

TET

falks energie
transitie

Ampports Young Professionals

werken mee aan de toekomst
van de haven



ampports

Programma

- Cases

Barbara Hofwijks | Innovation Platform Lead & Sr. Markets Analyst

Vattenfall Innovation

Job van der Kroft | Commercieel Manager Energie

Port of Amsterdam

Peter Paul van Voorst tot Voorst | Founder

Skoon Energy

- Challenge

- Afsluiting

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Sr. Markets Analyst @Vattenfall Innovation

amports

Agenda



- **Who we are**



- **Vattenfall Innovation**



- **Our challenge**



- **Next steps**



Barbara Hofwijks

Vattenfall Innovation Platform Lead Netherlands & Sr. Markets analyst

Passionate about innovation and the people, happy to help you in this journey!



Fossil-free living
within one generation



VATTENFALL

Vattenfall's value chain



Production

Production from

- Hydro
- Nuclear
- Coal
- Natural gas
- Wind
- Solar
- Biomass
- Waste

Actively phasing out fossil-based production

Electricity distribution

- Guarantees secure supply via well-functioning distribution networks and smart network solutions
- Enables customers to feed self-generated electricity into the grid ("prosumers")
- Flexibility services to both electricity producers and consumers to optimise network functionality

Sales of electricity, heat and gas

- Sells electricity, heat and gas to consumers and business customers
- Focuses on various price and service models, and gives customers the opportunity to understand and reduce their environmental impact

District heating

- Drives the transformation towards fossil-free heating and cooling solutions together with partners, cities and regions
- One of Europe's largest producers and distributors of district heating

Energy services & decentralised generation

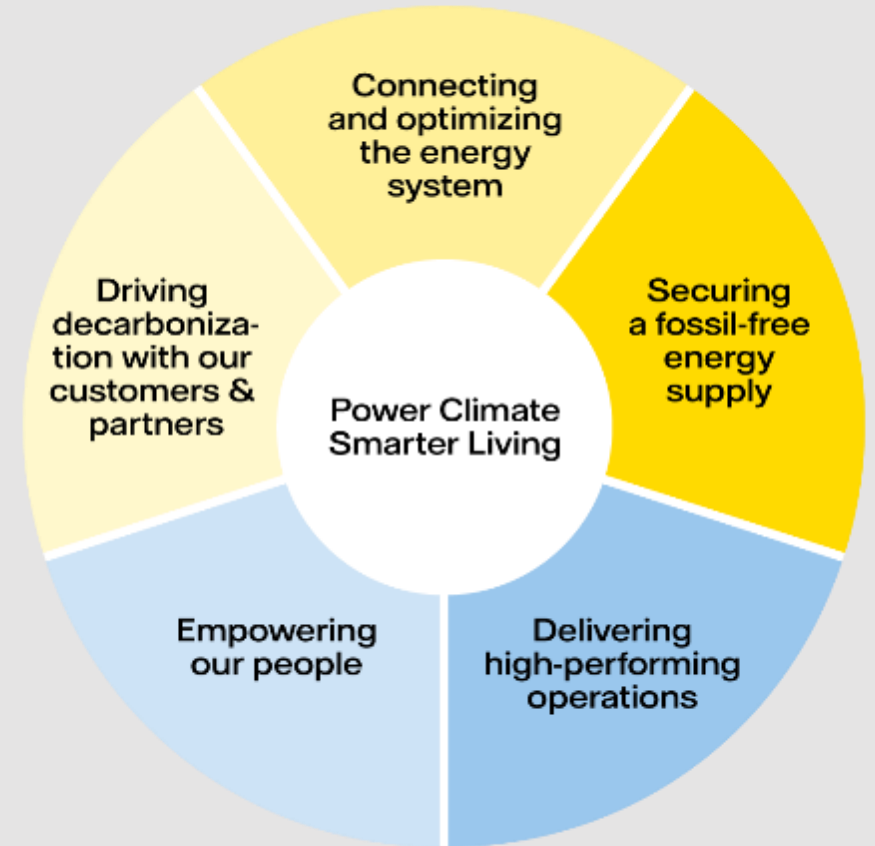
Offers energy services

- Heat pumps
- Solar panels
- Charging solutions for electric vehicles
- Battery storage
- Network services
- Smart meters

Provides marketplaces and access to marketplaces where customers can buy and sell electricity

Five strategic focus areas

A strategy for leading the energy transition



Our beliefs about the future

1

Sustainability is the business – and a prerequisite for access to customers, competence and investors.

2

To best serve the needs of customers, the ability to deliver simple solutions in an increasingly complex energy landscape is required.

3

Further electrification is a key enabler of fossil-free living and, given the pace required, demand for fossil-free electricity and infrastructure will increase significantly.

4

Digitalization of the entire energy value chain is required to leverage flexibility and serve customers in a fossil free, robust and cost efficient energy system.

5

New competencies, speed in learning and diverse and inclusive teams are critical in the energy transition.

6

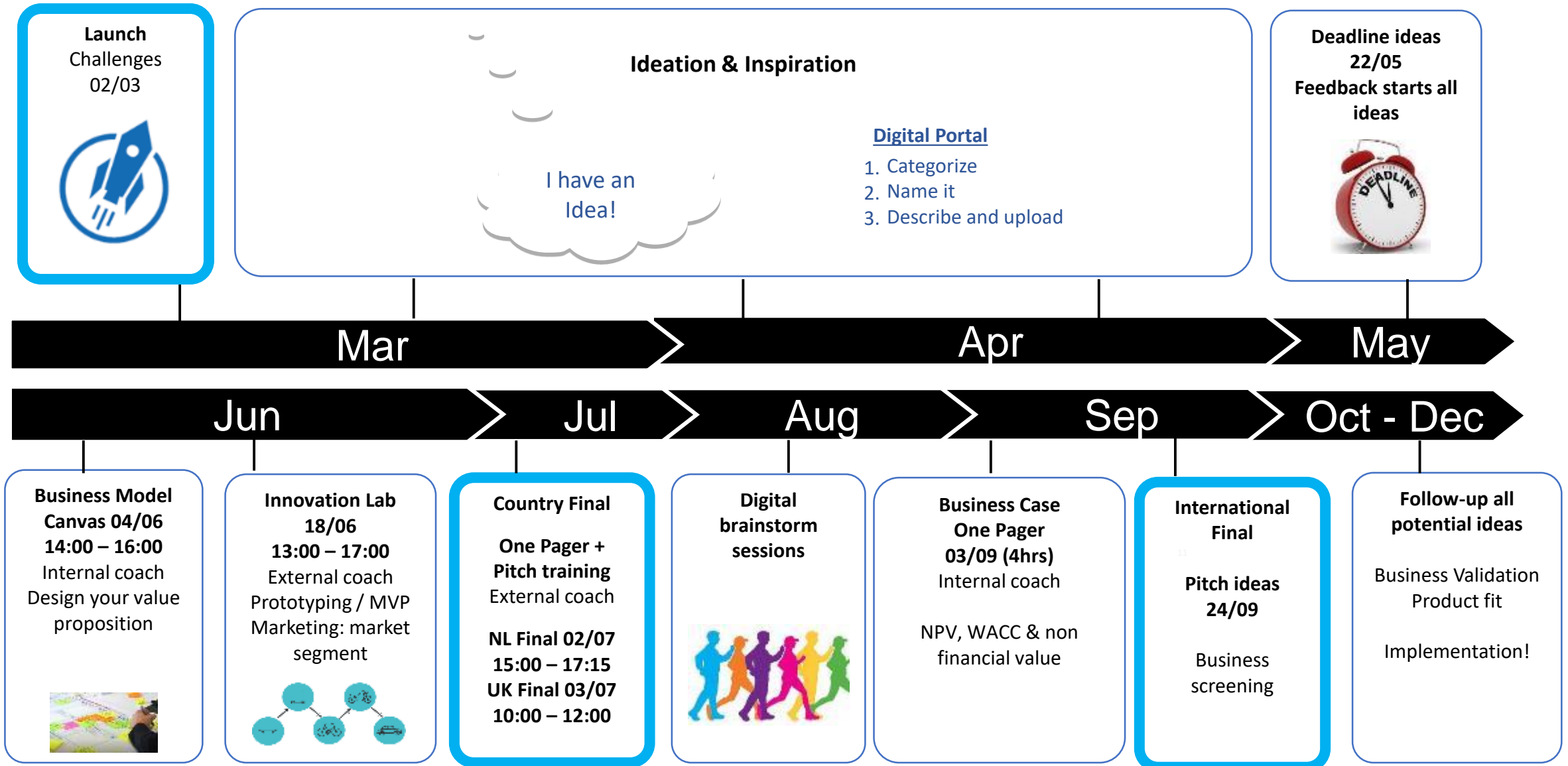
Cost efficiency and competitiveness is a prerequisite for value creation and growth.



[Digital Platform](#)

**Welcome to Vattenfall's digital
innovation portal!**

Innovation Accelerator Program



Innovation is now needed more than ever

Urgency will make innovators adapt to a new reality

602 distilleries in the United States now produce hand sanitizer.

Distillery	City	State	Website
1857 Spirits Barber's Farm Distillery	Middletown	New York	1857spirits.com
Astrondack Distilling Company	Utica	New York	astrondackdistilling.com
Air Co.	New York	New York	aircompany.com
Beak & Skiff 1911 Distillery	Lafayette	New York	beakandskiff.com
Black Button Distilling	Rochester	New York	blackbuttondistilling.com
Breuckelen Distilling	Brooklyn	New York	brdistilling.com
Buffalo Distilling Company	Buffalo	New York	bfdistilling.com
Capitol Distillery	Albany	New York	odistillery.com
Clayton Distillery	Clayton	New York	claytondistillery.com
Cooper's Daughter Distillery at Oldo York Farm	Claverack	New York	oldoorkfarm.com
Cooperstown Distillery	Cooperstown	New York	cooperstowndistillery.com
Dark Island Spirits	Alexandria Bay	New York	darkislandspirits.com
Diageo North America	New York	New York	diageo.com
Finger Lakes Distilling	Burdett	New York	fingerlakesdistilling.com
Gardner Liquid Mercantile	Gardiner	New York	gardnerliquidmercantile.com
Greenhook GinSmiths	Brooklyn	New York	greenhookgin.com
Hartmann Distilling Co.	Buffalo	New York	hartmanndistilling.com
Hollerhorn Distillery	Naples	New York	hollerhorn.com
Honeye Falls Distillery	Honeye Falls	New York	hfdistillery.com
Kings County Distillery	Brooklyn	New York	kingscountydilillery.com
Lake George Distilling Co.	Fort Ann	New York	lakegeorgepotdistillingcompany.com
Lock 1 Distilling Co.	Phoenix	New York	lock1distillingco.com
Magnanni Farm Winery & Distillery	Walkill	New York	magnanni.com
New York Distilling Company	Brooklyn	New York	nydistilling.com
Niagara Craft Spirits	Lockport	New York	niagarcraftspirits.com
Distillery	City	State	Website

Big Tobacco companies join the race for the Covid-19 vaccine

Philip Morris and British American Tobacco are trying to device a plant-based vaccine and can produce 3 million vaccines per week as of June.



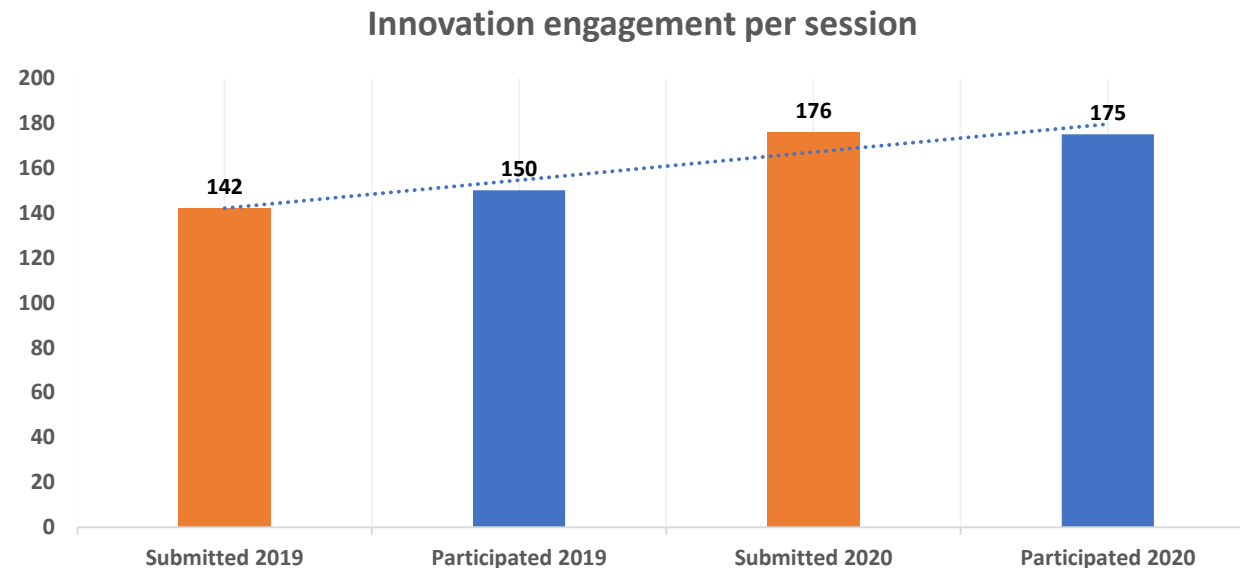
Hack the Crisis hackathon for Covid-solutions for different problems

Thousands of developers, free-lancers and corporates in different roles have spent the weekend designing solutions for the societal and medical problems that occur as a result of the ongoing Covid-19 crisis.



Times of crisis beneficial to the innovation movement as circumstances require change

- We successfully moved to all-digital innovation (interactive) activities
- Growing innovation employee engagement
- New ideas ranging from core business to purpose driven initiatives
- Growing team of passionate volunteers to drive innovation, mentoring & coaching





Innovation
Accelerator

Create innovative
mindsets

Generate more
ideas

Stimulate
innovative thinking

Build innovative
culture

Collaborate with you!

Collaboration



- **We are open to collaborate with all who want to engage with Vattenfall and innovate together**



- **Invite us for virtual coffee**



- **Look into common goals – Empower!**

Q&A

Job van der Kroft

Commercieel Manager Energie @Port of Amsterdam

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Peter Paul van Voorst tot Voorst
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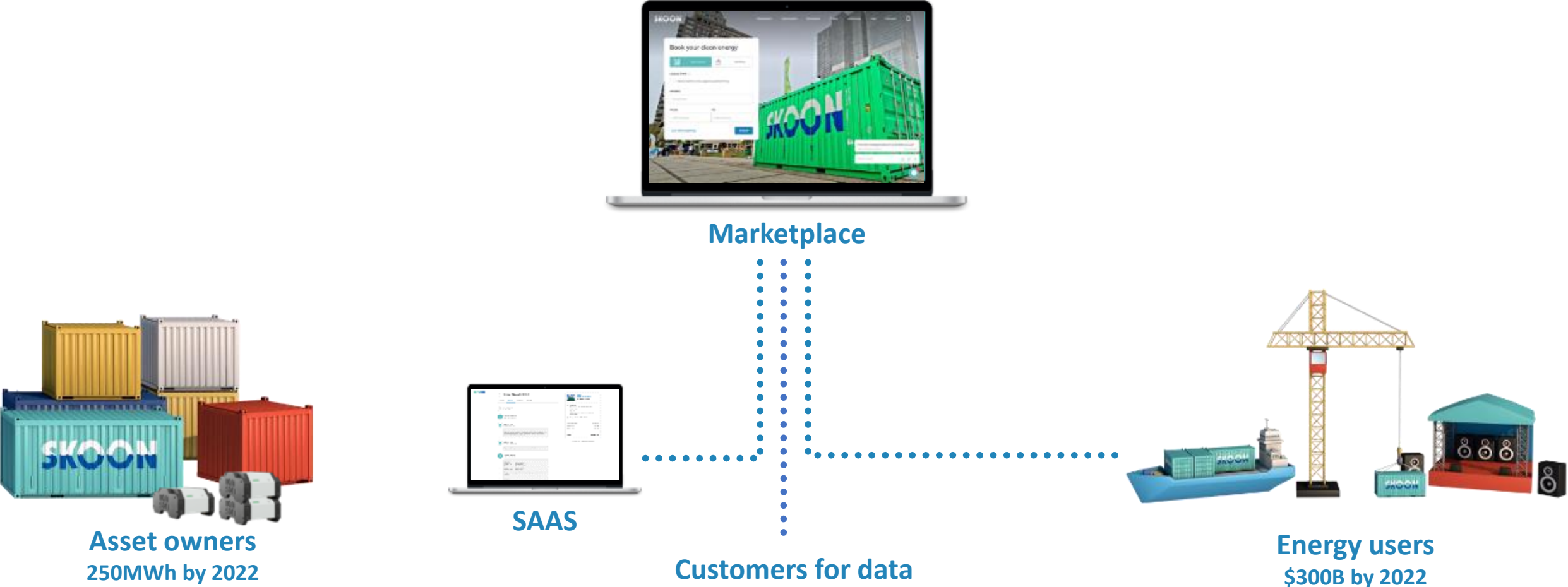
SKOON

Clean Energy on Demand
Connecting asset owners and users

info@skoon.world
+31 6 177 45 012

Skoon – The Clean Energy Platform

SAAS-Enabled Marketplace , marketplace
launched in October 2019





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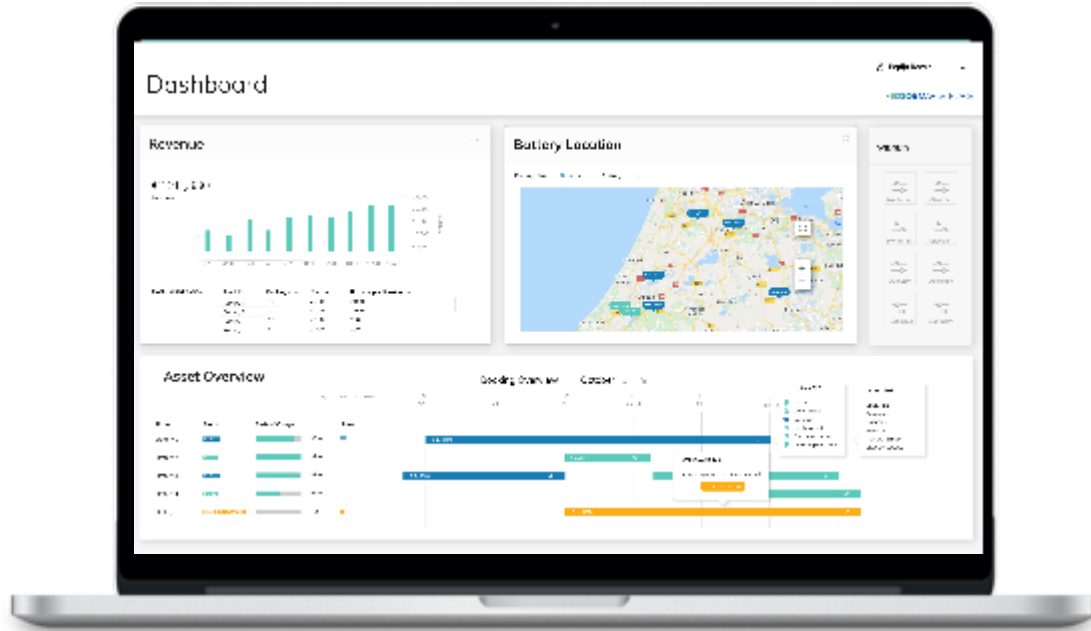
Our partners deserve the best software



So, we learn from hardware experience

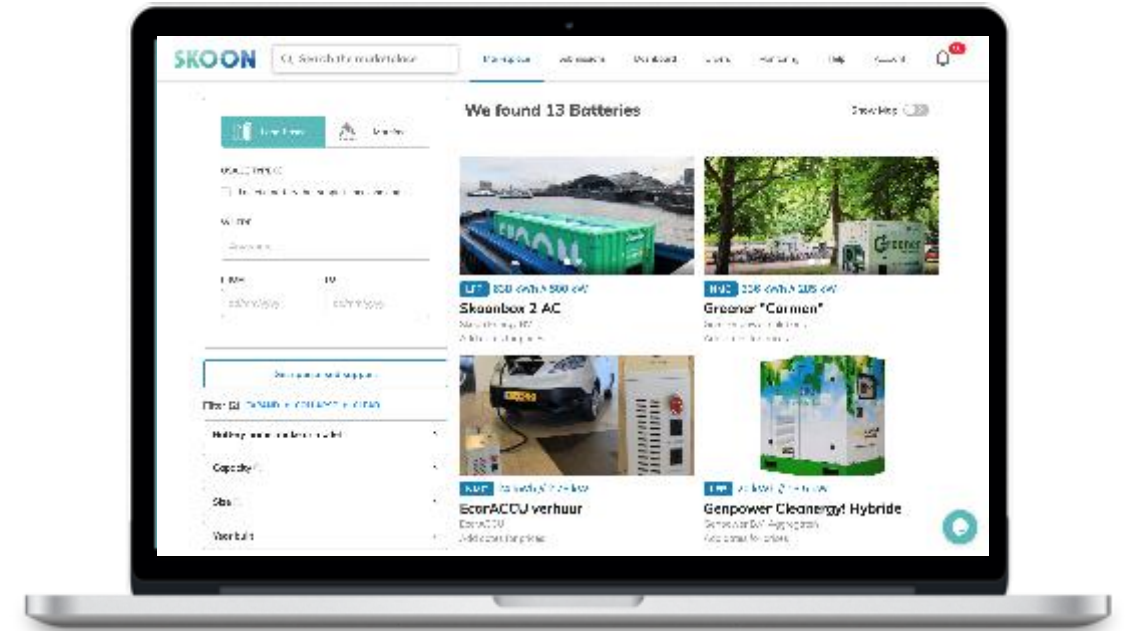


Skoon Platform



SAAS

+



Marketplace

PROJECT CLEAN AMSTERDAM

Working towards a zero-emission port



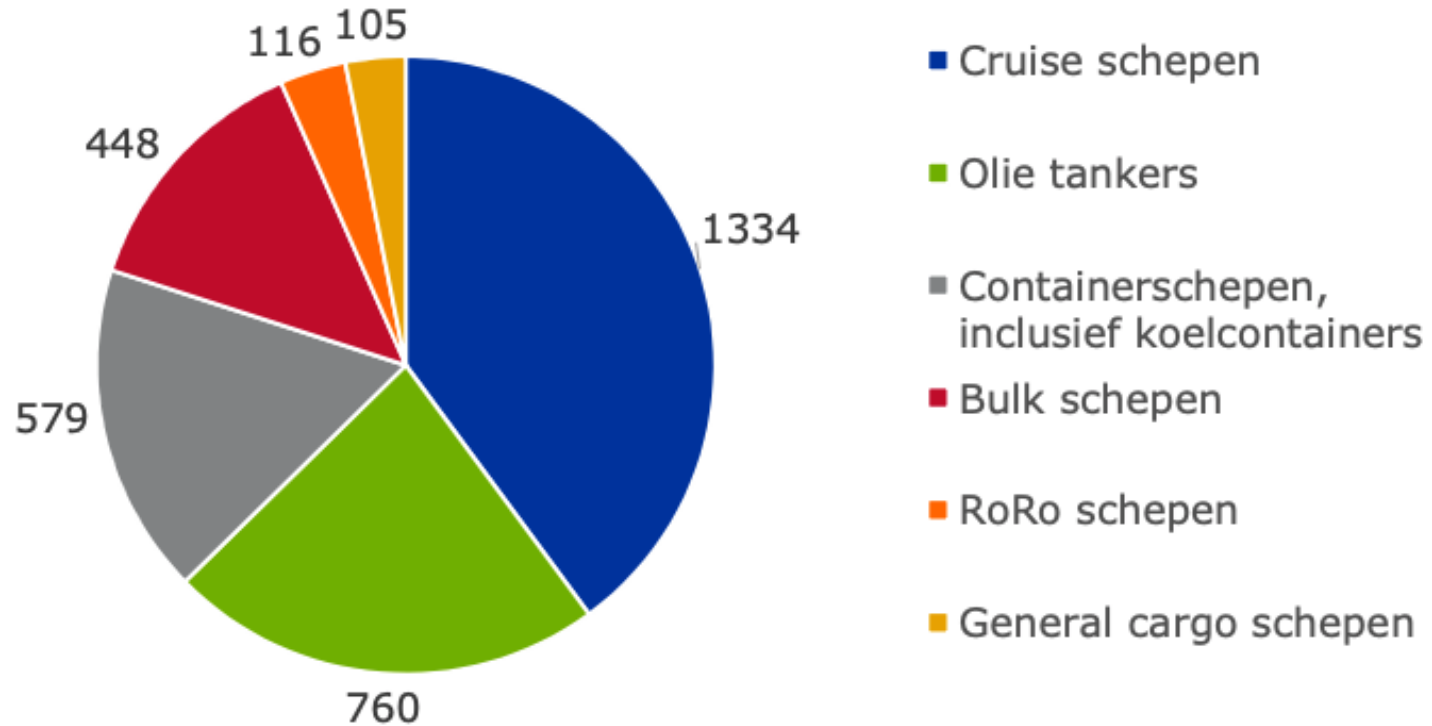
Scan and
discover
our ambition

SKOON



Market Insights - Demand

Industrial use for shore power in ports

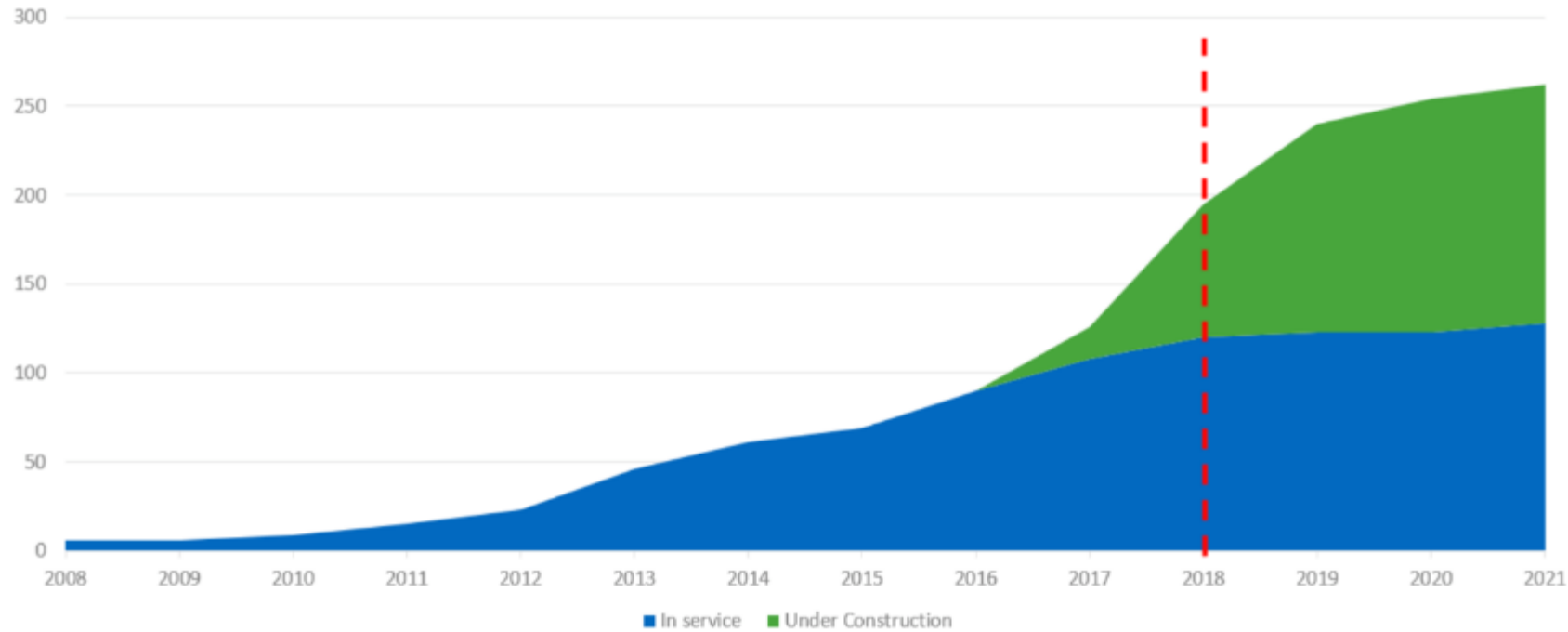


Potential for shore power for different vessel types in Europe (GWh/year) (Ecofys, 2014)

Skoon provides data driven energy solutions, that benefit the development of shore power facilities, by using batteries as a backup and testing for future shore power connection, so investment decisions are based on real data.

Market Insights - Demand

Industrial use onboard of vessels



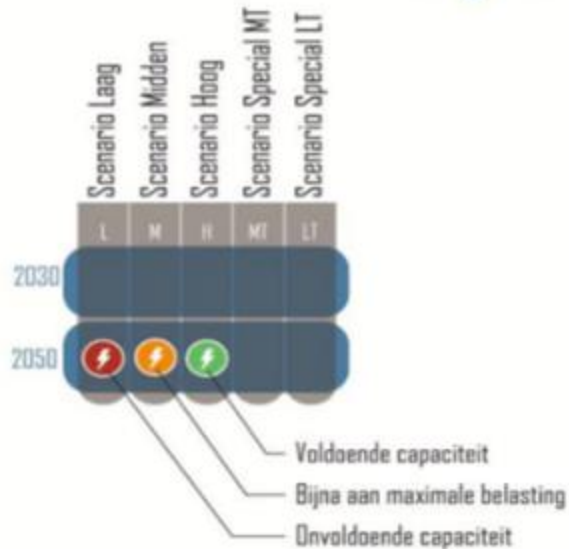
Skoon provides swappable energy solutions, to meet the growing demand in shipping. There is no need for capital investments for shipowners and as technology improves, the most optimal energy storage will be swapped in.

Amount of vessels using batteries for propulsion (DNV GL, 2018)

Market Insights - Demand

Decentralised grids in cities

Legenda



Substations in Amsterdam, red lights indicate capacity is insufficient (Liander, 2019)

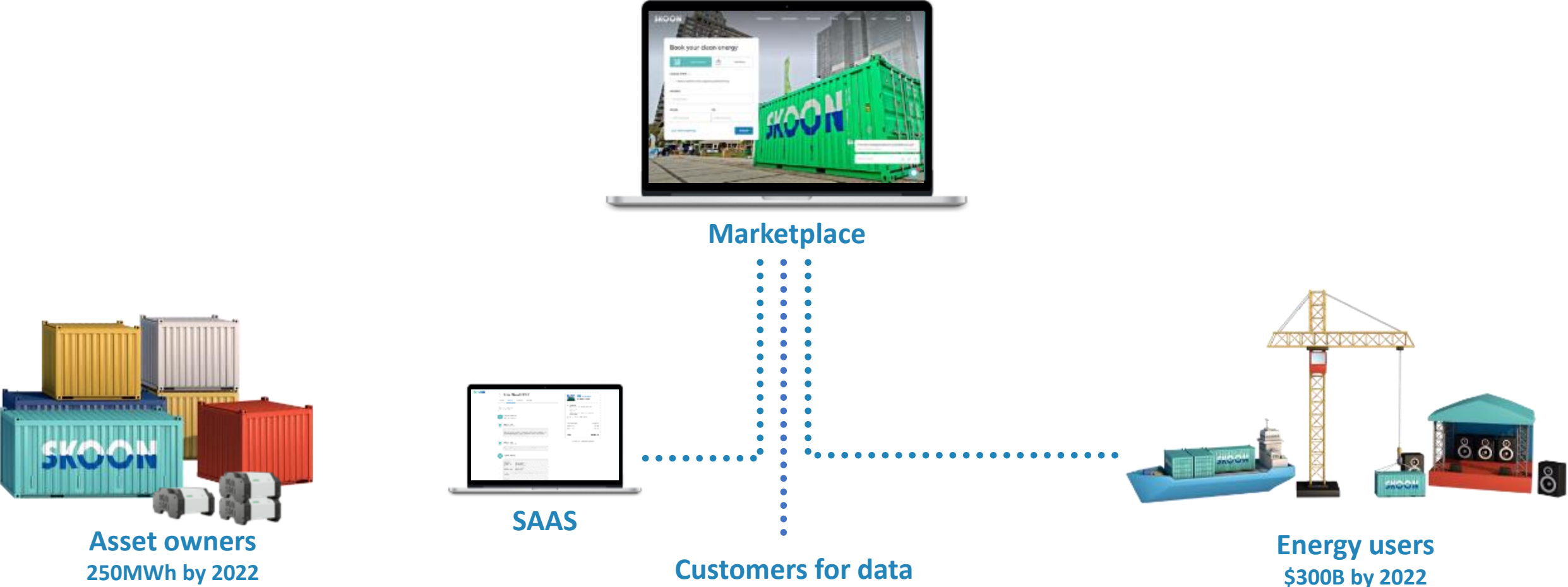
Skoon cooperates with cities and local grid operators to solve challenges with grid congestion, following from increasing energy consumption and decentralisation of energy production.





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Challenge

Hoe gaan wij de transitie in?

De provincie Noord-Holland trekt deze coalitieperiode bijna 73 miljoen euro uit om klimaatneutraal te worden.

De CO₂-uitstoot moet in 2030 met 49% zijn verminderd ten opzichte van 1990.
In 2050 is Noord-Holland klimaatneutraal en circulair om klimaatverandering tegen te gaan.

De havens in het Noordzeekanaalgebied en Den Helder zijn een belangrijke draaischijf en schakel in het toekomstige energiesysteem.

Challenge

Hoe gaan wij de transitie in?

Doel van deze challenge?

Kennis maken met bestaande projecten, maar vooral brainstormen over nieuwe projecten en bedenken wat er precies nodig is om de transitie te laten slagen.

“Hoe ga jij de transitie in?”

www.tetamsterdam.nl

Bekijk de TET projecten op de kaart

Kies aan de hand van het thema één project dat essentieel is voor de toekomst van de haven



Zet een project op de kaart!

Draag een project aan of creëer je eigen project

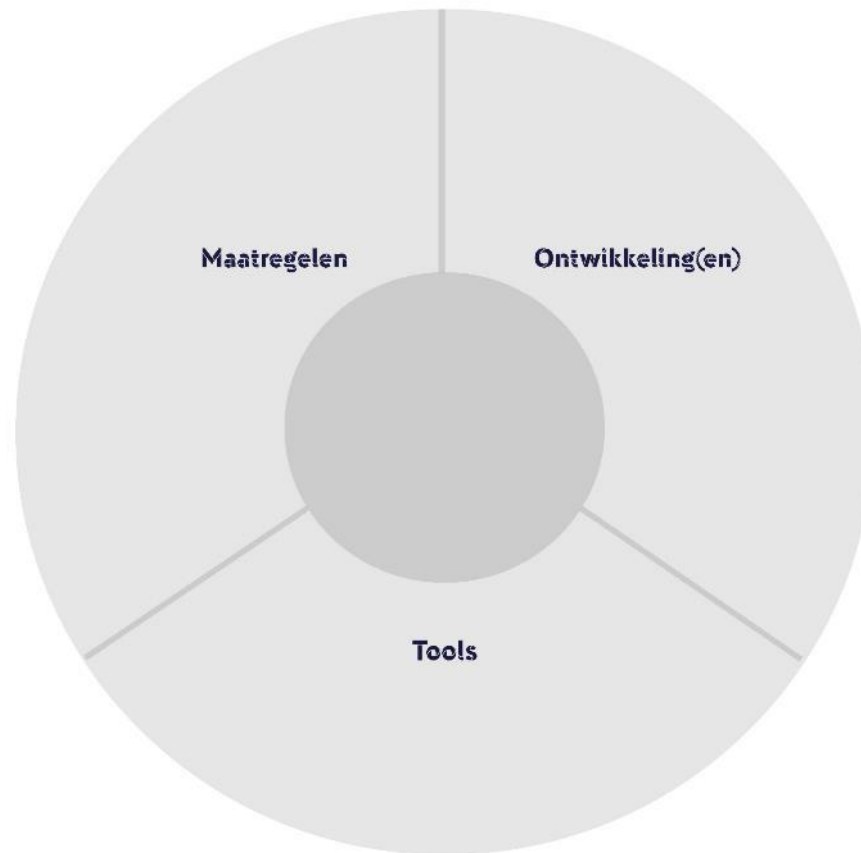
Naam project

Pitch het project

Bestaand project? JA/NEE

“Hoe ga jij de transitie in?”

Welke tools, ontwikkelingen en/of maatregelen zijn nodig om de Energietransitie te laten slagen?



Hoe kan jij bijdragen aan de transitie?