Cloud Collaborative Manufacturing Networks

(SMECluster Event 4, 16th Nov. 2017, Bridgend)

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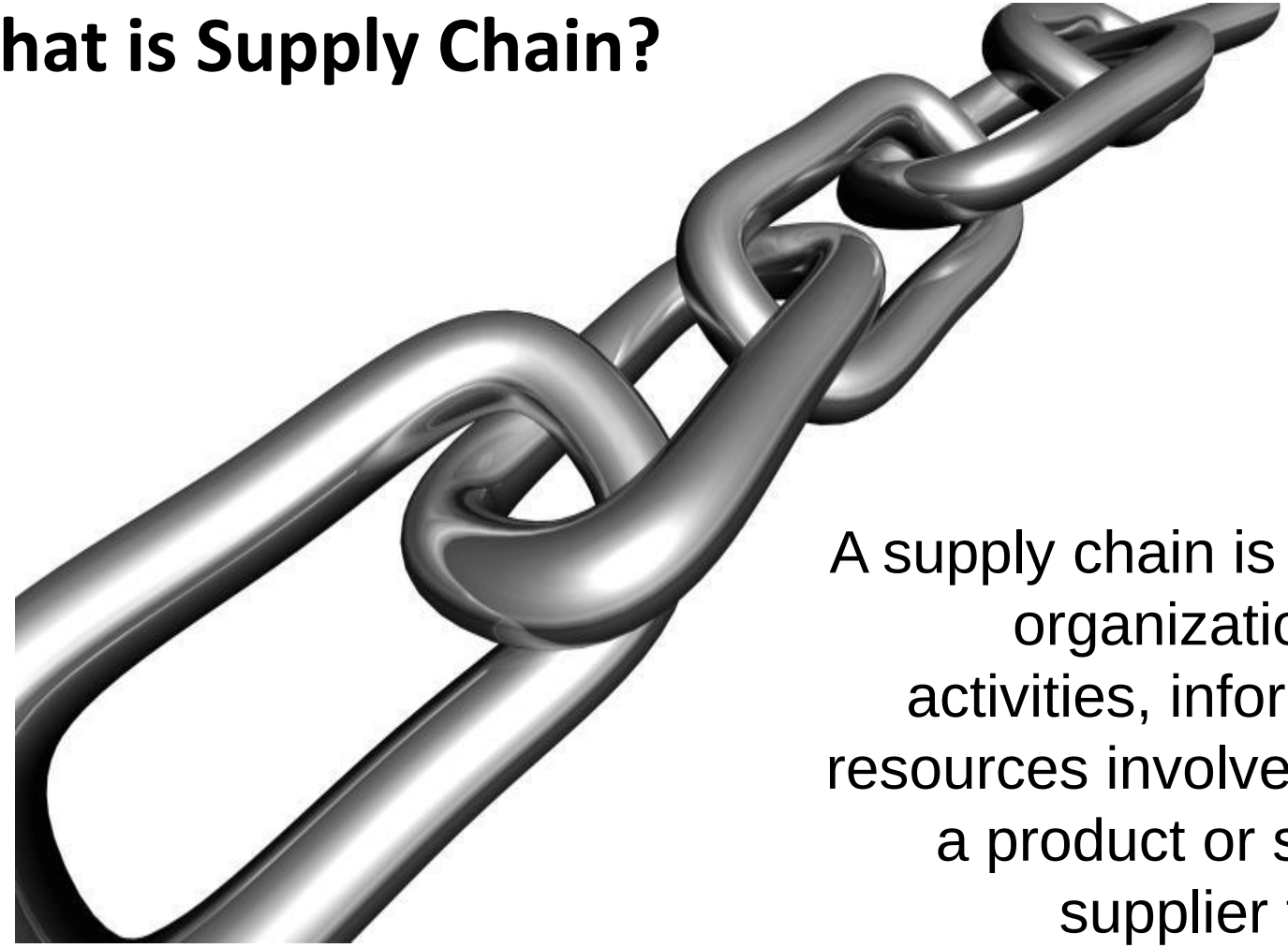
Supply Chain

What is Supply Chain?

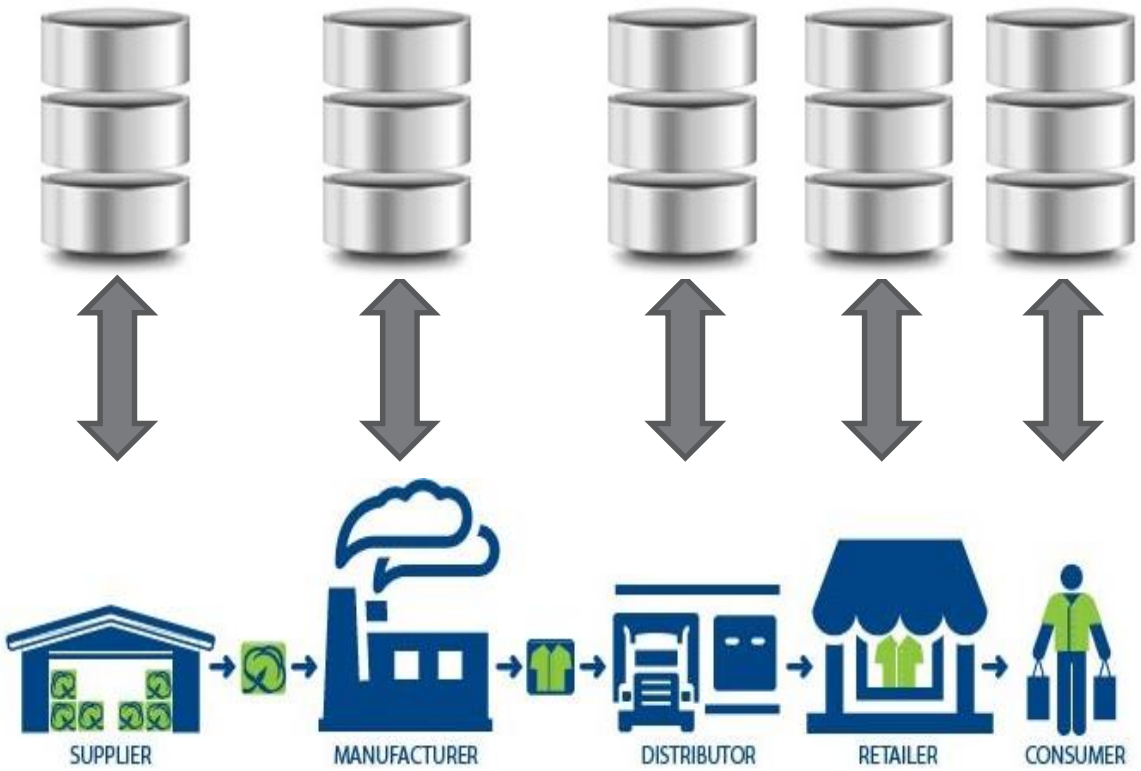


WIKIPEDIA
The Free Encyclopedia

A supply chain is a system of organizations, people, activities, information, and resources involved in moving a product or service from supplier to customer

Traditional Supply Chain Model

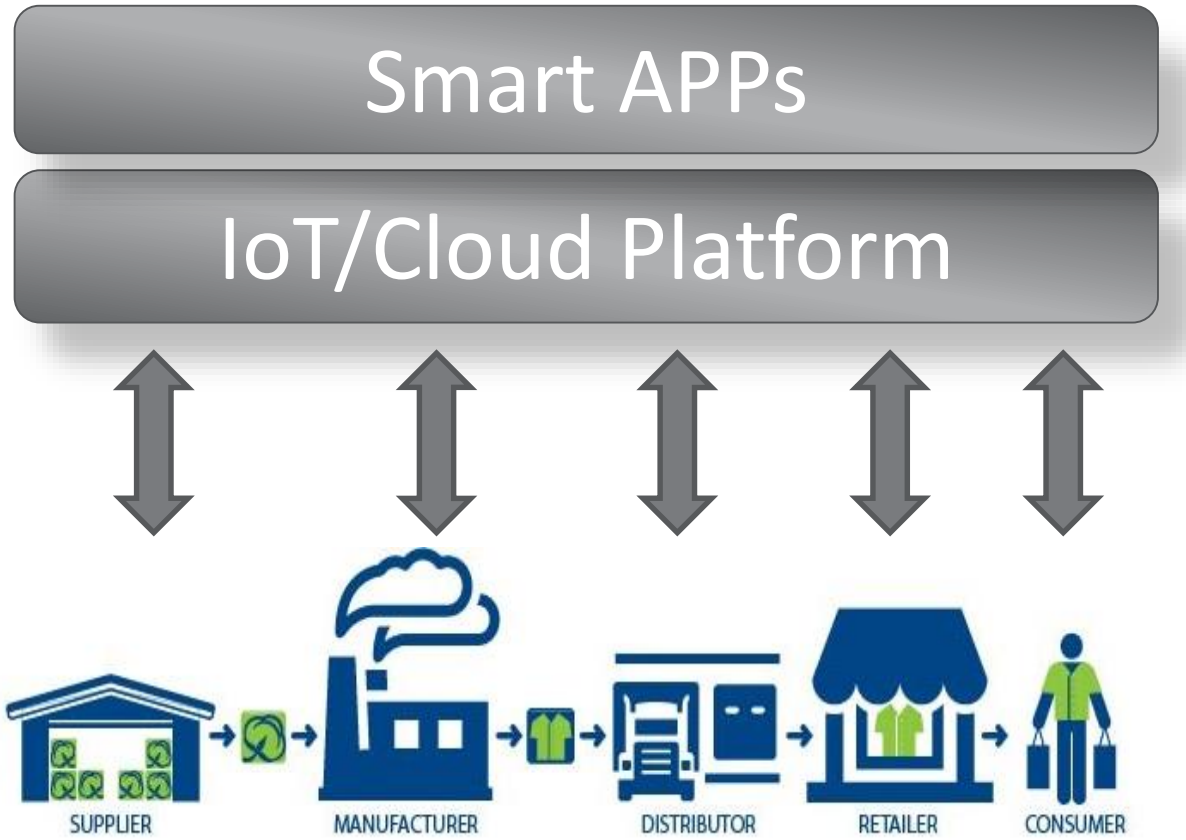
Traditional Supply Chain Model



- × Information is stored in silos
- × Bilateral communication
- × No collaboration among stakeholders

Smart Supply Chain Model

Smart Supply Chain Model



- ✓ Context information (IoT, Legacy, …).
- ✓ Information shared
- ✓ Collaboration is fostered
- ✓ Improvement in productivity
- ✓ Optimisation of the end-to-end supply chain processes
- ✓ Cost savings

Collaborative Manufacturing Networks

An example of **Smart Supply Chain** model are the **Collaborative Manufacturing Networks**:

- Connect different Manufacturing companies/plants in the supply chain.
- Using the cloud & collaboration tools
- To optimize the supply chain processes and manufacturing/Logistics assets.

The C2NET project

H2020-FoF-1-2014
Process Optimisation of Manuf. Assets

3 Years
Starting on 01/01/2015

7.126.498 €

19 Partners
From 6 Countries

The C2NET consortium

The C2NET cloud

The goal of **C2NET Project** is the creation of **cloud-enabled tools** for supporting the **SMEs supply network optimization** of manufacturing and logistic assets based on collaborative demand, production and delivery plans

Cloud Platform

Cloud infrastructure with intuitive UIs that display in real-time the right data at the right time

Data Collection Framework

Legacy and IoT-based continuous data collection from supply network resources data analytics

Collaboration Tools

Advanced apps enabling decision makers to collaborate across the supply network

Network Optimizer

Advanced algorithms for collaborative demand, production and delivery plans optimization

The C2NET cloud

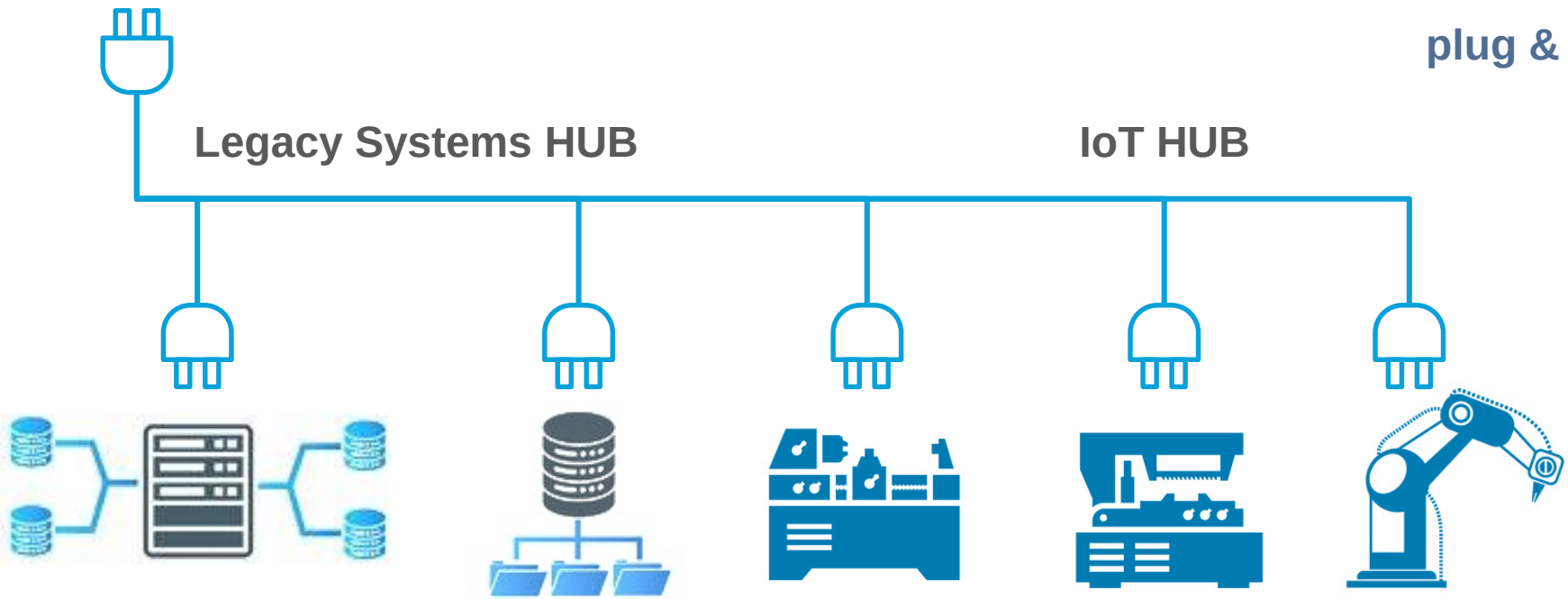
Data Collection Framework

scalability

adaptation

interoperability

plug & play



The C2NET cloud

Network Optimizer

Advanced Algorithms

optimality

efficiency

holistic

real-time

Source

Make

Delivery

Planner

Plans

The C2NET cloud

Collaboration Tools

agility

dynamic

monitoring

knowledge

Cooperation

Detection

Adaptation

Assessment

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