

Discussion

- What are the key messages/points? (Do you agree, or disagree?)
- What are the trends that you found? (Are they relevant to M2M?)
- What is the motivation behind this work? What are the user benefits?
- What the fundamental challenges? What technology/service innovation must be done?

Imagine (Intel):

<http://youtu.be/UDoB4Acozp0>

Group 1

Key Learning

- **Key points**
 - **Computation can enrich our lives**
 - Different types of processors for different applications & devices, including cloud computing
- **Trends**
 - **Remote control: thin client and powerful cloud**
 - **Processors will be more capable with lower power consumption**
- **Benefits**
 - **Remove medical care**
 - 1/3 fatal rate for infectious disease in developing countries
 - **Smarter, safer transportation**
 - 155 millions cars connected to internet by 2013
 - **Personalized advertisement on digital signage**
 - 10-12 million digital signage by 2015
 - **Greener planet**
 - 50% power is consumed by factories
 - Embedded intelligence can make power generation and distribution better.
- **Challenges**
 - **Wireless bandwidth**
 - **Power consuming**
 - **Security**

System of Systems (IBM):
http://youtu.be/h2br2_twHfw

Group 2

Key Learning

- **Key points**
 - Our planet is a natural system of systems
 - The system is complex; interaction of system to system may be unpredictable
 - People matter; M2M is a productive intervention in the complex system
- **Trends**
 - Link systems and exchange information
 - Use sensors as eyes, make more intelligent decision
 - Computer can analyze the data for human to make intelligent decision/action
- **Benefits**
 - Make life better
 - Make technology more humanistic
- **Challenges**
 - Standards to link systems together
 - Communication: protocol
 - Data mining and Decisions
 - Balance between human and machines
 - Power issue

The Social Web of Things (Ercisson):

<http://youtu.be/i5AuzQXBsG4>

Group 3

Key Learning

- **Key points**
 - Machines in a house can be interconnected, aware of context, and form a “society” to serve human.
 - Agents can prepare things for us, human will make the final decision
- **Trends**
 - People are lazy
 - More and more people live alone
- **Benefits**
 - A highly efficient life in house
 - They are tired after busy work
 - They don't want to spend much time on housework
 - People are lonely and want companions
- **Challenges**
 - Context analysis
 - Inter-system communication
 - Setting a standard list of functionalities for each type of machine
 - Security

Machine to Machine Smart Services (Vodafone):

<http://youtu.be/ujk1cprLpD8>

Group 4

Key Learning

- **Key points**
 - M2M smart services with user's habits makes user more convenience everywhere.
- **Trends**
 - Phone as an important center of services
 - Make the service connected everywhere through smart phone
- **Benefits**
 - Convenience, saving, or lazy (科技始終來自人性)
 - M2M analyze the schedule and make proper planning (time and even route)
 - Personalized service
- **Challenges**
 - Compatibility for unified Interfaces of each machine