

Unlocking Industrial 5G Beyond Connectivity

Nokia Veturi Program

Themes for the ecosystem R&D partners

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Background

- Selected topics are aligned with Nokia Veturi Program's scope of work and would accelerate the ecosystem building on the selected domains
- Ecosystem proposals must describe the value of the work for Industrial 5G and ecosystem development
- Selection process and the presented timescale will be planned in detail together with Business Finland depending on the number and quality of the received proposals
- Schedule-related changes are possible

Nokia Veturi Program – Key themes for new R&D proposals

System-on-Chip (SoC) – SoC architecture and novel technology enablers for the industry verticals & Technology enablers - Custom processor core development - open source approach (ASIP/RISC-V)

AI-Based Situational Awareness Intelligent and connected digital twin technology enablers in the industrial context

Mining - Industrial 5G for the connected mines: technology enablers and architecture, tele-remote mining, and common data enabling modeling

Energy - Future Distributed Architecture for Improved Smart Grid Monitoring and Control & Energy aggregation

Future M2M autonomy - Time Sensitive Communication and application networking protocols with Industrial 5G, future machine to machine real-time collaboration, autonomous remote control, synchronous motion control and vision systems

Optimized antenna technology, simulations and innovations for industrial 5G networks at virtualized end-user environment

Smart Water - The use of low power communications and new low cost low power sensors, smart meters, control and monitoring systems and analytics

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