

BITTIUM VETURI PROGRAM ▶

Seamless and Secure Connectivity Ecosystem

BUSINESS
FINLAND

Bittium

Program Targets

1. To develop applicable 5G and beyond End – to End digital infrastructures, systems and processes to achieve *interoperable*, *seamless* and *secure connectivity* and as a result cyber resilience for information security attacks
2. To advance *creation of medical end-to-end diagnostics (life-cycle) solutions* with help of software intensive and machine learning / artificial intelligence technologies and significant improvement of development models.
 - Application into other mission critical areas (life-cycle solutions)



Focus Areas



Secure Encryption Technologies



Highly Secure Communications
in the Future Networks



Secure End-to-End Verticals



Scaled Sensor Fusion Applications



Significant development
models improvement



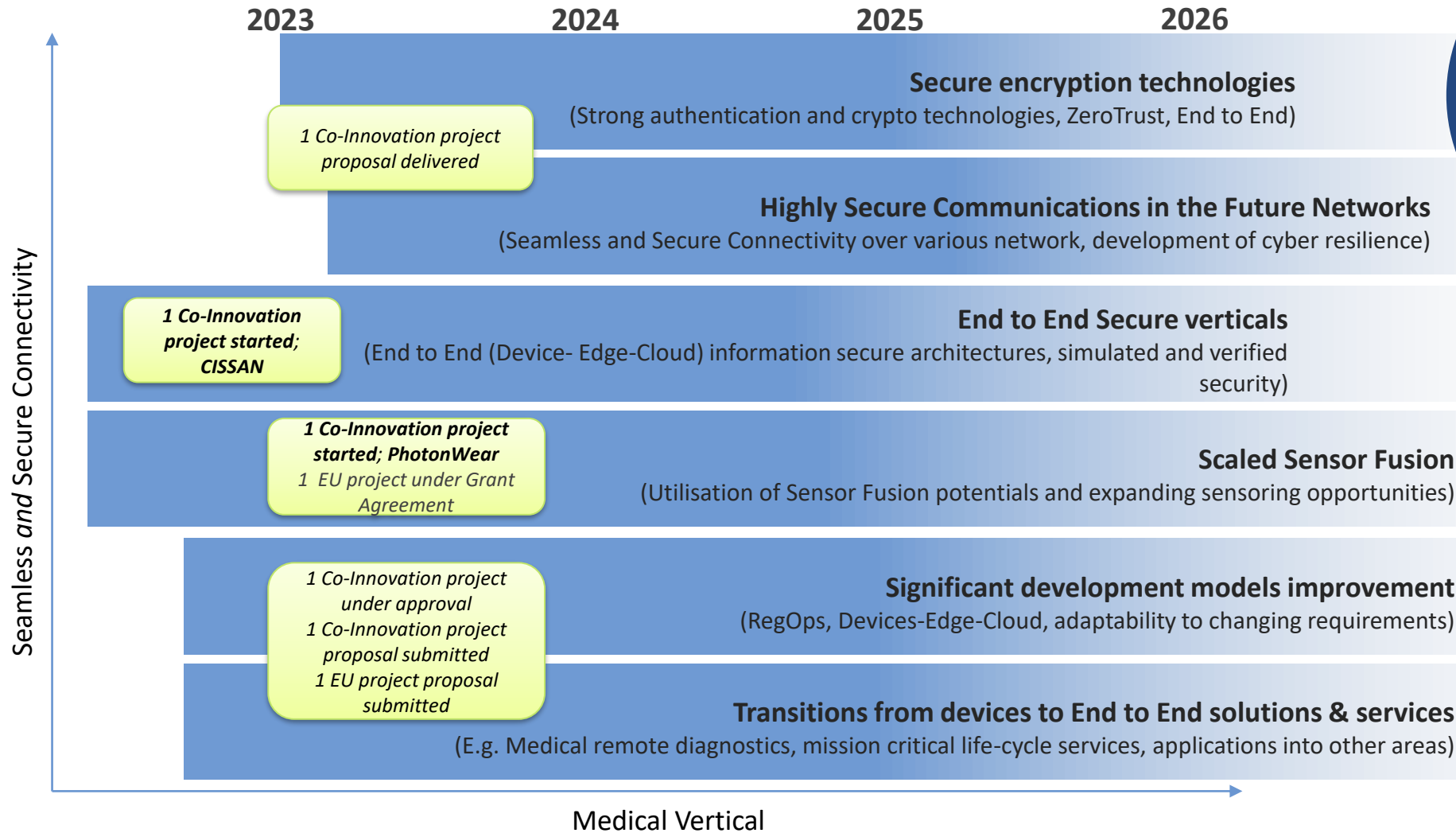
Transitions from devices
to E2E services

Status 20.3.2024

- Some 50 direct ecosystem partners in collaboration discussions
- Total volume of Veturi + related international projects network is some 70 M€ so far.

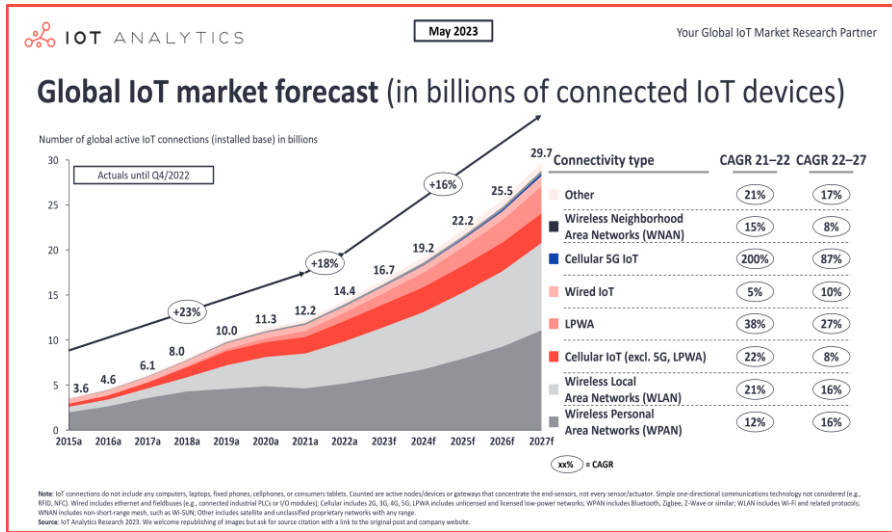
Program Roadmap

Vision 2030
Seamless
And Secure
Connectivity

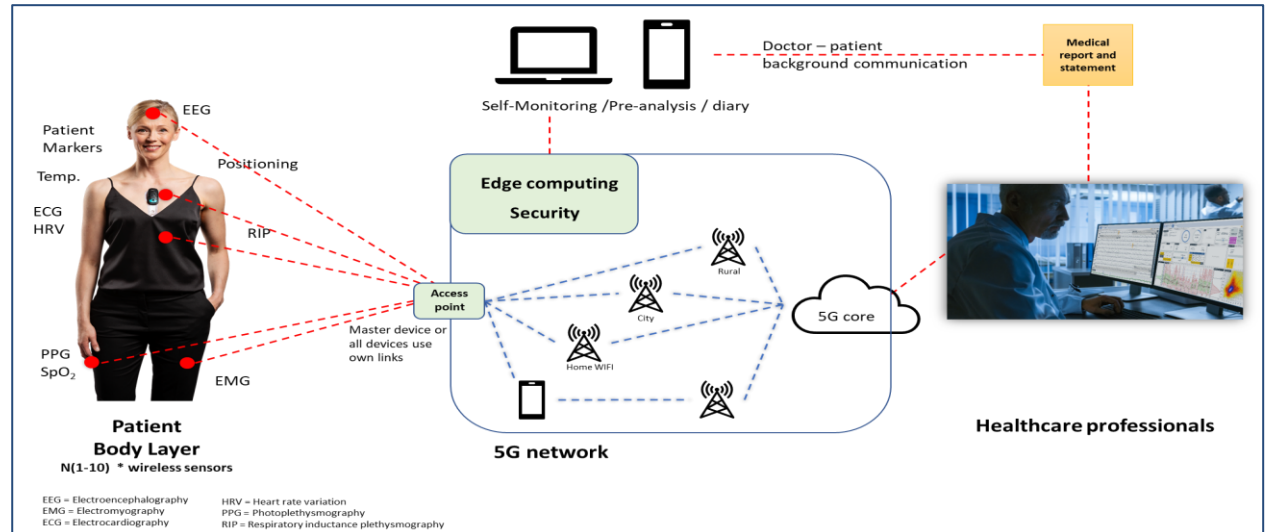


Medical Vertical

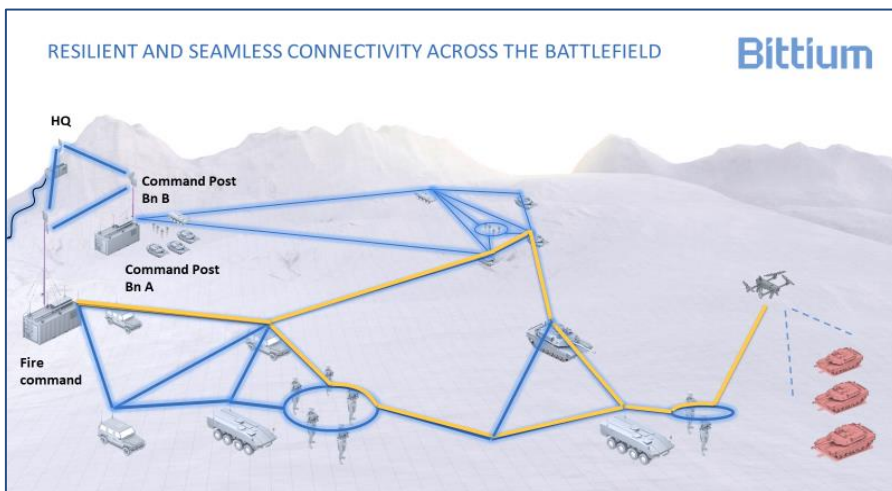
Examples of the Needs for Seamless and Secure Connectivity in 5G and Beyond



Source: IoT analytics, May 2023
<https://iot-analytics.com/wp/wp-content/uploads/2023/05/Global-IoT-market-forecast-in-billions-of-connected-IoT-devices.png>



Source: Bittium



Source: Bittium

- ### Examples for Research Themes in the E2E Context
- Roadmaps and technologies for future end-to-end secure encryption technology utilization
 - Quantum safe technologies (e.g. PQC)
 - Security approaches like Zero Trust
 - Scaled sensor fusion and related technologies
 - RegOps development methods
 - Intensive use of ML/AI or modern LLM methods in a regulated environments, while maintaining security and safety aspects



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