

Breakout Group Title: Law and Policy as Infrastructure

Summary of Meeting Agenda: We had three moderated panel discussions:

- **What Road Authorities Can Do to Prepare for Automated Vehicles**
- **What—Not Who—Are You Licensing as a “Driver”?**
- **Balancing Security, Privacy, and Innovation in Automated Vehicle Data Use**

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Summary of Key Findings/Lessons Learned from Breakout Discussion:

What Road Authorities Can Do to Prepare for Automated Vehicles

- Focus on areas of traditional state regulation. Some grey areas, but most are black or white
- Think how licensing, traffic laws, safety inspections might apply differently to vehicles with various degrees of automation
- Define state and federal spheres of authority for regulation, safe operation and testing of AVs
- Key issue: how to license a “driver”

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Summary of Key Findings/Lessons Learned from Breakout Discussion:

What—Not Who—Are You Licensing as a “Driver”?

- Compared the concept of “driver” from the U.S., Australian, EU, and Japanese perspectives
- Australia has a new discussion paper on automated vehicles without a driver
- Key issues: responsibility and control of the vehicle

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Summary of Key Findings/Lessons Learned from Breakout Discussion:

Balancing Security, Privacy, and Innovation in Automated Vehicle Data Use

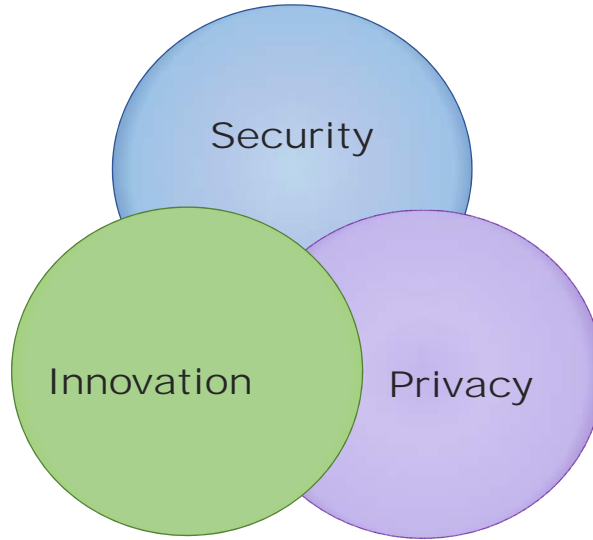
- Defined automated vehicle and connected vehicle data
- Explored how concepts of data security, privacy, and innovation intersect
- Discussed whether data de-identification was a “silver bullet” or an illusion
- Developed the key elements of an action plan for a hypothetical metropolitan city that is creating a connected vehicle data management plan

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Recommended Action Items:

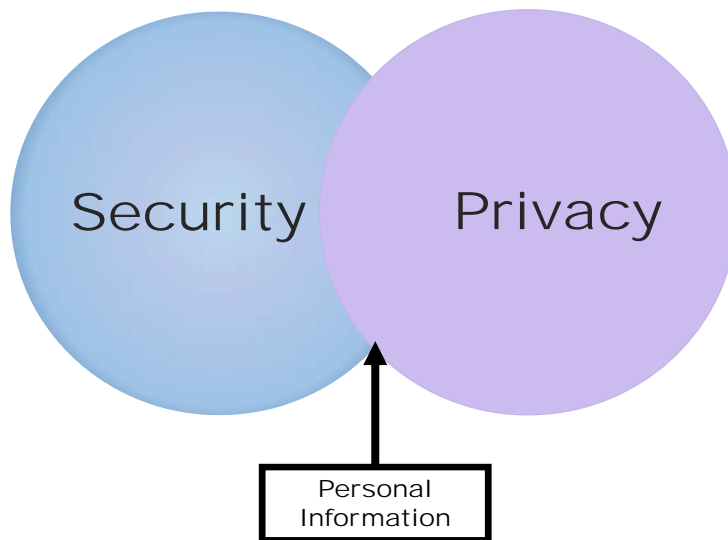
- “First thing is not to panic;” most laws are fit for purpose
- Data collection and creation are helpful for AV deployment and vehicle safety
- Know your policy framework and goals

Security, Privacy and Innovation

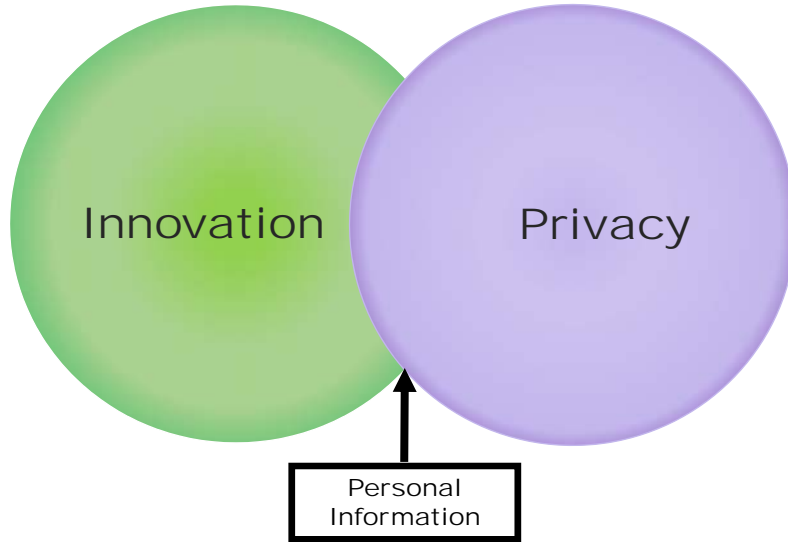


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? Logical Relationship

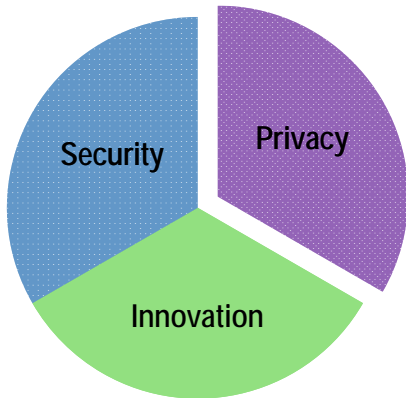


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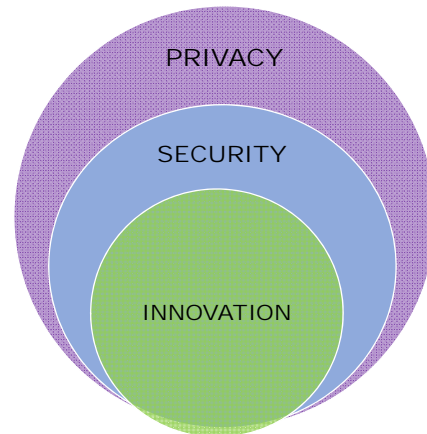


Mistaken Relationships

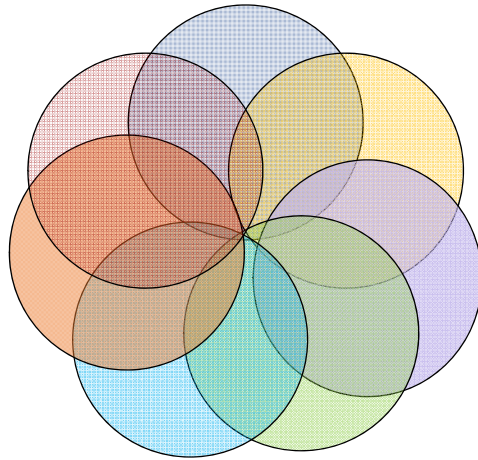
Static Pie Fallacy



Euler "Nested Set" Relationships ?



Policy making is, of course, more complicated than three factors . . .



Some Vehicle Data Types

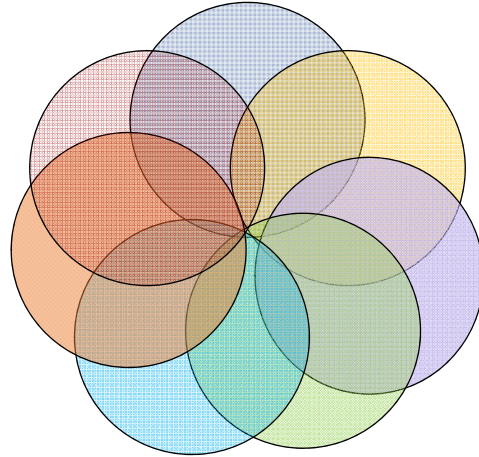
Connected Vehicles (DSRC V2V)

- **Basic Safety Message Exchange**
 - Standardized elements (Public Standards)
 - Unencrypted (in the clear)
 - Ten times every second
- **Transmission**
 - Restricted to ad hoc networks - evanescent ?
 - Communicated to outside recipients (V2I or V2X)
 - Stored ?
 - On-board the vehicle (see, e.g., EDR)
 - Cloud?
- **HMI – warnings (recorded or not)**

Automated Vehicles

- Information from Vehicle Roadway Sensors
- External Data and Control Sources
 - DSRC
 - Wireless
 - Interactive Cloud
- Vehicle Internal Operation Data
 - Manufacturer
 - Insurer
 - Cloud ?
- Dynamic Digital Roadway Mapping
 - To and from the Cloud ?
 - Updates (downloads?)
- Algorithms and analytic data
 - Pattern analysis software
 - ECU feed-back data

Thank You !



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