BOWW x InnoNT

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Information on the InnoNT Funding Program

INNOVATIVE NETZTECHNOLOGIEN

Implementation

- Funding guideline 08/2022
  - Scope: feasibility studies and research & development projects
- 1st call for funding 09/2022
  - Projekts started from 12/2022
  - Networking among projects from 06/2023
- 2nd call for funding 03/2023
  - Focal points: Technological delevopment & demonstration, use in the mobility sector, nomadic radio networks, blueprints for sector-specific campus networks
  - Start of projects from 10/2023

Overview of the Funding Program

INNOVATIVE NETZTECHNOLOGIEN

Context of the funding guideline

- Economic stimulus, crisis management and economic stimulus package (KoPa, 03.06.2020)
  - No. 45 („Future Communication Technologies"); BMBF, BMI, BMWK, BMDV
- Contribution to the federal government's gigabit strategy

Classification of the funding guideline

- Increasing importance of mobile communications, also in „Industry 4.0" and campus networks
- Advantages of disaggregated network solutions, in particular „Open RAN"

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INNOVATIVE NETZTECHNOLOGIEN

Objectives of the funding guideline

- Increase the variety of products and reduce expansion costs
- Reduce dependence on propietary solutions
- Requirement-specific, high-performance product portfolio
- Facilitate market entry for start-ups and SMEs
- Timely updates to future technologies
- Accelaration of network expansion
- Increased security, resilience, energy efficiency, resource utilization, and sustainability
- Reliable and regional supply chains

KPI

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36 Projects

€ 110 million funding

Projects ranging from 10 months to 3 years

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Overview of the Funding Program

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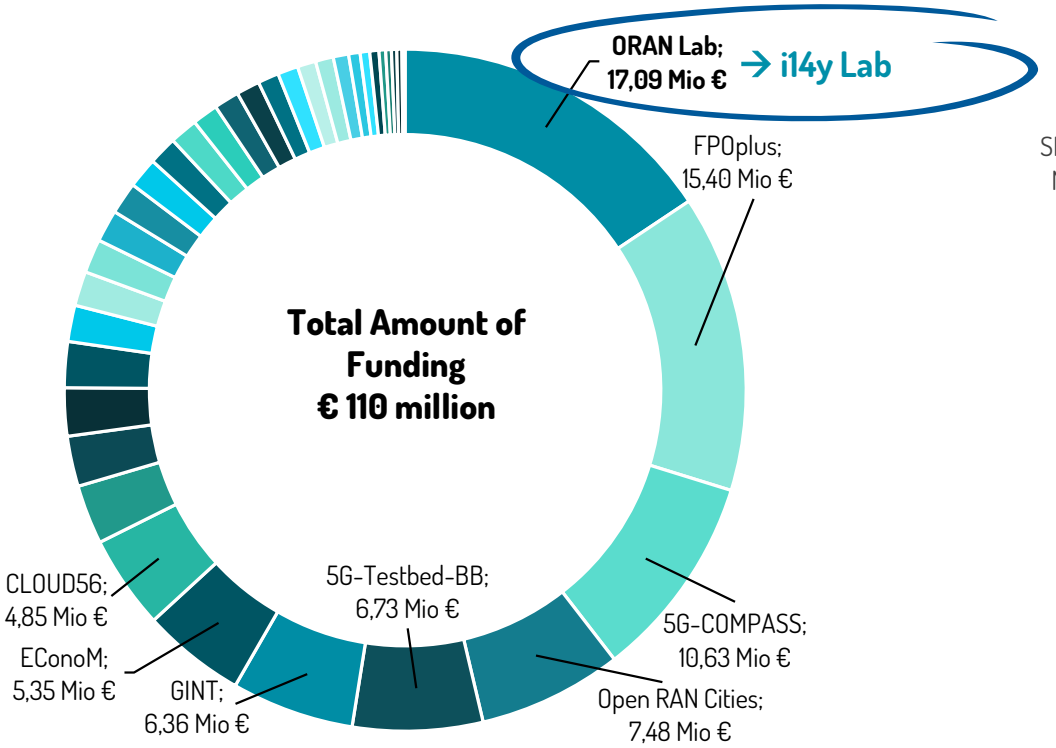

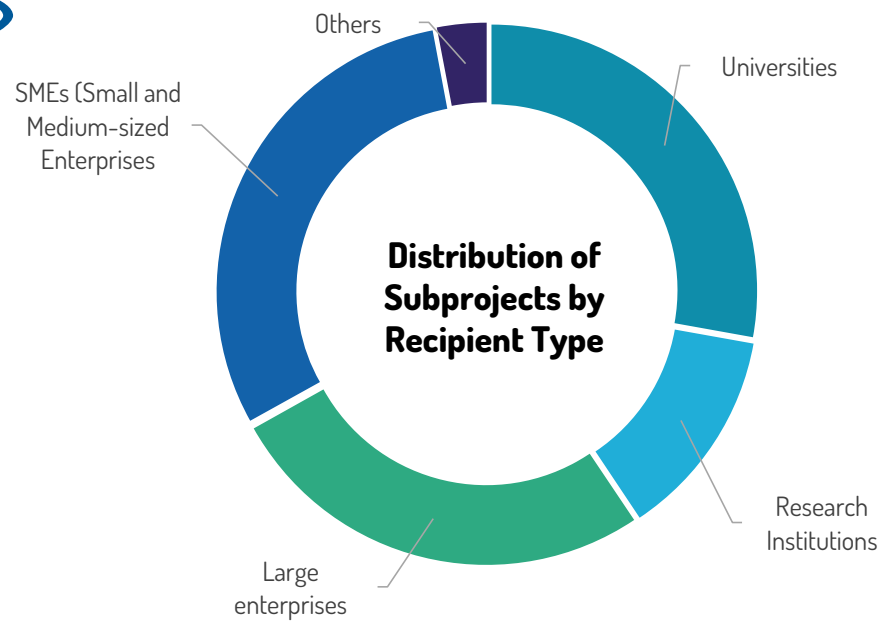

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Scope of the Program

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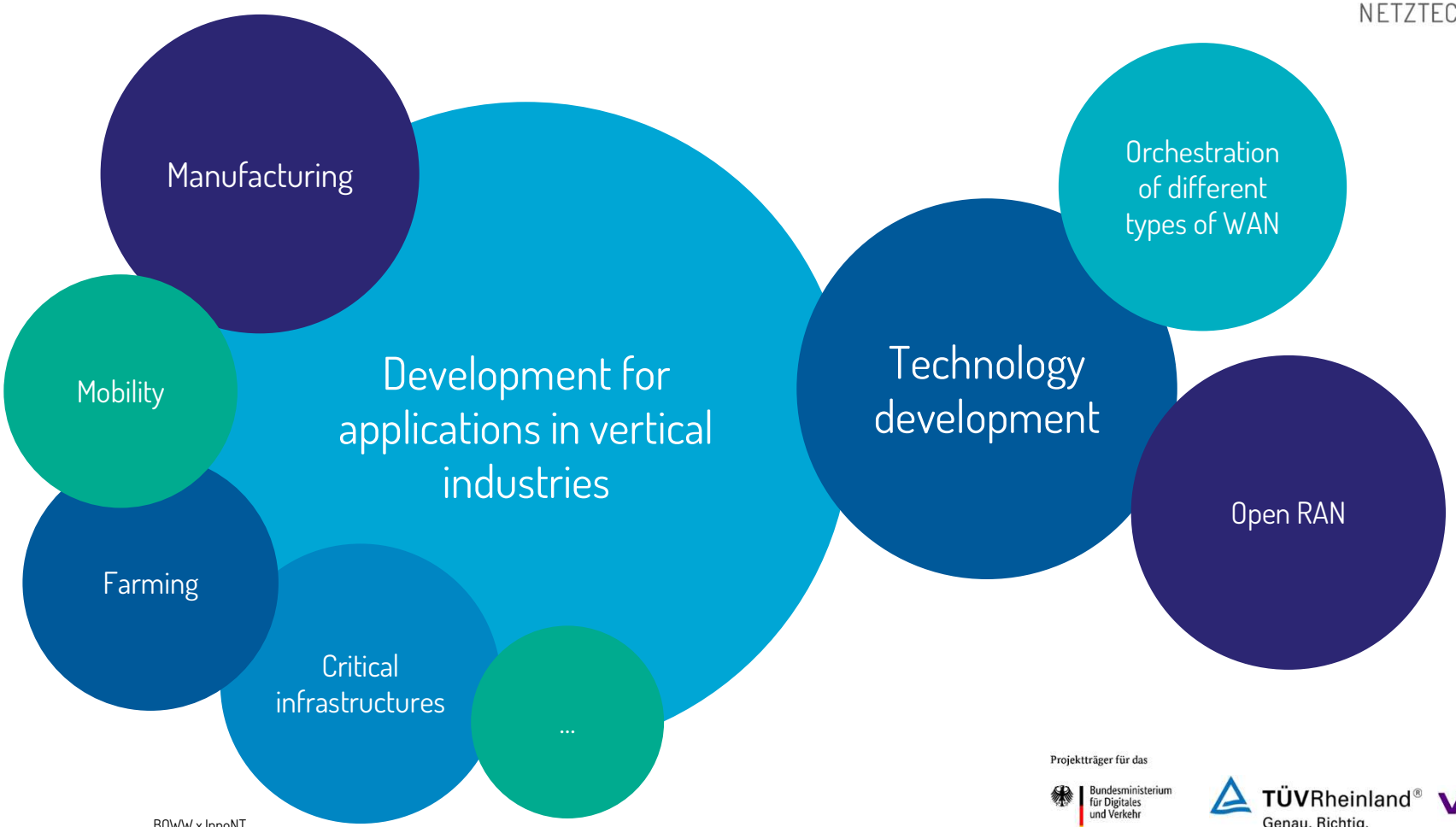

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Open5GpaceMaker

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Management and configuration of 5G campus networks to support time-sensitive networking (TSN) traffic flows in real-time critical applications

Development of procedures for the automatic adjustment of 5G and TSN system parameters based on application requirements

Evaluation through two demonstrators in the areas of agricultural technology and eHealth

Project partners:

airpuls GmbH; highstreet technologies GmbH; InnoRoute GmbH; TU Chemnitz; University Medical Center Leipzig; University of Applied Sciences Osnabrück

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5G-CANKRIN

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Investigation of 5G campus networks for use in critical infrastructures to increase availability

Analysis of the trade-off between availability and efficiency in communication and computing infrastructures

Demonstration in real environments using networked pump fleets as an example, with expansion of the approaches to other critical infrastructures

Project partners:

German Research Center for Artificial Intelligence GmbH (DFKI); comlet Verteilte Systeme GmbH;
KSB SE & Co. KGaA (associated partner)

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MultiNet6G

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Development of an open-source 6G core network to connect multiple orthogonal wireless technologies

Demonstration of network capabilities through application scenarios with AGVs (Automated Guided Vehicles) and drones in logistics and production environments

Increased flexibility and mobility in industrial production by integrating and seamlessly switching between different wireless technologies

Project partners:

University Koblenz, Koblenz; Emqopter, Würzburg; Siticom

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What about the Future?

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To be continued?

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Any Questions?

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