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Expertise on green
energy and environment





CLIMATE ACTIONS & DIGITALISATION

THE CASE OF II

- 62 %

GREEN GROWTH

ENERGY SURPLUS BY
RENEWABLES ONLY

IMPACT ON CITY BUDGET
AND **CUTS OF CITY TAXATION**



CircLab & Future technologies

- New R&D environment for circular economy and nutrient recycling solutions
- Companies to develop future nutrient recycling products and services
- From industrial sidestreams new products and valuable starting materials.



Vipuvoimaa
EU:lta
2014–2020



Euroopan unioni
Euroopan aluekehitysrahasto



Waste management

- IoT: collect when it's needed
- Wastebook App: Count your recycling rate and get advice
- + tender your service in an app



Intelligent mobility

- Rural areas: access, daily working traffic, CO² emission
- New digital models to create value with needed traffic arrangements
- GIS: new business for SME's
- Shared economy
- Create and pilot a digital solution for public, private and personal traffic



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naturpolis

NORDIC BUSINESS CENTER
MUSAMO - TAIVALKOSKI



Euroopan unioni
Euroopan aluekehitysrahasto

Digitalisation review at our place (selected)

- SME's estimate their digi state: 7 (4-10)
- Challenges:
 - Lack of staff appointed to responsibility and lack of expertise
 - Lack of networks and partners
 - Most companies think they don't acknowledge the possibilities of digitalisation
 - New rivals in the market
- Opportunities
 - Most see AI as the main tool they will use in future + mobile solutions and data analytics
 - Digitalisation makes companies more flexible and resilient to future challenges and threats demands
 - Update of inner processes and change of working culture
 - Innovations
 - Digitalisation enables revenue income (74% indicate this)





Next: Open data and
digital democracy to
increase participation

THANK YOU.

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