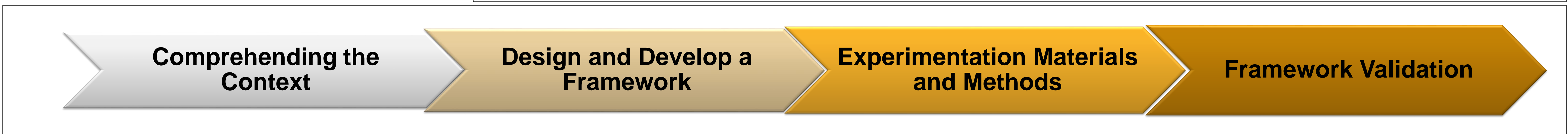


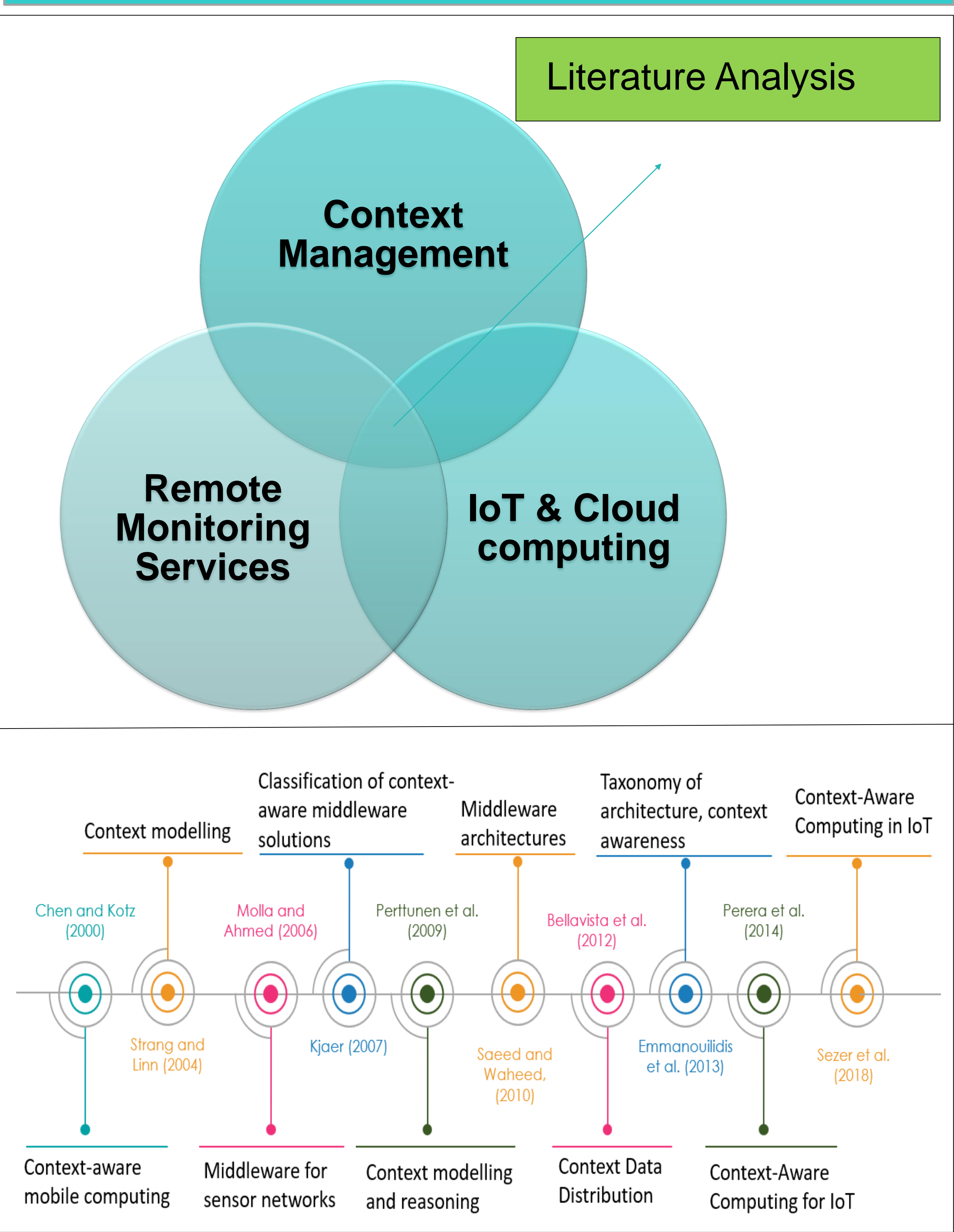
1- Introduction

The fast evolution of technologies associated with the deeper penetration of IoT in industry creates significant opportunities but also introduces challenges for monitoring service. However, although it offers many benefits and holds many promises, substantial effort is required to manage and exploit the data generated by things. Among the key instruments to tackle such complexity is the concept of context information management.

2- Project Aim	3- Project Objectives
The aim of this research is to design and develop a context-aware framework for the integration of IoT and Cloud computing for remote monitoring services.	1- To define the factors contributing to context acquisition, modelling, reasoning and dissemination for IoT-enabled remote monitoring services. 2- To develop a framework and a context-aware monitoring architecture for employing IoT and cloud computing to address monitoring service challenges. 3- To validate the proposed framework through experiments, case study, and expert judgment.
4- Research Methodology	



5- Literature Review



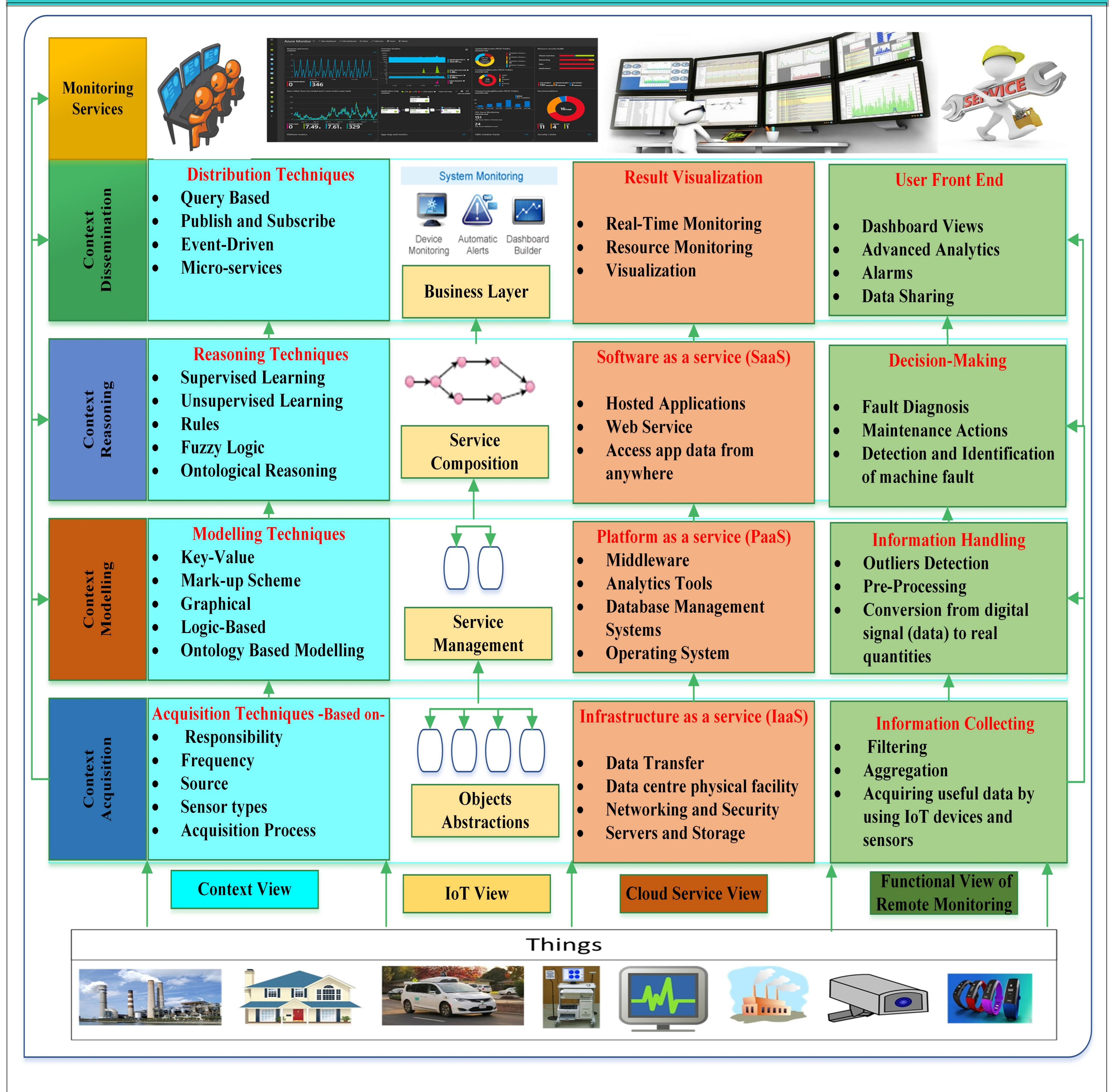
7- Research Gaps

- ❖ While substantial research efforts have been devoted to context lifecycle management in IoT-enabled computing, little attention has been given to translate these advances to tangible progress in remote monitoring services.
- ❖ Recent research has presented several solutions that are used in specific scenarios, therefore, difficult to apply in other situations.

9- References

- ❖ Perera, C., Zaslavsky, A., Christen, P. and Georgakopoulos, D. (2014) 'Context Aware Computing for The Internet of Things', IEEE Communications Surveys & Tutorials, 16(1), pp. 414–454.
- ❖ Al-Fuqaha, Ala. Guizani, Mohsen. Mohammadi, Mehdi. Aledhari, Mohammed. Ayyash, M. (2015) 'A survey on Internet of Things', IEEE Communication Surveys & Tutorials, 17, No 4.

6- Initial Framework



8- Conclusions

- ❖ The integration of context management in the development of remote monitoring services is vital and important for handling some of the well known Big Data 'V' Challenges (Volume, Veracity, Variety), and incorporate both data and domain knowledge.
- ❖ This framework will directly help companies to leverage the value of IoT and Big Data to provide new maintenance services capabilities.

