



TURKU
BUSINESS
REGION



HEALTH



TURKU



CLEAN



TURKU



EXPERIENCE



TURKU



MARITIME



TURKU



TECH



TURKU



Approximately 100 actors by definition;

“companies that utilize or develop technologies, processes, services or products that prevents or minimizes the environmental load”

*Reeta Huhtinen and Linda Fröberg-Niemi
Turku Science Park Oy*

Cleantech, Bioeconomy, Circular Economy

Core competences

- Biomass refining technologies
- Biobased materials/ biobased production
- Renewable energy and intelligent energy solutions
- Waste-refining technologies and services
- Water purification and soil remediation technologies
- Material technology
- Biotechnology

Innovative atmosphere; presence of acknowledged academic research groups

Company profiles

- Micro sized to global, large scale companies
- Engineering & chemistry
- High technology and academic spin offs
- Total number of actors approximately 100



Smart Chemistry Park innovation platform for value chain development

SMART
CHEMISTRY
PARK

SMART
CHEMISTRY
PARK



SMART
CHEMISTRY
PARK

The logo for Turku Business Region features four L-shaped corner brackets in the corners: top-left is light green, top-right is light blue, bottom-left is orange, and bottom-right is purple. The text 'TURKU BUSINESS REGION' is centered within this frame.

TURKU
BUSINESS
REGION

Supporting research findings and
inventions to become new businesses

Activities started in January 2015

- ➔ **13** companies + Turku Science Park Ltd
- ➔ Altogether **60** companies in tight collaboration
- ➔ **100** companies in the network

Smart Chemistry Park offers

- **Offices and laboratory** spaces for SME's
- Collaboration opportunities with **academic research groups and polytechnics**
- **Pilot** halls for scale-up purposes
- A **community of entrepreneurs** – sharing experiences and knowledge
- Services for **start-ups and growth companies**
- **Smart Chemistry Park network & cluster**
- **International collaboration** with different interest groups



The facilities support growth and scaling up

LABORATORY



PILOT

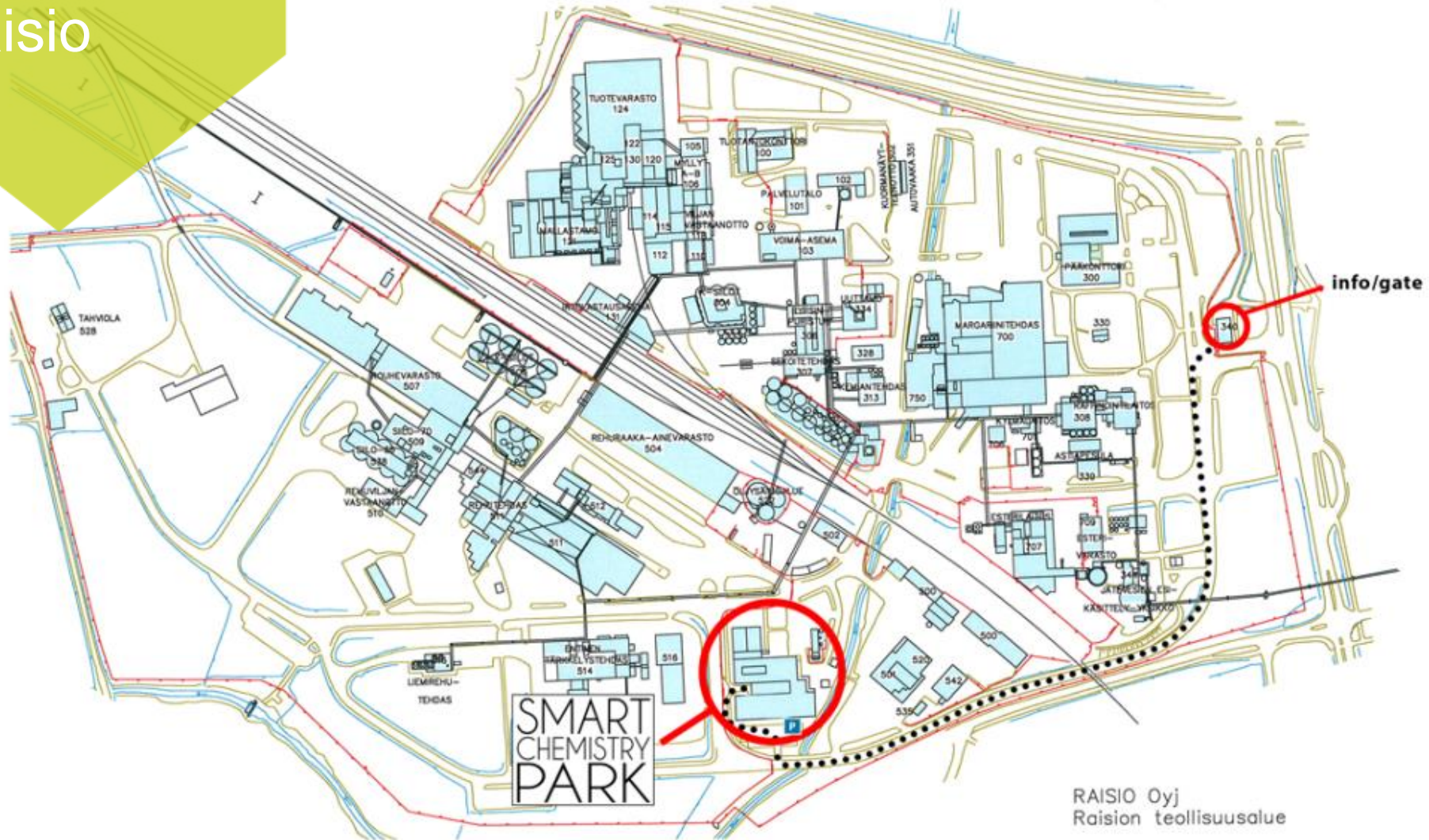


INDUSTRIAL SCALE



Industrial Park in Raisio

TURKU
BUSINESS
REGION





SMART
CHEMISTRY
PARK



What is common for companies in Smart Chemistry Park?

TURKU
BUSINESS
REGION

Chemistry

...it enables bio- and circular economies



Strengthening the competitiveness of the largest branches of industry in Finland, by innovations from Smart Chemistry Park

- Paper, packaging & pulp Industry
- Chemical & Biochemicals Industry
- Metal & mining Industry
- Energy Industry
- Marine Industry
- Food & Life Science Industries



SMART
CHEMISTRY
PARK

Smart Business



Smart
Entrepreneurship



Smart Chemistry



TURKU
BUSINESS
REGION

Economic impact for the region through collaboration

- Creates totally new business areas for new markets
- New work places, employing highly educated professionals
- New investments for region
- Tax incomes for the state and city



Success stories from Smart Chemistry Park 2017

Smart Chemistry Park was awarded the "Circular Economy Innovation" price by the National Finnish Chemical Society in May 2017



Linda Fröberg-Niemi, Turku Science Park Oy

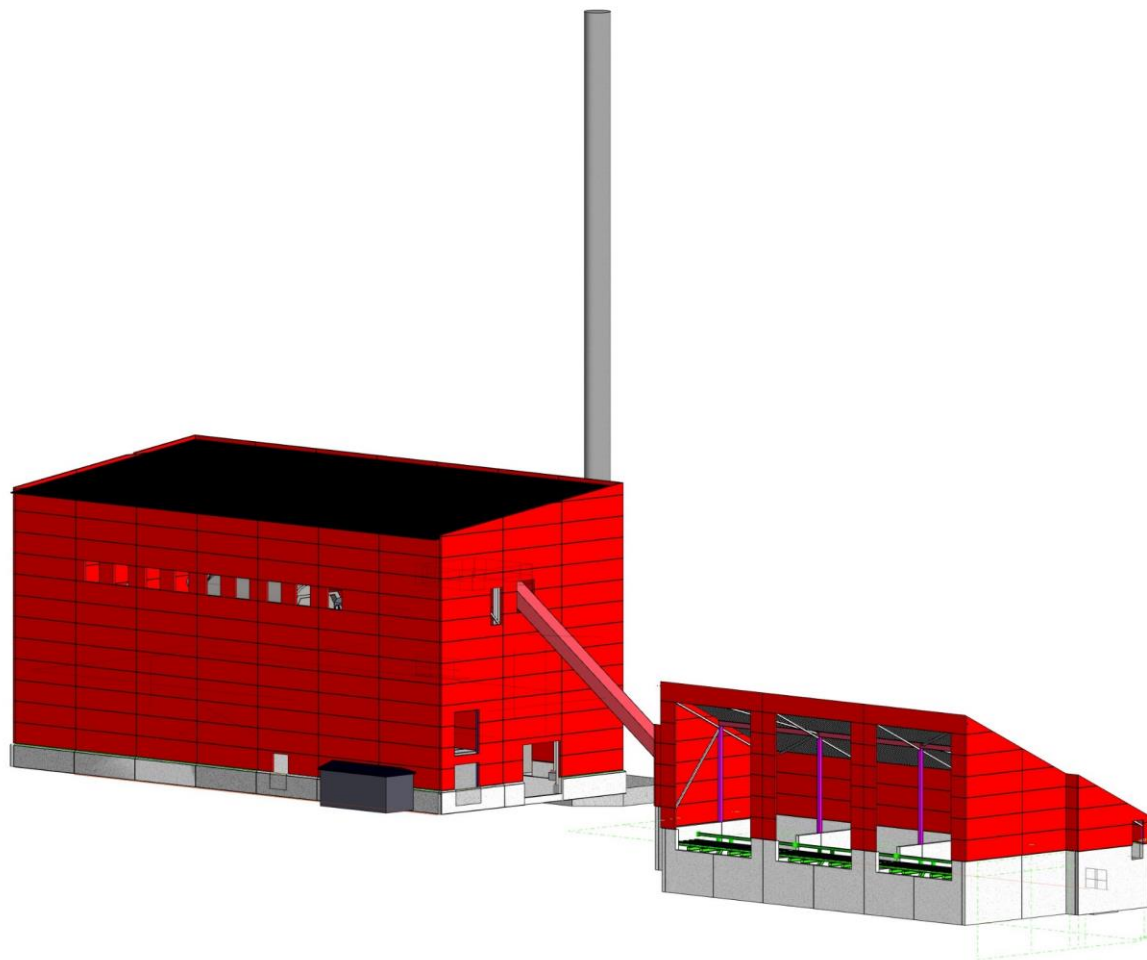
Raisio Oyj Bioenergy plant in Raisio 2017

TURKU
BUSINESS
REGION



With the new plant, industrial steam and district heat used in the industrial area will be generated with wood chips. Time of fossil fuels is over!





Collaboration opportunities for several companies;

- Renotech Ltd
- C-Bioforce Ltd
- Montisera Ltd
- Separation Research Ltd

Raisio Oyj build a new fish feed production line

TURKU
BUSINESS
REGION



Introduction of the new fish feed production line.



CH-Bioforce started the pilot operations 2017

Åbo Akademi University

2014

BLN-WOODS LTD
World wide biorefinery solutions



2016



CH **FP**[®]
POLYMERS PIGMENTS

CH
CHEMEC



Value chain development in algae sector in Southwest Finland



Ideas

Start – Ups?

Spin off from the universities?

Technological readiness ?

Who?

A need!

2018



Is it profitable / when it is profitable?

Companies

New Business ideas ?

Production of valuable ingredients –Who?

Customers

Industry



TURKU
BUSINESS
REGION



THANK YOU!