

# Lesson 1

Key Terms- Key Terms- Industry 4.0, Application,  
Service and Business Process

# Application

- Software of applications such tracking a parcel or managing a supply chain
- Application called app when software for the application in the device whenever only one specific task is executed following user interaction(s)
- Example, software for creating and sending an SMS
- Measuring and sending the measured data
- Receiving message from a specified sender.

# Service

- Service means a mechanism, which enables the provisioning of access to one or more capabilities
- An interface for a service provides the access to the capabilities. The access to each capability is consistent with the constraints and policies, which a *service description* specifies.
- Service is be advertised or discovered
- The service binds by an SLA

# Business intelligence (BI)

- A process that enables a business service to extract new facts and knowledge, and then undertake the better decisions
- New facts and knowledge follow from the earlier results of data processing, aggregation and then analysing those results

# Business process (BP)

- An activity or series of activities or a collection of inter-related structured activities, tasks or processes
- A BP serves a particular goal or specific result or service or product
- The BP is a representation or process matrix or flowchart of a sequence of activities with interleaving decision points

# Business Processes (BPs) Integration

- BPs integration is integration of BPs to reduce the complexity, communication costs
- Get faster responses
- Smaller processing load at the central BP system, for example in an enterprise system

# Industry 4.0

- Refers to a collective term embracing a number of contemporary automation, data exchange and manufacturing technologies. (Wikipedia)
- It is the vision of tomorrow's manufacturing deploying intelligent factories, machines, raw materials, and products in which Internet plays a vital role

# Industry 4.0 Definitions

- It is the ‘fourth industrial revolution’ with use of Cyber Physical Production System (CPPS), merger of virtual and real world
- It is the intelligent solutions for connected manufacturing.

# Summary

We learnt key terms such as

- Application
- App
- Service
- Business intelligence
- Business Process and Business processes integration
- Industry 4.0

End of Lesson 1 on  
Key Terms- Industry 4.0, Application, Service and  
Business Process