

Safeguarding public values & interests

- In provision of essential services, government bound to ensure:
 - Universal access
 - Availability/reliability of service
 - Affordability
 - Social and environmental acceptability
- Organization of services: public monopoly or competitive market





Mobility as an essential service

What does this mean ??



Private vehicles



Roads



Public transport

Solution: Autonomous + electric vehicles

 Rural areas: lower frequency public transport service

Solution: robotaxis?

 Robotaxis vs traditional public transport: better service (on demand) and cheaper mobility





Consequences: Too good to be true ... ??



Challenges for government e.g.,

- Cyber-security risks
- Privacy invasion





What can governments do?

- Public charging infrastructure
- User protection: safety, cybersecurity and privacy
- Stimulation schemes (account for distributional effects)





Distributional effects

- Early adopters → highly educated, high income group
- Rest may feel left out
- Design incentive schemes with:
 - Limited extent of income transfer
 - Limited duration (but long enough to help technology mature)



How does the user decide?

- Costs
 - cost of EV
 - privacy and cyber-security risks, range anxiety, ...
- Benefits
 - clean conscience, social status, comfort, ...
 - cost savings (total cost of ownership)
- Costs vs benefits: balance influenced by peer group behavior



Thank you for your attention!