

Fierce Wireless & GSMA Webinar: The Role of Mobile Operators in IoT

Agenda



Introduction to the Role of Mobile Operators in IoT	Stefano Nicoletti Connected Living, GSMA	15:00 – 15:05
The Connected Society IoT solution: Smarter transportation	Robert Brunbäck Telenor Connexion	15:05 – 15:15
Market and policy consideration for operators IoT solution: SmartSantander	Jorge Morillo Gallego Telefónica	15:15 – 15:25
Enhancing English learning opportunities in Palestine IoT solution for mEducation	Lynne Dorward Ooredoo	15:25 – 15:35
Nuvola IT Home Doctor IoT solution for mHealth	Agata Basile Telecom Italia	15:35 – 15:45
Q&A	All	15:45 – 16:00



Introduction: The Role of Mobile Operators in IoT

Stefano Nicoletti, Connected Living, GSMA

Connected living – mobilising the internet of things







Realising the benefits of mobileenabled IoT solutions March 2015





Download report at: www.gsma.com/connectedliving

Quantifying the economic benefits of IoT in practical terms





mHealth

could save over 1 million lives in Sub-Saharan Africa over the next five years.



Traffic telematics

could help Chinese commuters reclaim nearly two hours each of their time every week and add over 20 billion USD to the Chinese GDP each year.



Technologyenhanced learning

could save South Korean families between 8,000 to 12,000 US D on private tuition for their children.



The IoT could

save 99 billion EUR

in healthcare costs in the European Union and add 93 billion EUR to the GDP.



In developing regions, **mEducation**

could provide 180 million children the opportunity to stay in school.



Reducing power theft and increasing usage efficiency via mobile-enabled

smart meters

could save enough electricity in India to power more than 10 million homes.

Source: PwC estimates



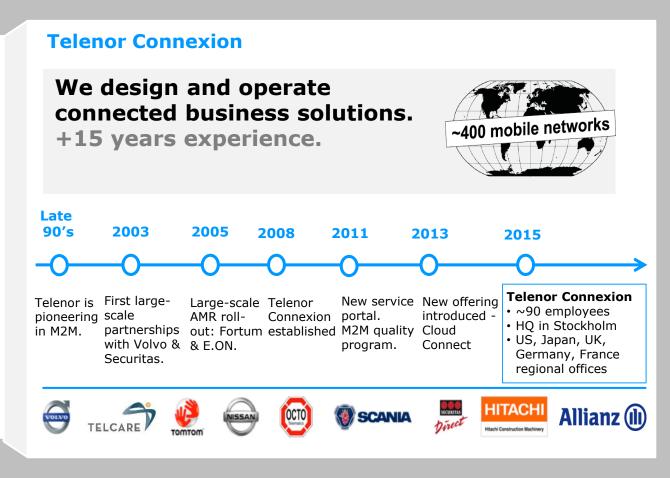
The Connected Society
IoT solution: Smarter transportation

Robert Brunbäck, Telenor Connexion

Telenor vision: Empower societies

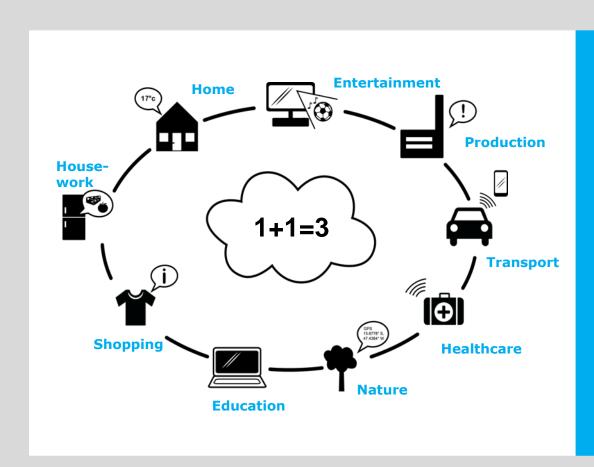
- Internet of things is one key enabler

Telenor Group Providing tele, data and media services in the Nordics, Europe and Asia. Operations in 13 markets with 192 million mobile subscribers





The connected society is already here



"50 billion connected devices by 2020"

3 key drivers:

- Technology getting smaller & cheaper
- Data insight is creating competitive edge
- From product > smarter and more sustainable services

...transforming businesses, societies and everyday life as we know it









Market and policy consideration for operators IoT solution: SmartSantander

Jorge Morillo Gallego, Telefónica

Operators have the opportunity to shape the market and policy...

Market considerations

Economic and social transformation

Innovative and nascent industry

Growing steadily and fast

IoT is not just telco

Good competitive health

Heavyweights all across value chain

Wide variety of partnering

Policy considerations

Policy makers attraction increasing

Regulatory understanding

Pro-investment

Rely on market forces

Light and flexible regulatory approach

Case by case basis

LPF guaranteed

... but explaining potential benefits will be key.

Market considerations

Economic and social transformation

Innovative and nascent industry

Growing steadily and fast

IoT is not just telco

Good competitive health

Heavyweights all across value chain

Wide variety of partnering

Potential benefits

Innovation

Productivity

Growth

Quality of life enhanced

Jobs

Competitiveness

Policy considerations

Policy makers attraction increasing

Regulatory understanding

Pro-investment

Rely on market forces

Light and flexible regulatory approach

Case by case basis

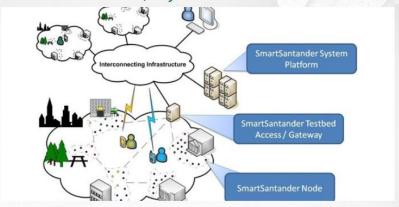
LPF guaranteed

Some examples

Smart Santander



European Commission praises 'exceptional' SmartSantander project



- 7th EU Framework Programme
- · Real Lab City for investigation
- Businesses development of applications and tech products
- Interactive platform with citizens
- · City leadership against climate change
 - ✓ Pollution
 - ✓ CO2
 - ✓ Water management



Enhancing English learning opportunities in Palestine IoT solution for mEducation

Lynne Dorward, Ooredoo

Enhancing English Learning Opportunities in Palestine







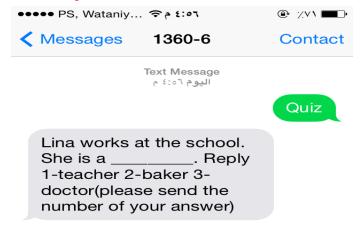
- Palestine is placing a strong emphasis on learning English; young men and women are signing up for conversation and writing classes in record numbers as they recognize that fluent English will boost their chances of finding a job.
- For youth who cannot afford lessons, or who want a way to practice outside the classroom, the options are limited because Arabic is the main language spoken throughout Palestine.
- In response to this, in July 2014, Wataniya Mobile Palestine (a member of the Ooredoo Group of companies) launched a "Learn English" educational service for mobile users in partnership with mobile venture Souktel and leading English language training providers.
- The service features two main offerings: Mobile Quiz & Word of the Day.
- By giving youth the ability to access English content on their phones, students and new graduates can now learn at any time, and wherever they want to; they do not need to be sitting in a classroom.



How Does the Learn English Mobile Service Work?

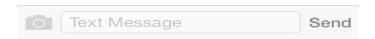
The goal is to make the service easy to use, fun and appealing to the target audience.

Sample Screen for Word Quiz





- Mobile Quiz sends English language questions to users via SMS
- The user has a choice of answers and texts his/her reply
- The service then sends follow-up explanations to help the participants learn more about the correct response exercises
- Word of the Day sends users a word or phrase in English along with its meaning
- An example of how to use the word is also included







Nuvola IT Home Doctor IoT solution for mHealth

Agata Basile, Telecom Italia

IoT in Health

M-Health Benefits

- •Italy has the second longest life expectancy in the world
- Ageing affects 2% of GDP
- New management and clinic processes models are needed this represents a challenge and an opportunity for Telecom Italia

Health Cost Reduction

Good chronic disease management offers real improvements in patient care



Equal access to care and care continuity

Patient care

improvement



M-Health Barriers

Improvement in

quality of life

Regolatory Issues & Rembursment



The Italian Health Ministry has published guidelines for telemedicine practices and defined a reimbursement as a standard health practice with the innovative technology

M-Health Security and Privacy data

Tecnology : reliability,easy and cheep

Interoperability wirh the other health applications like EHR TELECOM ITALIA **Home Doctor solution** is an enabler of **M-health**. The usability of mobile technology, with ICT technology for the clinical data, guarantees:

- Security and Privacy data
- Application reliability, business continuity and easy usage
- **Interoperability** with other health applications
- Compliance with the European Directive
 2007/47/EC on Medical Device and software

Home Doctor

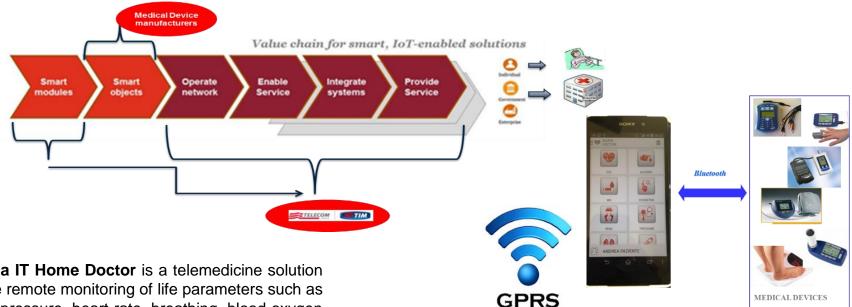
Agata Basile, MKT INDS





Nuvola IT Home Doctor: Functionality

Telecom Italia has delivered a M-Health Solution with software for the cloud platform and mobile app, taking care of the system integration with connectivity according to the new model of the IoT value channel.



Nuvola IT Home Doctor is a telemedicine solution for the remote monitoring of life parameters such as blood pressure, heart rate, breathing, blood oxygen levels, blood sugar, ECG plots, body weight, body temperature.

The human parameter is transmitted by bluetooth to the mobile app gateway, installed on the smartphone, and by GPRS (or other network) it is transmitted to the Home Doctor platform in Cloud TI. The health personnel, previously profiled, can access from any location and check the adequacy of the measures received and, on the framework of the Patient, interact with it and modify care plans.







Case History: Molinette Hospital

Molinette-Hospital in Turin: Geriatric Department

20 patients over 85 years in the geriatric department have been monitored by Home Doctor solution for one year and managed in the post-hospital care









Molinette-Hospital in Turin: Results

- Cost Reduction due to :
 - Medical visits reduction of 140 with a saving of 2.000 euro
 - Hospital readmissions reduction with a saving of 18.000 Euro
- Improved humore of patients and the family life (the mobile solution is easy to use)
- Doctors have more free time to consult with the critical patients







