Hello, and welcome to the STM32WB training session.
This session is organized to provide you with the most important information to ensure that you can develop your application as easily as possible. You will find a technical description of all the STM32WB modules including peripherals and development tools organized into specific sections: system, memory, security, analog, peripherals, watchdog and timers and ecosystem. You can browse each section separately and learn about each module in the order of your choice and at your convenience. This session also allows you to search directly for a keyword and you will have a direct access to the sections covering this information.
Now, let’s take a closer look at the STM32WB new series of wireless microcontrollers.
The STM32WB microcontroller is a new series of wireless MCUs with built-in BLE 5.0 and IEEE 802.15.4 RF modules. It is an evolution of the well-known market-leading STM32L4 ultra-low-power series of MCUs extended with new peripherals to support the widest range of use cases and enriched with additional low-power functions to improve the overall power efficiency.

The STM32WB embeds a dual-core architecture with a Cortex-M4 core used as an application processor CPU1, and a Cortex-M0+ core used as connectivity processor CPU2. The advantage of this dual-core architecture is that the connectivity processor handles all real-time aspects of the wireless protocols, and the application processor can freely be dedicated to the application with no real time constrains. The Radio sub-system is the third sub-system that can work autonomously and independently from the two CPUs.
Thanks to its rich set of features, the STM32WB can support a wide range of use cases from lighting to healthcare, from home monitoring to industrial control and any other IOT devices.
This slide summarizes the 7 key points that make a difference for the selection of the STM32WB microcontroller for a new project.
With two totally independent cores, this innovative architecture is optimized for real-time execution (radio-related software processing), resource use flexibility, power management, and BOM cost, to bring a better user experience.
The STM32WB series benefits from ST's long experience in developing STM32 microcontrollers as well as a rich ecosystem based on its hardware and software tools already used throughout the STM32 MCU family.
Now let's get started with the training. Do not hesitate to follow the events and news about this product on our website at www.st.com/stm32wb.

Enjoy!