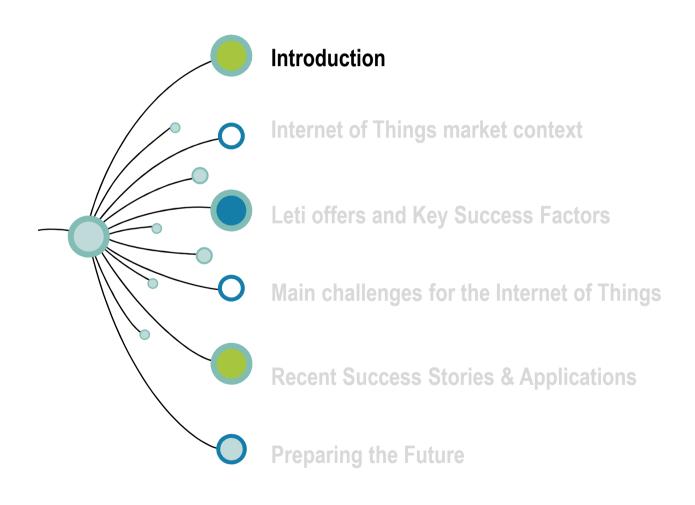


Internet of Things

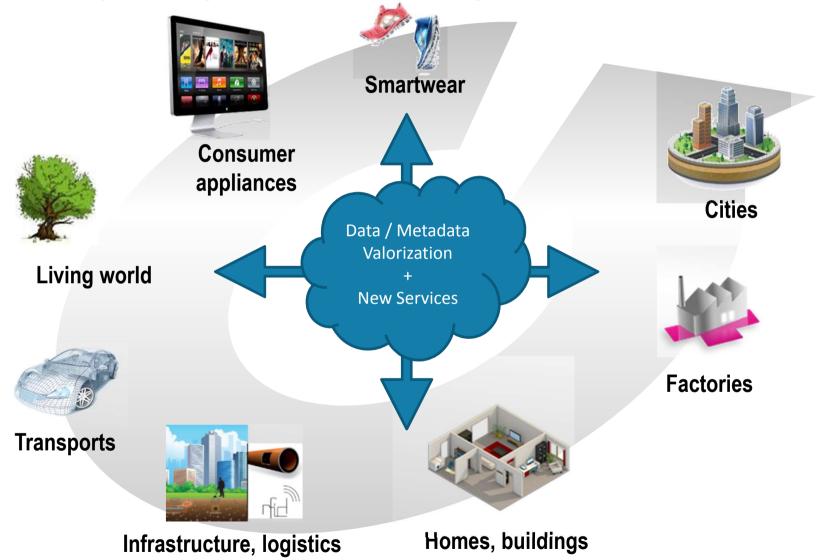
JM Goiran, JP Blanc

01 octobre 2013

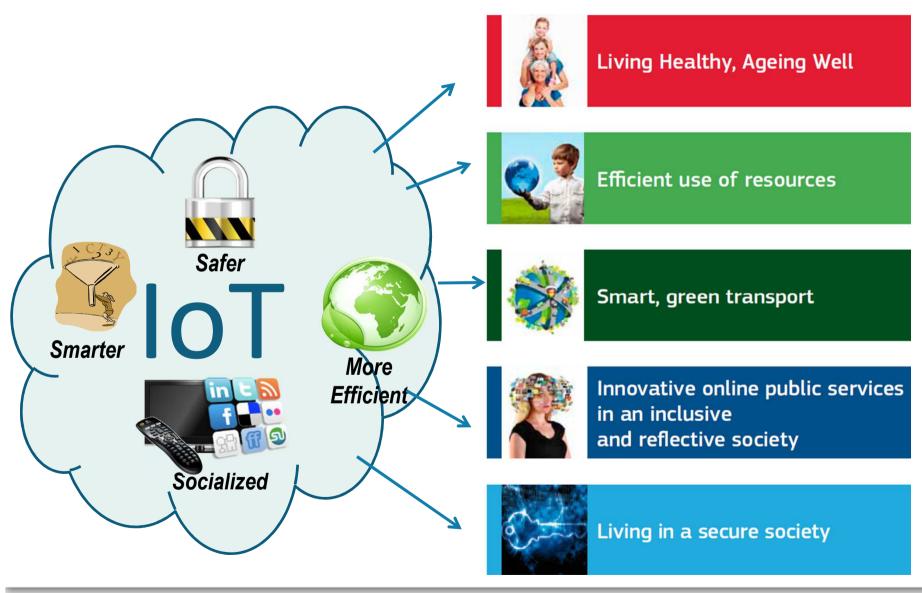


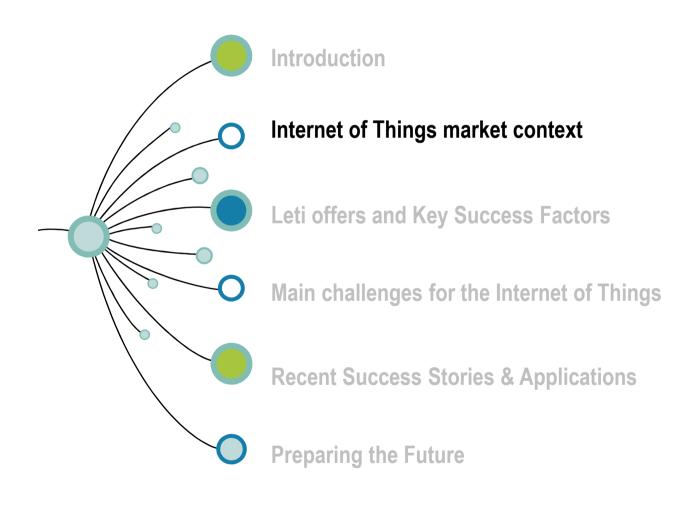


IoT will generate new opportunties through smarter, safer, more efficient, socialized...



At the heart of societal challenges







IoT Context

6,3 Billion 6,8 Billion 7,2 Billion 7,6 Billion 500 Million 12,5 Billion 25 Billion 50 Billion 6,58 1,84 3,47 0.08 2003 2010 2015 2020

World population

Connected devices

Connected devices

Per Person



More connected

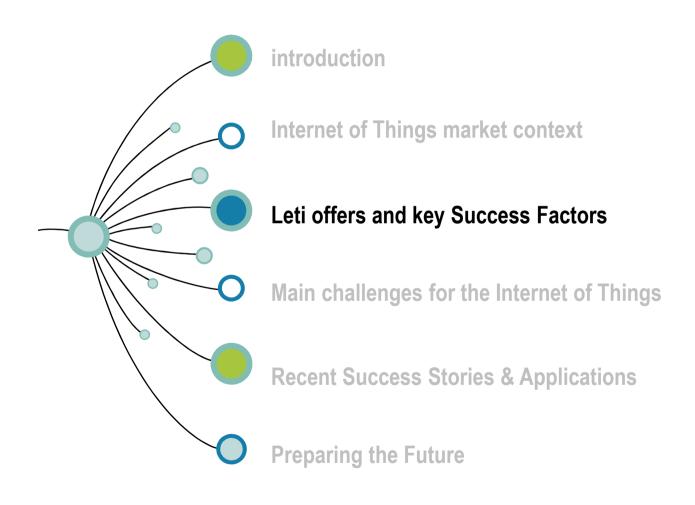
devices "

Twitter @Montgomerymae

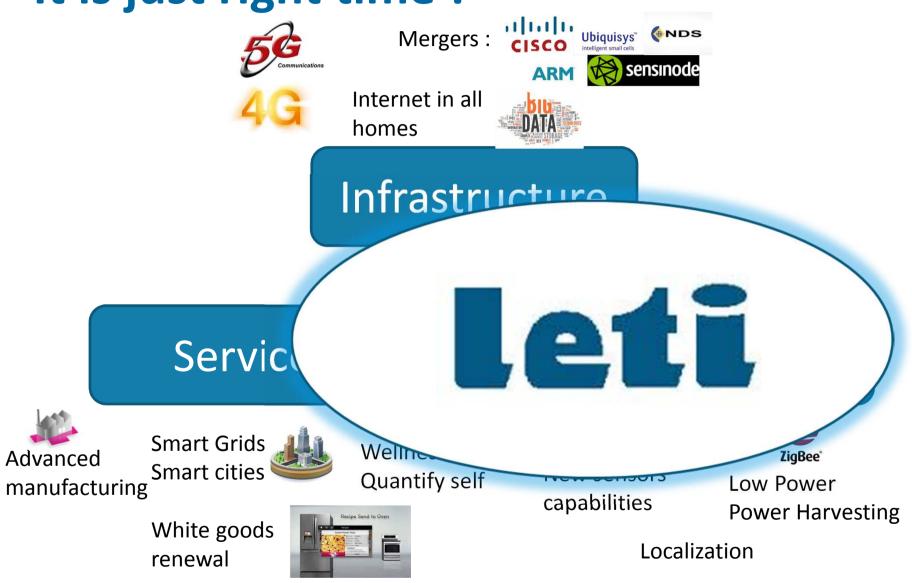


Quantify self

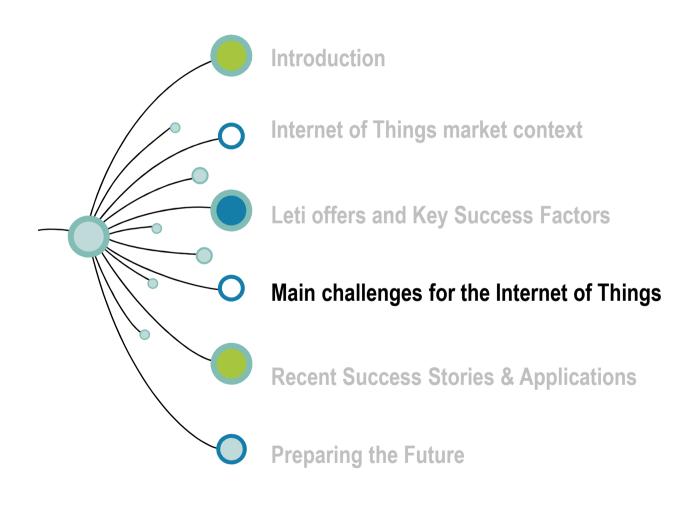




It is just right time!

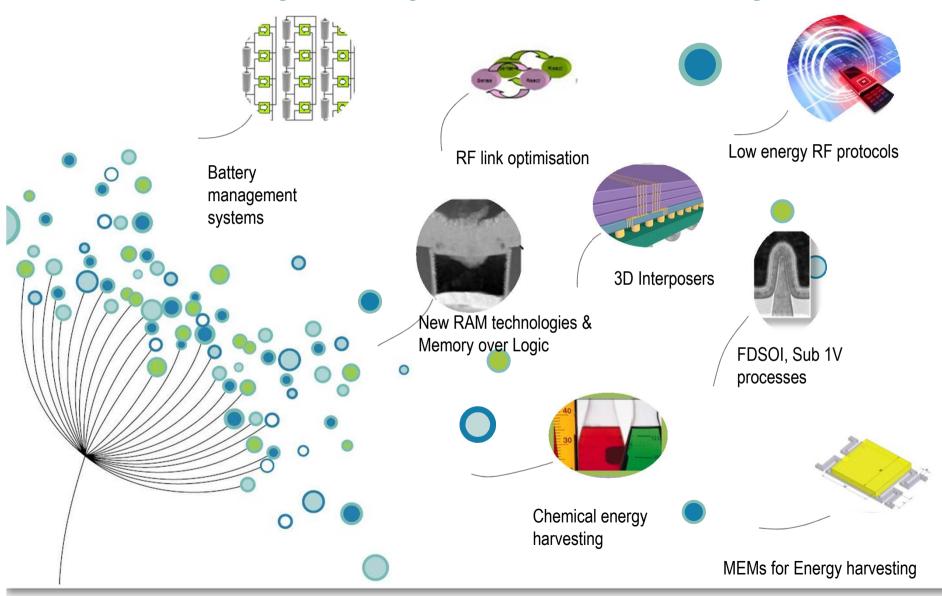






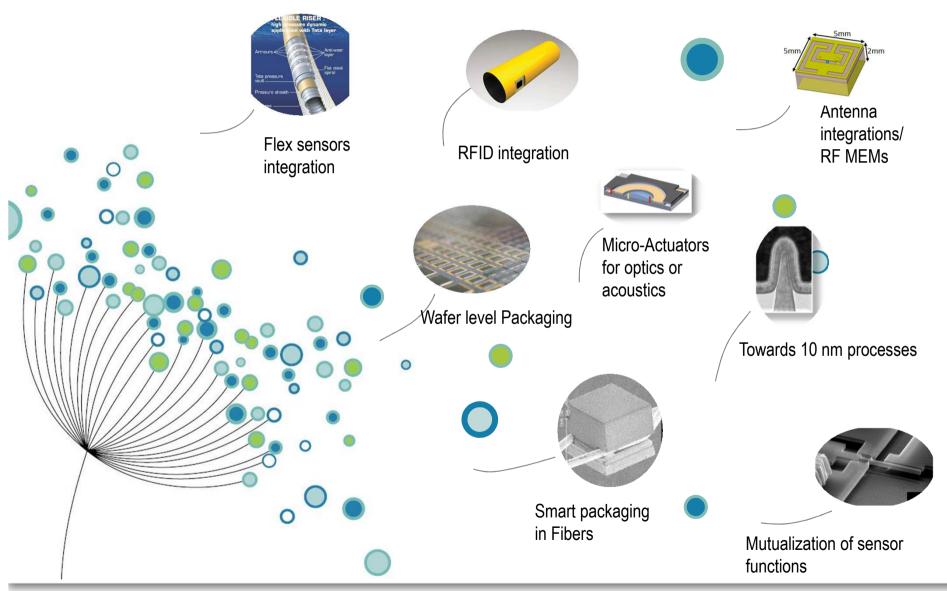


Autonomy and power efficiency

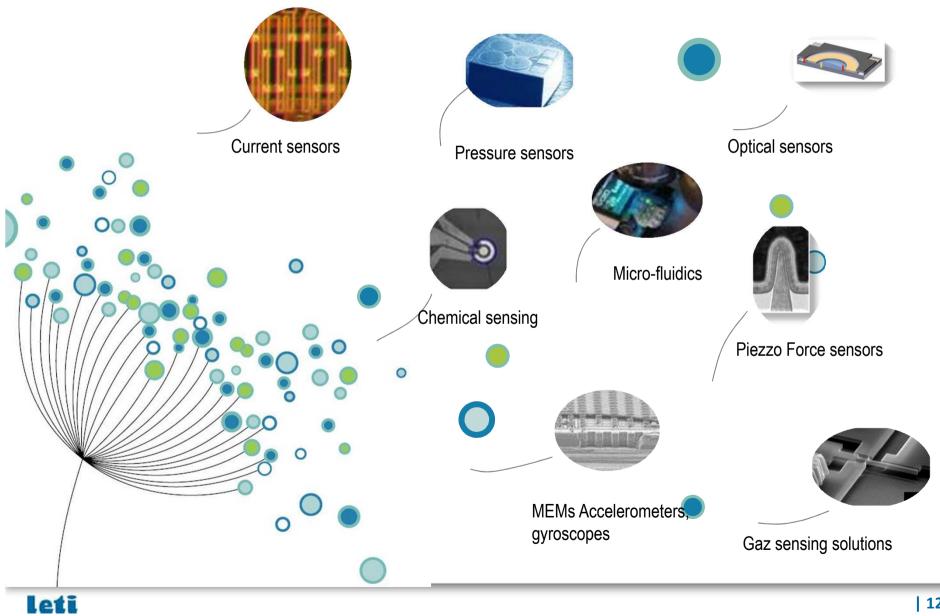


leti

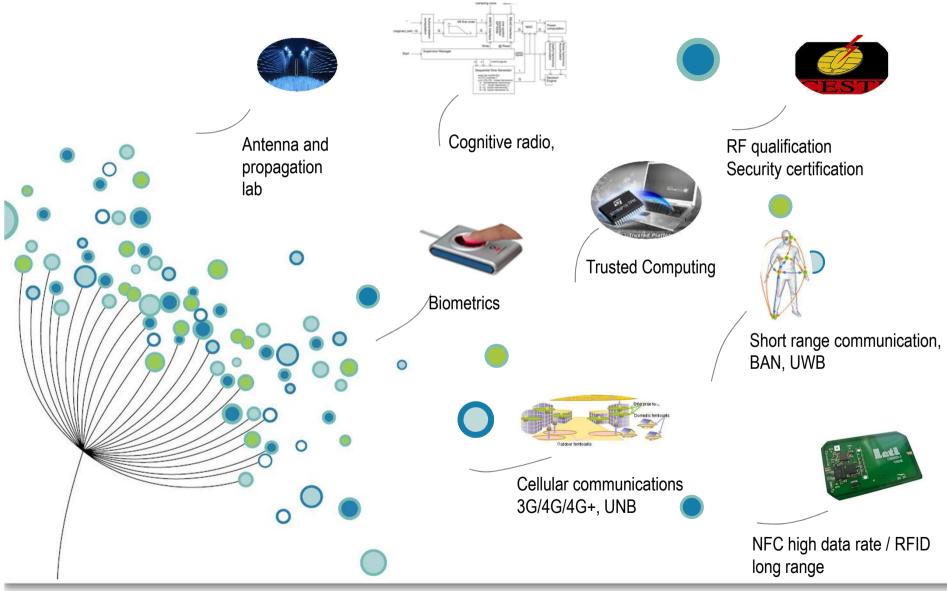
Miniaturization & Integration



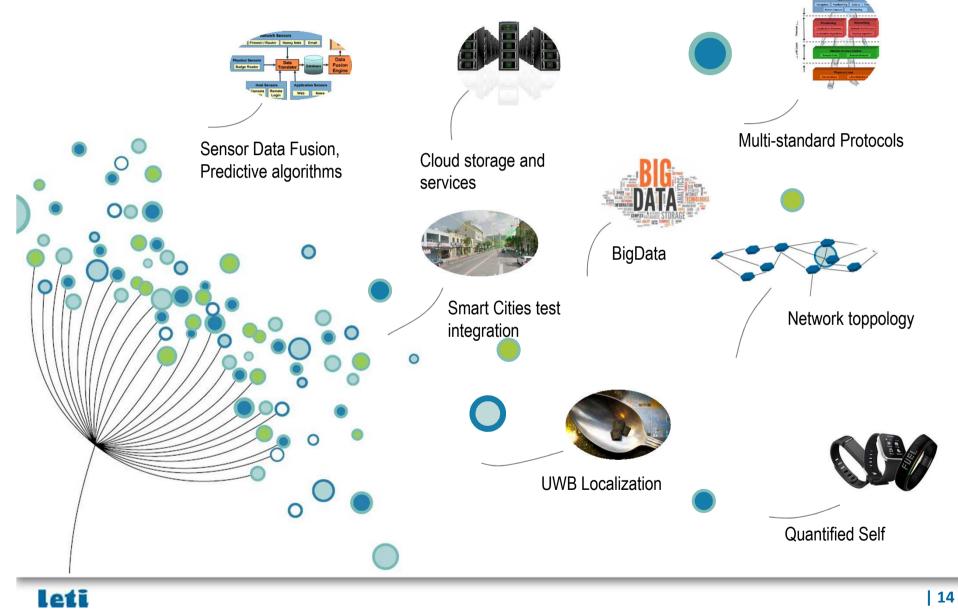
Sense and control

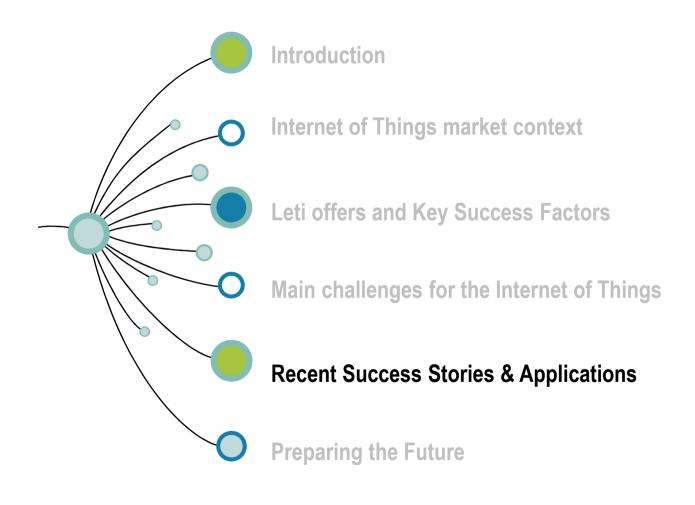


Securely communicate



Socialize things





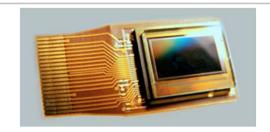


Multimedia & Mobile Platforms

Micro-dispays

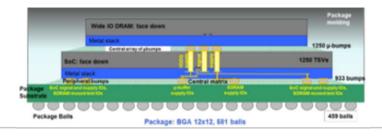


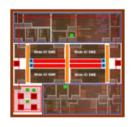




3D Wide I/O Memory Chip







10s download time of 1 Gigabit of content from battery-less memory tags

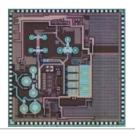


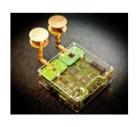




Multiband UWB Chip for localization Range 300-2000m, Accuracy 3,75cm → 1 m







Health & Fitness

Motion-sensing



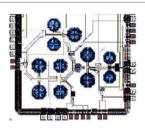


ULP Chip for Wireless monitoring of pacemakers



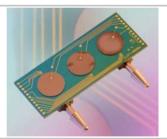


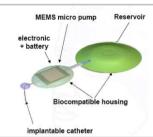




Microsystem for local drug delivery







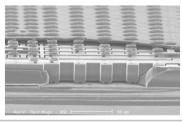


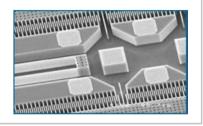
Automotive & Transportation

Inertial sensors









RFID Tags embedded in truck tires





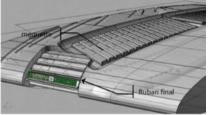


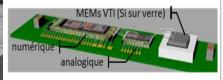


Temp & Press. ribbon for aerospace mock-up









Smart Buildings & Smart Cities

Autonomous Wireless Sensor (CO2, Humidity, Temp, Pressure) powered by Indoor PV cell









City Wide sensor network experiments









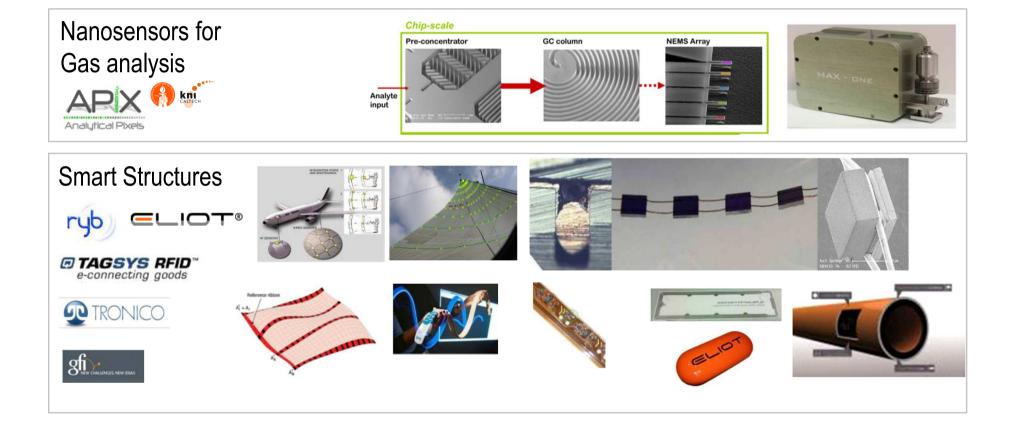
Fully Autonomous and **Connected Window Shutter**



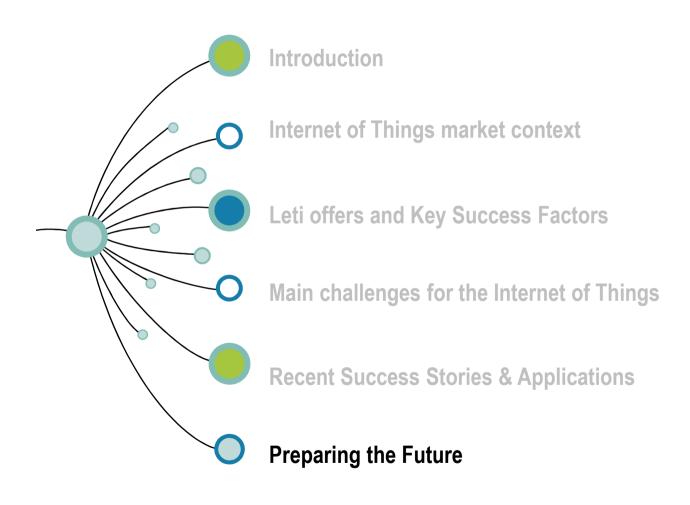




Industry & Infrastructures



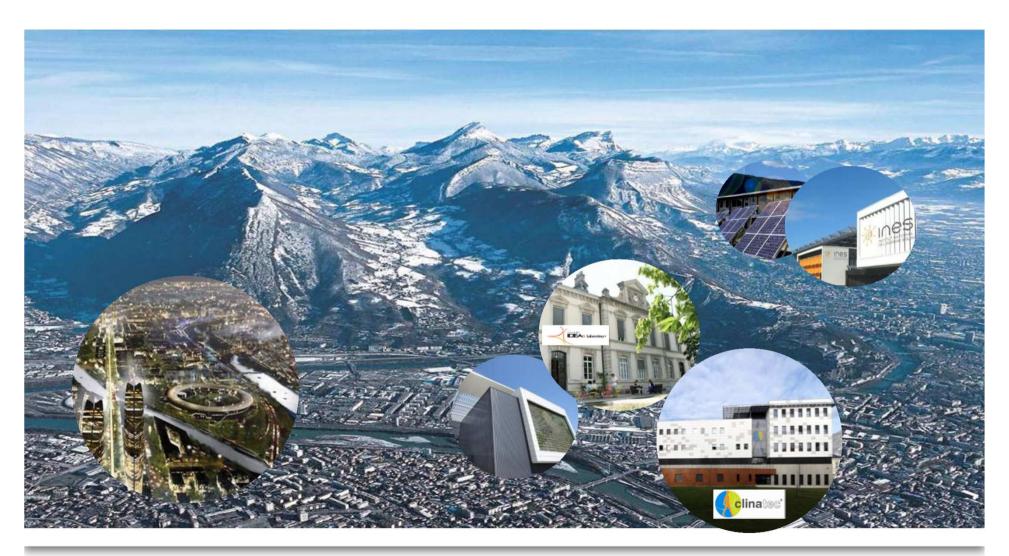






Planning for the future

Platforms and Initiatives to host projects and partners



Save the date now!



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Thank you for your attention





