The micro navigation/location revolution

2000-2010: The GPS revolution
- GPS/A-GPS
- 2G/3G NW
- Wifi
- House/building level accuracy
- Outdoor navigation

2010-2015: The start of indoor navigation
- Wifi
- BT/BTLE
- Shop/room level accuracy
- Indoor Navigation

2015- xxx: The micro location revolution
- 802.15.4-2011 (802.15.4a)
- Object level accuracy
- Accurate Indoor navigation
- Object tracking
- People tracking
Home automation based on user/object location

- Receivers/infrastructure
- Tracked items

Services:
- Light Control
- HVAC Control
- Fire Alarm
- TV/STB
- HiFi
- Alarm
- Door Lock
The secure bubble

Unlock laptop Anti-theft
Unlock mobile Anti-theft
Unlock Tablet Anti-theft

Accurate distance measurement + Anti-relay Attack = Secure Bubble

To secure valuables

For secure access

For secure payment

Bubble of Security
Authentication

To secure valuables

For secure access

For secure payment

Unlock tablet Anti-theft
Unlock mobile Anti-theft
Unlock laptop Anti-theft

Secure Bubble

Accurate distance measurement + Anti-relay Attack = Secure Bubble
Thank you