INTERNET OF THINGS (IOT)AND ITS APPLICATIONS

Group Members

1.Sohaib Rehman Khan 2.Anna Trunina 3.Mark Nedzelskii 4.Igor Lipin 5.Petr Slavik 6.James O. Abuogo 7.SWATI ANINDITA SARKER 8.BELIBI TANA Armelle.E 9.OWASSA-DZA Rebecca A 10.GOUSSEBEO ROSELINE YOCELLE . S



The internet of things (IoT) is a computing concept that describes the idea of everyday physical objects being connected to the internet and being able to identify themselves to other devices.







Challenges and Risks of Iq

Security & Data Governance

Confusion on where to get value (ROI)

Diversity of niche providers & solutions



Lack of data protocol standards

IT and business partnership

Data and analytics complexity

DIFFERENT TYPES OF SENSORS





temperature and humidity sensor with RF modules Arduino

BELLCORE'





CASE STUDY- Sensor Based Smart Cap and Bottle to Rectify Plastic Pollution and Its Hazardous Effects

- How to do waste management of plastic bottle efficiently?
- How to know the safety limit of reuses for drinking water?
- Who will ensure that water in bottle is pure and healthy?
- Is there any way that waste management company reaches out to waste plastic bottle timely?
- Is it possible to provide complete information about Bottle manufacturing water quality ?





Water Bottle Garbage









To check about any contamination in water , any impurity

> Position Tracking and in case of any contamination or deformation or completion of life cycle for reuses of bottle, data will be sent to Waste Management Company



Life cycle of Plastic, Whether it has been already used or not? If used how many times it has been opened, no of reuses allowed

Bar code containing information about Date, time position of bottle manufacturing, how it has been trransported

Idea of Smart Bottle and Smart Bottle Cap







Conclusion

IoT has been gradually bringing a sea of technological changes in our daily lives, which in turn helps to making our life simpler and more comfortable, though various technologies and applications.

The key observations in this presentation are that

- (1) There is no standard definition in worldwide
- (2) Universal standardizations are required in architectural level
- (3) Technologies are varying from vendor-vendor, so needs to be interoperable
- (4) For better global governance, we need to build standard protocols. Let us hope future better IoT

Once all our tasks are automated what do humans do everyday?

Creativity. Innovation. Humanity.



