



# ST Wireless in industrial applications

Gang WU



#### 1 ST wireless

#### 2 Smart industrial applications



#### **ST Wireless**



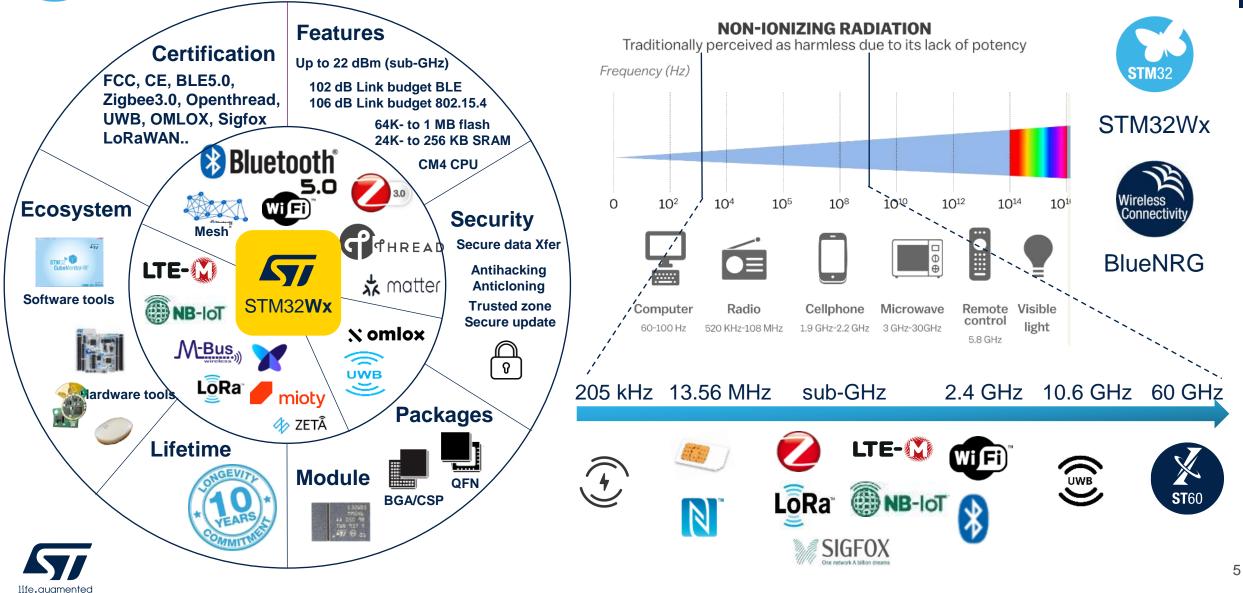
#### Communication technologies overview



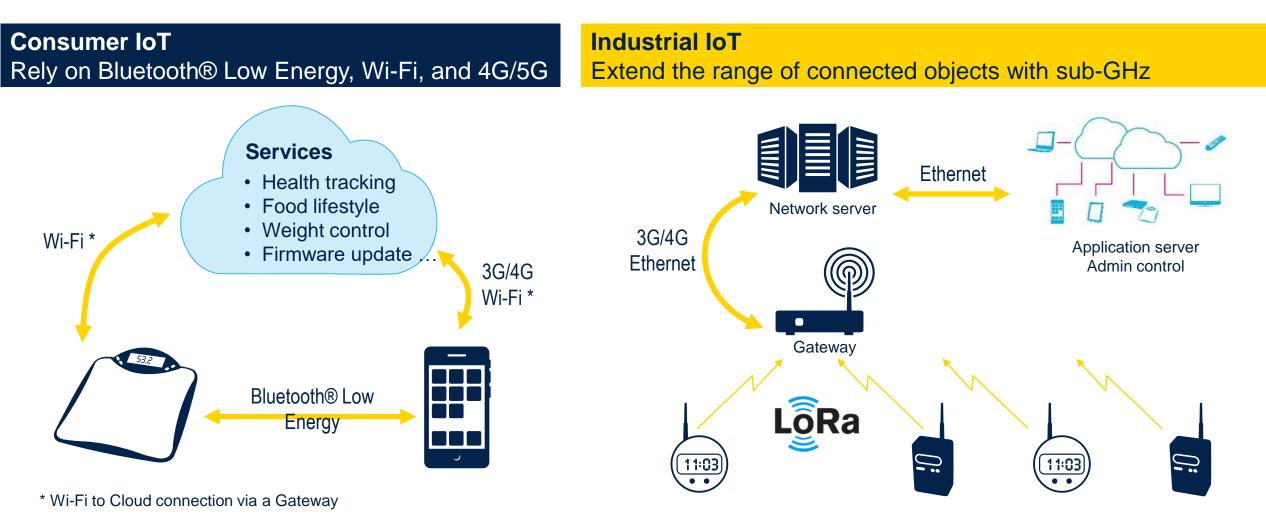




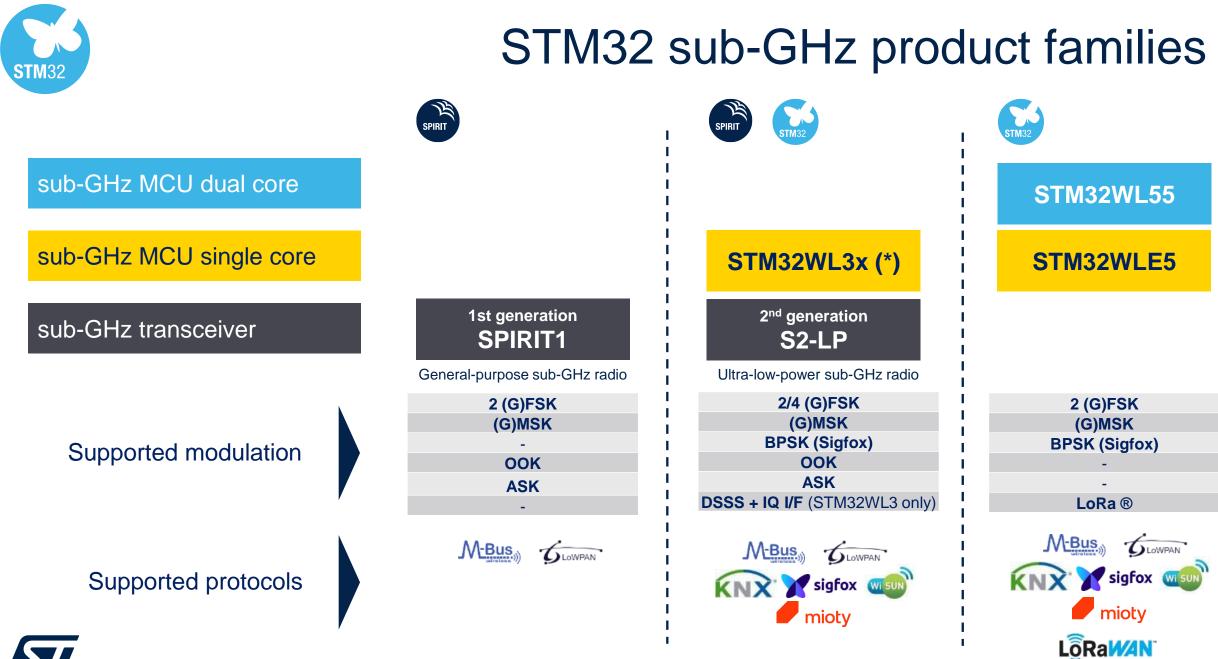
#### STM32 wireless offer



#### sub-GHz takes Industrial IoT a step further





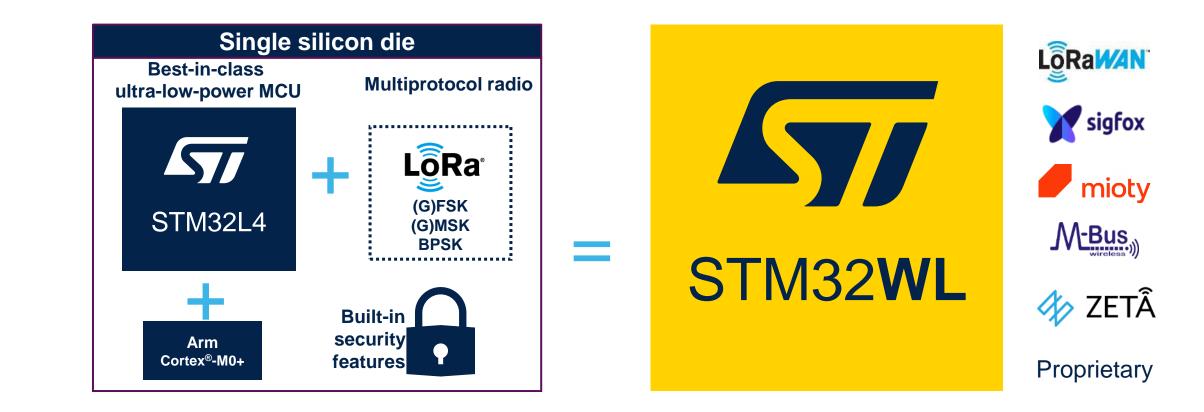


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#### STM32WL5X The world's first LoRa SoC

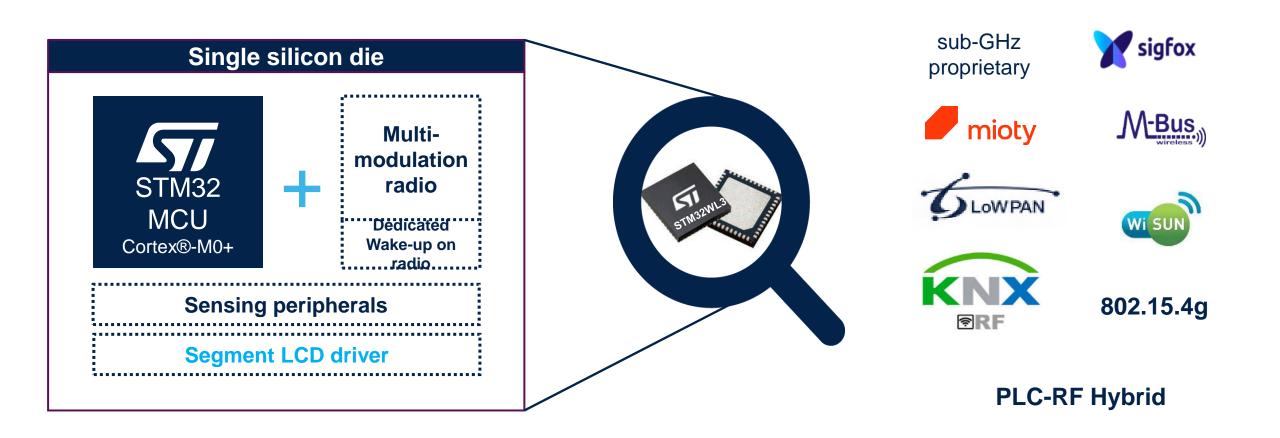
A Sub-1GHz wireless MCU supporting long range wireless protocols







#### STM32WL5X Small form factor, reduced BOM, simple PCB design







#### A wide 2.4 GHz portfolio

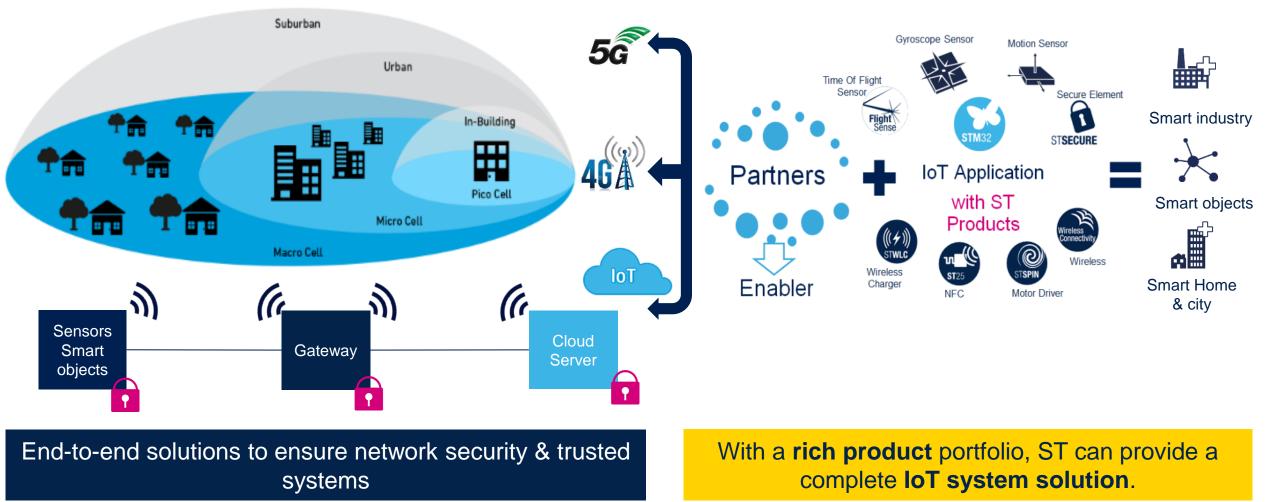


#### **Smart Industrial Applications**



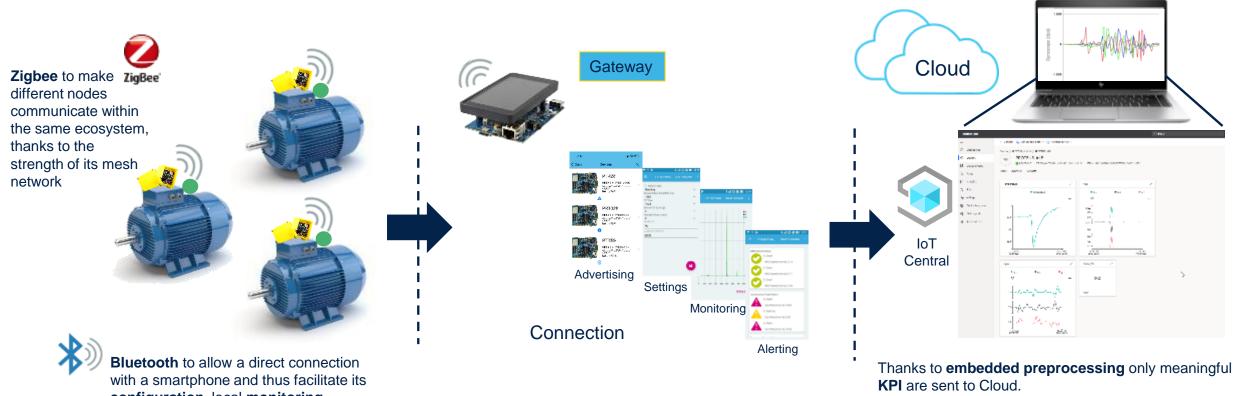


#### IoT system solutions





#### Condition monitoring with STEVAL-PROTEUS1



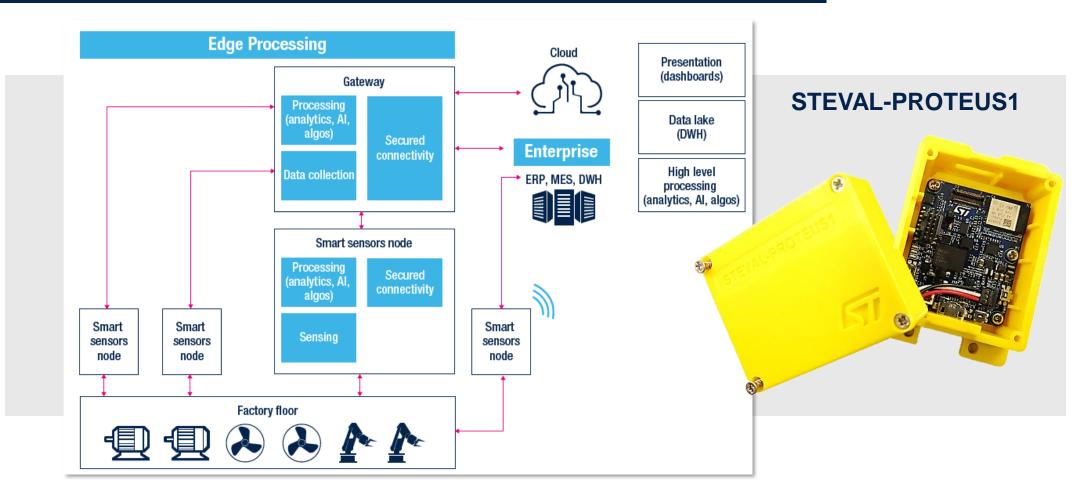
**configuration**, local **monitoring equipment status** and firmware upgrade over the air (**FUOTA**)

Machine **trends**, **statistics reports** and **alarm events** boost maintenance process.



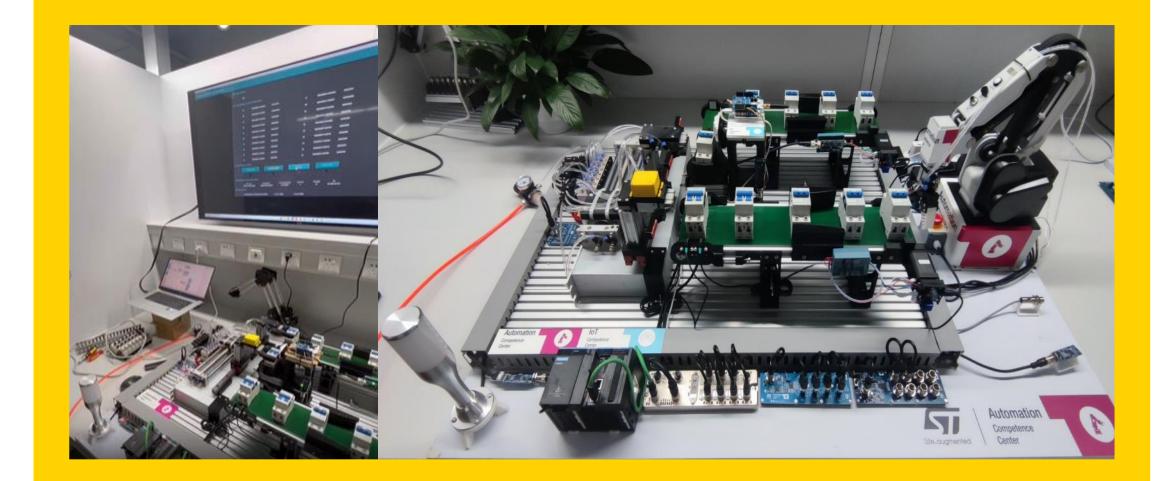
### **STEVAL-PROTEUS1** applications

**Every Industry 4.0 or industry 5.0 application at field level is built around smart sensors** 





#### Factory automation



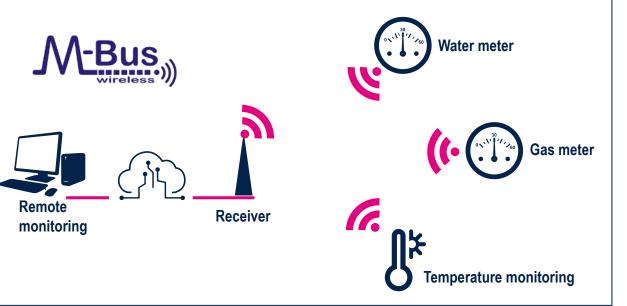


#### WMBUS



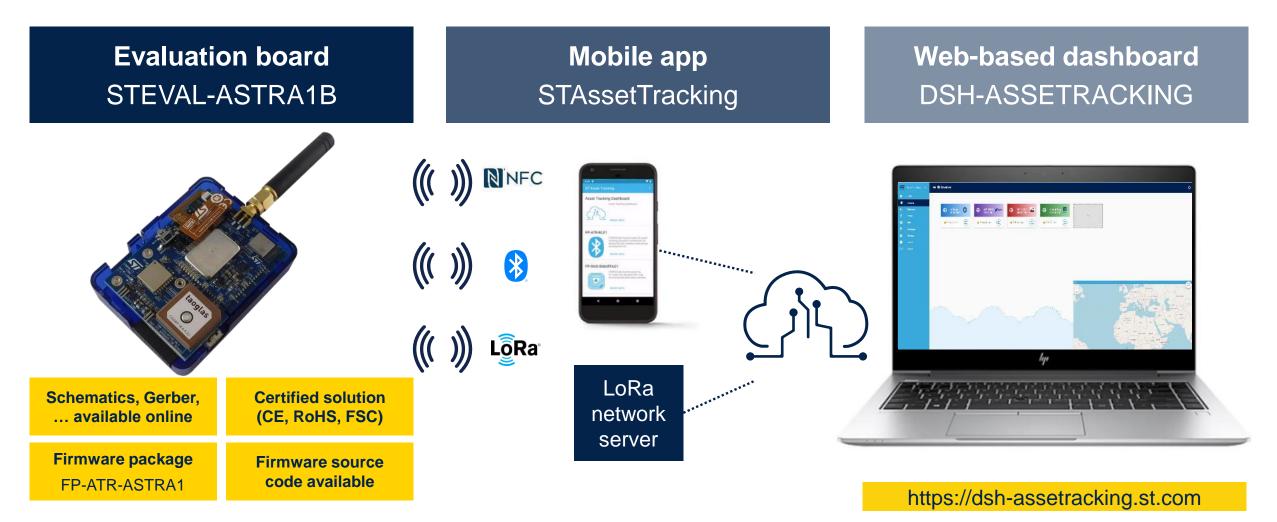
#### ST WMBUS package

- WMBUS stack can be provided as libs or source code
  - EN 13757-4 Release 2013
- EN 13757-3 WMBUS application examples
  - OMS/DSMR





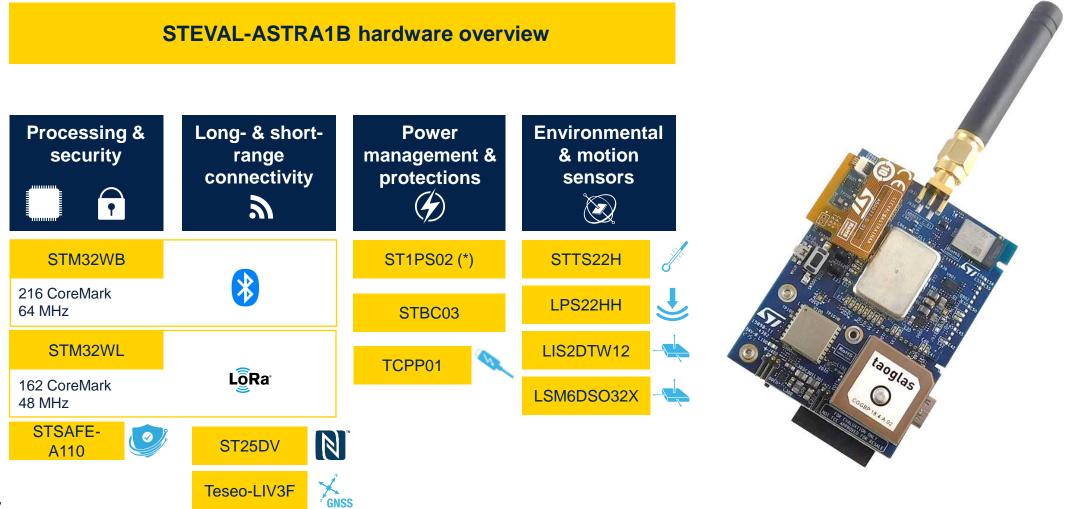
#### Asset tracking applications





#### STEVAL-ASTRA1B Asset tracking solution







#### Metering









Industrial Summit download center



ST Power & SPIN microsite (CN Only)





## Our technology starts with You



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