

# The most innovative

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# What happens in the Lab?

## THE SMART CITY LAB

DESIGN  
SPRINTS

STARTUP  
SPARRING



CO-CREATION  
PROJECTS

MARKET  
RESEARCH

RESEARCH  
COLLABORATION

THESIS  
POOL



EXPERT  
NETWORKS

INNOVATION  
COMPETITION



ACCELERATOR

INTERNAL  
DEVELOPMENT

PHD TEAM

UNIVERSITY  
COLLABORATION

EDUCATIONAL  
DEVELOPMENT

OPEN  
LAB

R&D  
PROJECTS



The most **innovative**

**01**

Create **innovative culture**

**02**

Building **scalable SaaS business**

**03**

**Enrich design environments and processes**

# 01

## Create innovative culture

### Create innovative culture that enables to generate ideas

- Selectivity in developing ideas to into new solutions - significant commercial potential a key
- Leveraging existing strong competencies
- Focus on value-add: improving efficiency and helping to solve clients' productivity issues
- Smart & sustainable solutions at the forefront of sales



Open innovation culture



Innovation playbook



Funnel management

control=function(\_Listenable){function SWMapControl(e,t,n){var  
k(this,SWMapControl),(i=\_possibleConstructorReturn(this,\_getProto  
)).\_defaultM...  
ature...  
59



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## Continue building scalable SaaS business

- Leverage our broad expertise throughout the lifecycle
- Develop and engage our people and partners to innovate towards client and end user needs
- Cover the major aspects of lifecycle to increase share of wallet and boost additional sales

# 02

## Building **scalable SaaS** business

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## DataMust – Data Markets for Sustainable Cities

Co-innovation project with Nokia, VTT, Loihde Analytics etc.



SITOWISE



The most **innovative**

## Enrich design environments and processes with new solutions

- Implement new customer applications powered by **Voima**
- Build company wide data & analytics capabilities to develop new use cases for design data and optimize workflows

# 03

## Enrich design environments and processes

**SITOWISE** Element search Favouirites

Element name  
Balcony tile element A32394

Element data fetched from Tekla Structures  
**Balcony tile element A32394**

**Filters**

Project name  
Fill project name

Building site  
Fill building

Element type  
Select

Equivalency total  
75% 100%

Number of parts  
75% 100%

Attributes  
75% 100%

Measurements  
75% 100%

Components  
75% 100%

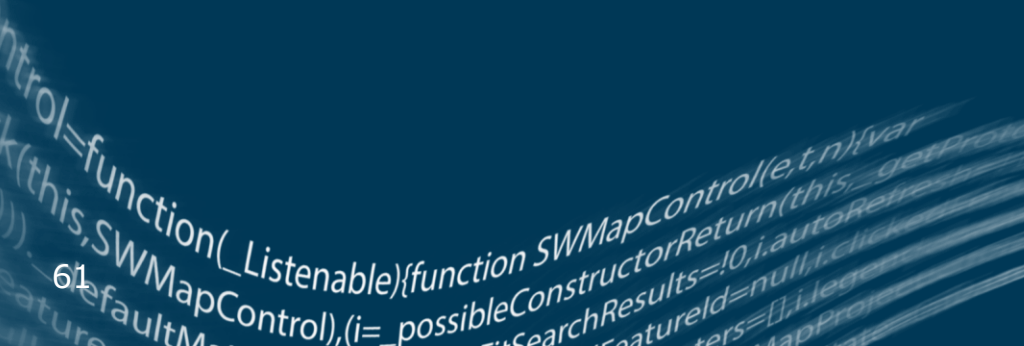
Client name  
Fill client name

Fire classification  
Select

Stress class  
Select

**AI-assisted element design automation tool**

Name	Project	Type
Balcony tile element A9141	Mäkitie 44 Elem...	CL
Balcony tile element A9021	Rinnetie 14 Gra...	CL
Balcony tile element A2331	Rantatie 48 Al...	CL
Balcony tile element A9259	Teollisuustie 24 Co...	CL
Balcony tile element A3010	Koukutie 15 Ba...	CL
Balcony tile element A6041	Rantalantie 23 Fe...	CL
Balcony tile element A6056	Myllytie 20 Ho...	CL
Balcony tile element A8634	Kuusitie 35 Des...	CL
Balcony tile element A2025	Niemeläntie 44 ...	CL
Balcony tile element A4675	Kirkkotie 18 Elem...	CL
Balcony tile element A7801	Peltotie 48 Gra...	CL
Balcony tile element A9101	Koivukuja 21 Al...	CL
Balcony tile element A3671	Välitie 12 Co...	CL
Balcony tile element A8448	Mäntytie 11 Ba...	CL
Balcony tile element A7746	Mäntytie 11 Ba...	CL



# Where are we now?

**31**  
customers  
involved

**200+**  
ideas

**37**  
ideas in  
screening

## RESEARCH TOPICS

- Smart cyber security
- Climate risk and adaptation analytics
- IOT-based quality assurance
- Data-driven circularity in landmass management
- ESG DD risk assessment
- Smart renovation debt management
- Biodiversity metrics and accounting
- Real estate location intelligence
- Energy optimization tools for real estate
- Regional Blue Green Infrastructure

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