

# Nordic Semiconductor

- A global leading IoT enabler

Pareto TechSaaS Conference  
November 2023



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# Simplifying lives through all things connected



- Fabless semiconductor company specialized in low power wireless connectivity and embedded processing for IoT
- Market leader in Bluetooth Low Energy
- Early adopter of Thread (802.15.4) and support for Zigbee
- Launched Wi-Fi 6 connectivity (dual band)
- Committed to Matter - active contribution to Matter SW development
- Early mover in cellular IoT & 5G with LTE-M, NB-IoT and DECT NR+
- Value added device control and management services through nRFCloud

Founded  
1983

Employees  
1,530 (~75% R&D)

Oslo listing  
OSEBX:NOD

R&D in  
Norway, Finland, Poland, US, UK, India, Sweden

Revenue in 2023 \*based on midpoint guided Q4 revenue  
555m USD\*

# Dedicated to wireless connectivity

Broad portfolio - scalable solutions - unified software platform

Strong product and solutions portfolio...



Low-power integrated circuits (ICs)

+



Embedded software

+



Advanced development tools

...for short-, medium- and long-range connectivity technologies

## Short-range IoT

Bluetooth LE, 802.15.4/  
Thread, Zigbee, Matter and  
2.4GHz RF SoCs



## Medium-range IoT

Wi-Fi 6



## Long-range IoT

Multi-mode cellular  
LTE-M/NB-IoT Modules  
5G NR+

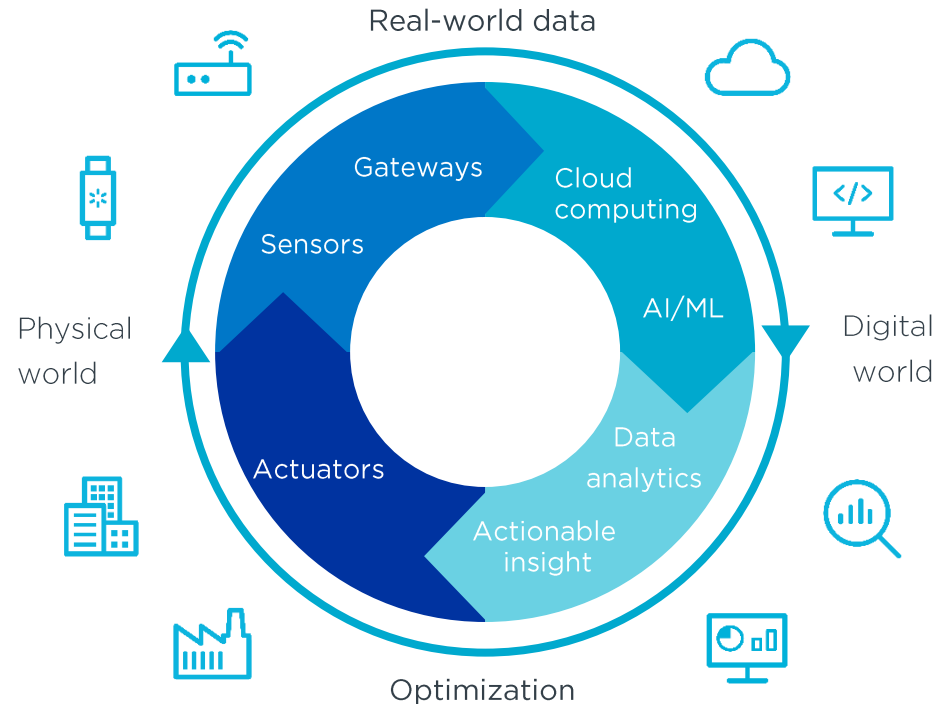


# IoT: Connect, Compute, Analyze and Act

## IoT starts with connecting things

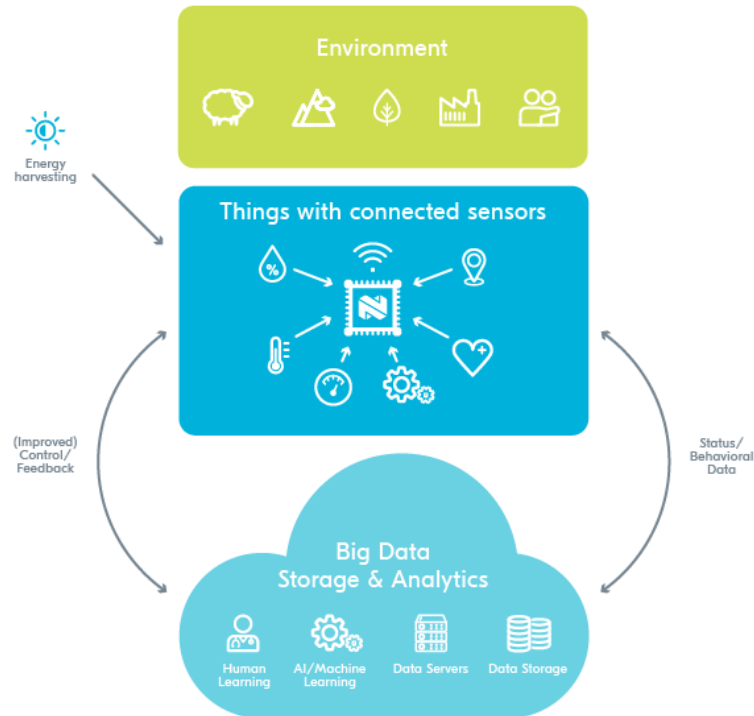
Bridging the physical and digital worlds requires:

- advanced connectivity solutions
- powerful low power compute
- accurate sensing capability



# Sustainability thrives on IoT, big data & cloud

## IoT is crucial to deliver on UN SDGs



Nordic is making 'things' more capable and efficient by:

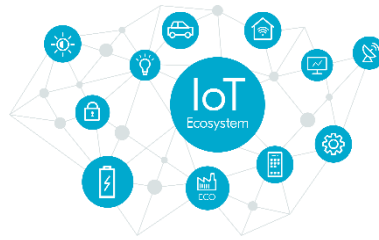
- Lowering power consumption
  - Increasing computational capability
  - Adding AI/ML Capability
  - Adding sensor capabilities
- 
- Enabling a large variety of sustainable applications
    - Precision farming
    - Climate smart cities and communities
    - Smart mobility
    - Energy efficiency of buildings
    - Sustainable manufacturing and waste reduction
    - Extreme weather and climate impact modelling

# Internet of Things is becoming ubiquitous



## Sustainability

Disruptive IoT projects can contribute immensely to UN SDGs



## Platform ecosystems

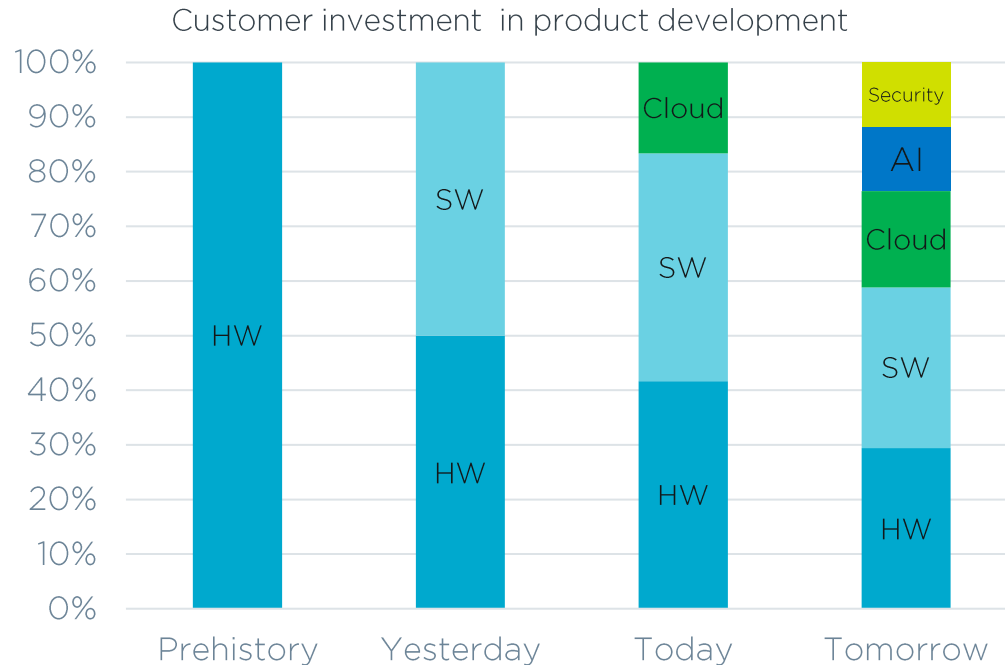
Alignment across platforms will further fuel market growth



## Industrial IoT

Connecting the physical world and the digital world;  
Sensors - Cloud computing - Analytics - Actuators

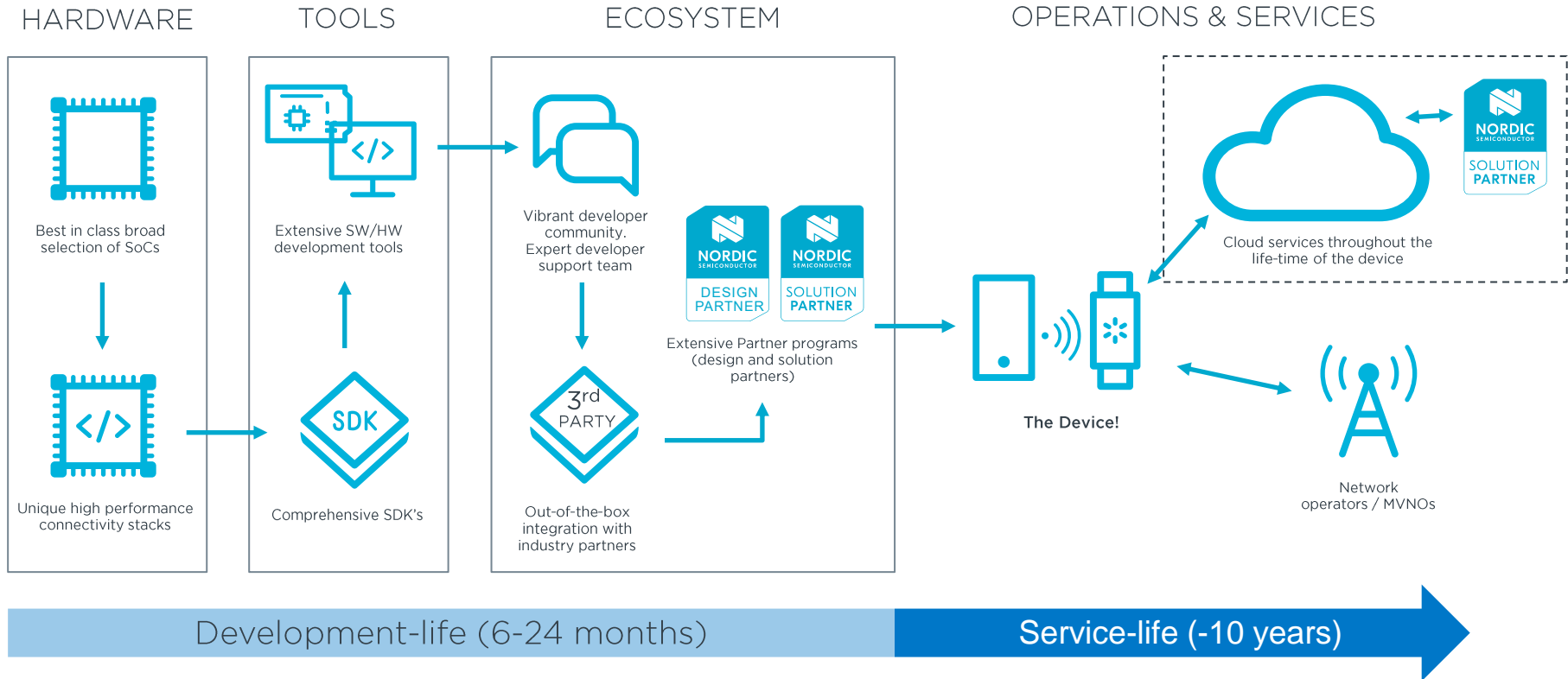
# Delivering on our customers' needs



- Nordic is providing solutions to our customers reaching beyond ICs
- Investments in Software, Cloud, AI and Security is essential for the next growth wave



# Addressing the customer and the device journey



# Nordic a company in continuous transition

## A complete IoT solution provider

### In the past

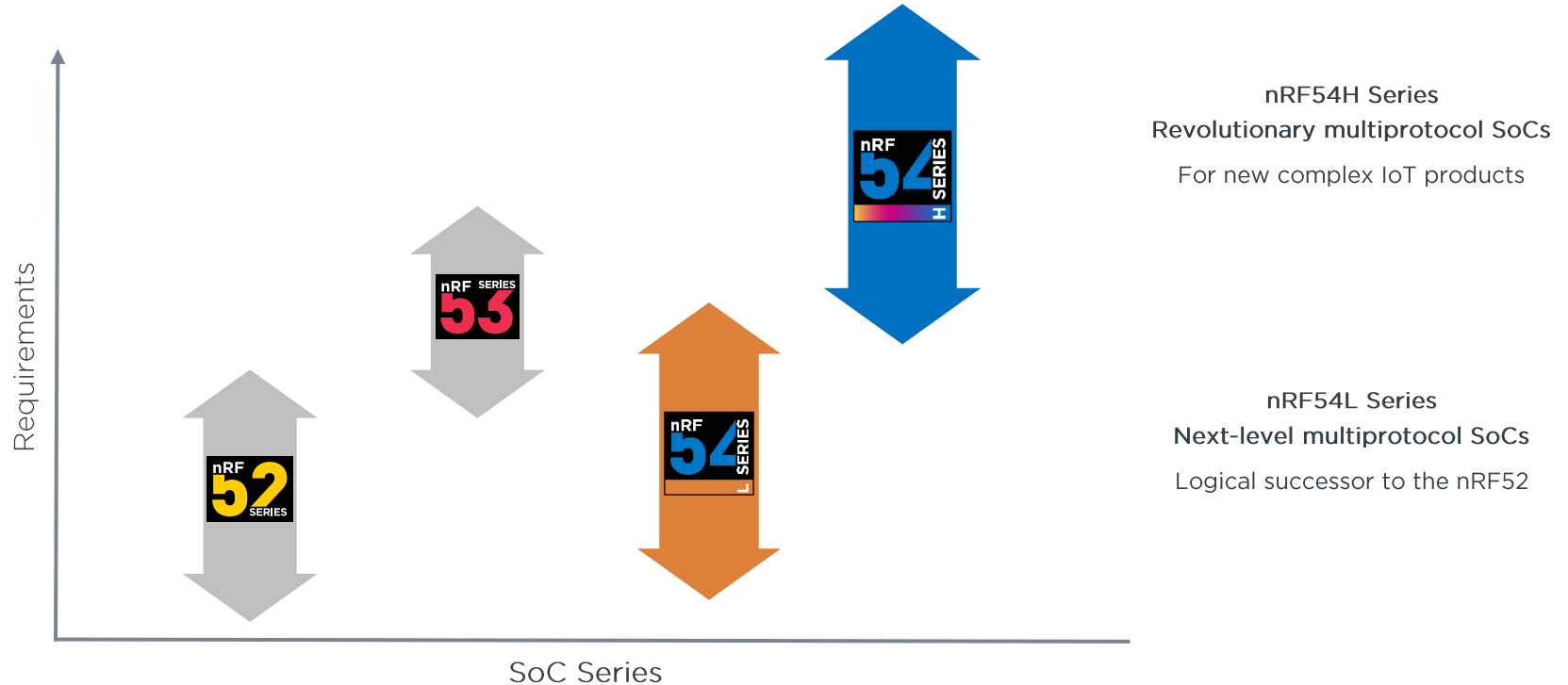
- Proprietary and BLE main revenue driver
- Broad portfolio of smaller customer
- High single source technology node dependency

### Present

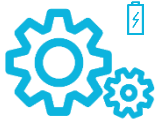
- Broad device portfolio with BLE, Cellular, PMIC, Wi-Fi, Cloud based services and AI/ML
- Strong Tier1 relationships while continue catering to broad market
- Strategic partner with key customers, shaping roadmap and IoT future
- Expanding into new technology nodes and new foundry partners

# Nordic raising the bar once again

## nRF54 - maintaining our market leading performance



# Cornerstones of the nRF54 Series



Higher processing power  
lower power consumption

## 22nm

Smallest and most modern  
process node for connectivity in IoT

# nRF54 SERIES



More security integrated  
ensuring its readiness for the next  
generation of IoT



4<sup>th</sup> generation Nordic radio  
equipped to support future Bluetooth  
specification updates

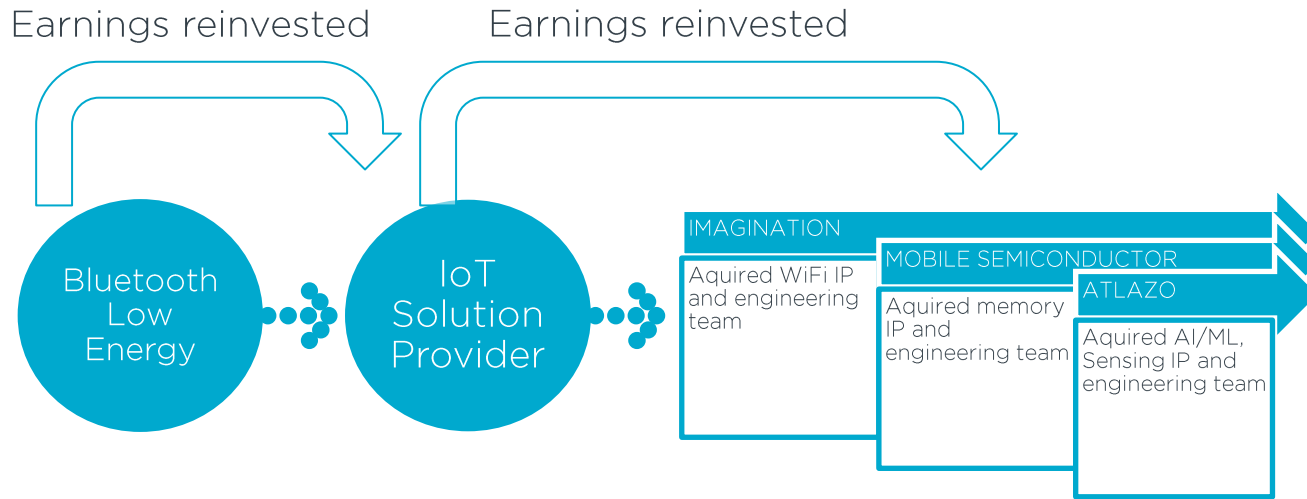


5.4 LE Audio Mesh



2.4 GHz  
4 Mbps throughput

# Nordic roadmap strengthen by strategic acquisitions



- Capitalizing on external opportunities together with organic growth
- Strong strategic fit complementing internal innovation
- Shaping the future of IoT

# Securing leadership in ultra-low power memory



*"We are very excited to bring on-board this world class team, recognized as an industry leader in optimized, low voltage embedded SRAM designs. A team we know intimately from years of working together."*

Svein-Egil Nielsen CTO/EVP R&D and Strategy

- Technology acquisition of Mobile Semiconductor
  - Market-proven track record of delivering ultra-low power-performance-optimized, leading-edge static RAM (SRAM) memory technology for various MCUs and SoCs
  - Small team based in the US (Seattle, Washington)
- Mobile Semiconductor's memory technology already used in our nRF52, nRF53 and nRF91 Series devices
  - Also engaged for the next generation Nordic products
- Ultra-low power operation is a vital sustainability requirement

# Nordic acquires AI/ML tech IP and team

## Harnessing the power of AI to transform our position in the IOT market

- Bolt-on acquisition of high strategic significance
- Buying the IP portfolio and employing small core team in San Diego
  - › Always-on AI/ML accelerator – a key differentiator in the future
  - › Smart Health analog front-ends
  - › Power Management IC (PMIC)
- Expecting to see initial benefits within 12-18 months from closing\*



*"This brings a new level of always-on AI/ML capabilities and technologies that will strengthen our core business"*

Kjetil Holstad,  
EVP Strategy and Product Management

# Nordic investing into open-source RISC-V

- Establishing a new company\* together with other major semiconductor players:
  - Nordic Semiconductor, NXP, Qualcomm, Bosch, and Infineon
- Aiming to **accelerate the commercialization** of future products based on the open-source RISC-V architecture





# Welcome to the Future



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