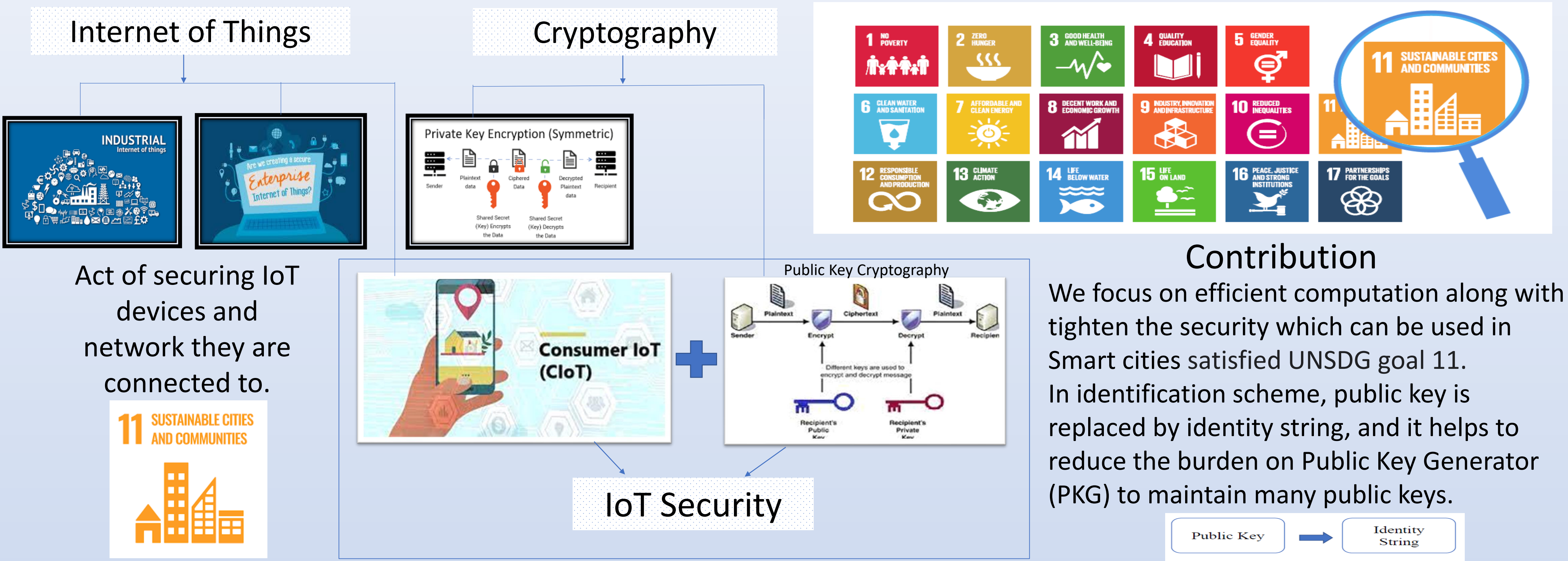


Identification Scheme For Constrained IoT Devices

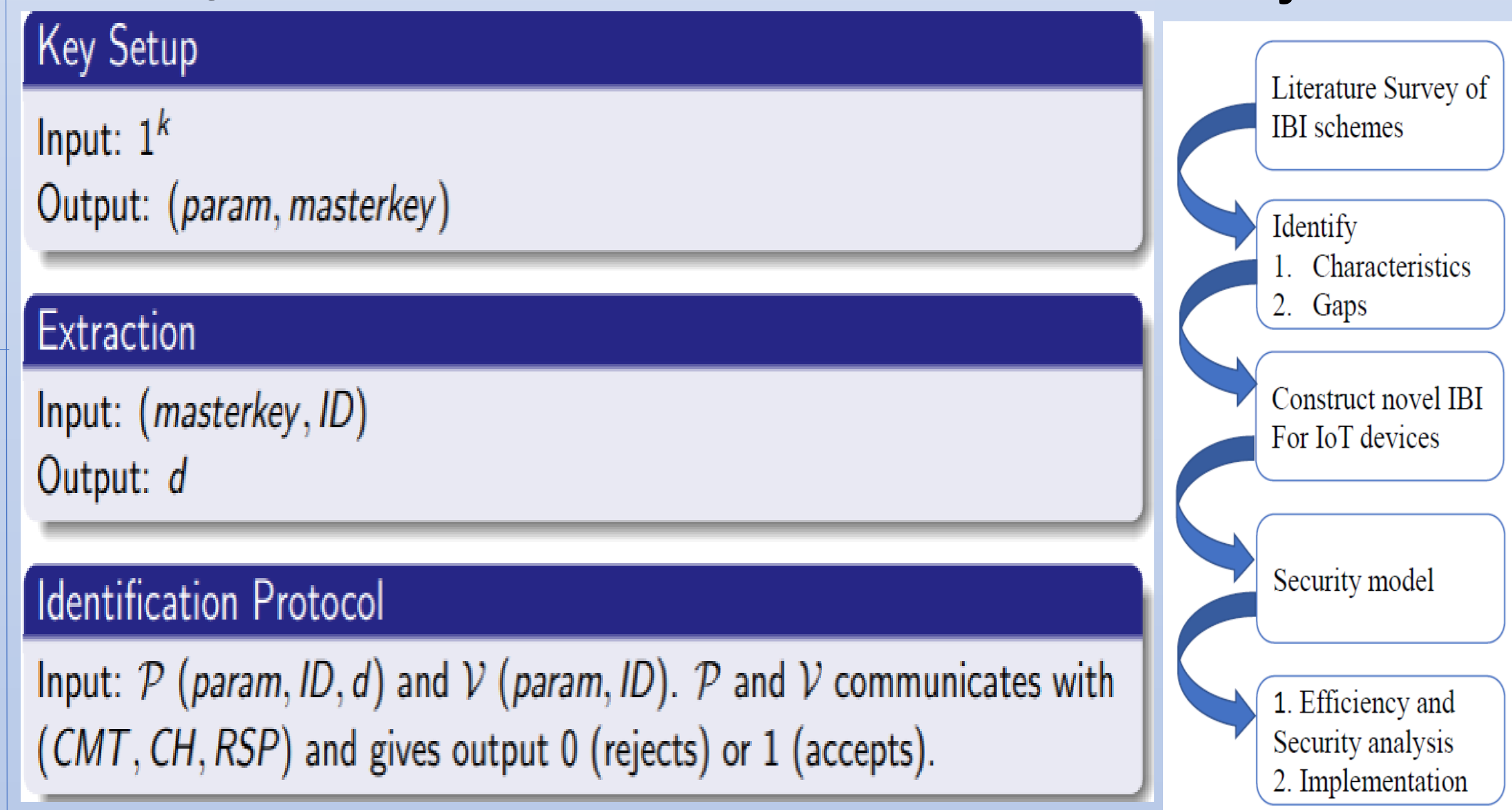
Presenter: Apurva Kiran Vangujar; Supervisor: Dr. Paolo Palmieri; Co-Supervisor: Dr. Dirk Pesch



Literature Survey Results

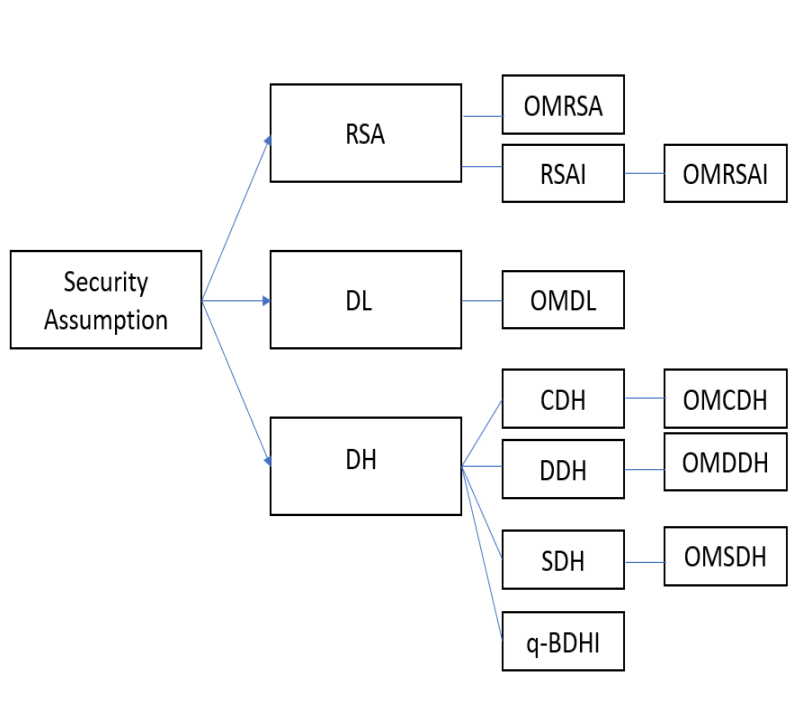
1. Our objective was to compare and contrast various IBI schemes based on various scheme assumptions in order to determine whether they could be used in IoT devices or not.
2. There is a high potential for applying CDH, DDH, and q-SDH assumptions in any type of IoT environment, including group, hierarchical, and so on.
3. As with DL, OMDL has an application in MANETS. A new scheme that is based on DL assumptions can be made and used to make MANETS more secure.

Identity-Based Identification (IBI) Scheme Objectives

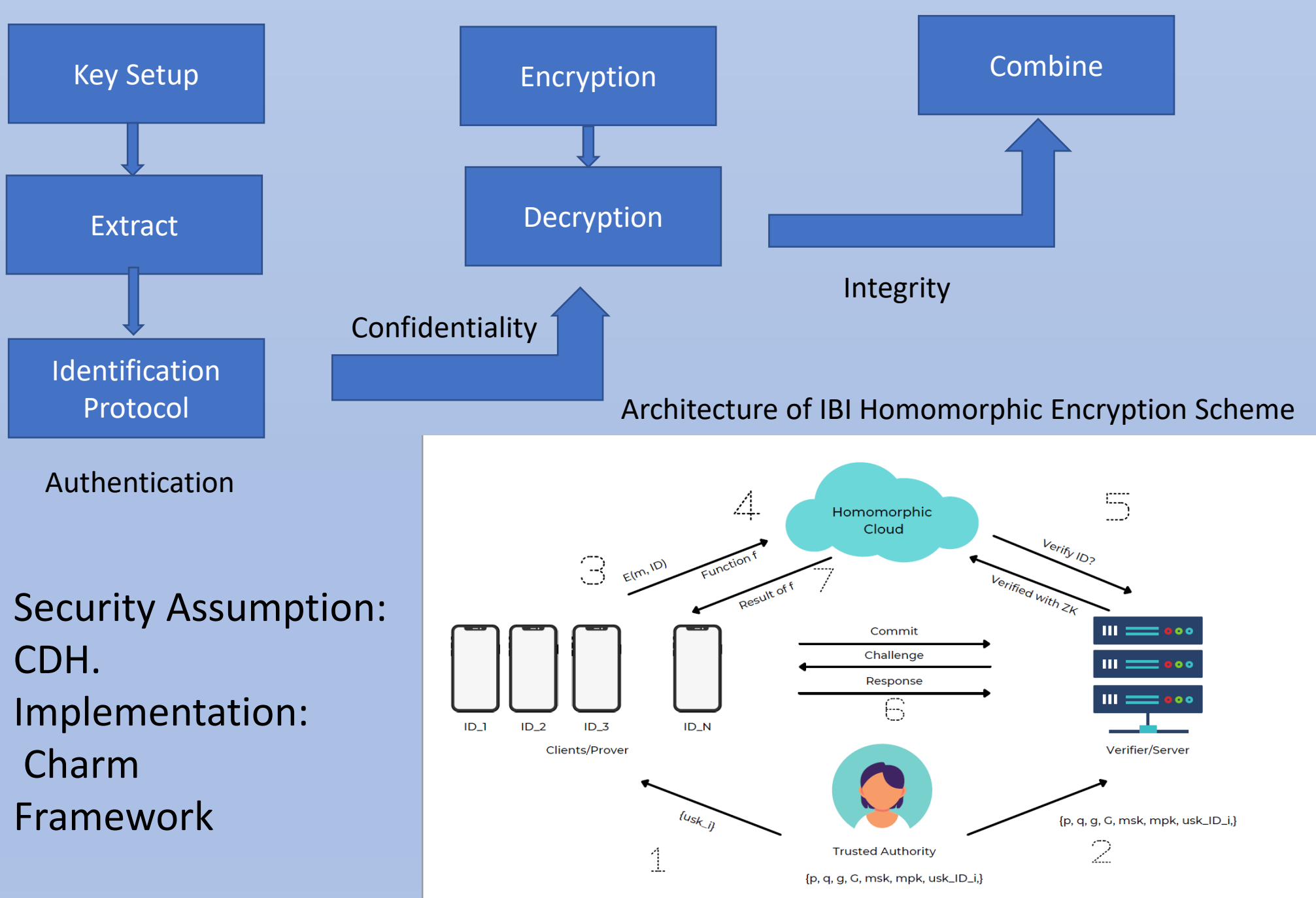


Motivation

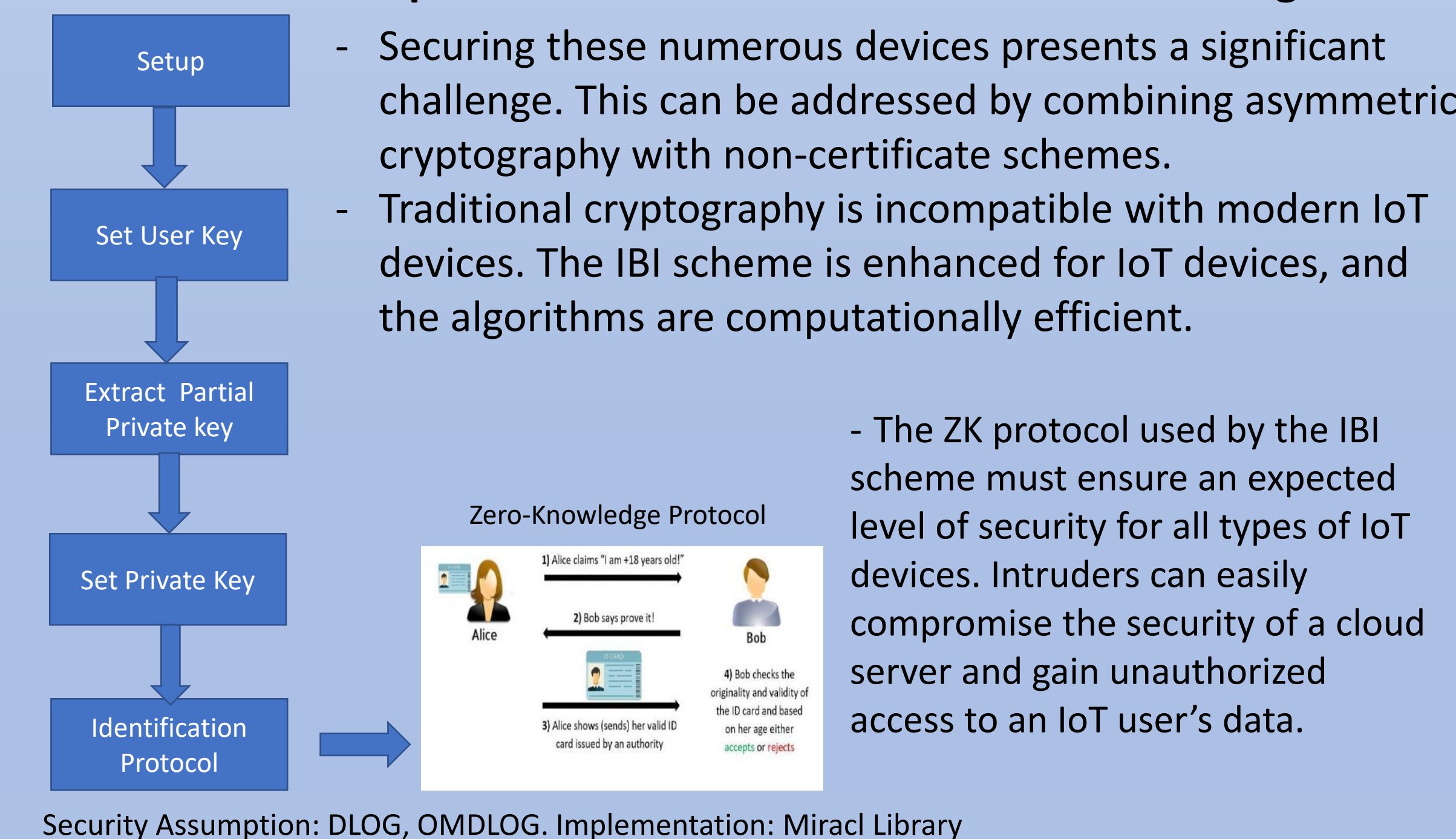
1. Our target is securing all IoT devices under **one roof**.
2. Multiple IoT devices focus on **tight security and more efficiency**
3. It **verifies** large number of IoT devices at a **one time**.



IBI Homomorphic Encryption Scheme



Certificateless Group Identification Scheme for Internet of Things



CONCLUSION

This project would be helpful to improve the smart cities security. Our objective was to compare various IBI schemes based on various scheme assumptions in order to determine whether they could be used in IoT devices or not. There is a great deal of work that can be done to extend the IBI scheme's application to the IoT. This way, most of the benefits of the IBI scheme can be kept for IoT devices and their communication