Wk 4 Reading Summaries

Investigating the Role of Supply Chain Management in Electronic Commerce by Shahrzad Eftekharmanavi1,Ebrahim SafaeiKvishaei2,Esmaeil Shad

- Engineering design and manufacturing operations alone are not enough to improve market share. Smooth flow of materials and information through an effective supply chain management are equally important.
- The role of Information systems in effectively managing the supply chain process: Advances in IT have helped rapid flow of information between customers and suppliers, which has led to more efficient and effective supply chains. It is important for companies to consider how IT impacts the supply chain and use it strategically to gain competitive edge.

Intelligent services for Big Data science by C. Dobre a,*, F. Xhafa b

- Data intensive as the new trend
  -First, vast amounts of data are becoming available in more and more application areas.
  -Second, the infrastructures allowing us to persistently store these data for sharing and processing are becoming a reality
- Challenges industry faced: harvesting the data from the mass data generated.
- Smart City applications are context-based and event-driven, which means that they react to new events and context changes
- Context-aware platform requirements
  - Mobility and locally- users are mobile, context are location dependent
  - Proximity: as the amount of data is too large, most relevant context data need to be carefully selected
  - Real-time data guarantee
  - Dealing with offline challenge
  - Efficient data storage & access, storage, speed and availability of mass data
- Traditionally, sensors play as the major role of data collection. However, mobile devices are carrying more and more weights on data collecting for not only smart city but all sorts of IoT services.
- In the case of event-driven and context-driven applications, which rely on the sharing of large amounts of data continuously and at a fast rate, cloud computing and the use of APIs play a very important role. Cloud computing provides a low cost solution to handling large amounts of data, and APIs provide improved transport protocols and easier access to resources.
- Proposed CAPIM's system architecture(picture next page)
  - (1) collecting context information
  - (2) storing and aggre- gation of context information
  - (3) construction of context-aware execution rules
  - (4) visualization and user interaction

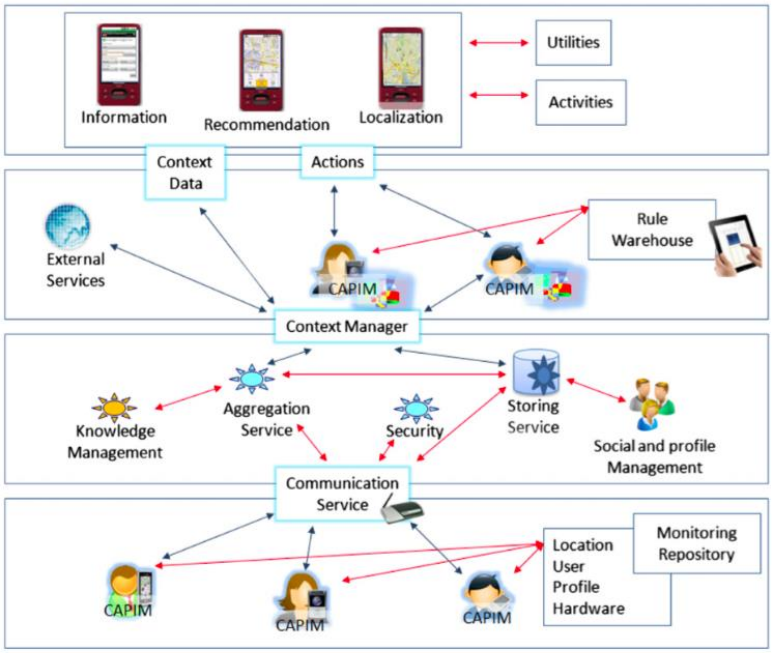

Fig. 2. CAPIM's architecture.