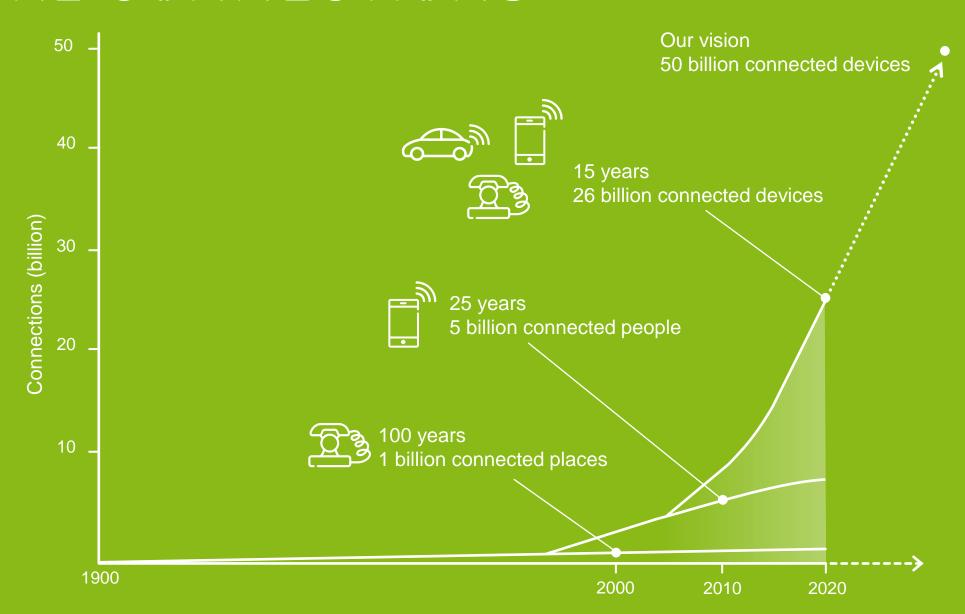


MORE CONNECTIONS





IN 2020...



8B people on the planet 90% of the world will be covered by MBB

mobile traffic will grow 9X

MEDIA value chain will evolve

collaboration will be KEY

850M fixed broadband subscriptions

7.7B
mobile
broadband
subscriptions

26B connected devices

15B connected video devices

High performing networks ESSENTIAL

NEW INFRASTRUCTURE



5G Requirements Extreme & Diverse

Sustainable



5X Lower Latency

10-100X End-user Data Rates 1000X

Mobile Data Volumes



10Y

Battery Life

10-100X
Connected Devices

Common Network
Dynamic & Secure



Critical Communications

<5ms E2E delay 99.999% transmission reliability 500 Kmph relative velocity



Massive Communications

>10 years battery lifetime >80% cost reduction 20dB better coverage



Secure



WE ARE AT THE BEGINNING OF SOMETHING BIG





\$1.9 TRILLION

Predicted value-add of IoT across sectors in 2020

CONNECTIVITY

NEW ASSETS

3

- Digitalization exponential and ubiquitous
- 2. Data own, shared and open
- 3. Things connected and intelligent
- 4. Users participating and active
- 5. Platforms economics and scale
- 6. Capabilities available and ondemand



INDUSTRY TRANSFORMATION



OUTSIDE DRIVERS

PATH OF EVOLUTION

PATH OF DISRUPTION

INSIDE CONTROL

ICT-LED TRANSFORMATION



OUTSIDE

IMPROVED OFFERING TO CURRENT MARKET

PROFOUNDLY NEW
OFFERING CREATING NEW
MARKETS

EVOLUTION

BETTER PERFORMANCE OF CURRENT OFFERING

DISRUPTION

SYNERGY OFFERING ACROSS INDUSTRIES

NSIDE

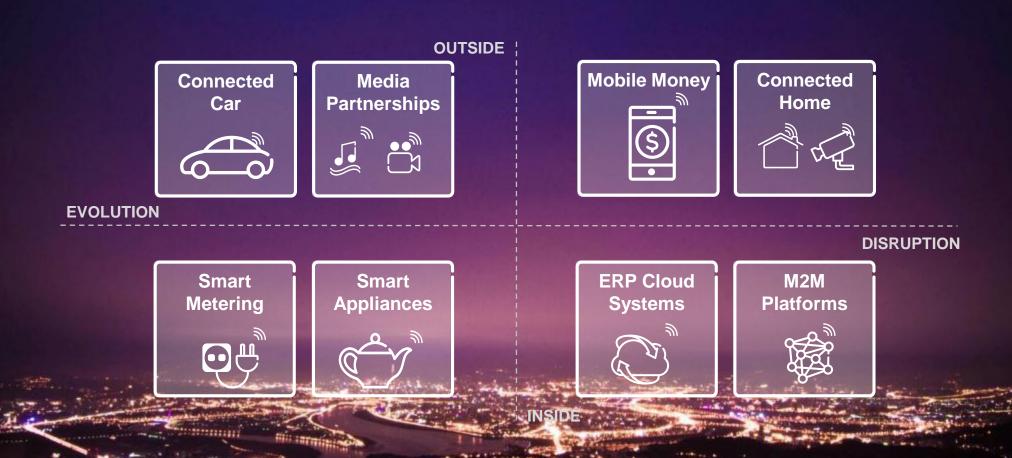
INDUSTRIES IN TRANSFORMATION





OPERATOR OPPORTUNITIES





NEW PRACTICES NEEDED





- 1. Digitalize business resources
- 2. Make sense from data
- 3. Establish networked practices
- 4. Encourage user co-creation
- 5. Develop new platforms
- 6. Innovate in the service business

4 INDUSTRIES

IOT SHOWS GROWTH ACROSS INDUSTRIES

42

TRANSPORT



HEALTHCARE



12% revenue growth due to IoT until 2018 (global)

Right now, there are 9-14 billion Internet of Things units installed.

By 2020, this number will have reached 26 billion.

OFFICE

200% growth by 2020

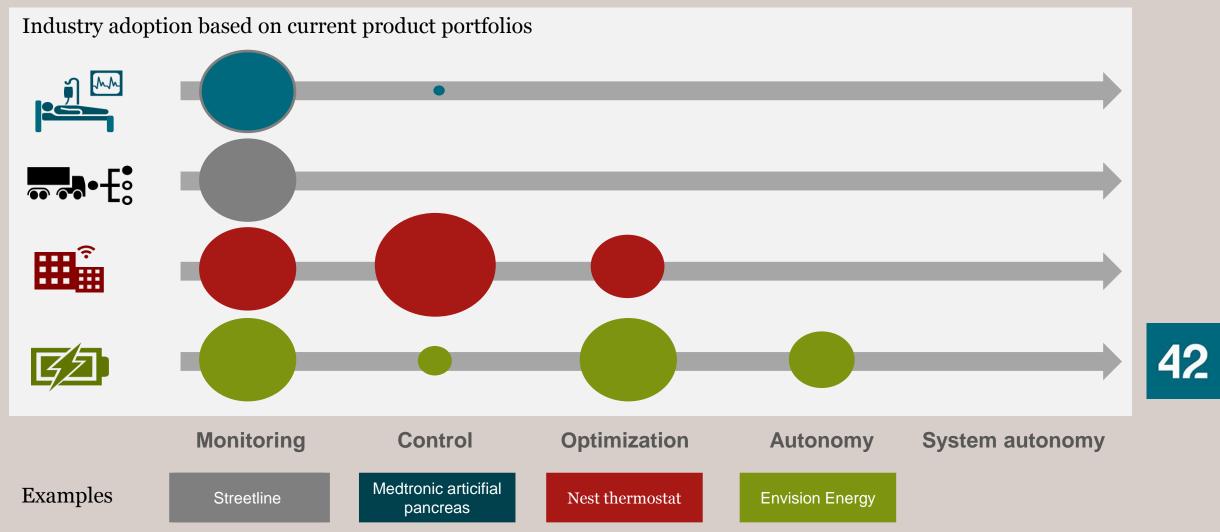
UTILITIES



49% annual growth in number of IoT connections

WE SEE IOT-CAPABILITIES IN 5 STEPS OF MATURITY

THE JOURNEY HAS BEGUN - BUT STILL MILES TO TRAVEL



WHAT WE HEARD

Paralyzation

Executive knowledge gap

Hesitation

Clash

Recognition

What

- Action is paralyzed by the impact of disruption (undermine current business)
- IoT potential is understood by CIOs, not top management
- Action is pending competitor moves, customer pull, or regulatory requirements
- Traditional governance structures do not embrace front-edge innovation
- Understanding of the inevitability of IoT. Limited IoT initiatives among most

Implication

- Risk of being change victims instead of change drivers
- IoT initiatives are under-funded / underprioritised
- Risk of corporate transition being slower than customer/ competitor change
- Innovation is discouraged
- Foundation for acceleration of IoT initiatives

Statement

- "A main impediment for IoT investment is its disruptive power to our industry and the insecurities that brings"
- "Executives and Directors have a poor understanding of IoT... We talk about IoT in Computerworld instead of Børsen"
- "If we were to invest in IoT in the coming 5 years, that would be a result of regulatory requirements"
- "We have a zealous governance structure... that does not easily embrace an unconventional business case like IoT"
- "In the future, data is king"

ADOPTION AMONG DANISH COMPANIES

WHAT WE SAW



Danish companies see significant potential in IoT

Agree

"I expect the Internet of Things to significantly impact our business, or will enable significant opportunities for cost or revenue gains, within the coming 3 years" But most companies are not ramping IoT investments significantly up

More than 10%

Less than 10%

No investments

"Our investments in Internet of Things are annually increasing by..."

And half of companies do not feel better positioned than competitors to capture the IoT opportunity

Do not agree

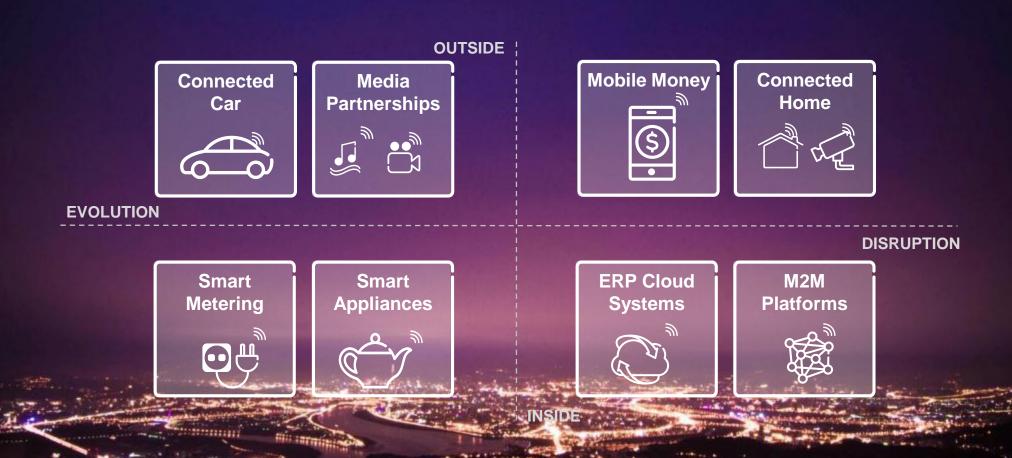
42

"We are better positioned than our competitors to capture the value of internet of Things"

Questionnaire, N=8

OPERATOR OPPORTUNITIES







SKT's Vision to Become a Cloud-based Service Platform Company

Alex Jinsung Choi, Ph.D.

Corporate CTO & Head of R&D

Going forward: Transformation into a platform company

Current: The fastest Fixed/Mobile services in the world

2020 Vision: Cloud-based Service Platform Company

Big Data Platform

- Mobile network data analytics (real-time & batch processing)
- Machine data mining & analytics for operation intelligence
- Hadoop-based data warehouse



Lifestyle Platform

- Life partner from healthcare to shopping to entertainment
- Agile development and deployment
- Data-driven fine grain market segmentation



Media Platform

- Video streaming, VOD, AR & VR
- Highest customer experience with QoS guarantees
- Context-based processing & delivery

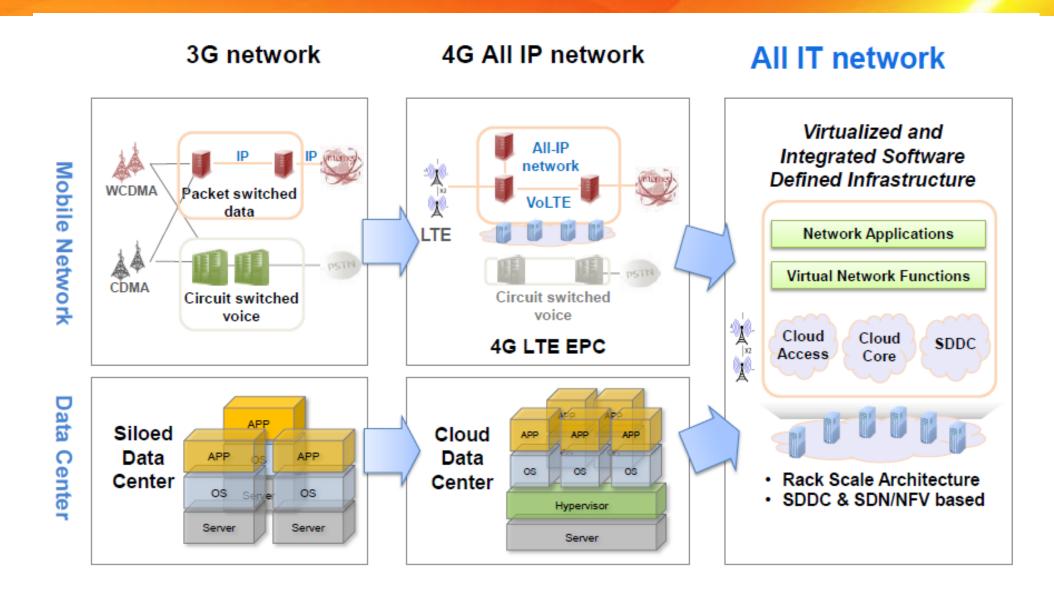


IoT Platform

- Smart home, Smart city, Industry 4.0
- Extreme QoS Guarantee (e.g. self-driving cars)
- IoT data collection & analysis

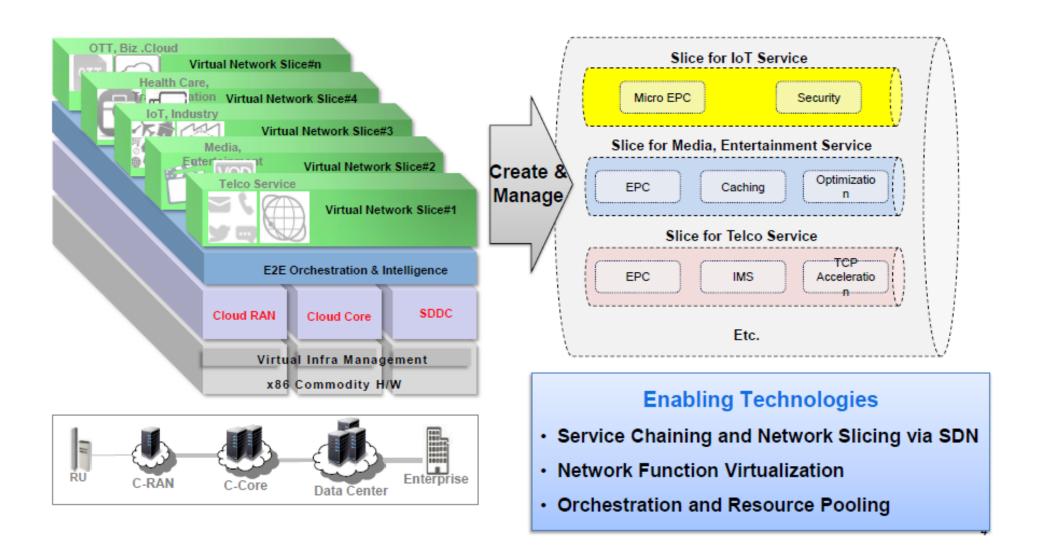


Network/IT Convergence Trend



All IT network infrastructure

Various business platforms will be created from the virtualized network



HOW TO CAPITALIZE CONNECTIVITY

3

- > Prepare your access network for M2M and IoT
- > Improved coverage indoor and wide-area
 - Deploy indoor solutions (will often require new operator agnostic solutions)
 - Extend range and penetration of existing access network (GSM and LTE)
 - Embrace new access technologies (LWPA)
- Connectivity related security
 - 3GPP TS 33.220 Generic Bootstrapping Architecture

CAPITALIZE YOUR OWN TRANSFORMATION



- Network Function Virtualization IS happening in Telecom
 - Why not embrace IT
- Operators need Cloud performance superior to most ICT services for own services (99,999% uptime, low latency etc.)
- > Cloud Service Offerings
 - Orchestration, deployment and governance
 - Security (storage, connectivity etc.)



IN 2030...



Millions of people have a life expectancy of 150 years or more

Food is grown in skyscrapers

3D printing and drone delivery provides close to real time supply

New buildings generate more energy than they consume



Learning a second language is no longer necessary

You don't need to drive your car unless you want to

Actors are out of work, replaced by animated artists

Cash is all digital and virtual currencies capture a large share of GDP

