WP3: Environmental effects of software solutions

LUT University:

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Agenda for today

– Presentations of the work packages
  - **WP3** Environmental effects of software solutions (**Green Coding**) / Jari Porras, LUT University
  - **WP5** Measuring the climate and environmental impacts of the ICT industry (**Measuring Code** / Tuomas Mäkilä, University of Turku
– Workshop on Green Coding Practices
  - Working with a Miro board
– Workshop on Measuring the code
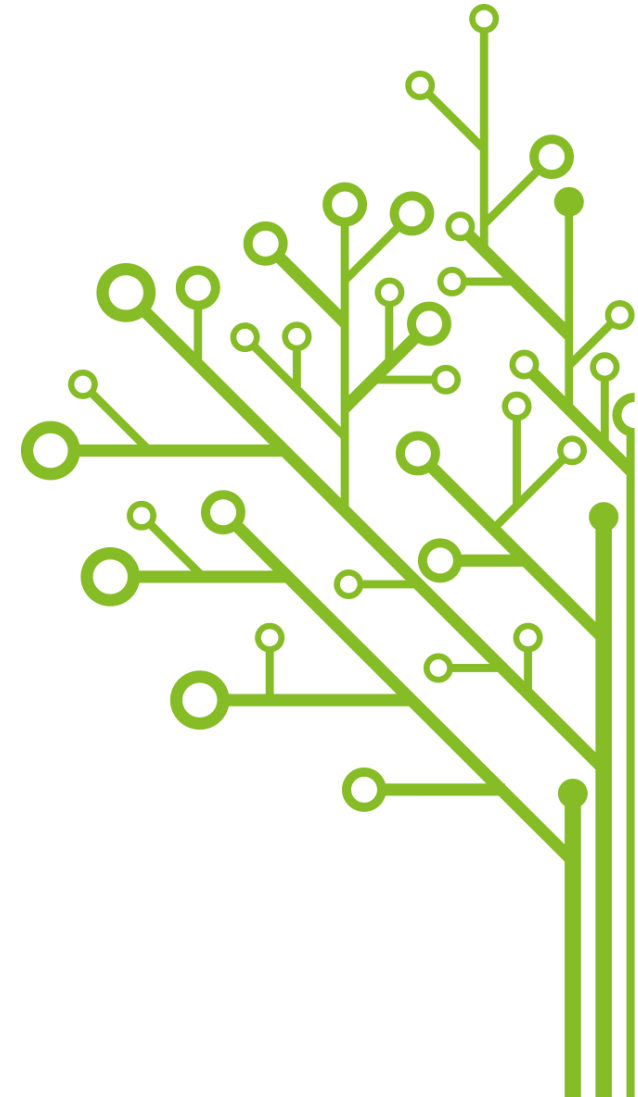
Background

o VISIIRI – Create an environment focusing **ecosystem of Finnish ICT companies** working on different ICT sectors towards more environmentally sustainable future

- Network infrastructure (WP2)
- Datacenters, cloud and service management (WP4)
- Software development (WP3) and measurement (WP5)

Background

- Climate and environmental strategy for the ICT sector (Ministry of Transport and Communications)
  - 2) Measures to promote the climate and environmental friendliness of the data economy
    - Strengthen attention to energy considerations in the design of software and services
    - Strengthen attention to energy aspects in procurement of software and services
    - Develop ICT solutions that deliver climate and environmental benefits and promote their take-up
  - 4) Measures to expand the knowledge base and develop measuring
    - Improve the compilation of statistics on data centre and network energy consumption and the monitoring of emission impacts
    - Grow body of knowledge on ICT sector material flow sustainability issues
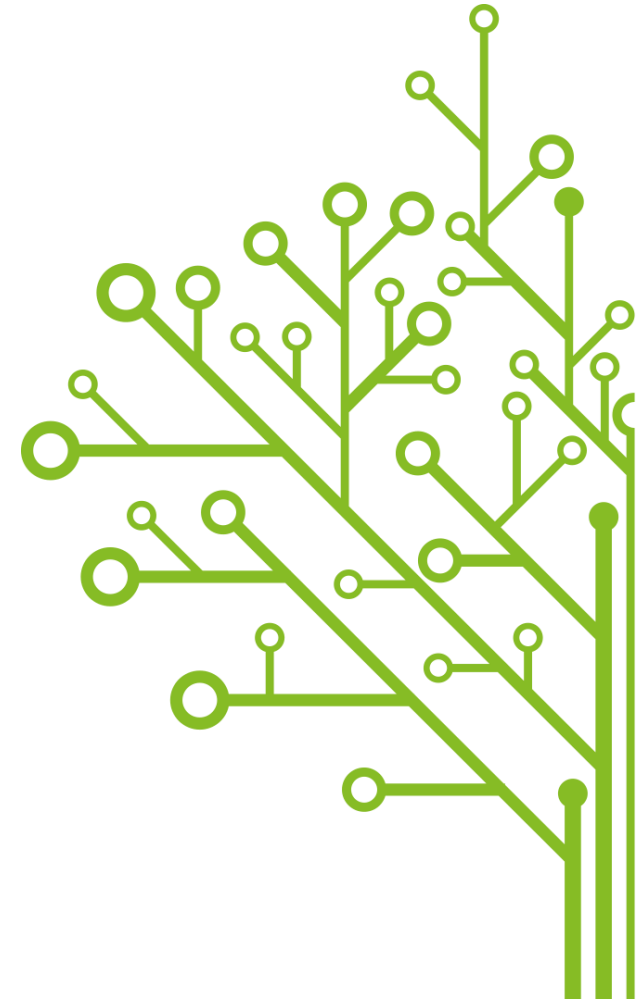   - Grow body of knowledge on lifecycle impacts and rebound effects of digital solutions

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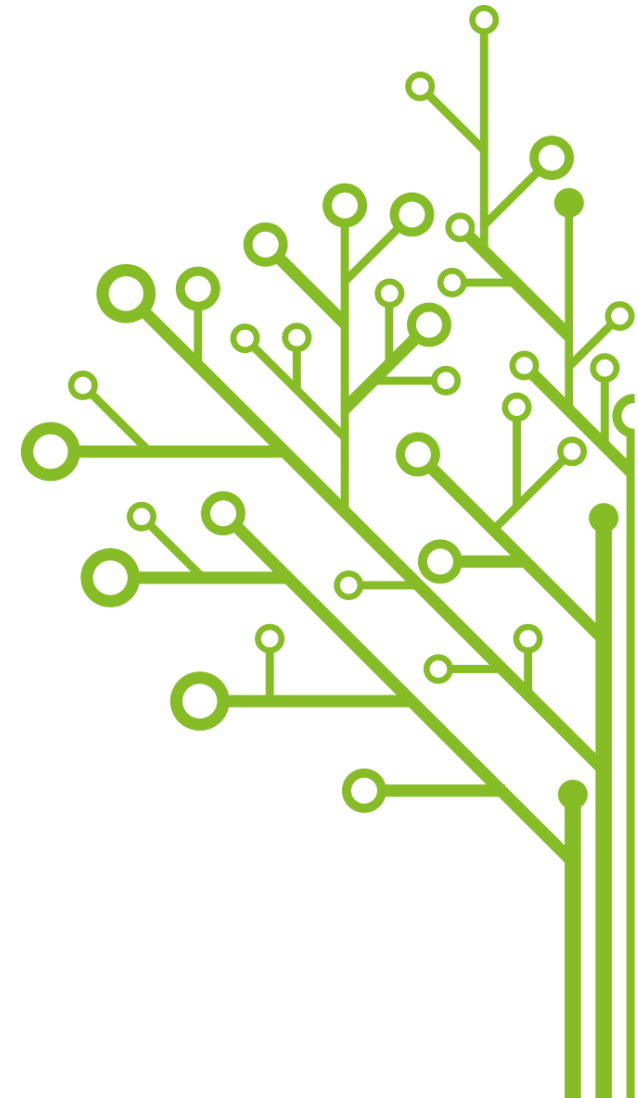
WP3 Objectives

o Increase of the awareness on energy efficiency of **software solutions** and **software development processes** among companies

- **Footprint** of the software (with WP5)
- **Handprint** of the software
  - health technology or smart living environments

o Veturi–ecosystem initiation

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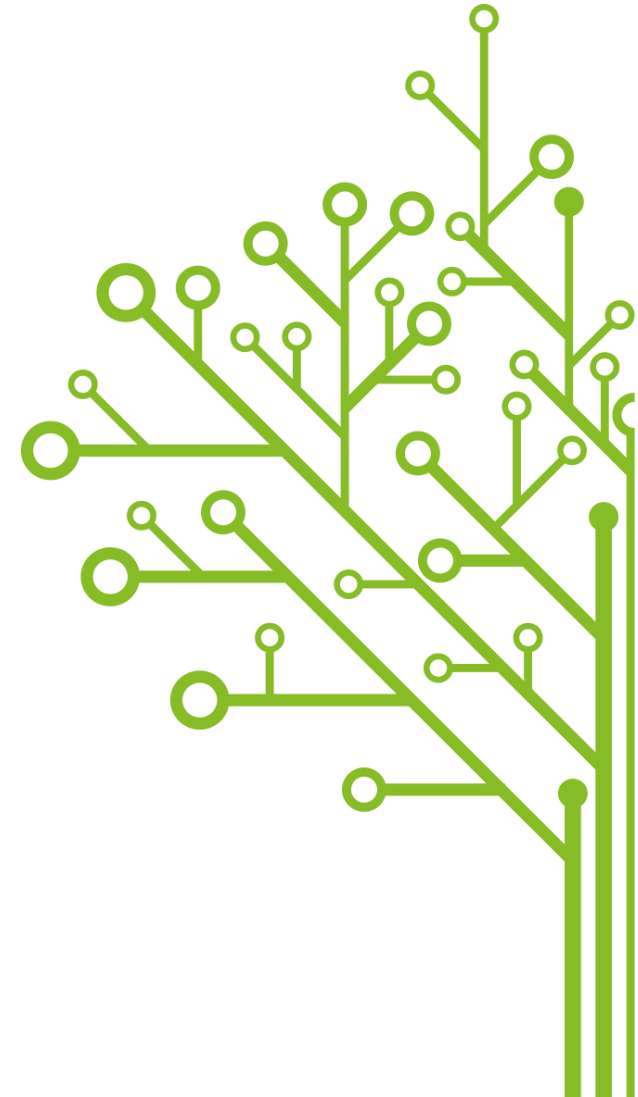
WP3 Outcomes

o Best Practices in Green Coding –guide

- Both process and development levels

o Development of the handprint thinking within companies (de minimis)

- Closely linked with the procurement of software products

o Initiation of Veturi–ecosystem for Green Coding

- *"Finland is a leader in the use and development of ecologically sustainable ICT solutions."* – LVM2021

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By bringing together software companies of all shapes and sizes, our association promotes the appreciation of Green software development in Finland and abroad, and unites professionals and newcomers.

KOODIA SUOMESTA RY

Thank you.

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VISIIRI.
Vihreän siirtymän ICT-ekosysteemi