

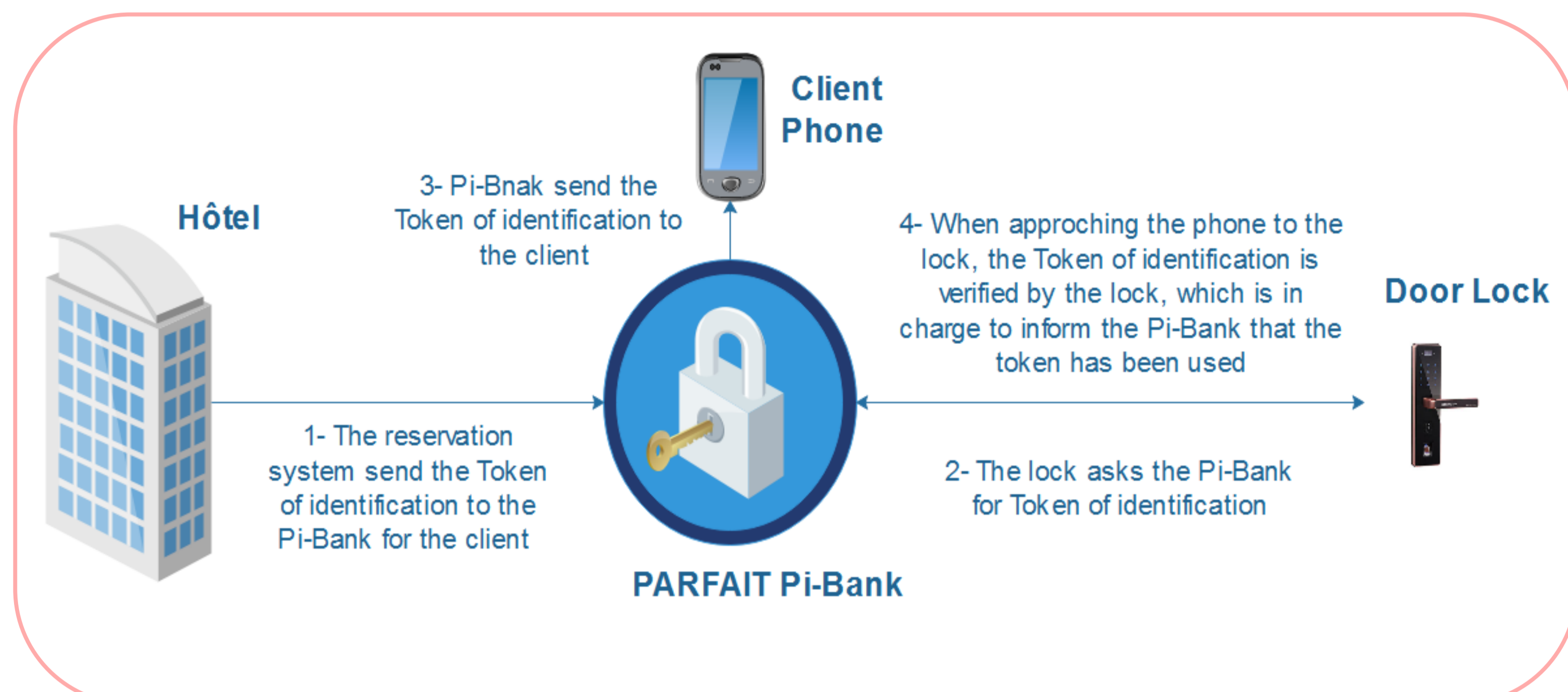
# Lightweight Security Platform for IoT: Smart hotel use case

Mehdi Nacer Kerkar, Maissa Dammak, Sidi-Mohammed Senouci, Dr. Mohamed Ayoub Messous

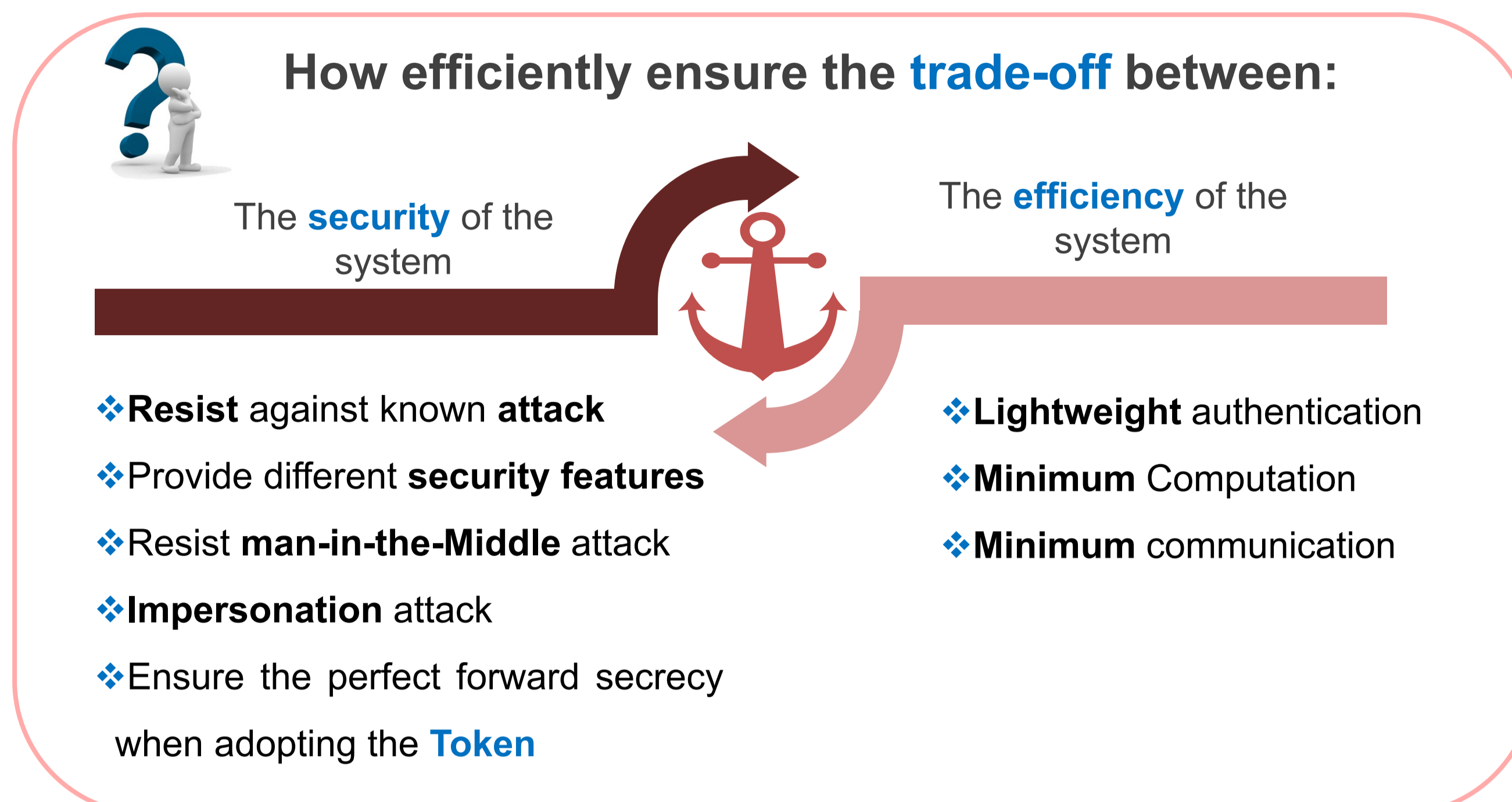
DRIVE Lab, Univ. Bourgogne Franche Comté, F58000, Nevers France

Email: mehdi.kerkar@tuta.io, {maissa.dammak, sidi-mohammed.senouci, Mohamed-ayoub.messous}@u-bourgogne.fr

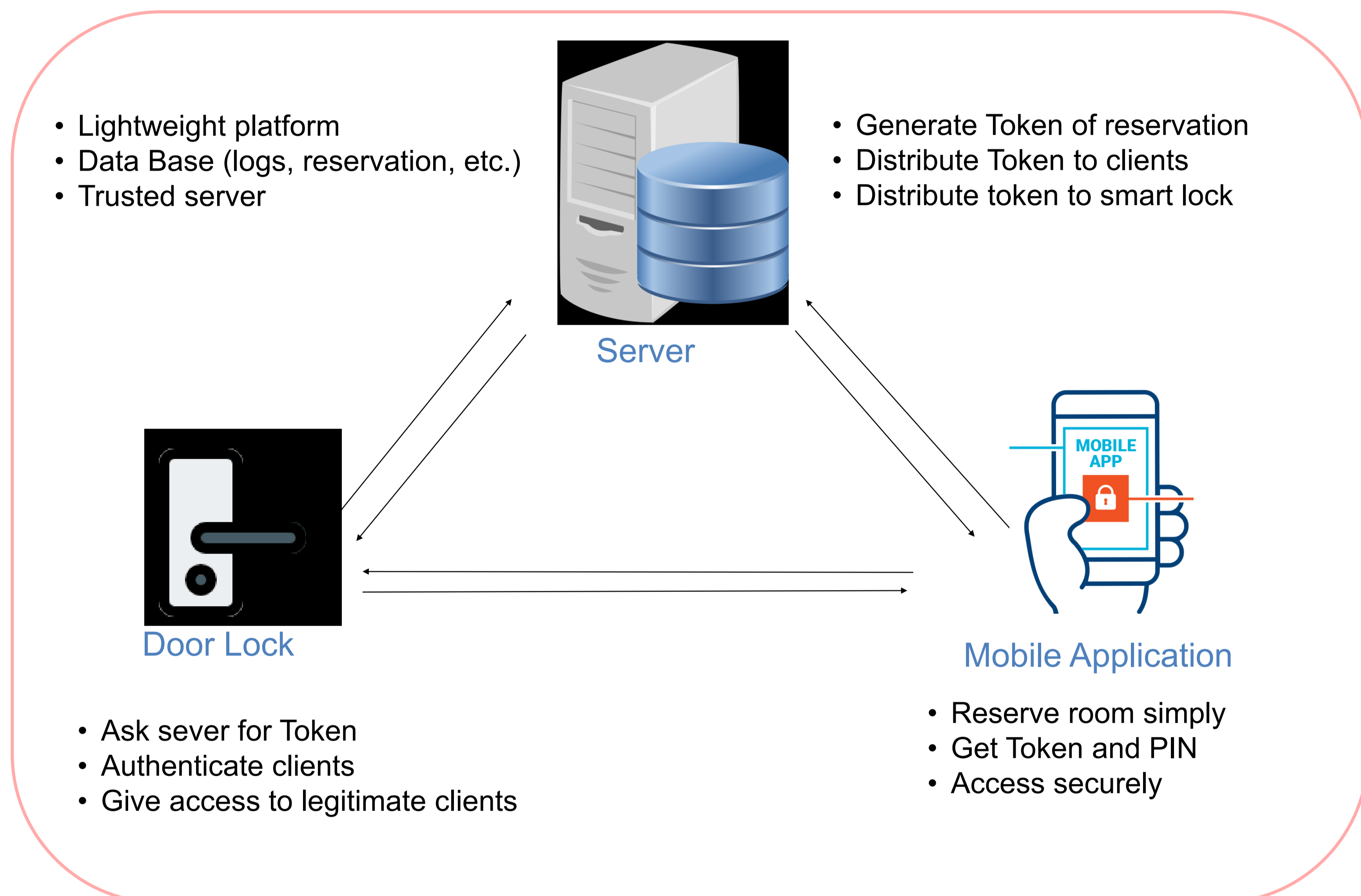
## Smart hotel use case



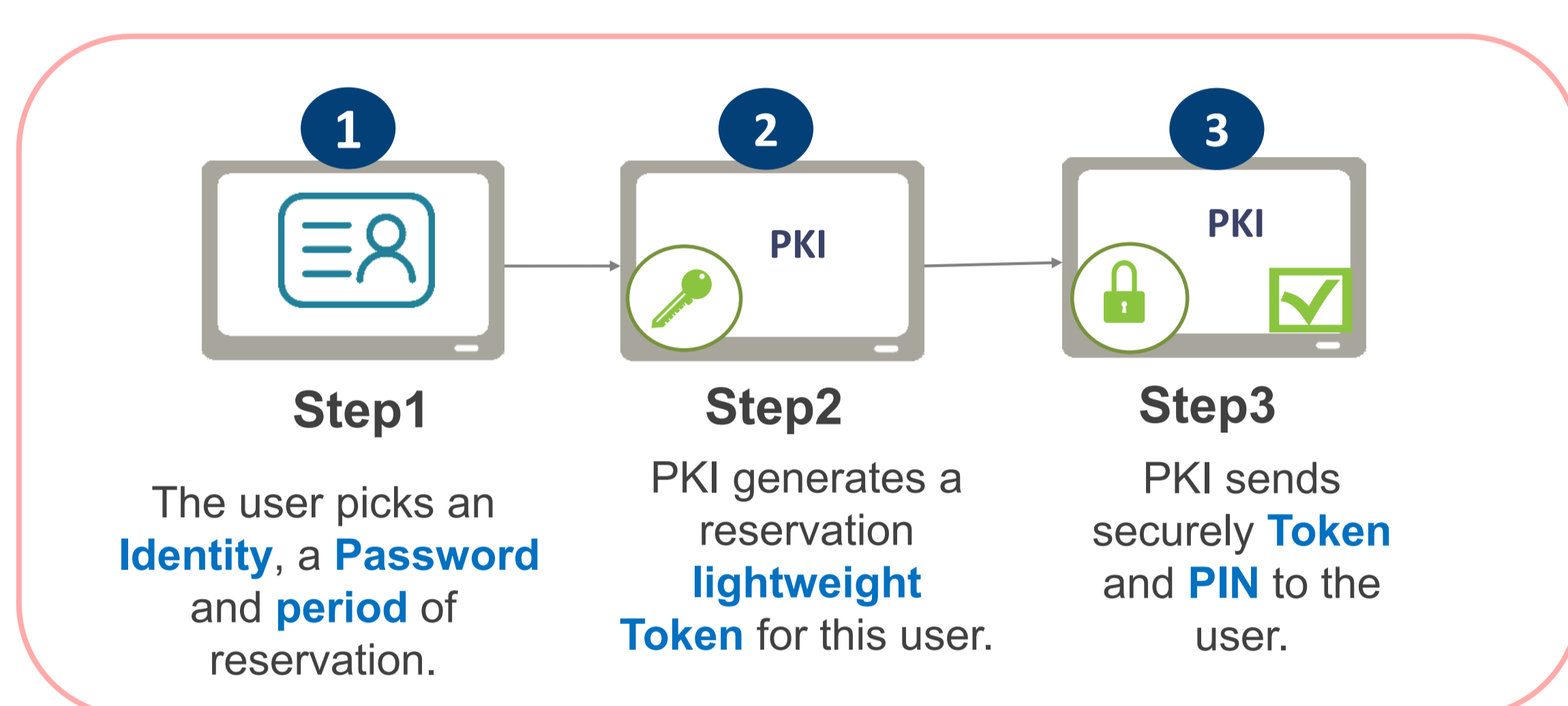
## Challenges



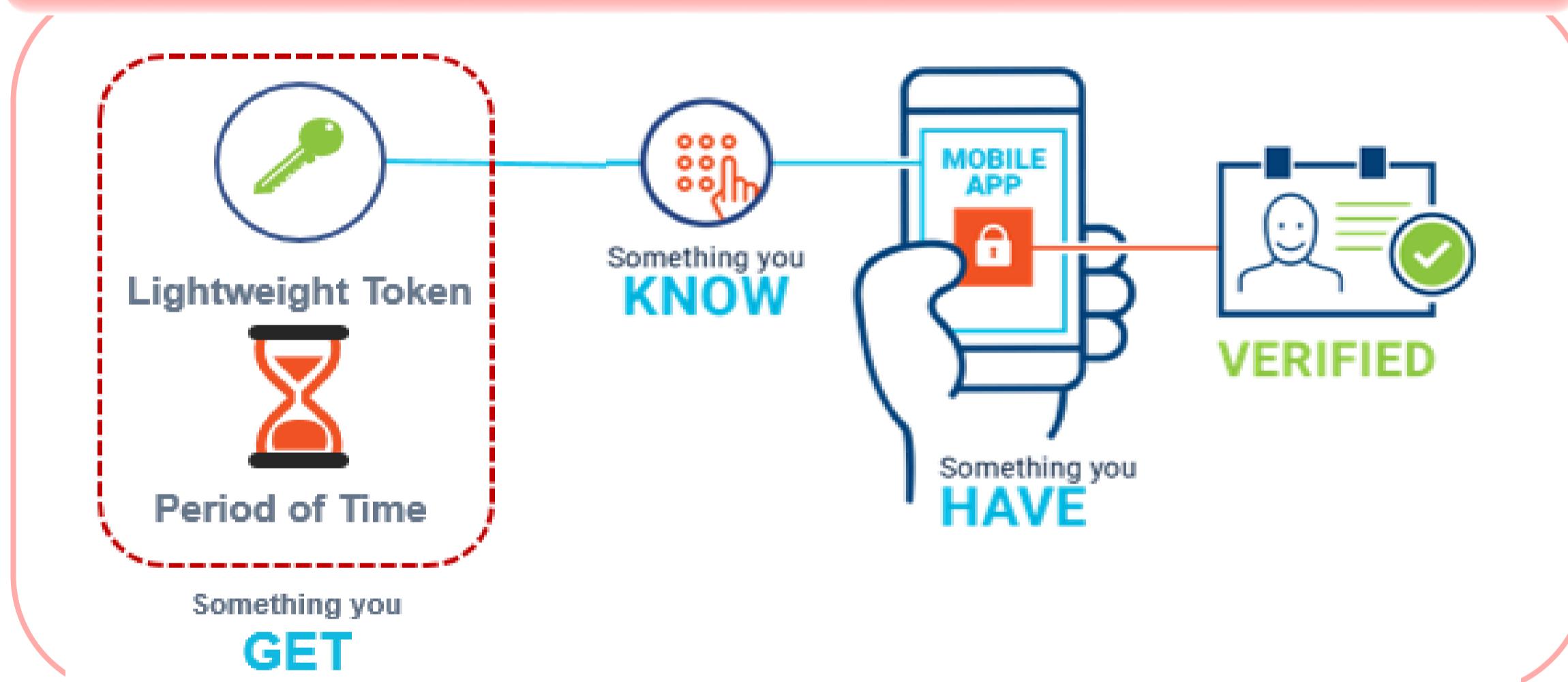
## Architecture



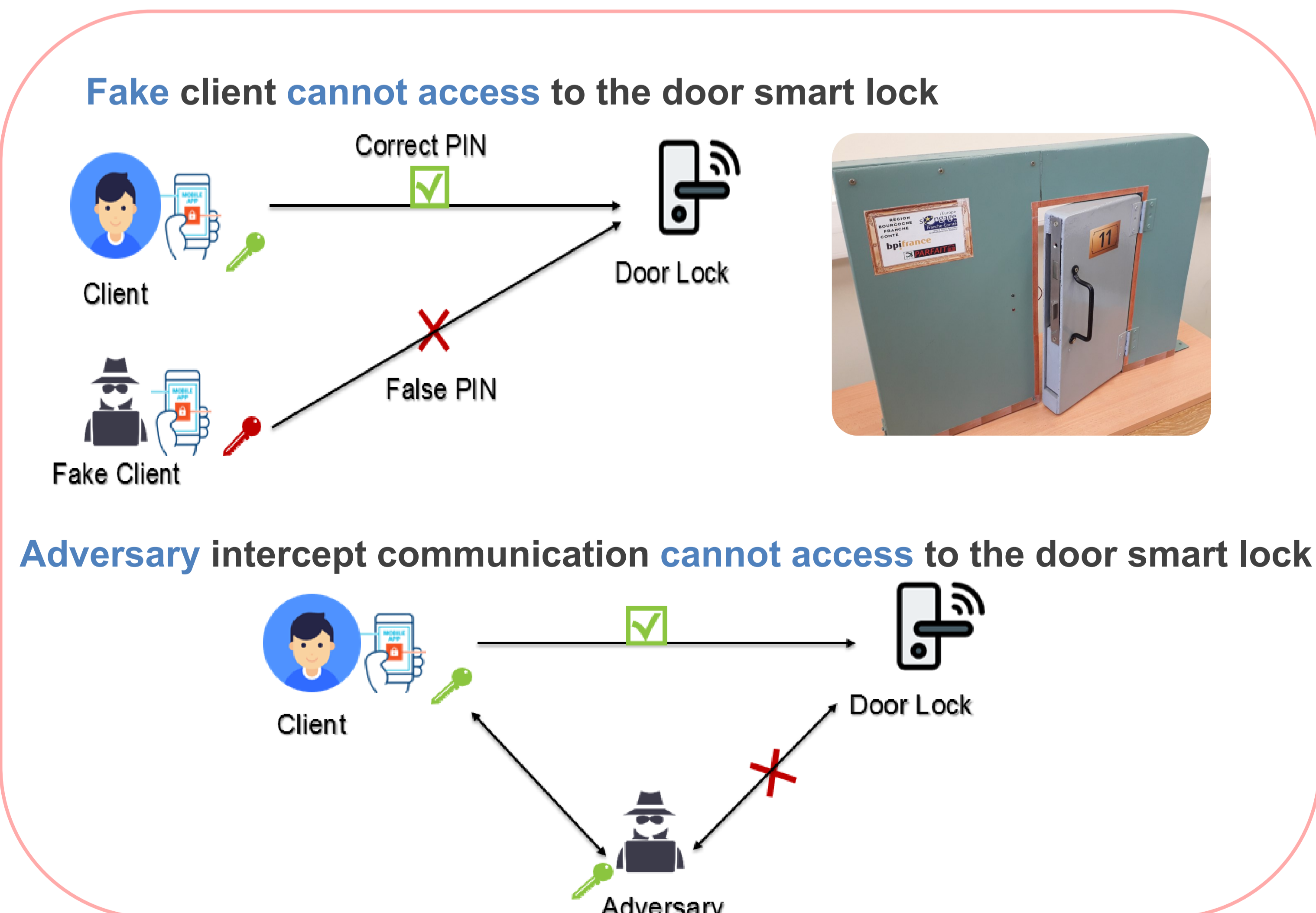
## Room Reservation



## Room Access



## Attack Scenario



## Defense Strategy



## Conclusion

- Easy reservation and access to rooms using your personal smartphone.
- The system is lightweight and ensures a secure communication among system entities.