Architectures in the Era of Drones, Robotics and Self-driving cars

Tomoyuki Furutani
Keio University
Tomoyuki FURUTANI
maunz@sfc.keio.ac.jp

• Professor, Keio University, Faculty of policy management
• Director of Drone Society Co-creation Consortium
• Applied statistics, Urban transportation planning

• Academic career:
  • Professor, Keio University, Faculty of Policy Management
  • Guest researcher, University of Vienna
  • Guest professor, Chulalongkorn University
  • Associate professor, Keio Univ., Faculty of Policy Management
  • Lecturer, Keio Univ., Faculty of Environment and Information Science
  • Assistant professor, Univ. of Tokyo
Contents

• Images of future mobility and society

• Drone
• Air-mobility (flying cars)
• Self-driving car (bus)
• Delivery robots

• Discussions on future mobility and architecture
Drones, robots and self-driving cars are ready for our daily life.
What is a "Drone Society"?
Air Mobility in the city
Images of roof-top drone port


(c) Tomoyuki Furutani@KeioSFC
Skyport by Uber


© Tomoyuki Furutani@KeioSFC
Honda “Le Mobi House”

Tridica pod


(c) Tomoyuki Furutani@KeioSFC
Self-driving car as hotel rooms


(c) Tomoyuki Furutani@KeioSFC
Discussions: Impacts on Urban Design

- Transferrable Development Rights of the Air
- Attached Mandatory Parking-lots of cars and air mobility
- Drone and air mobility ports on the roof top or balcony
- Airports for each city: connecting regional air, air taxi, and ground transports
- Delivery box for robots and residents