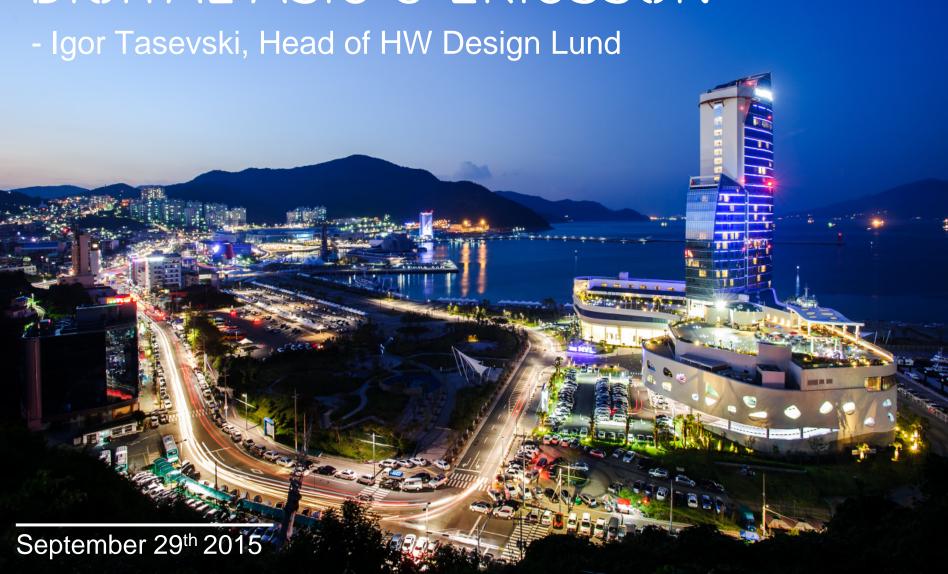
DIGITAL ASIC @ ERICSSON



AGENDA

- Introduction
 - Me
 - This is Ericsson
- Digital ASIC Development
 - Ericsson Lund
 - Design Flow
 - Systemization and Design
 - Verification
 - Challenges





IGOR TASEVSKI

Education

- M.SC in Electrical Engineering, major in Telecom
- Several courses within leadership, economics and this one!

Current Assignment

Head of HW Design Lund

> Ericsson Experience

- Section Manager, Digital ASIC Implementation
- Section Manager, Digital ASIC System Verification
- Department Manager, Use Case Validation
- Technical Manager, Multimedia validation
- Team Leader, Streaming Services
- SW Development Engineer, Streaming & Video Telephony









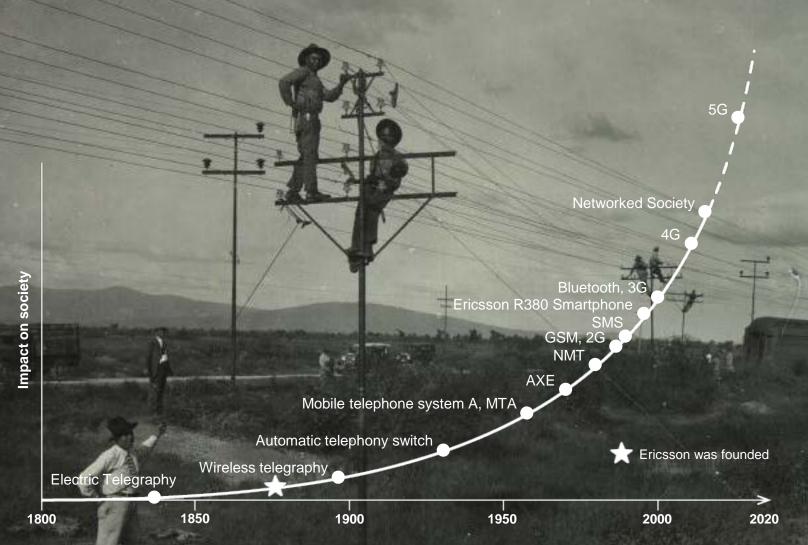




'COMMUNICATION IS A BASIC HUMAN NEED'

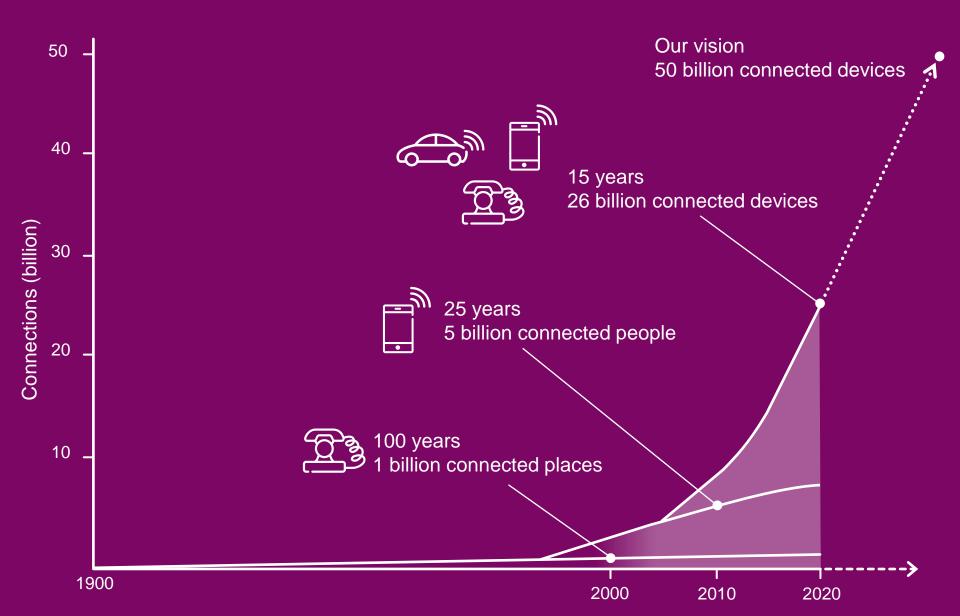


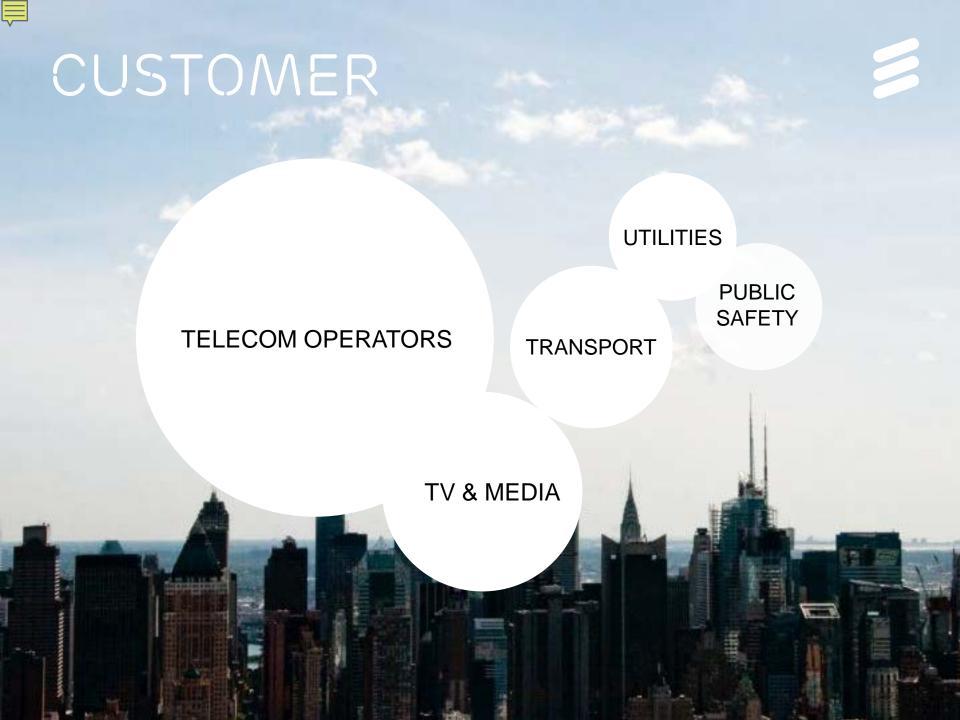
ericssonhistory.com



PACE OF CHANGE







A TALENTED WORKFORCE





of our employees are under the age of 35

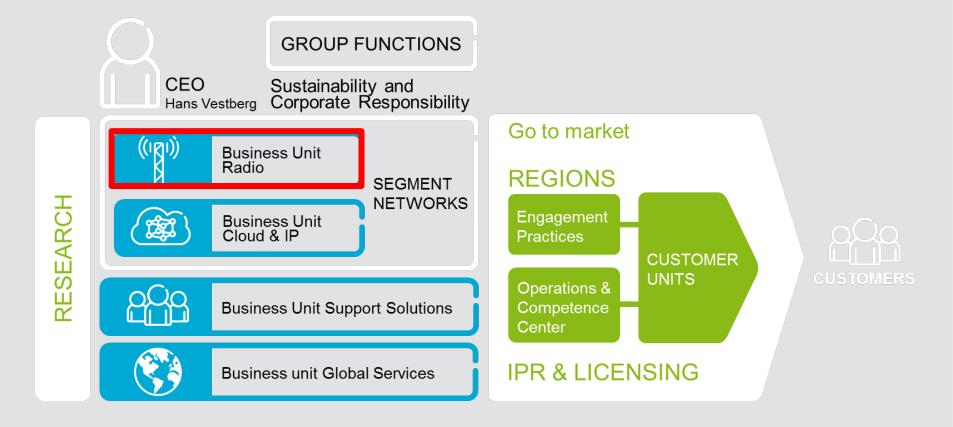
languages are spoken by our employees

of our employees are dedicated to R&D





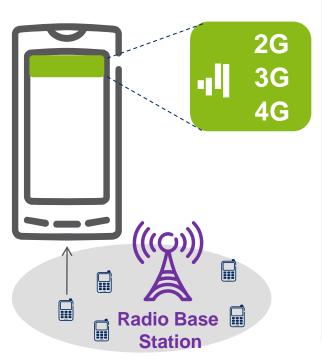
4 BUSINESS UNITS TO BEST REFLECT OUR BUSINESS



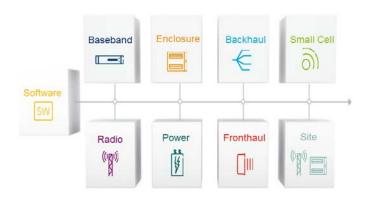


ERICSSON RADIO SYSTEMS













DIGITAL ASIC DEVELOPMENT



ERICSSON LUND 30 YEARS EXPERIENCE IN DEVICES







Galaxy Note 4



3G devices from Sony, Samsung, Sharp, Blackberry, ...























Integration

- Single RF IC, >17 bands
- Single Digital IC, all RATs
- Multicore ARM/DSP
- Linux

Energy Efficiency

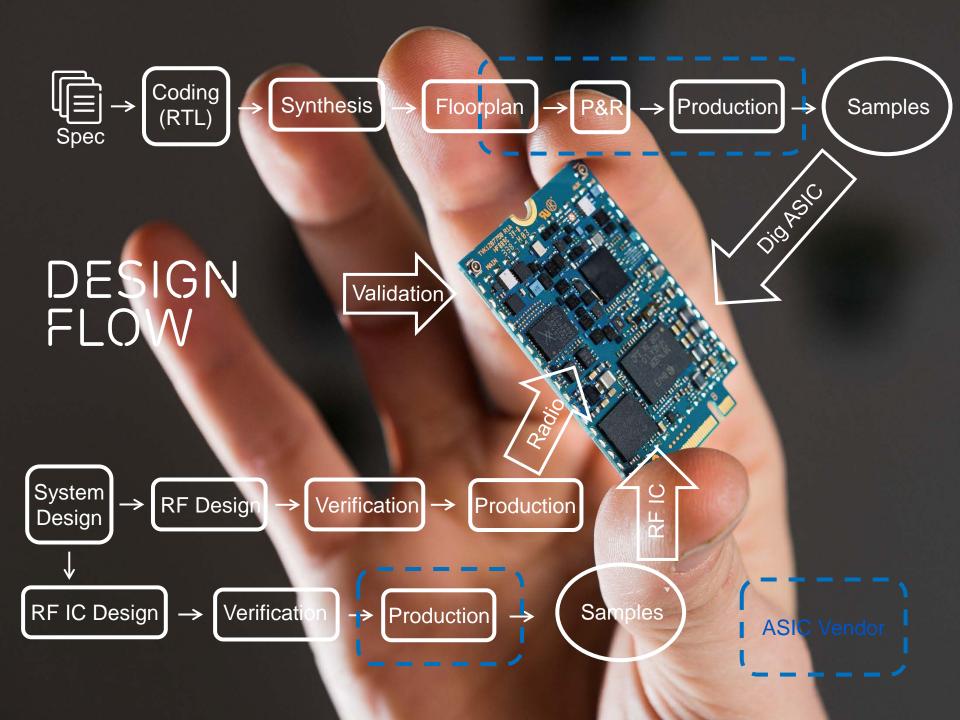
- Processing and data flows
- 150/50 Mbps at less than 1W
- Idle at few mW

Ways of Working

- Continuous integration
- Agile

Customer Interaction

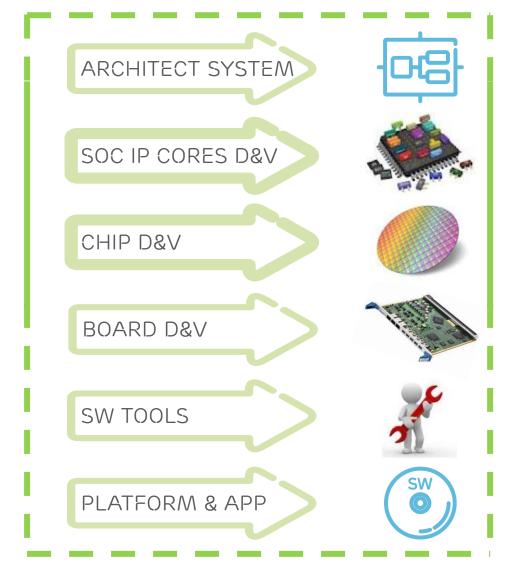
- Daily deliveries
- Fast response rate





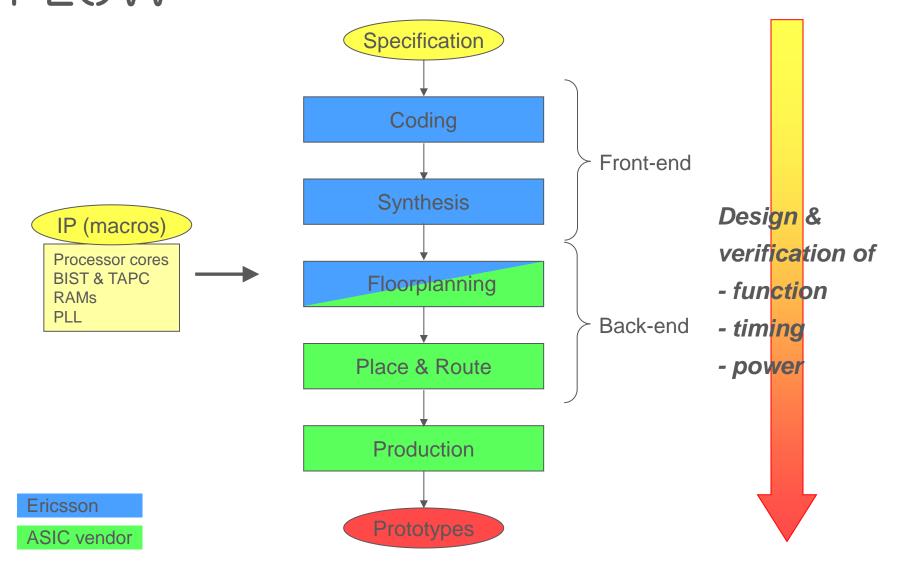
SYSTEM DESIGN PROCESS 5





TYPICAL ASIC DESIGN FLOW

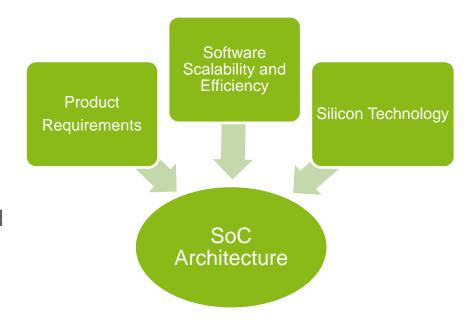




KEY DRIVERS



- Products
 - Scalability from low capacity to large
 - Cost and power
- Software scalability and programming efficiency
 - Ease of programming
- Silicon Technology
 - The physics to get performance and efficiency
- SoC architecture
 - A many-core architecture evolving since late 90'



A&Q

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ERICSSON