



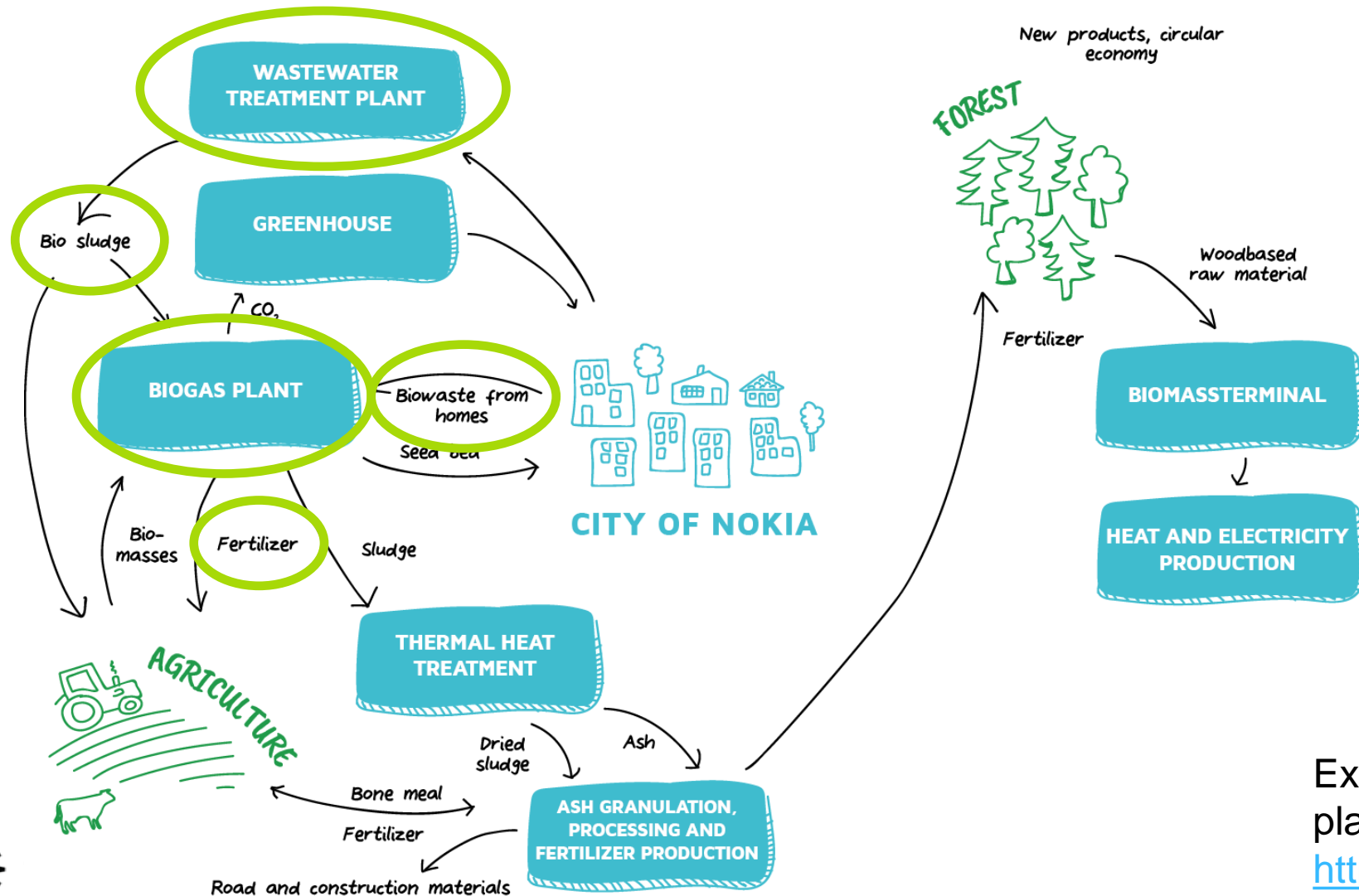
Recovering energy and nutrients from municipal wastewater sludge and biowaste

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www.tut.fi/fi/proravinne/



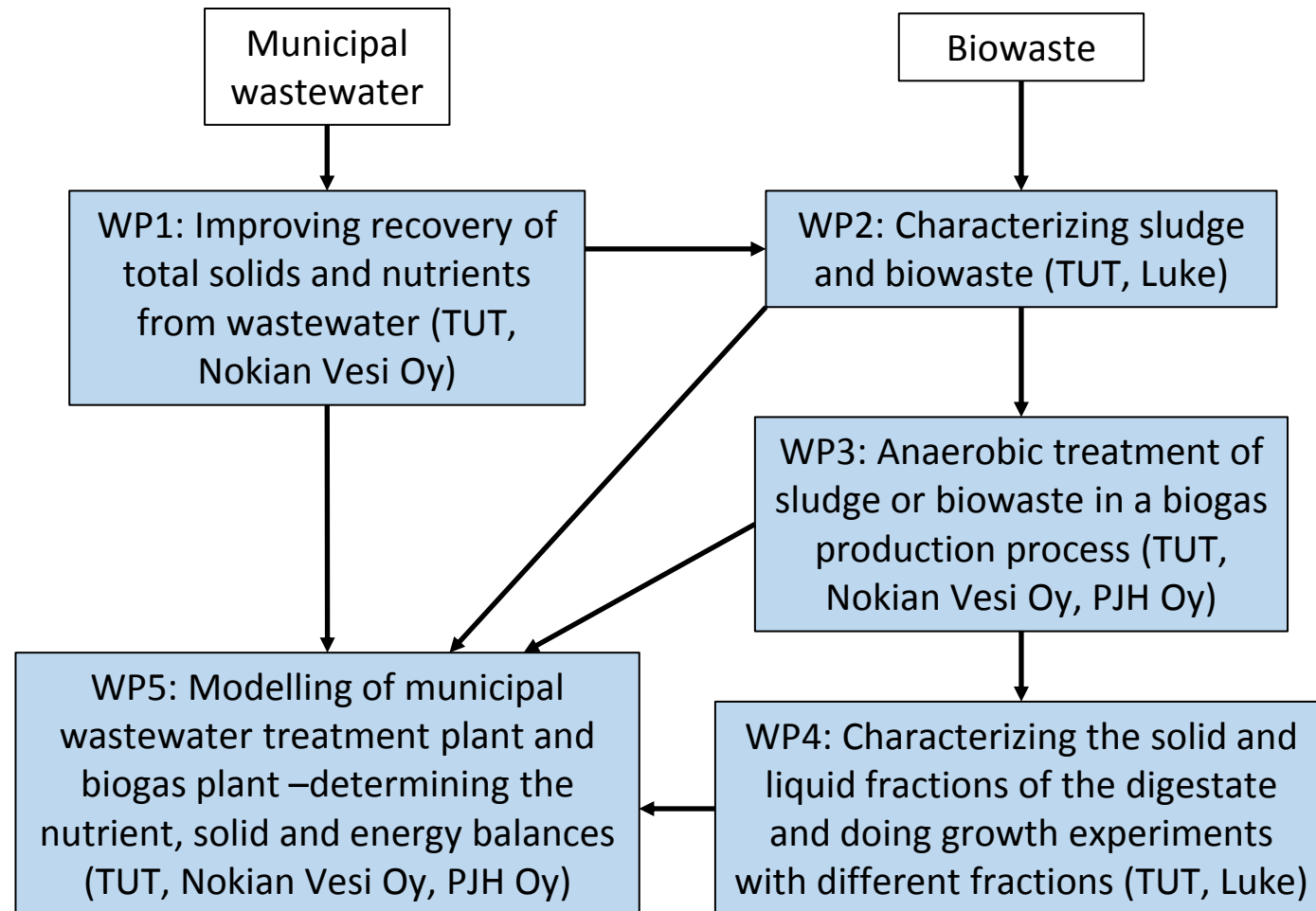
The project is closely related to Eco3 area



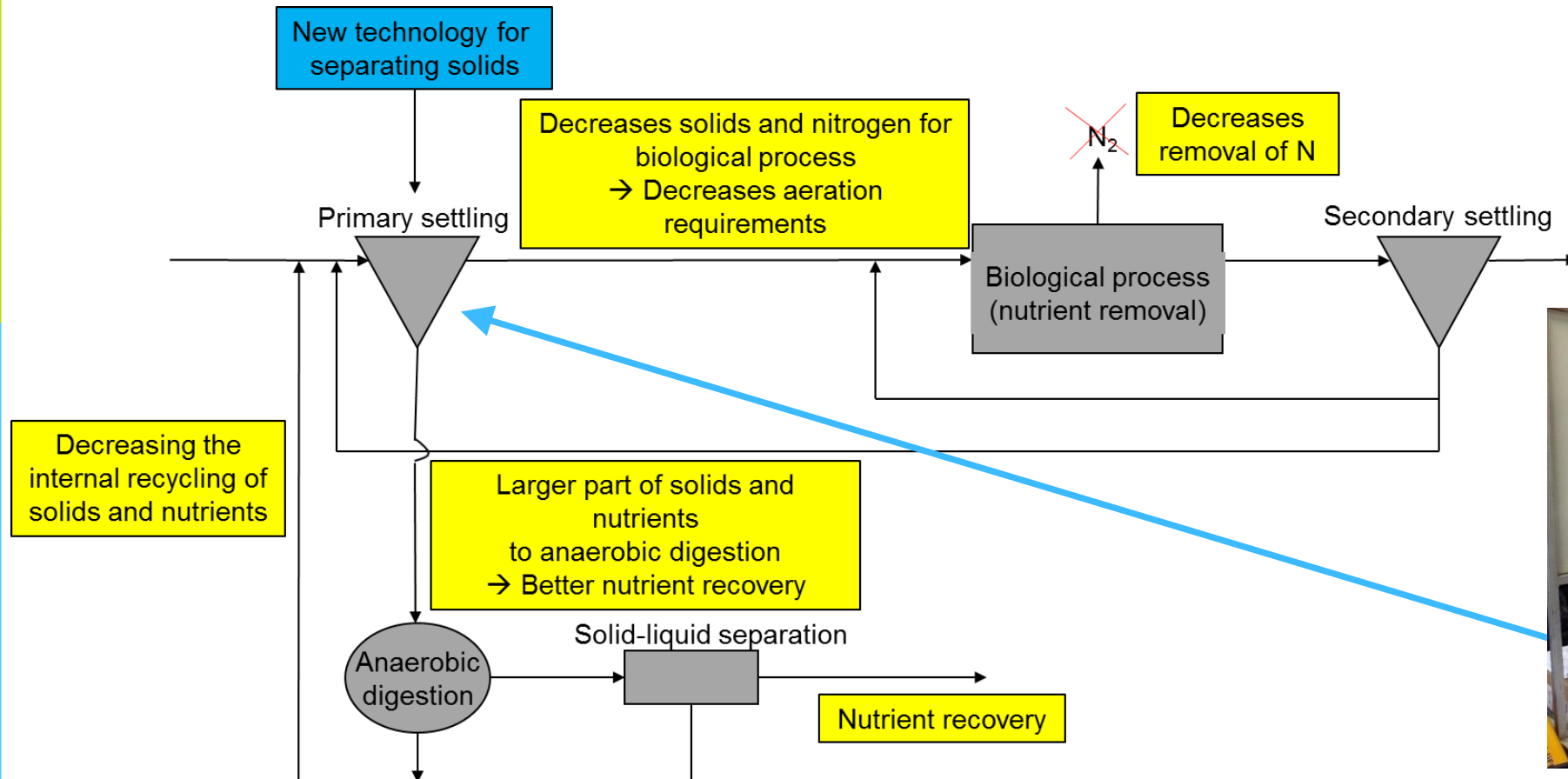
Example of nutrient cycles planned in Eco3 area, <http://www.eco3.fi/en/>



Aims of the project



Improving energy and nutrient recovery in municipal wastewater treatment plant

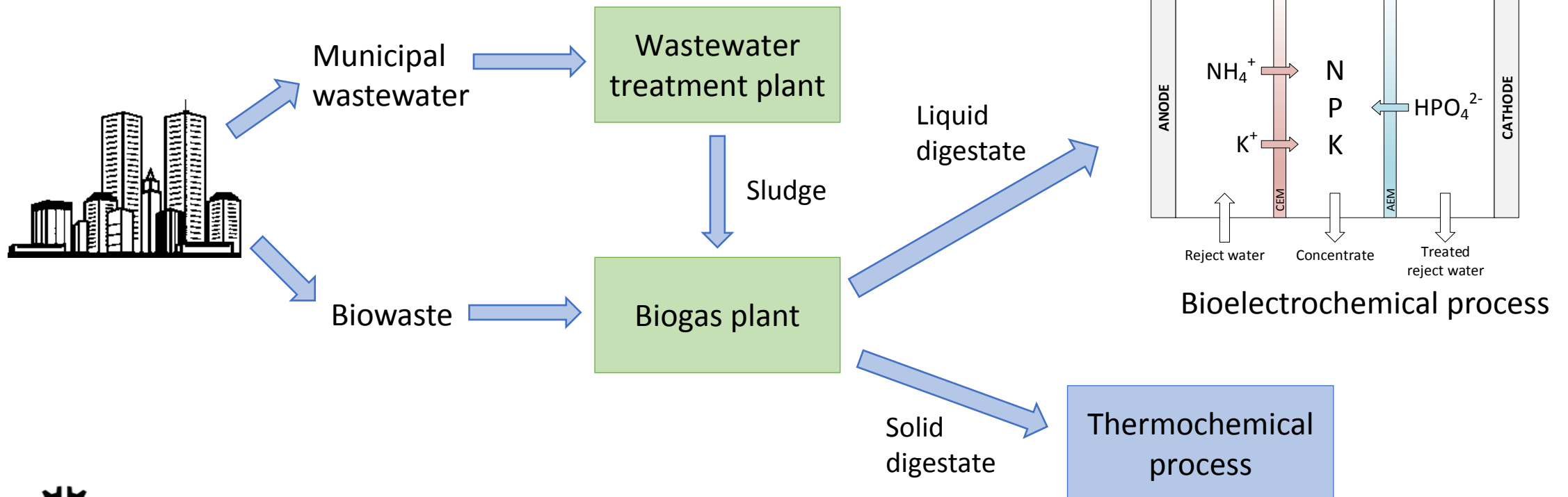


Replacing primary settling e.g. with rotating belt sieve



Possible next steps at TUT

- Testing other non-conventional wastewater treatment units
- Integration with thermochemical or bioelectrochemical processes to enhance nutrient recovery



Outcomes

- Hautamäki Hanna (2017) Primary treatment of municipal wastewater with microsieve and anaerobic treatment of the microsieved sludge. Master thesis, <http://URN.fi/URN:NBN:fi:tty-201710252062>
- Nissinen Petri (2017) Microsieving as primary treatment step of wastewater treatment plant – Evaluation of the effects using static modelling. Master thesis, <http://URN.fi/URN:NBN:fi:tty-201710262080>
- Tampio et al. (2017) Circular economy through enhanced treatment of municipal wastewaters. 2nd International Bioeconomy Congress, Stuttgart, 12-13.9.2017

