WP5: Measuring the climate and environmental impact of the ICT sector.

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Elinkeino-, liikenne- ja ympäristökeskus

Overview of the Work Package

- **Objective**: To develop and explore methods for measuring the environmental impact of the ICT sector
- **Focus**: Improving the energy efficiency of ICT systems
- **Priorities**:
  - Systematic measurement of device power consumption
  - Modeling the environmental impact of software components

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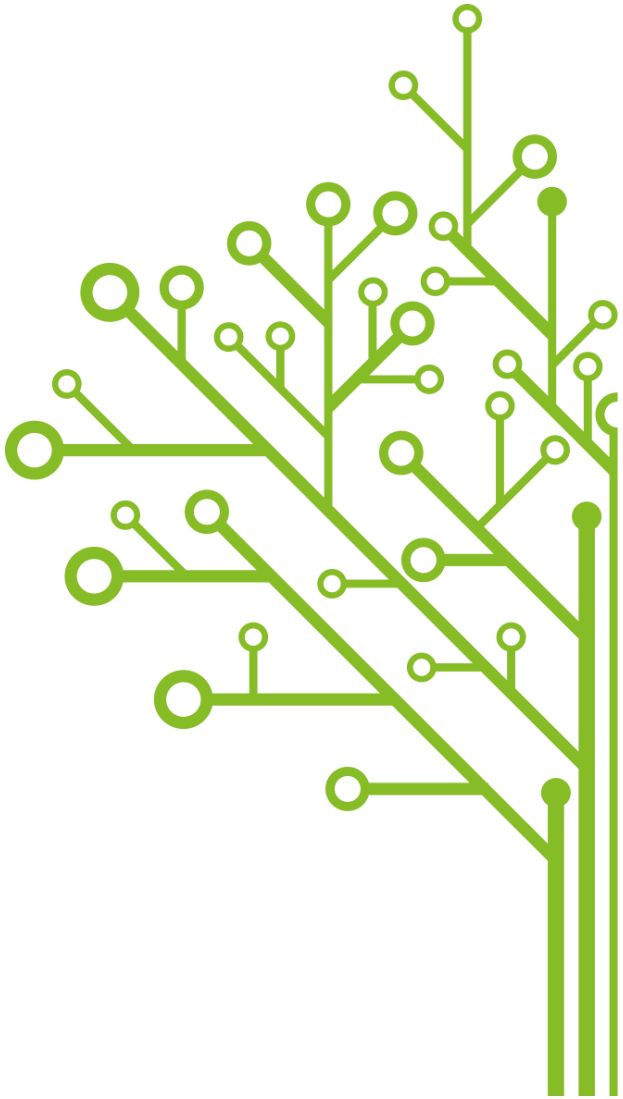
The Role of Measurements in Software Development

- **Practical Target for Energy Measurements:** Identifying key areas for improving energy efficiency
- **Continuous Optimization:** Power consumption optimization during development and maintenance
- **Collaboration with WP3:** Integrating measurements into software development processes



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Benchmark Database

- **Database Creation**: Average power consumption of various ICT systems
- **Purpose of the Database**: A reference point for comparing the power consumption of ICT systems
  - Supports continuous development and optimization

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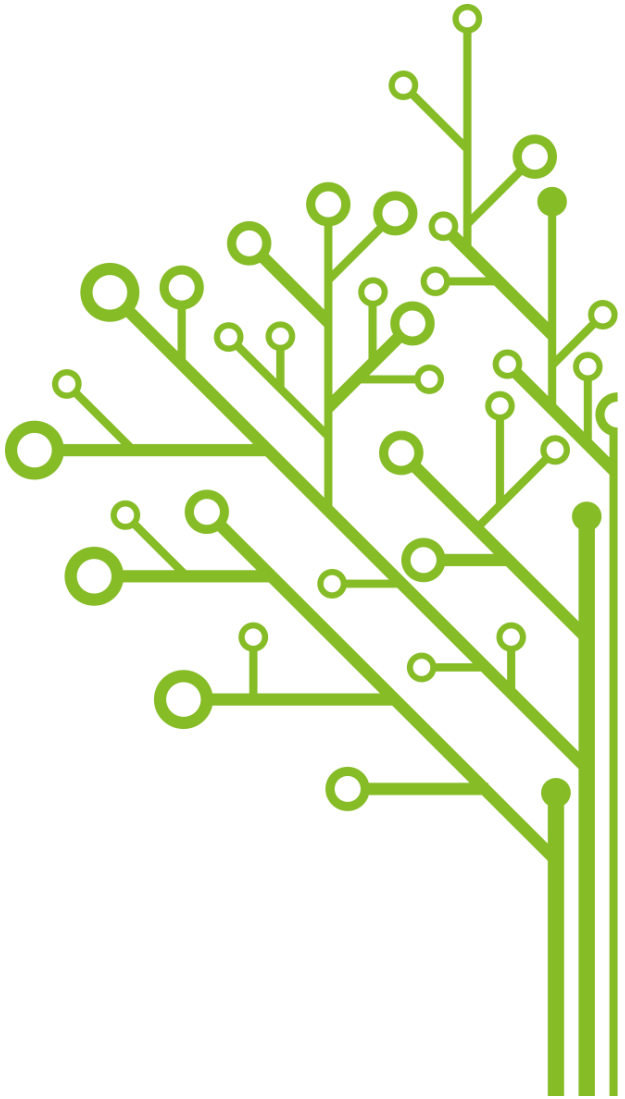
Roles of the Work Package

- **TY (Coordinator):** Survey of measurement methods
  - Design and implementation of the benchmark database
  - Reporting of results
- **OY:** Survey of measurement methods for the carbon and ecological footprints of mobile networks
- **LUT:** Development of measurement methods for environmental impacts related to software development
- **UEF:** Measurement of the environmental impacts of server capacity



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Summary and Next Steps

- Key Impacts of the Work Package
  - Increase knowledge on software energy measurements
  - Provide benchmarks to practitioners
- Next Steps and Expected Results
  - Creation of benchmark database
  - Defined measurement practices for software developers (in collaboration with WP3)

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Thank you,

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