KADANS INNOVATION SUMMIT '23

Welcome to
Labs for Innovation

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Duurzaamheidsfabriek

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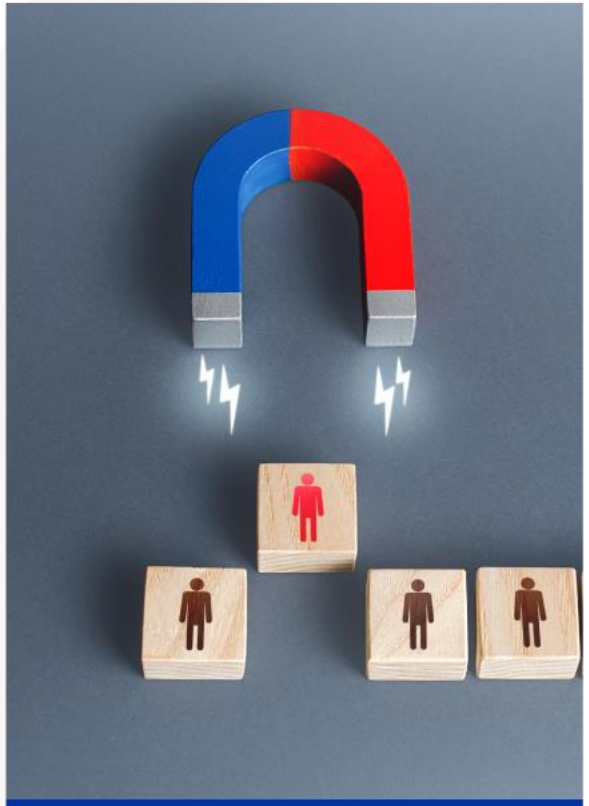
Advantages Innovation Labs

Research & Development



Attracting Talent

Innovation Culture

Strengthen Collaboration

clustermarket

Achieving Operational Excellence in the Lab

Accelerate research & reduce equipment costs

Kadans Science Partners

Hidden

Inefficiencies

<30%

Lab Occupancy

20%

Assets Idle for Months

50%

R&D Assets used <20% of the time

1. No visibility
2. No control - breakdowns caused by unauthorized access
3. High repair costs
4. High service and energy costs

Clustermarket - lab operations software for

Equipment management & scheduling

Our approach

Resource planning

- ➔ Planning and scheduling equipment usage
- ➔ Lab communication
- ➔ Performance management based on usage information

Asset management & monitoring

- ➔ Equipment utilization (booked, logged and used)
- ➔ Maintenance management
- ➔ Environmental monitoring

130k+ scientists

13k laboratories

Optimize asset usage

Daily operations

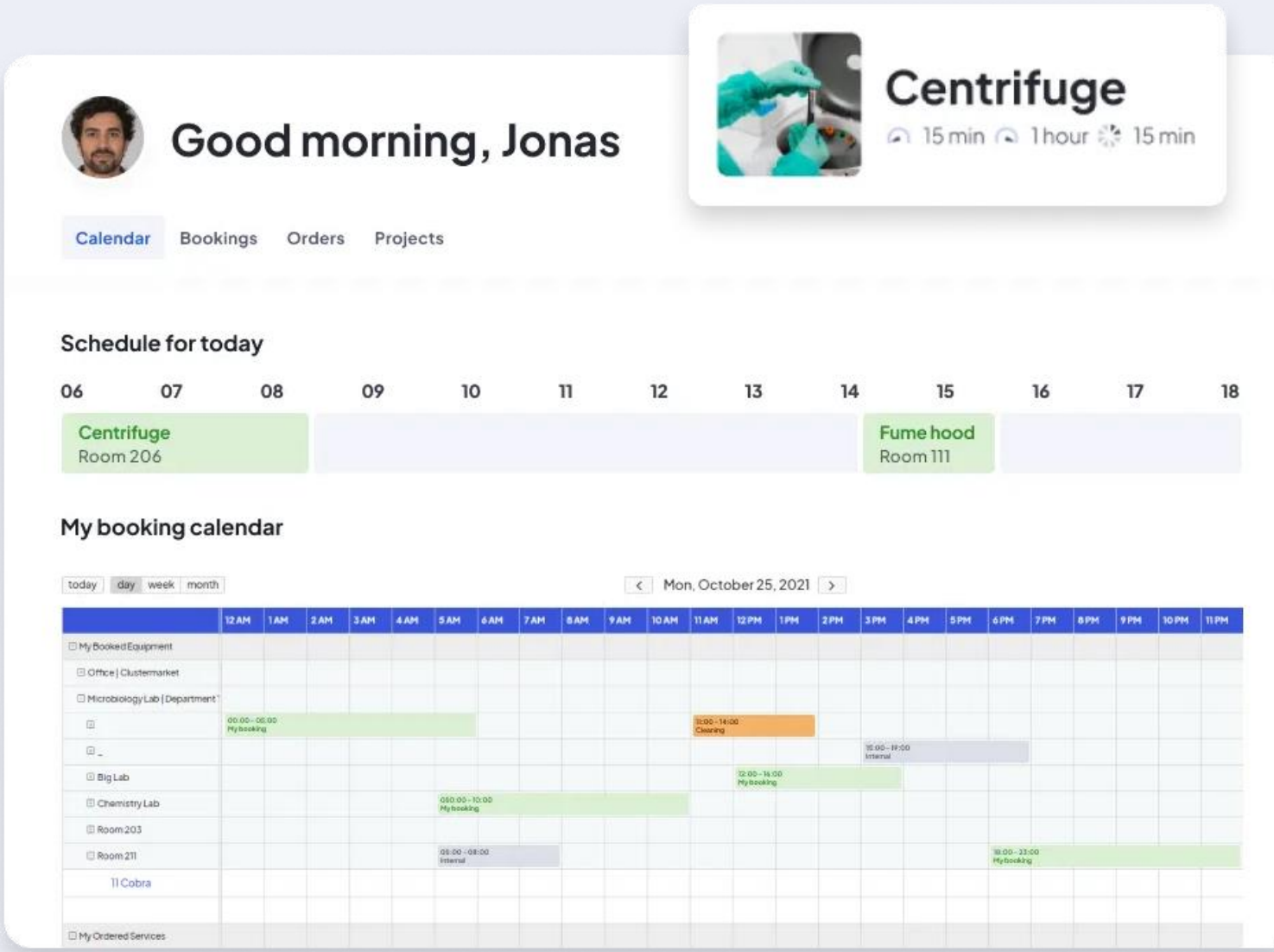
The lab management system key functionalities

User & equipment management

Easy coordination of equipment access and reservations from team members.

Scheduling & communication

Efficient equipment bookings, incident reports and team communication.



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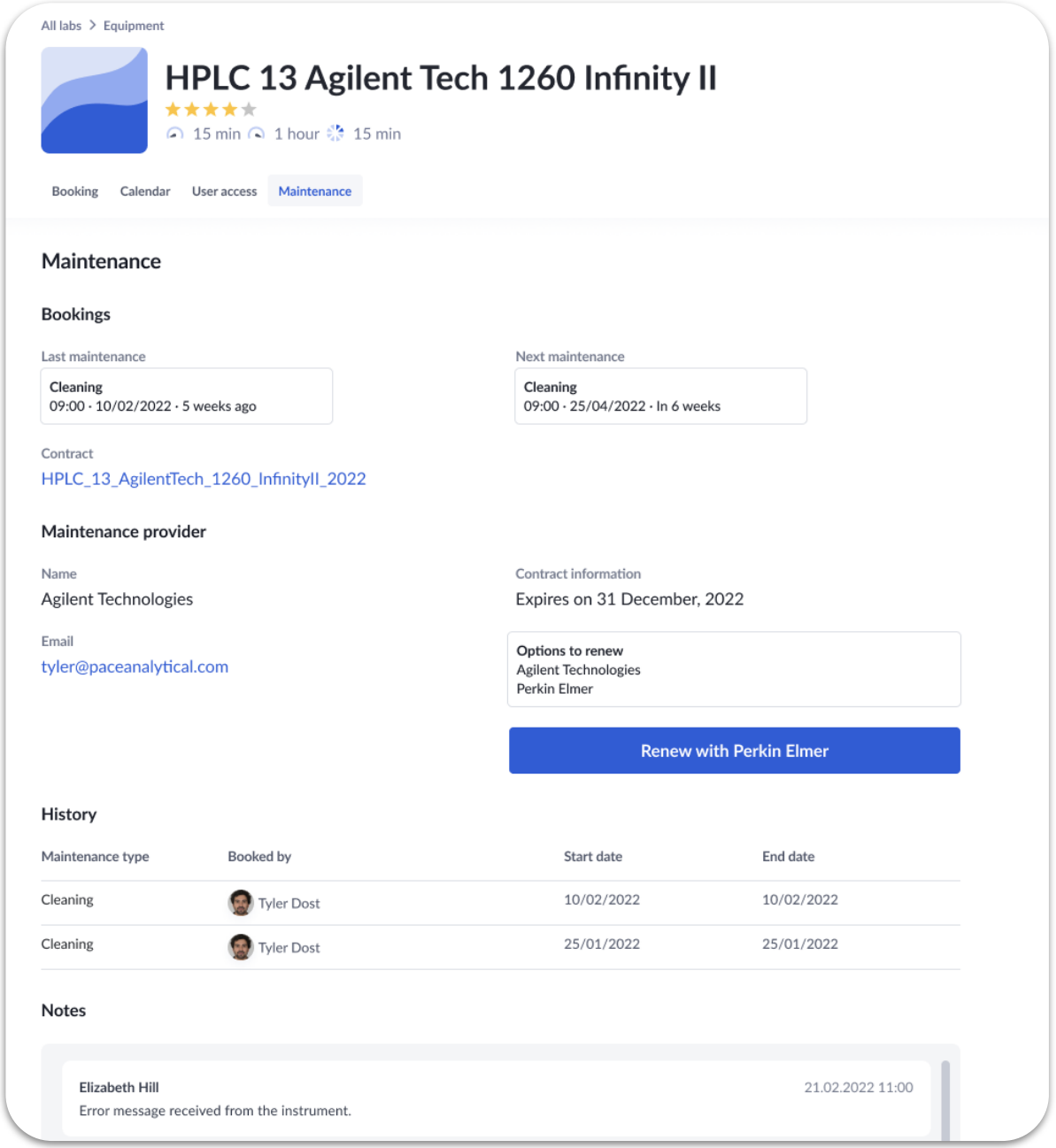
Equipment maintenance and service
Visibility on all maintenance activities and quick access to service contracts.



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Lab space

Optimization

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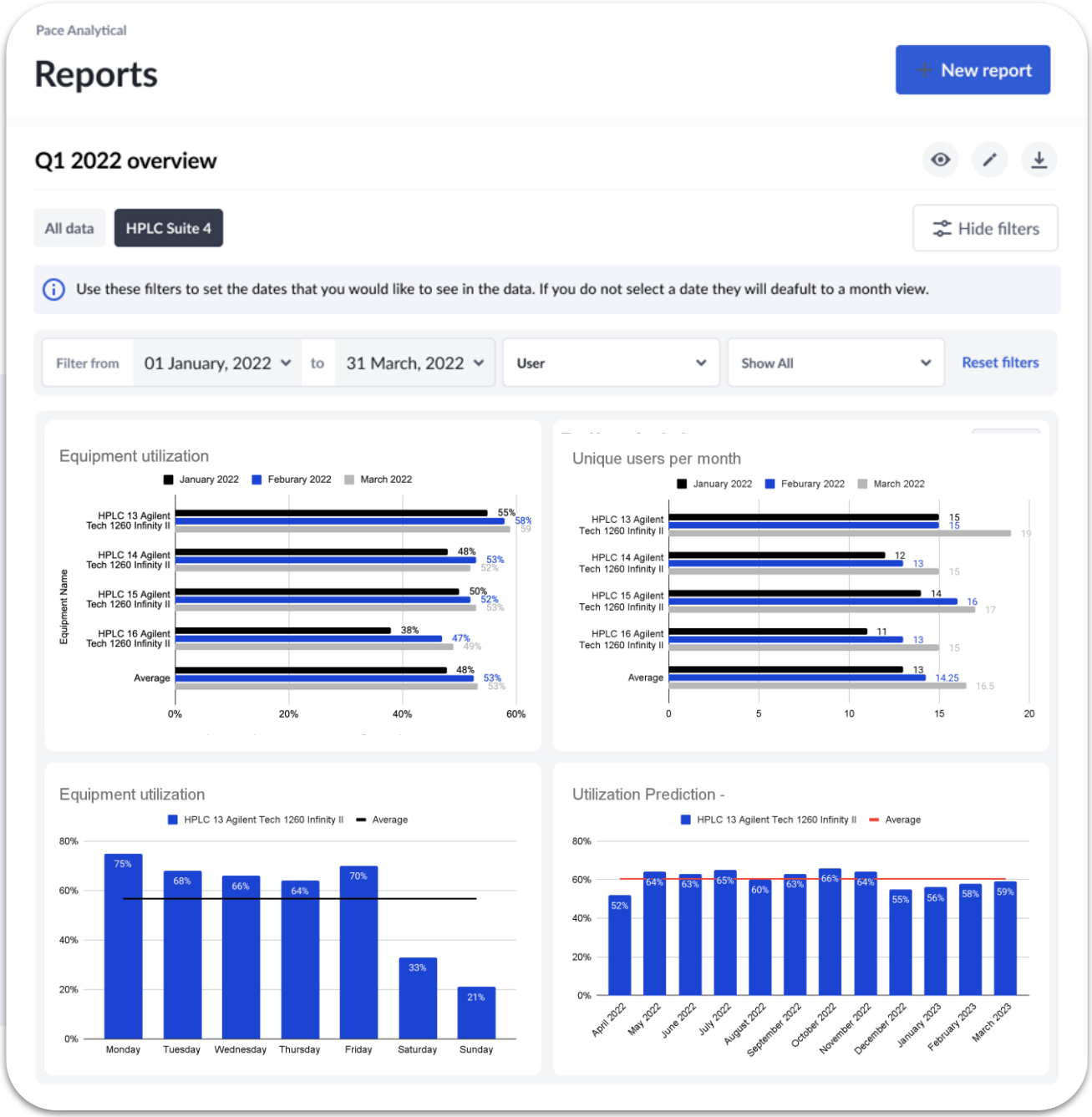
Reporting & analysis
Valuable insights into equipment utilization leading to improved decision making.



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Seamless

Data and userflow

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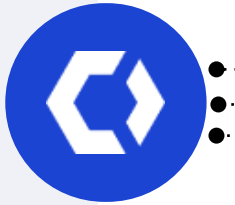
Helpful add-ons



Real-time tracking
Clustermarket's desktop app allows real-time tracking and blocking unauthorized use of the equipment.

IoT sensors
Monitor lab equipment such as freezers, incubators and shakers.

ELN integrations
Clustermarket sends your equipment usage to your ELN system, which will be recorded in the relevant experiment notes.

Benchling

eLabNext
EPPENDORF GROUP

Sharing 4.0

Create transparency

The lab management system
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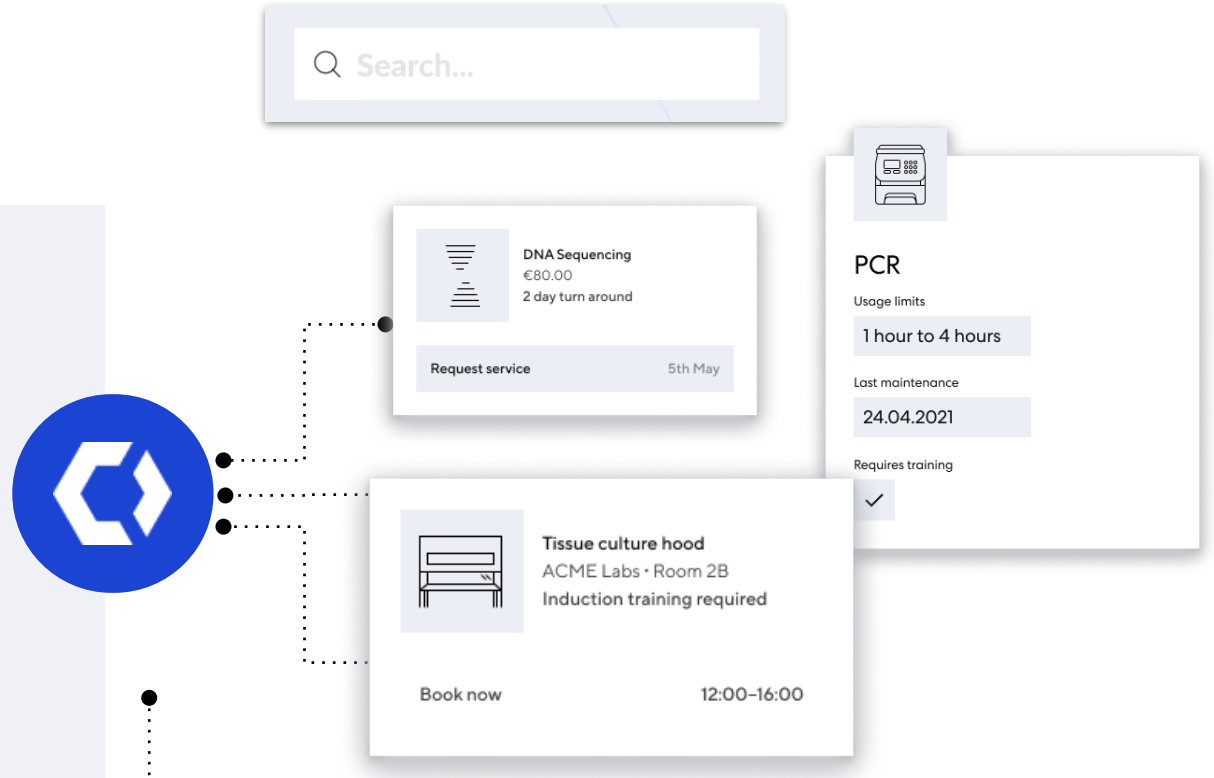


Clustermarket marketplace
Offer (or find) technical services, expertise and equipment access to other organisation and generate additional income or find new collaboration partners

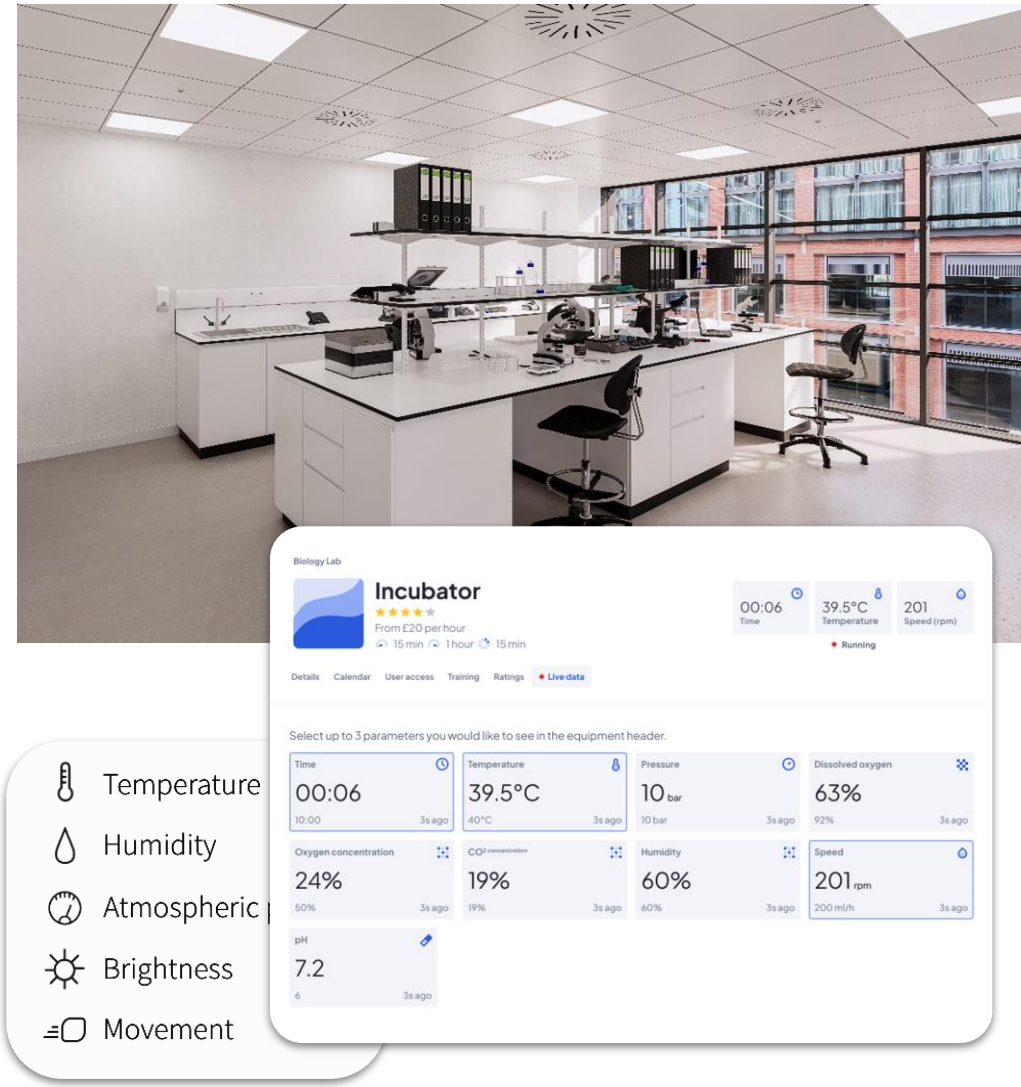
Kadans state-of-the-art facilities

Digital lab set up

Resource planning, asset management and monitoring
All tenants get access to Clustermarket's software capabilities to manage their own lab operations and to get access to the shared lab.

- Reserve and monitor instruments in the shared lab
- Manage equipment within the tenants lab

IoT sensor monitored labs
Newest asset monitoring capabilities produce high quality and reproducible scientific data. Scientists will be immediately notified about anomalies and irregularities.



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Get in touch with the
Clustermarket team

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Web: www.clustermarket.com

KADANS

INNOVATION

SUMMIT '23

Innovation and a life long learning

7 November 2023 Kadans Innovation Summit

Daan Wortel, Managing Director

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Daan Wortel

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duurzaam
heids
fabriek

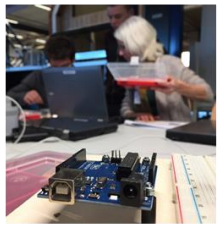
Duurzaamheidsfabriek

- Increase the regional innovative strenghts by
- linking innovation to life long learning
- in a structural triple helix collaboration

da Vinci college

DORDRECHT

Innovative technology

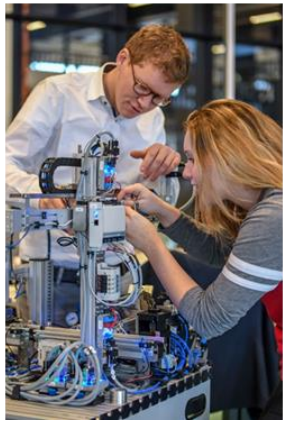


- Organic introduction of innovations within the educational programs
- Highly skilled professionals, with an innovative mindset and 21st century skills

Hybrid Learning Environment

- (Higher) Vocational Education
- Challenge Based Learning
- Multidisciplinary student teams
- Talent development with companies

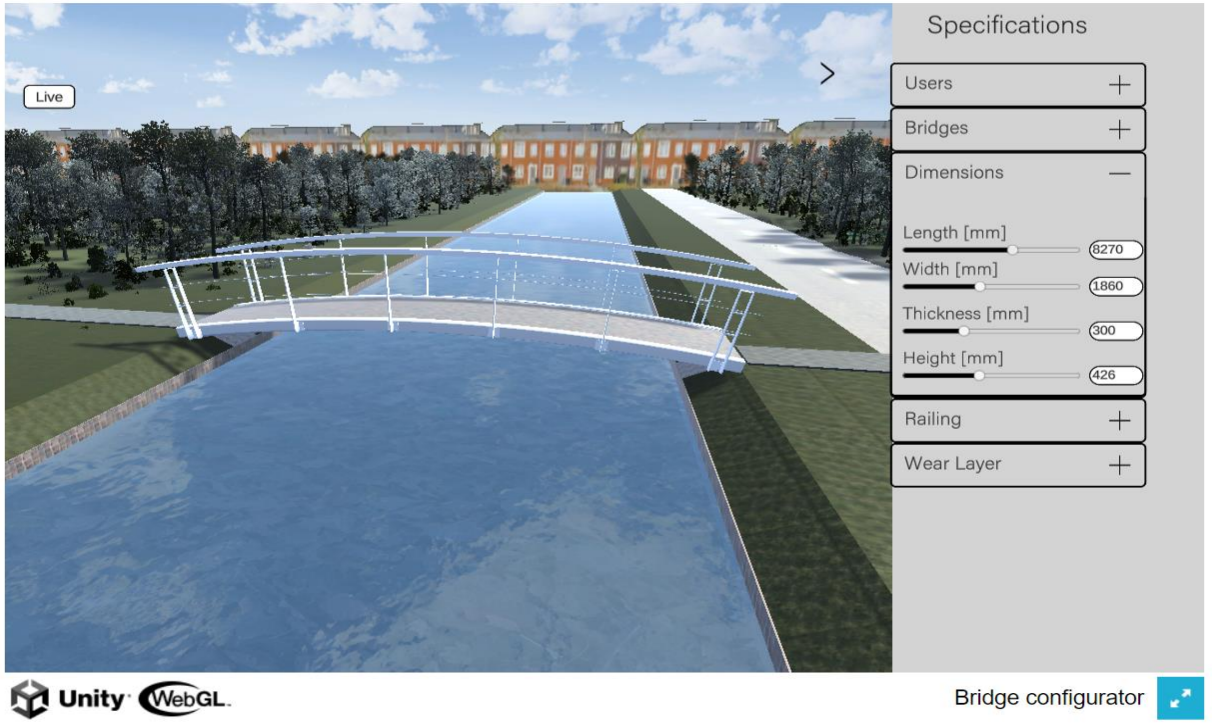
da Vinci college



Innovation projects & startups

- Open Innovation with strong partners
- Valorisation – practical approach
- Project management
- Access to expert knowledge, capacity and facilities
- Acces to funding (regional, national and EU)
- In house startups

SMITZH – VIREN (digital tooling)



SMITZH-OI4 Demonstrator

Why an OI4 Demonstrator?

1. Asses if compliance to OI4 publications provides a generic means to onboard devices/sensors and providing Northbound data communication
2. Evaluate what the advantages and disadvantages are of aligning to the OI4 publications
3. Show-case the demonstrator to industry and share lessons learned (industry and education)

Data Value Center

Expansion of the test equipment within the Sustainability Factory and the fiber optic network, aimed at opening up a Data Value Center (data readiness, cyber security, data sharing, cloud) for SME's.

Thanks for your attention

duurzaam heids fabriek

Work / Innovate / Learn

duurzaamheidsfabriek.nl

KADANS INNOVATION SUMMIT '23

INNO LAB
GRONINGEN THE INNOVATION SWEET SPOTS

INNOLAB

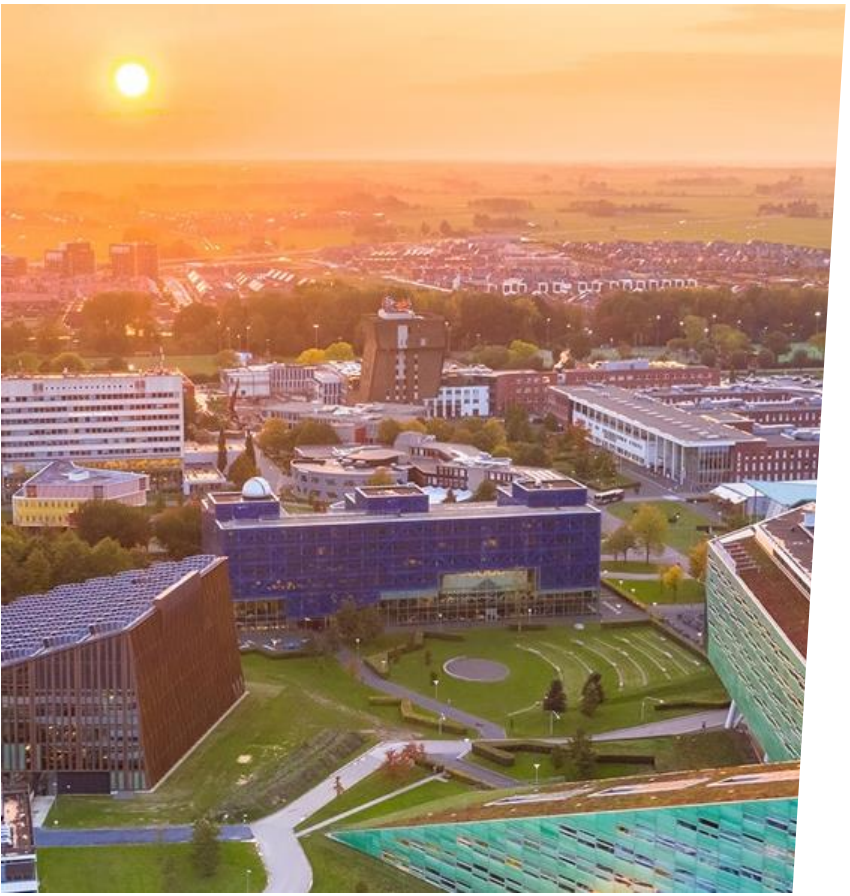
Groningen

Session Labs for Innovation

Sven Stielstra, Managing Director Innolab Groningen

INNO LAB GRONINGEN THE INNOVATION SWEET SPOTS

Innolab Groningen gives companies the opportunity to **start small, scale fast and end big** at Campus Groningen



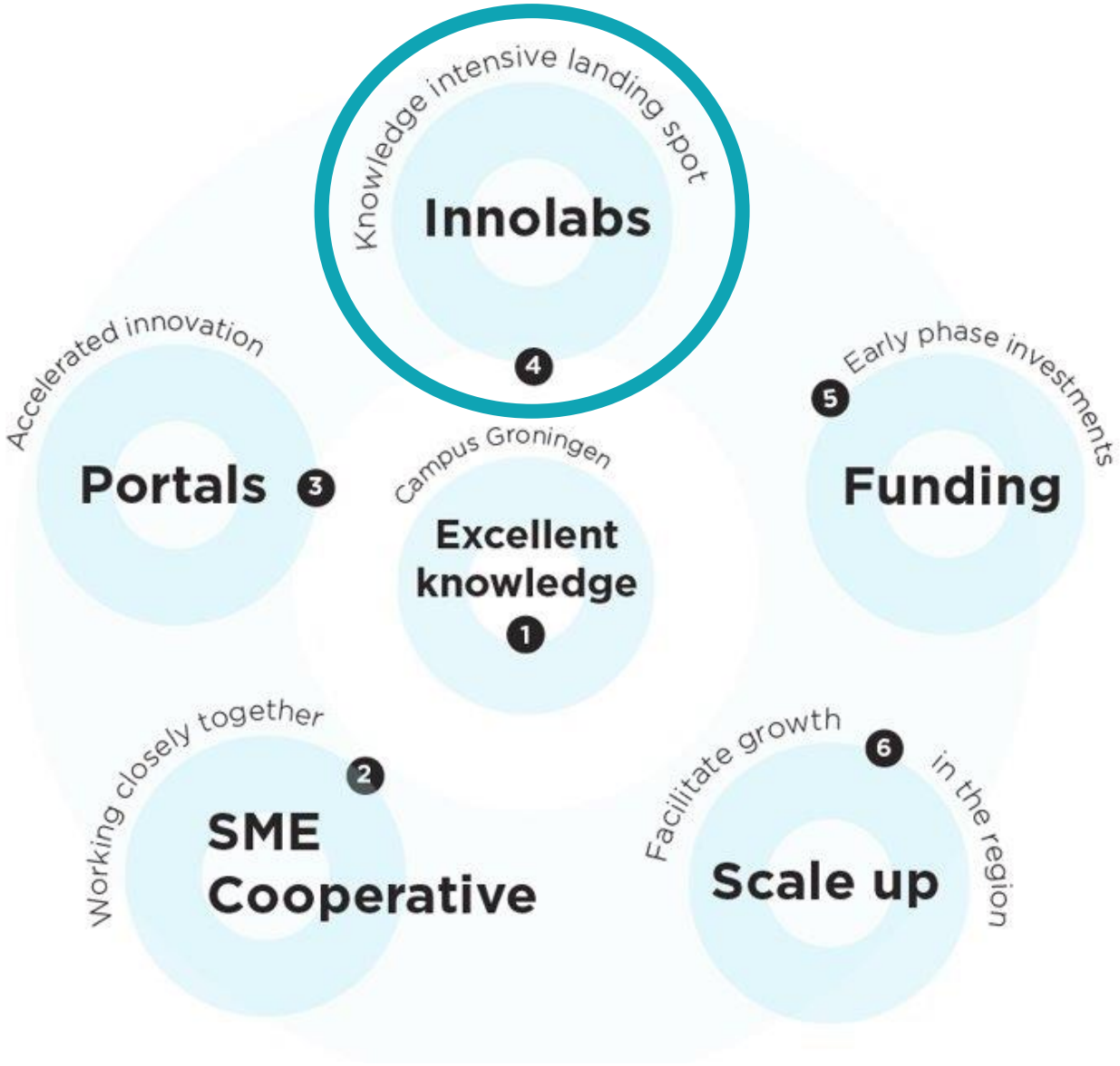
245 companies

20.000 employees

50.000 students

CAMPUS GRONINGEN

Part of the Innovation Train



Sustainable society

Healthy Ageing

Energy

INNO LAB GRONINGEN THE INNOVATION SWEET SPOTS

The concept

A shared facility that gives access to:

- lab & office facilities: 1500m2 – AgriFood (ML1), Chemistry & Engineering
- Equipment: basics are in place at Innolab, more advanced equipment is accessible at neighbouring companies and universities
- Network: likeminded start-ups, researchersgroups and experienced business partners: Avebe - AgriFood, Symeres - Chemistry, Demcon – Engineering
- Human Capital from the Univerity of Groningen, UMCG and mulitple Applied Universities from the region.

Focus on impact not profit:

- Shortterm contracts providing flexibility for the start-ups

INNO LAB GRONINGEN THE INNOVATION SWEET SPOTS

CarbExplore RESEARCH

BioBTX

SG Papertronics

Inspiring stories

- BioBTX: completing the innovation train, from spin-off to factory
- CarbExplore: developing sweatners of the future
- SG Papertronics: helping beer bruwers to become more sustainable.

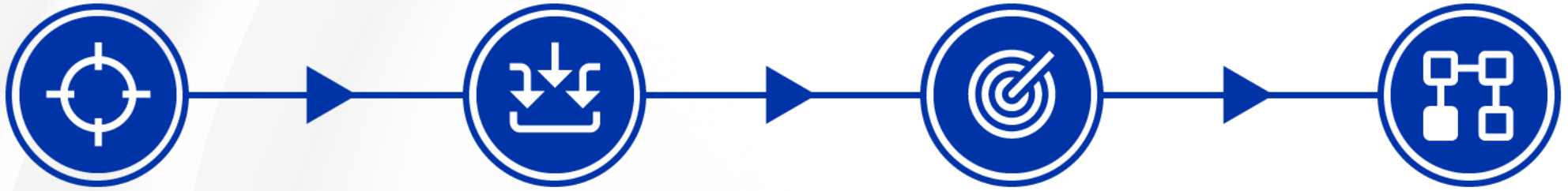
INNO LAB

GRONINGEN

THE INNOVATION SWEET SPOTS

CAMPUS GRONINGEN

Process for setting up Innovation Labs



Purpose/Vision

Creation of an appealing, measurable and supported vision

People

Build your super team and surround it with the right support network

Programme

Ensure innovation becomes an integral part of the organisational culture and driving long term success

Infrastructure

Create the right supporting environment, consider what 'tools' add value

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Thanks for joining!