

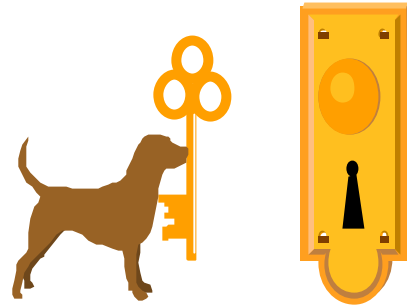
PUP security

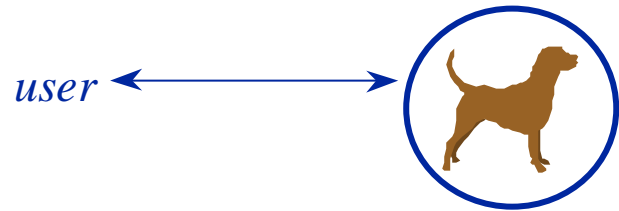
Will Harwood



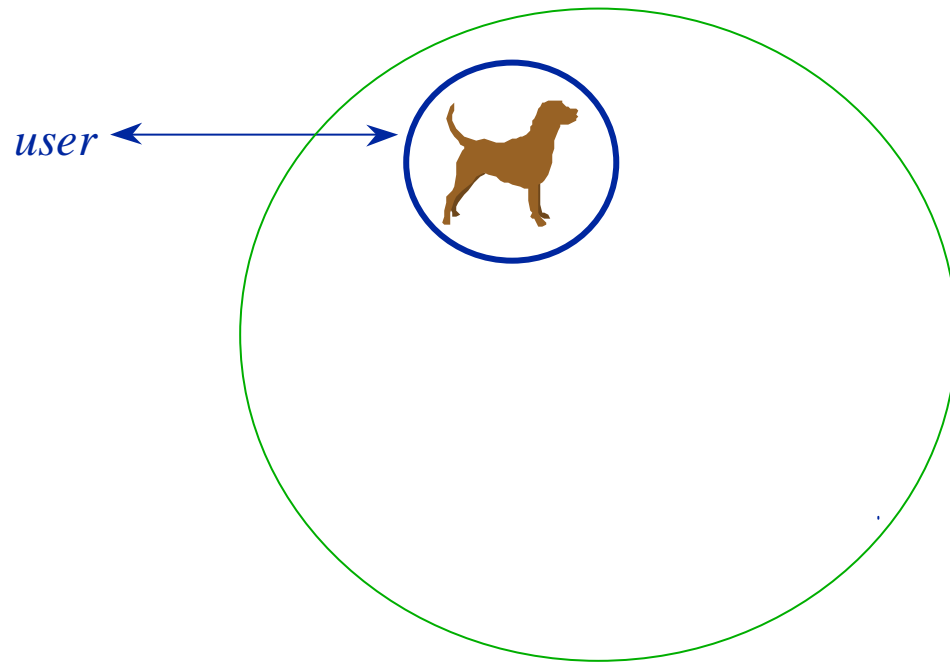
Security

- Authenticity
- Privacy
- Anonymity
- Delegation
- Non Repudiation

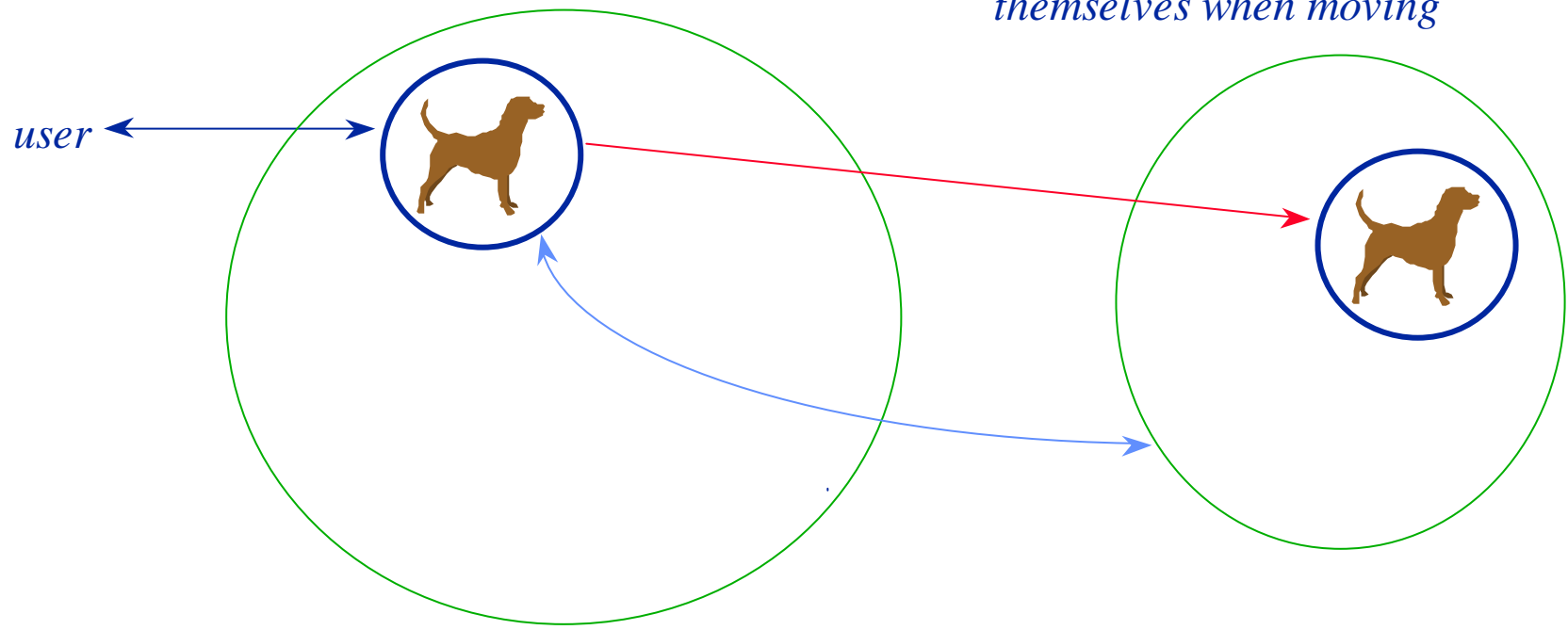


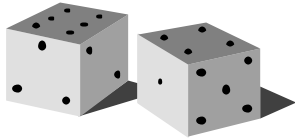


PUPs must be protected

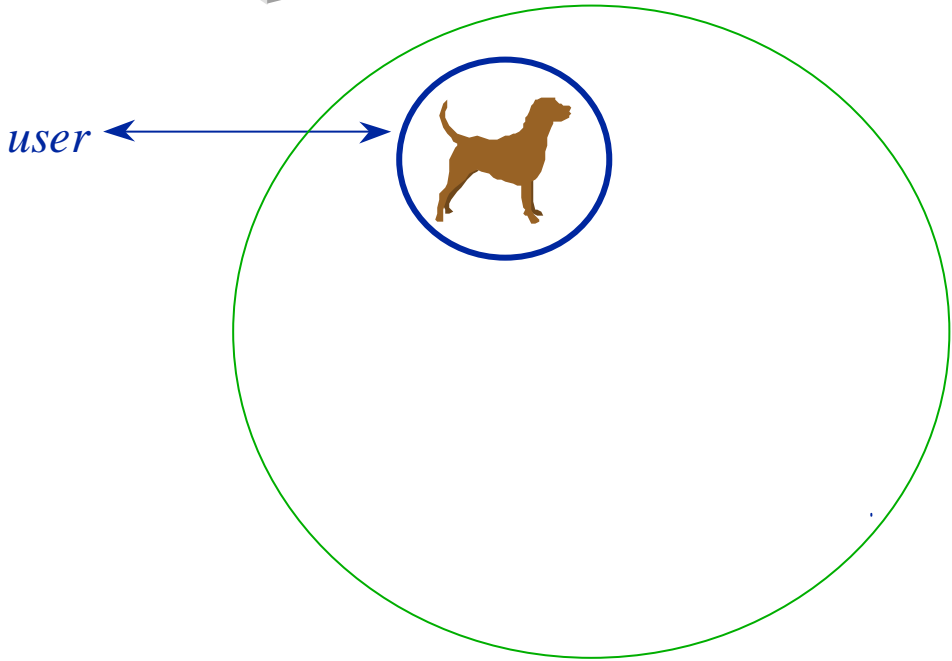


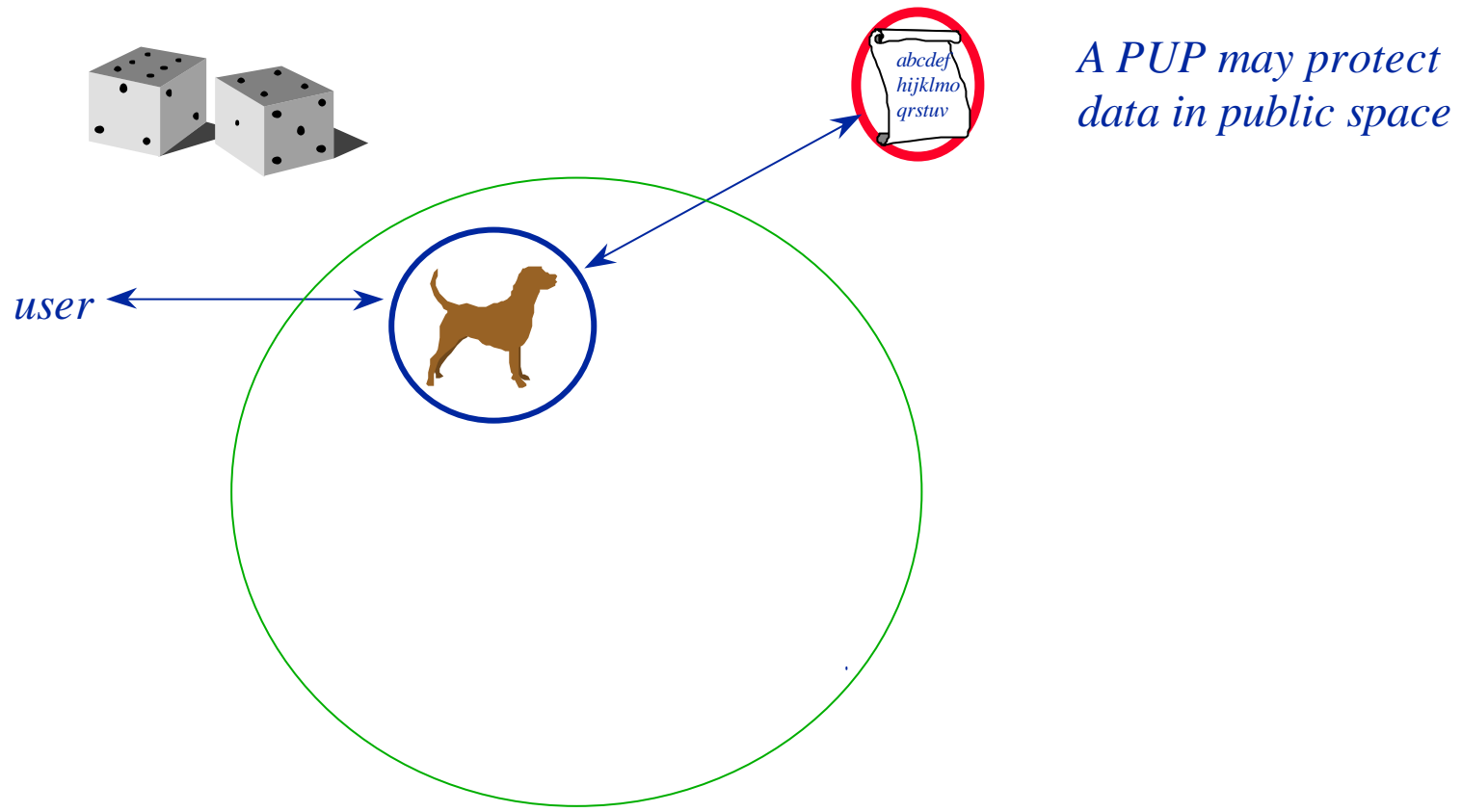
PUPs must be protect themselves when moving





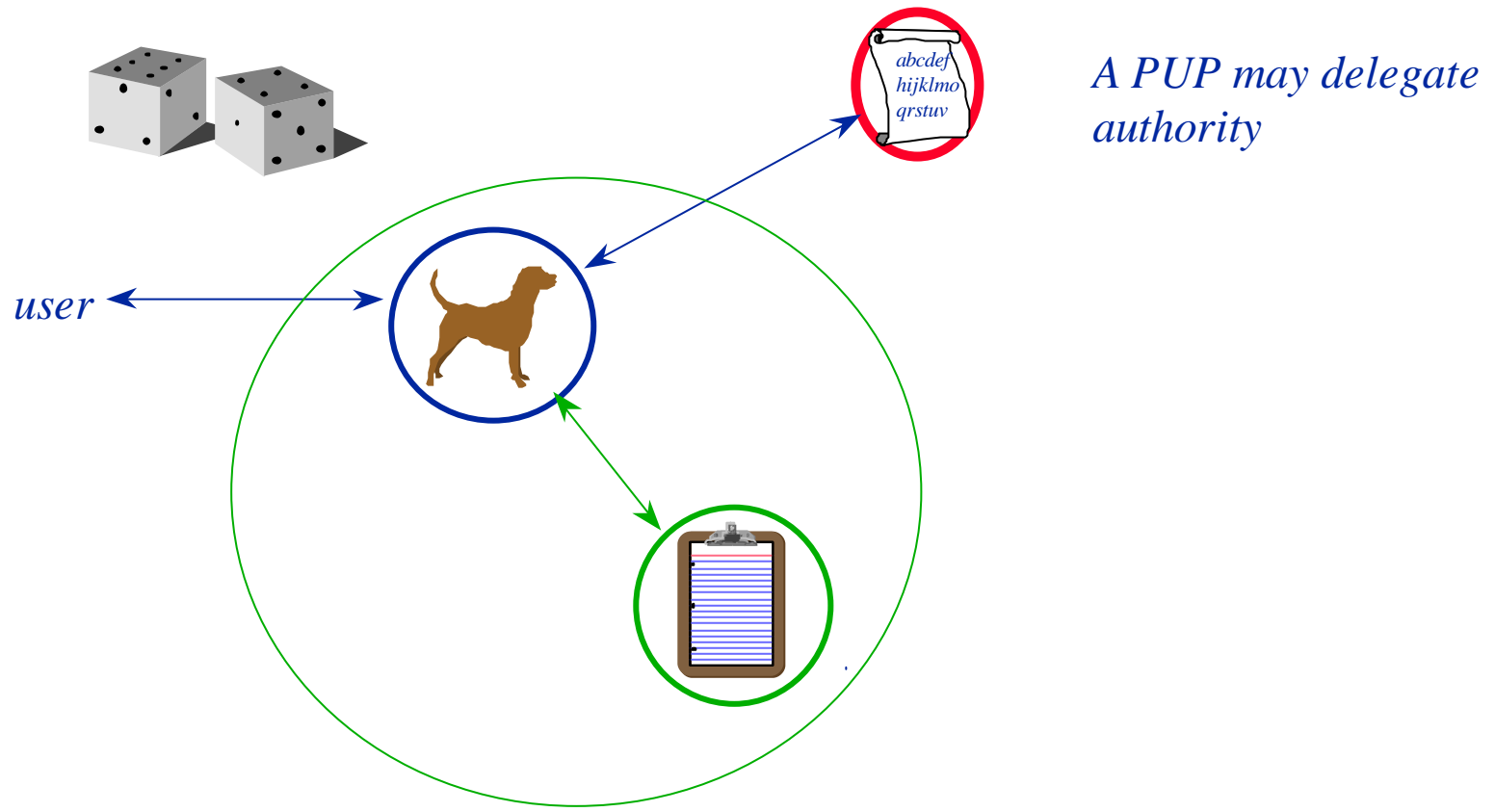
Users must be authenticated





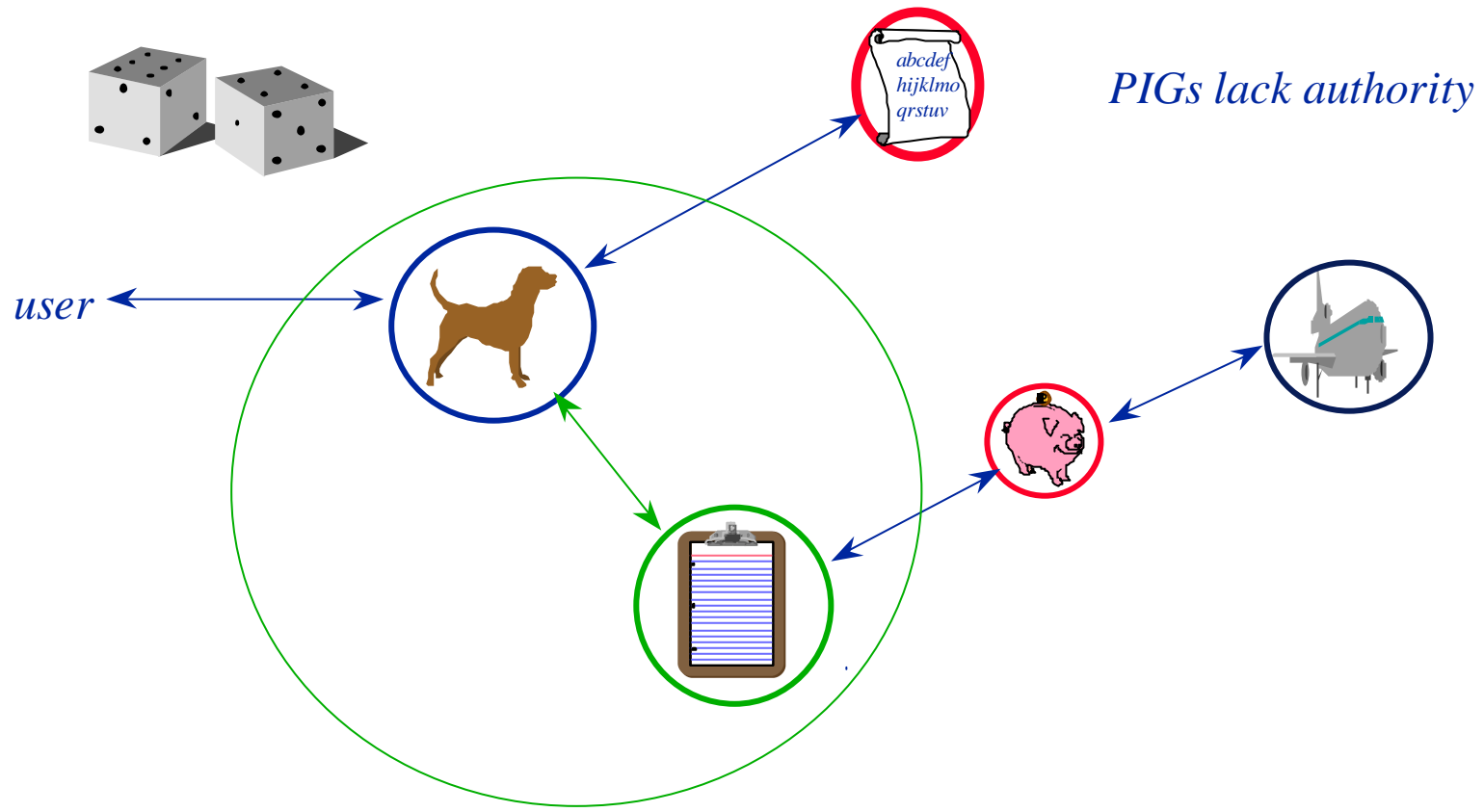
A PUP may protect data in public space

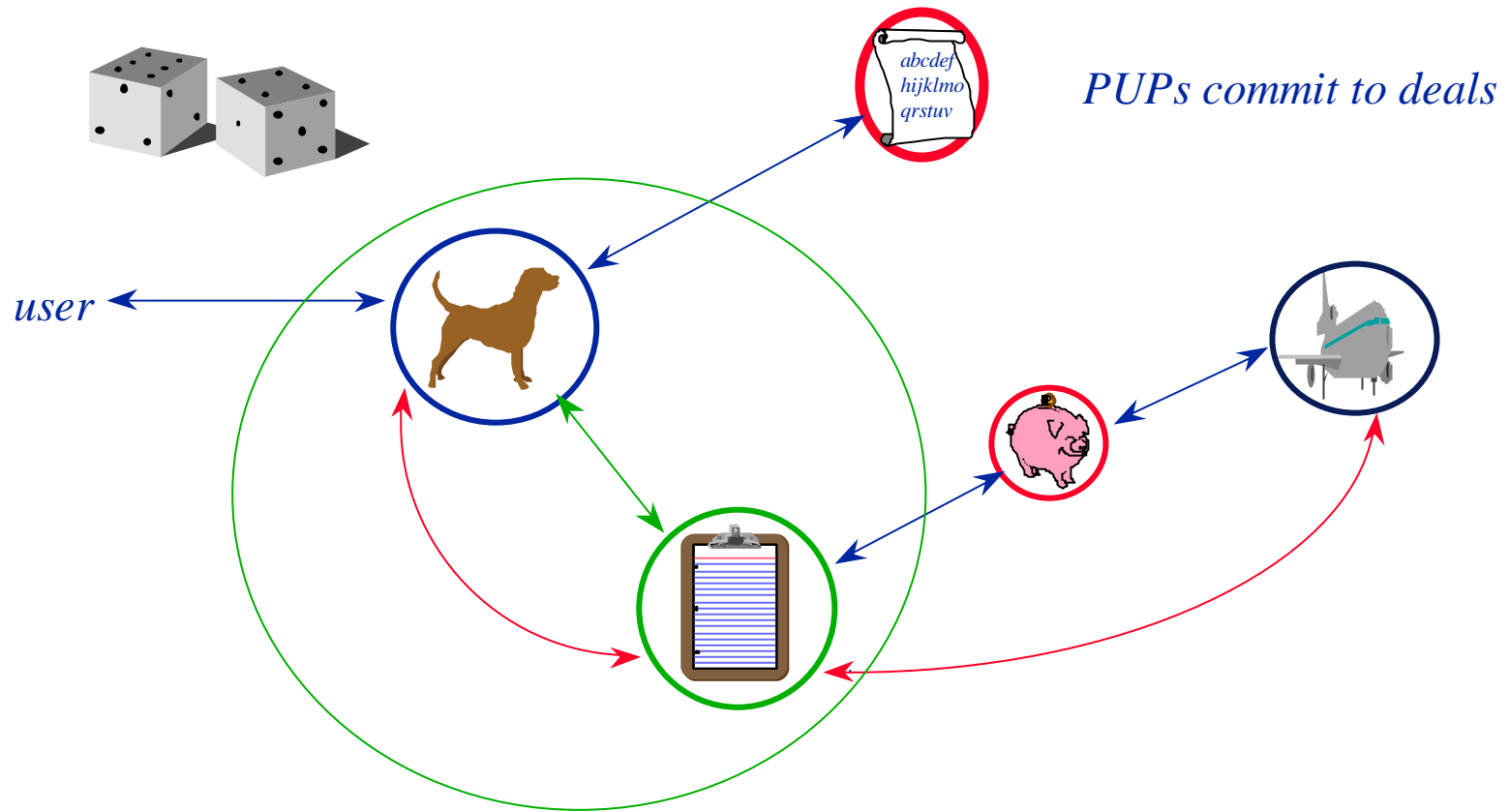


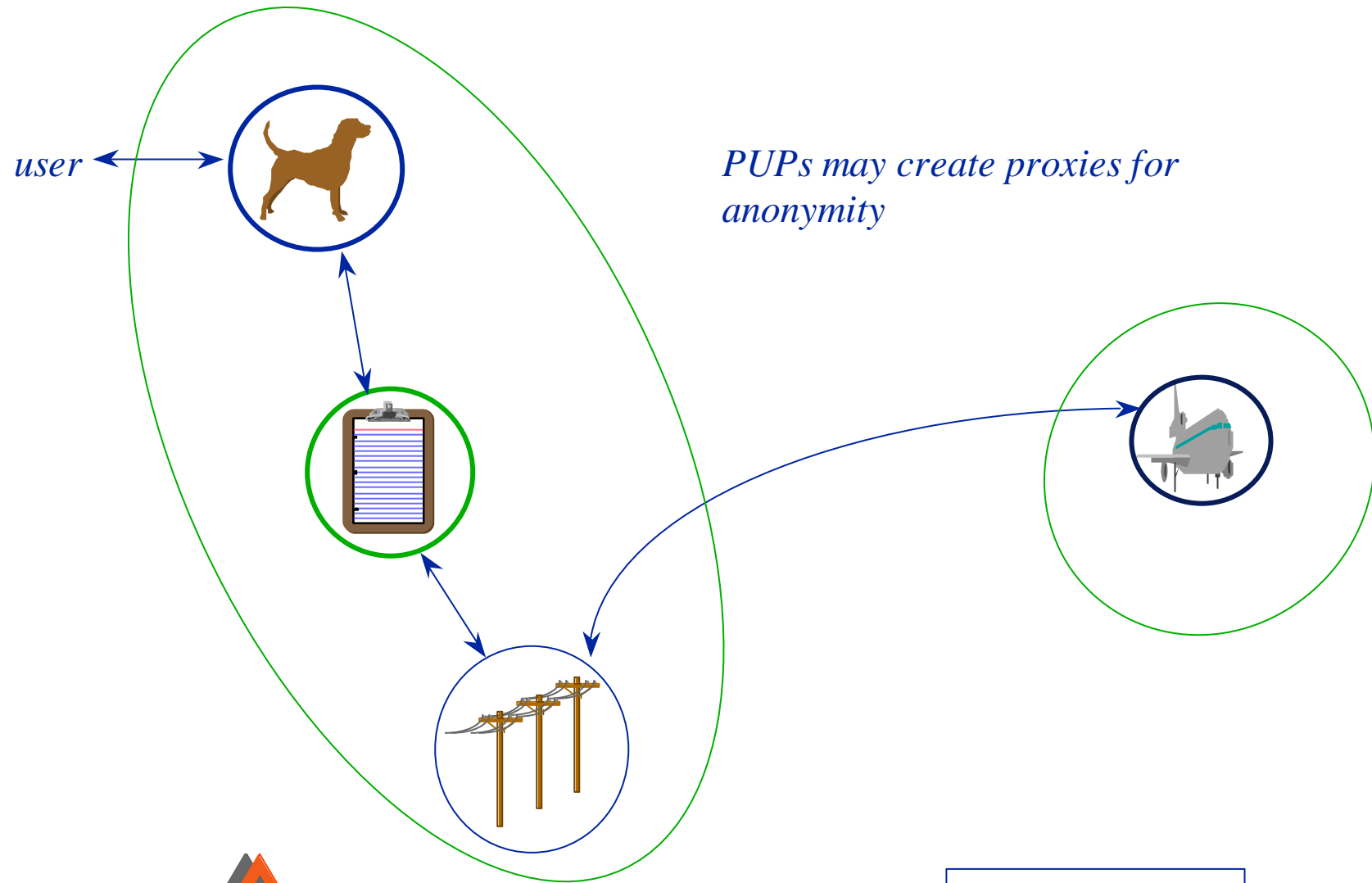


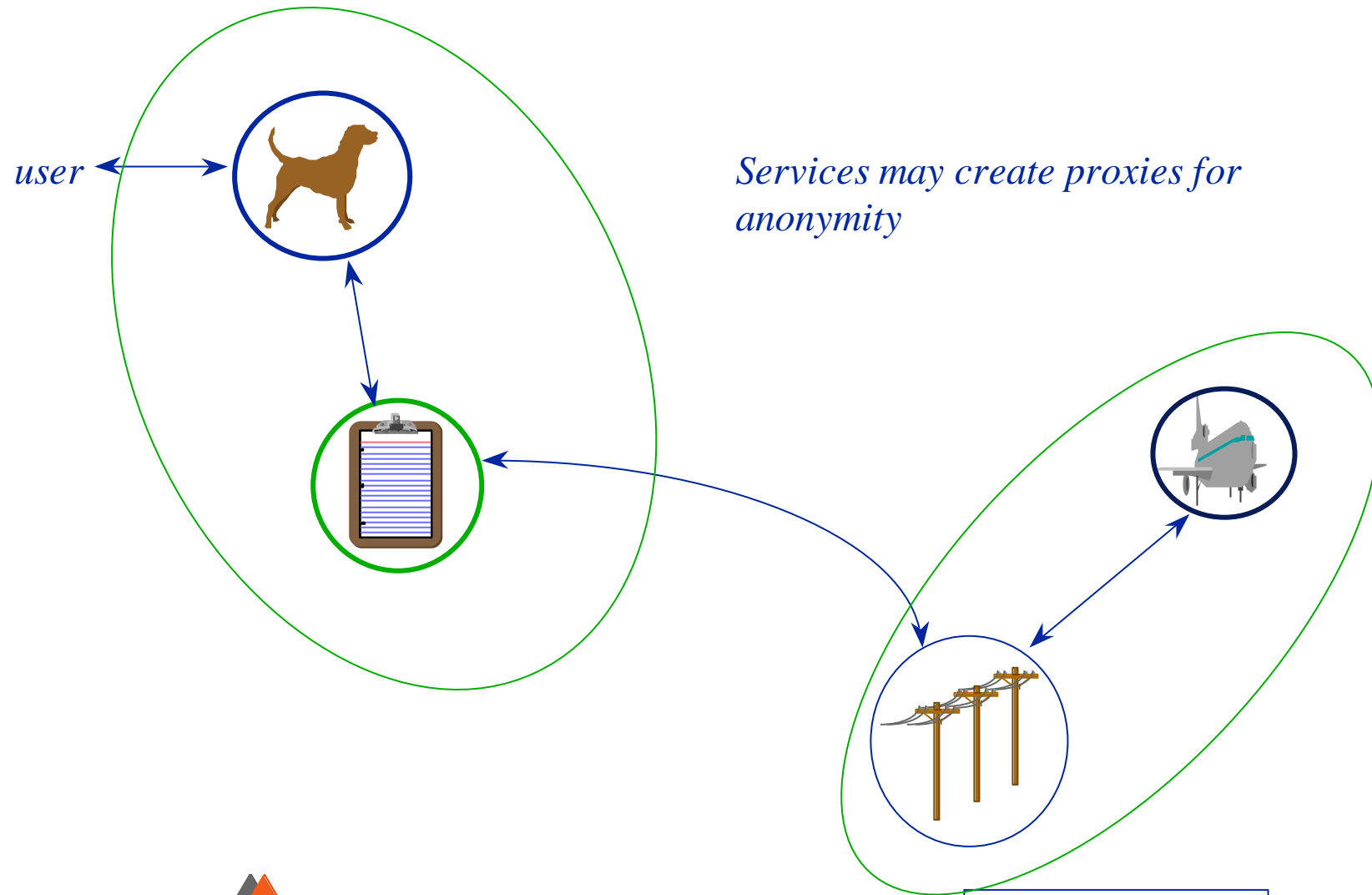
A PUP may delegate authority





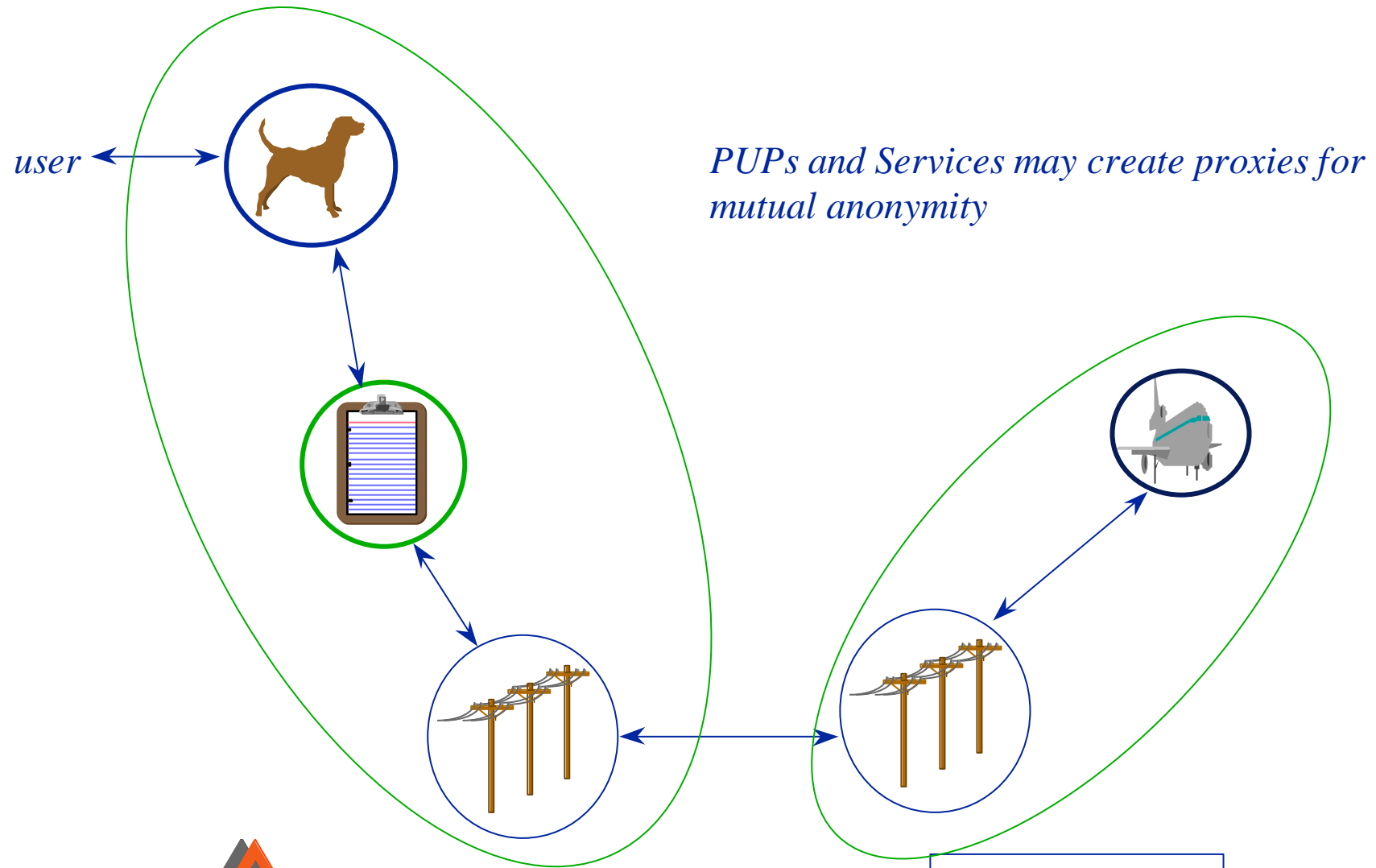






Services may create proxies for anonymity





PUPs and Services may create proxies for mutual anonymity



Authentication

- Users
 - Multiple Modalities
 - Scalable Risk
- PUPS
 - need to authenticate their location
- Services



Privacy

- PUPs internal data
 - need to protect PUPs from dissection
- User data space
 - not all user data is in a PUP
- Communication
 - User to PUP
 - PUP to TA, PIG & Service ...



Delegation & Non Repudiation

- PUPs may delegate authority to TA's
- Users cannot repudiate deals done by PUPs
- PUPs cannot repudiate deals done by TA's
- Service cannot repudiate deal offered



Questions

- Audit?
 - users, services, network providers
- Other notions of security?
- Do users want agents to have authority?
- Are agents actions legally binding?
- What happens at international boundaries?
- Are there valid, legal uses for double blind dealing?

