Outline

• Data
• Mobility
• The Built Environment
• Preventing Digital Divides
• Policy + Strategies
What is a smart community?

A community that leverages technology not as the end state, but as a tool to support the community and empower them to improve the quality of life.
Data

- Know the unknown – Daylight data
- Automate the boring stuff
- Open Data
- Data Sharing
- LCI context – fully leverage the datasets and data brains available at ARC
Mobility

- ITS
  - C-V2X + DSRC
- Transit improvements
  - MaaS
  - Micro mobility
- All modes
- Trip Planning

Source: USDOT. Connected Vehicles Pilot Deployment Program
Mobility

- Drones
- Flying Cars
- Freight
Mobility
Getting there is less snazzy

<table>
<thead>
<tr>
<th>SRM</th>
<th>BSM</th>
<th>SSM</th>
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| - Preemption or priority request  
  - Optional BSM information  
  - Vehicle ID and credentials | - Lat/Long  
  - Elevation  
  - Speed  
  - Heading  
  - X/Y/Z Acceleration | - Intersection ID  
  - Signal status  
  - Priority status  
  - Preempt status  
  - Transit status | - Current state of the intersection  
  - Active lane  
  - Remaining time for current state |

OBU BROADCAST
Signal Request Message (SRM)
Basic Safety Message (BSM)

Roadside Unit
NTCIP
Signal Request Message (SRM)
Basic Safety Message (BSM)
The built environment

• Creating and measuring better environments
Preventing Digital Divides

• Bring neighbors along
Policy + Strategies

Collaboration is and will be key
Thank you!