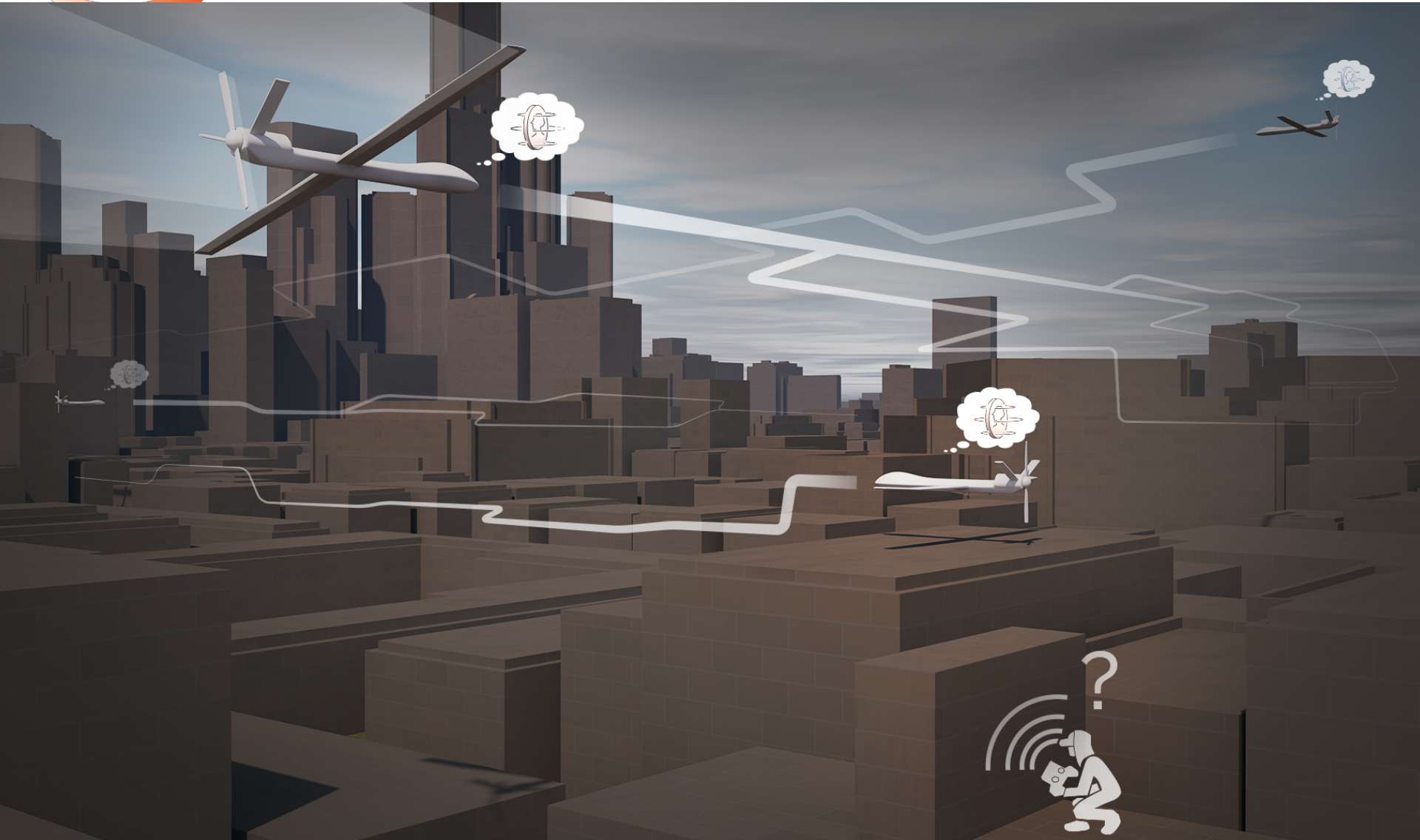


Protecting safety- and mission-critical information





Protecting privacy in computing



- Privacy-preserving computing using secure multiparty computation
 - Semi-honest vs malicious models
- Outsourcing computation to third-parties while maintaining security
- Trustworthy platform architectures and SMC



Protecting privacy in communication



- Coalitions can require agents to share sensitive information, such as locations
- Agents must protect information as it is being shared
- Differential privacy provides a statistical privacy framework that we can leverage to safeguard data in communications



Protecting privacy in execution



- Privacy in terms of evolution of beliefs of an agent or an intruder
- Verification of privacy properties as optimization-based search of algebraic certificates