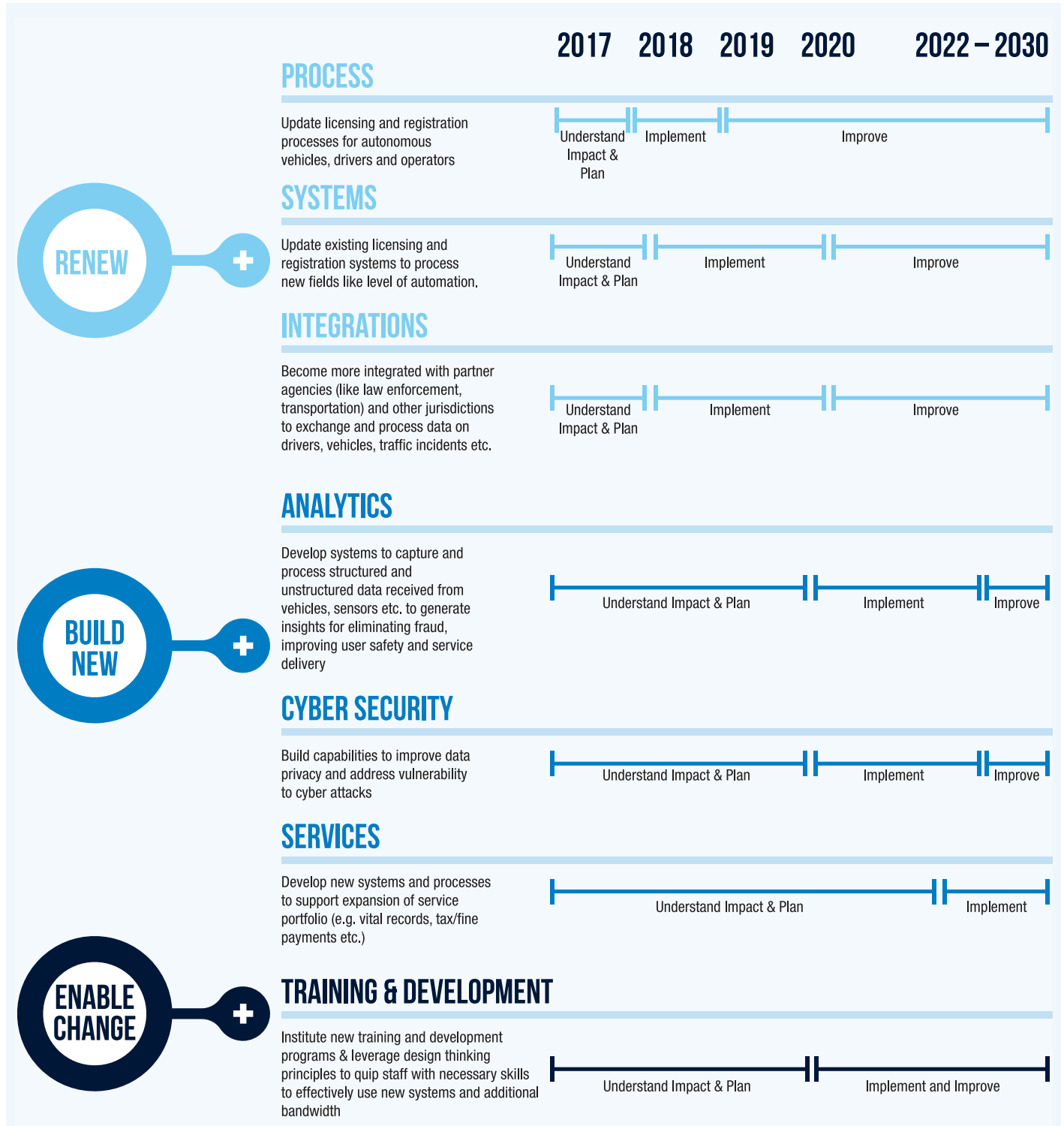
***This list is not comprehensive. Includes key functional areas that are directly managed by the DMV. There are other areas as well which would be impacted like Infrastructure, Transit etc. where DMVs are also involved, but not as a primary authority.*

Re-thinking capabilities to address the impact of autonomous vehicles

At the moment, motor vehicle and licensing agencies are focused on testing autonomous vehicles. Soon, these vehicles would be on the roads, probably as early as 2020.

To address the impact of these vehicles as listed above and to ensure disruption free services, agencies should renew existing systems and processes, and build new

capabilities – and, we believe they should start to do this immediately.



Conclusion

Every major automotive company (and some non-automotive companies too) is investing in autonomous vehicles. These companies will want to start monetizing their investments quickly. Uber has already tried to do this in Pittsburgh. This means that autonomous vehicles will be on-the-road sooner than expected – probably by 2020.

What should motor vehicle and licensing agencies – which are currently focused on testing of autonomous vehicles do to effectively manage and regulate these vehicles when they hit the road?

In this paper, we discussed the impact of autonomous vehicles on policy, processes, systems and people, and the capabilities

that motor vehicle and licensing agencies need to build to address this impact. In our next few papers, we will explore these new capabilities (like analytics, collaboration and change management) in detail and discuss what motor vehicle and licensing agencies should do to be ready for autonomous vehicles.

References

- [1. https://www.bcg.com/en-in/expertise/industries/automotive/autonomous-vehicle-adoption-study.aspx](https://www.bcg.com/en-in/expertise/industries/automotive/autonomous-vehicle-adoption-study.aspx)
- [2. https://www.mckinsey.de/files/automotive_revolution_perspective_towards_2030.pdf](https://www.mckinsey.de/files/automotive_revolution_perspective_towards_2030.pdf)
- [3. http://www.ghsa.org/sites/default/files/2017-01/AV%202017%20-%20FINAL.pdf](http://www.ghsa.org/sites/default/files/2017-01/AV%202017%20-%20FINAL.pdf)

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