



# Connected Living The next wave of mobile devices

Ton Brand, Programme Director Connected Living Programme Monday 27 February 2012









## Our agenda

17.15

**Audience Q&A** 

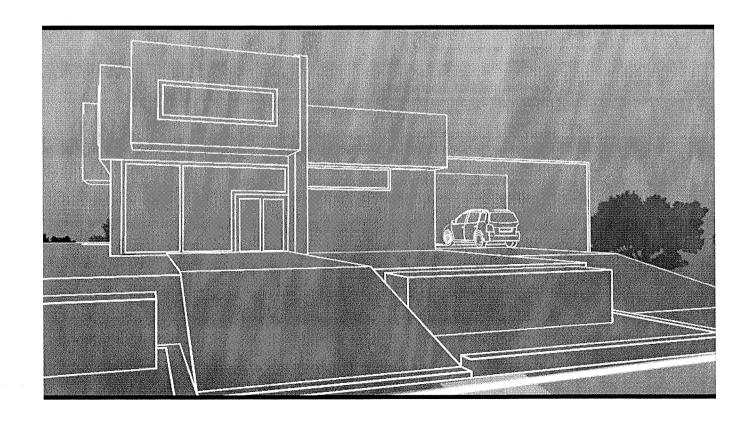




	Ton Brand,
16.15	How can regulatory policy accelerate or impede market growth?  Jeanine Vos, mHealth Executive Director, Connected Living Programme
16.30	Ericsson Mobile Health Remote Patient Monitoring System Peter Håkansson, Manager Sustainability Research, Ericsson
16.40	mHealth Demonstration – Vitality and Blue Libris Remote Monitoring Clay Owen, AT&T, Senior Director of Communications
16.50	Ericsson cloud orchestration - ICT Solution for Connect to Learn Paul Landers, Programme Manager, Ericsson
17.00	Planning For Data Growth: L-band Supplemental Downlink Spectrum Opportunity Wassim Chourbaii. Senior Director Government Affairs. Qualcomm

Overview of GSMA programme

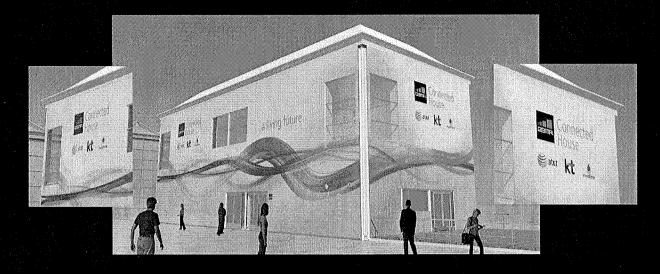
# MHealth mAutomotive mEducation Service Awareness in Roaming Smart Cities Demonstrator (Mobile World Capital) Connected Life Campaign



More examples.....



# **Connected House 2012**

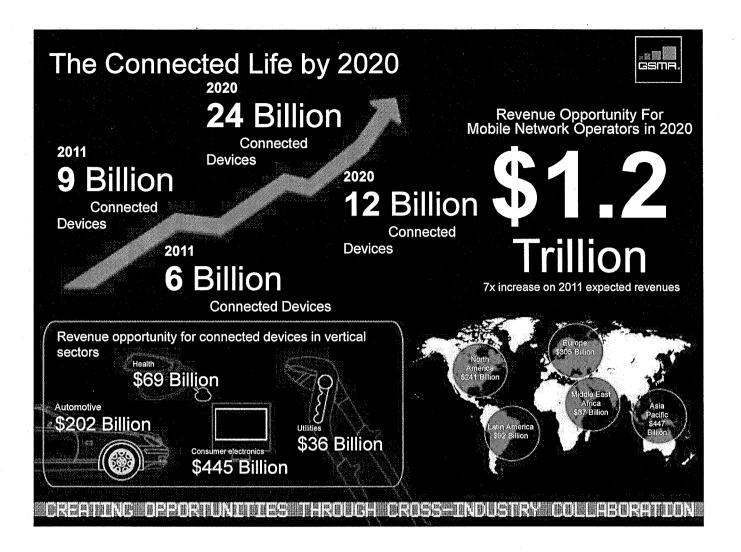


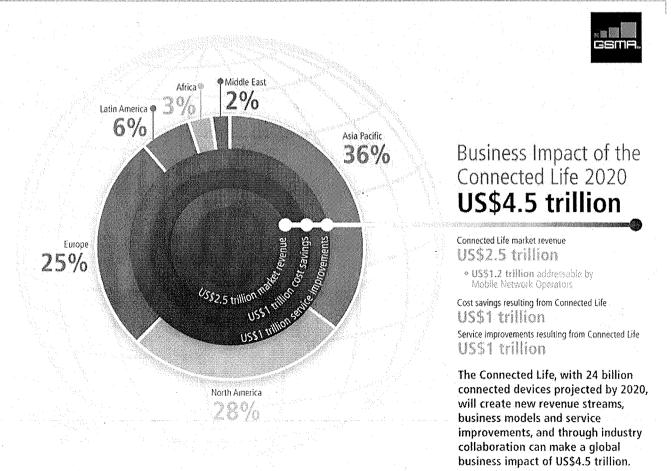
Ministerial Tour, Wednesday between 11.00 and 12.00

Valuing the market opportunity



Global Revenues & Impact of the Connected Life





# **Programme Objectives**



Accelerate the development of Connected Living services in agreed adjacent vertical markets Stimulate trials, launches and demonstrations in Automotive Education and Health vertical markets

Stimulate operators to challenge the existing service awareness and roaming model to reflect vertical market requirements

Collect and publish market analysis and statistics on the global adoption of Connected Living

Stimulate cross industry collaboration

# Regulation can add value....







# **Connected Living**

Jeanine Vos
Executive Director, mHealth
Connected Living Programme
Monday 27th February 2012







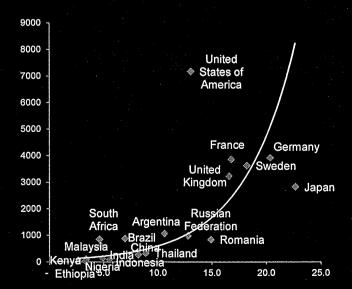


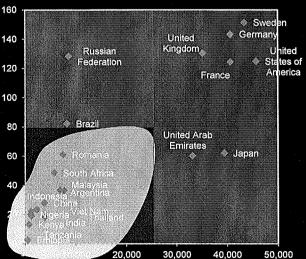
# Healthcare systems are under pressure



Per Capita Health Expenditure (PPP Int. USD) and % of Population Aged above 65, 2009/2010

Number of Physicians, Nurses per 10,000 population and GDP per Capita (USD), 2010



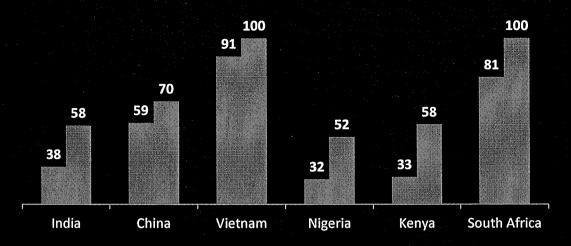


Source: WHO. The World Bank. OECD. PwC analysis

# Mobile provides ubiquitous technology platform



Comparison of Penetrations of Improved Sanitation Facilities and Mobile Phones in Selected African and APAC Countries, 2014E

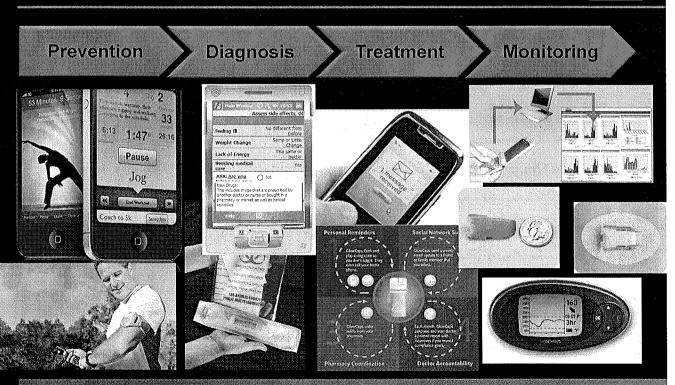


- Access to Improved Sanitation Facilities 2014E
- **Mobile Subscriber Penetration 2014E**

Source: CN, PwC printers

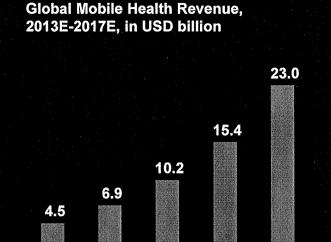
# To reduce costs, increase access, improve care





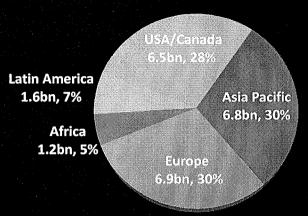
# Significant growth in mobile health is foreseen





Source: PwC analysis

Mobile Health Revenue by Region, 2017E, in USD Billion and % Share



BUT CAN ONLY BE REALISED WITH GOVERNMENT AND REGULATOR SUPPORT

# Different motivations in healthcare and telecoms





**Patient Centric** 

Safety first

Demonstrate efficacy

'At least, do no harm'



**Market Centric** 

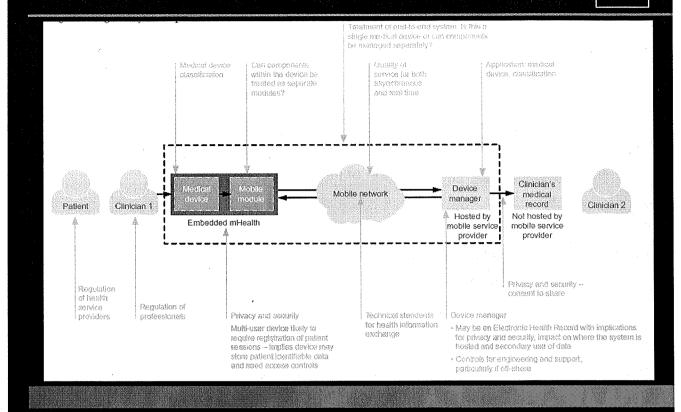
Maximize consumer value

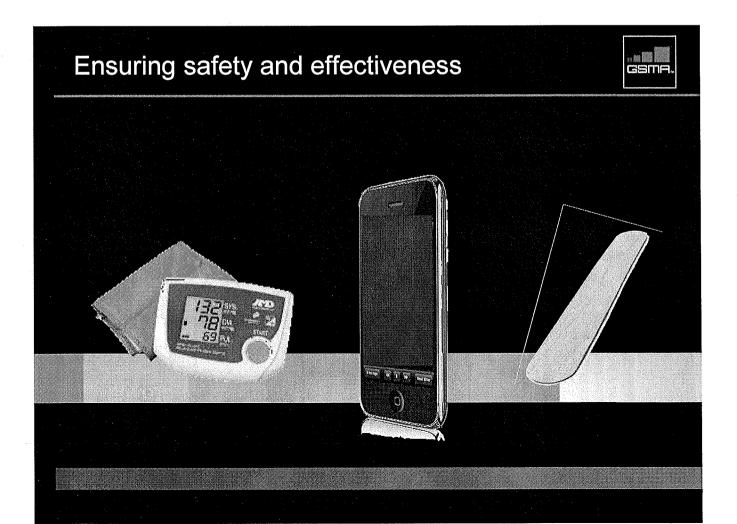
Foster competition

'Just enough'

# Policy and regulatory touch points







# Healthcare policies and regulation for growth



### Policy themes

Patient empower<u>ment</u> Develop policies that promote user autonomy, which will in turn drive mHealth adoption

Reimbursement

Move towards reimbursement schemes that reward positive health outcomes and support the adoption of innovation

### Regulatory themes

Devices

Introduce a proportionate approach to what constitutes a medical device and how it is classified

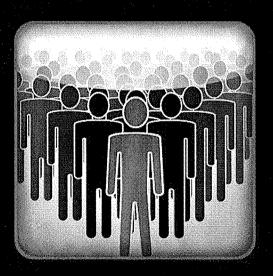
Systems and interfaces

Promote interoperability and common standards to enable scale and plug-and-play experience

# Telecoms government and regulator engagement



Realising scalable and sustainable mobile health deployments



- Raise awareness of the benefits of mobile health
- Educate healthcare stakeholders on mobile capabilities
- Promote interoperability and common standards
- Provide spectrum for growth
- Support cross-industry initiatives





# Ericsson Mobile Health Remote Patient Monitoring System

Peter Håkansson, Manager Sustainability Research, Ericsson









# **Modern Healthcare systems**



- challenges and Pain points



Provide good care at an affordable cost



Increase the availability of care for all



Help people stay healthy



Demographic shift



Sharp rise in chronic diseases

### Healthcare mega trends

- · Distributed healthcare
- Patient centric, personalized healthcare
- Higher demands from patients

### mHealth is part of the solution

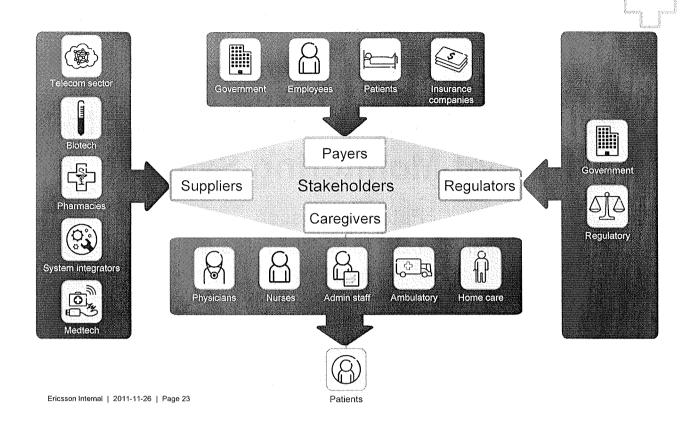
- Higher efficiency in care delivery
- Enabler for distributed care
- Mature technology

Mobile Health, mHealth is a term for medical and public health practice supported by mobile connected devices, such as mobile phones, patient monitoring devices, etc



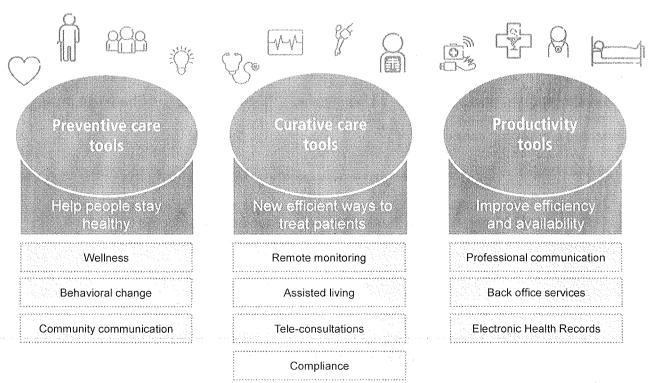
# Healthcare: a complex ecosystem

- under constant pressure





# **Market segmentation**



# **Ericsson Healthcare offerings**



-high level overview

### **Health Information Systems**

Health Information Exchange platforms that support healthcare delivery processes on national, regional or hospital level



### Remote Patient Monitoring

EMH is a remote patient monitoring solution used for measurement and transfer of a patients vital signs



### Service Enablement for health

Sensor data and communication services aggregated, provisioned and exposed



### Communication services

Horizontal communication services such as BCS, voice and SMS to be adapted and used in telehealth applications

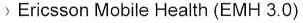


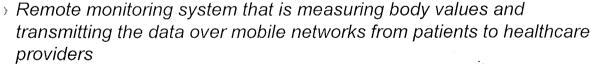
Ericsson has both horizontal and health specific solutions for the healthcare market. Mainly indirect market channels like through operators and other enterprises

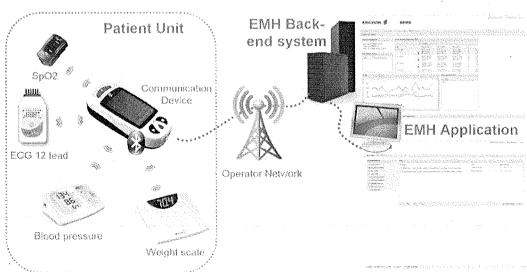
Ericsson Internal | 2011-11-26 | Page 25

### **Ericsson Mobile Health**





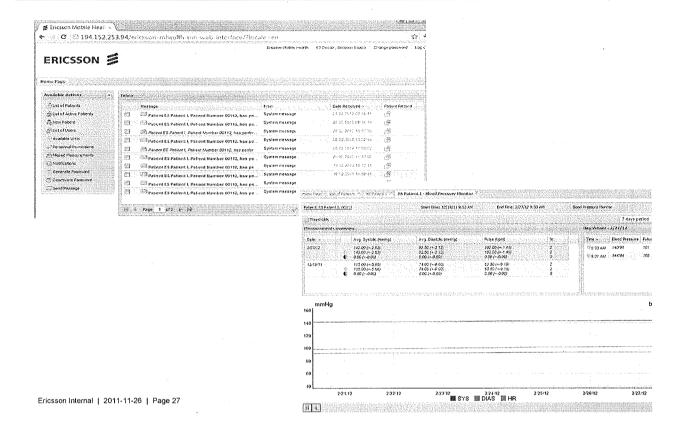








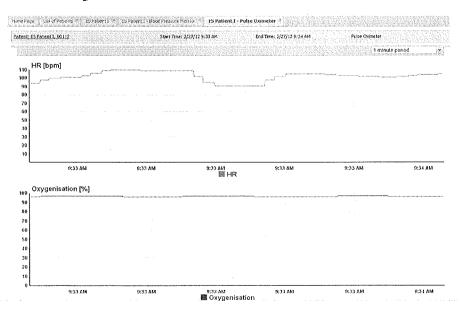
# Web interface





# Web interface

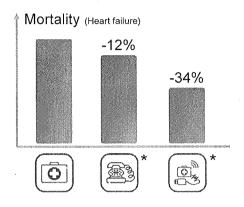
### ERICSSON 3



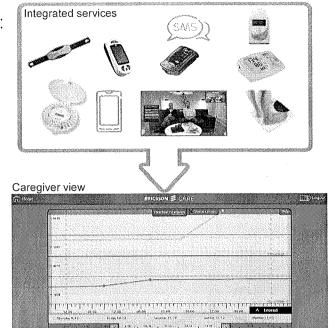


# **Health Service Integration**

- > The mHealth integration challenge:
  - mHealth systems uses often proprietary communication interfaces and protocols
  - This complicates for a caregiver to get a useful overview of data for a patient using multiple systems



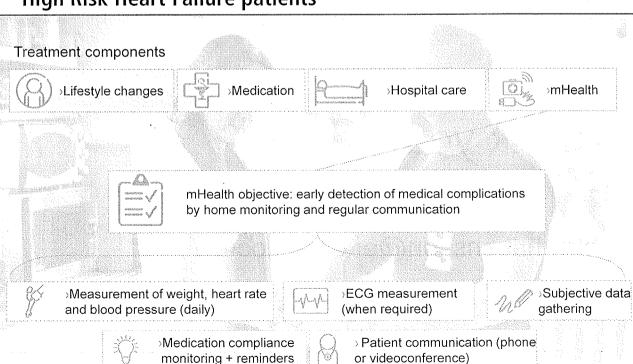
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\* Structured telephone support or telemonitoring programmes for patients with chronic heart failure — Cochrane Meta Study 2010

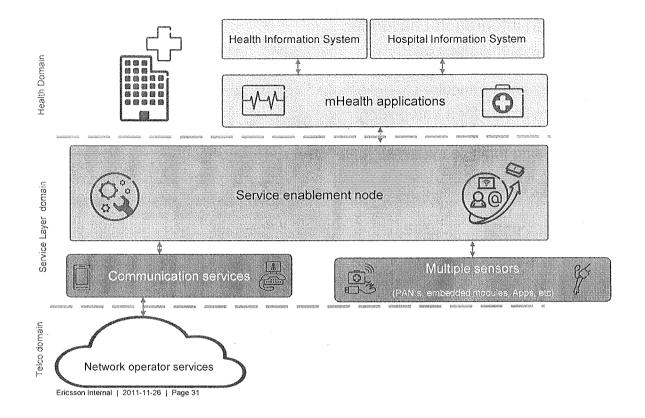
# Use Case Example High Risk Heart Failure patients







### Target Architecture, Ericsson Health & Service Enablement





# Thank you!

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