## Netherlands trade mission to Hauts-de-France

3 - 5 April 2023



**Netherlands** 

### Index > Company profiles > Delegation & contact >

Index	Foreword Minister Liesje Schreinemacher Foreword Marc Hendrikse			
The Netherlands	Map of the Netherlands	7		
	Introducing the Netherlands	8		
	Worldwide ranking	9		
	Facts & Figures	10		
	France and the Netherlands	11		
Company profiles	Automotive	14		
	Automotive Campus	15		
	AWL techniek	16		
	Axa Novi	17		
	Battery Competence Cluster NL (BCC-NL)	18		
	BDP Netherlands	19		
	CarbonX	20		
	CARWEI	21		
	Cleantron	22		
	DjimTech	23		
	Eindhoven University of Technology	24		
	E-magy	25		
	ElaadNL	26		
	Geometric Information Model	27		
	In Touch Female Leadership & Career Academy	28		
	Kalpana Systems	29		
	Ministry of Economic Affairs & Climate Policy	30		
	Motexion	31		
	Nedal Aluminium	32		
	NLWorks	33		
	NRF	34		
	Opcharge	35		
	Pal-V International	36		
	Prespective	37		

### Index > Company profiles > Delegation & contact >

Company profiles	SALD	38
	Tekle Holographics	39
	TNO	40
	Trescal	41
	VDL Nedcar	42
	Foodtech	43
	Bravinci	44
	DiManEx	45
	DSM Food & Beverage	46
	Food For Analytics	47
	Gpi De Gouwe	48
	Greencovery	49
	Heffels Spiegeler Advocaten	50
	Movexx International	51
	NGN Pro-active	52
	Nieuwe Oogst/ Agripers	53
	NIZO	54
	Oceanz 3D Printing	55
	OnePlanet Research Center	56
	Topsector Agri&Food	57
	Life Sciences & Health	58
	Dovideq Medical Systems	59
	Heffels Spiegeler Advocaten	60
	NiceDay	61
	Ryberg	62
	Spectator Healthcare Technology	63
	TechMed Centre	64
	Vahlkamp International	65

**WTC Twente** 

66

### Index > Company profiles > Delegation & contact >

Company profiles	Partners Holland High Tech RAI Automotive Industry NL	
	FME Task Force Health Care (TFHC)	70 71
Official delegation & Contact details	Ministry of Foreign Affairs Ministry of Economic Affairs and Climate Policy l Netherlands Enterprise Agency	73 74
	Embassy of the Kingdom of the Netherlands in France	75

### **Foreword**



It is my pleasure to welcome you on this trade mission. The Netherlands and the Hauts-de-France region of France are both strategically located in north-western Europe and have many things in common. I am delighted that we have the opportunity to further develop the relationship between the

Netherlands and the Hauts-de-France region during this mission.

Both the Netherlands and Hauts-de-France strive to be at the forefront of the transition towards a sustainable and digital world, and innovation and partnerships are vital in this regard. The region is working to achieve this goal through its programme focused on the next industrial revolution: a green and digital revolution. The Netherlands contributes to the same objectives through its National Growth Fund.

This trade mission focuses on the automotive, food tech, and life sciences and health sectors and on some of the ground-breaking solutions in these sectors that are driving economic development in the Netherlands and in the Hauts-de-France region. For instance, the Dutch and French battery industries in the automotive sector are thriving. New cutting-edge food processing opportunities will be explored in the food tech sector. And in the life sciences and health sector, the focus will be on medtech, an area with a lot of potential.

In short, there are numerous opportunities for Dutch and French companies to establish partnerships and grow together. I hope that the mission will be a success and provide you with inspiration. I am confident it will lead to many new ideas and contacts.

### Liesje Schreinemacher

Minister for Foreign Trade and Development Cooperation

### **Foreword**



The high-tech sector in the Netherlands is based on a long history of technical innovations. Starting with the microscope of Anthony van Leeuwenhoek and the crankshaft of Cornelis Corneliszoon, both around the year 1600, a long list of innovations conquered the world. Already in 1835 Sibrandus Stratingh built

an electrical vehicle and in 1901 Willem Einthoven invented the ECG machine. Typical for these innovations is that they all aimed to solve societal challenges.

Still today, the high-tech industry in the Netherlands focusses on smart solutions for the global challenges. However, the challenges of today are broader and more complex to solve. The energy transition, zero emission mobility, medical care for an aging population and so forth are important and global challenges that no country can solve by itself. Cooperation with closely related countries to search for complementary capabilities and know how is crucial to come with the appropriate solutions. The Netherlands and France are increasingly seeing the advantages of this sort of cooperation. Therefore, I am very pleased that this mission offers the opportunity to search for this common ground between our countries to achieve a further cooperation in the high-tech sector. With both societal as well as economic benefits for all.

#### Marc Hendrikse

Chairman Holland High Tech, leader of the business delegation



### Map of the Netherlands

#### Locations

- 1. Amsterdam (and Airport Schiphol)
- 2. Arnhem
- 3. Assen
- 4. Breda
- 5. 's Hertogenbosch
- 6. Eindhoven
- 7. Enschede
- 8. Groningen

- 9. Haarlem
- 10. The Hague
- 11. Leeuwarden
- 12. Lelystad
- 13. Maastricht
- 14. Middelburg
- 15. Rotterdam
- 16. Utrecht
- 17. Zwolle



### **Introducing the Netherlands**

### How do the Dutch make a difference?

Through their interactive approach to finding innovative solutions to the big challenges facing the world today. The Dutch way of thinking and working has been shaped by centuries of living in the low-lying delta of the Netherlands. Through the ages, the Dutch have joined forces to find ingenious ways to tackle challenges like water, urbanisation, energy, food, health and security. By being inventive, pragmatic and open to new challenges, the Dutch have created a flourishing and resilient land.

The Netherlands is a constantly evolving ecosystem of cities, industry, agriculture and nature, all integrated through smart infrastructure. It is a source of knowledge and experience that the Dutch are keen to share with others. Learning from the past to create a better future. Together, seeking sustainable solutions for the most liveable world.



### Worldwide ranking

## 1st

At WEF's ranking of most competitive economies in Europe. 4th in the world. (WEF, 2019)

Production and auctioning of cut flowers and flower bulbs

World's largest flower exporter

## 2nd

Largest exporter of agricultural products in the world (WTO, 2019)

5th

Greatest place to live (World Happiness Report, 2022)

6th

Best at Global Innovation Index (GII, 2021)

## 7th

Largest exporter of goods in the world (CIA World Factbook, 2020)

Largest foreign investor in the world (1,256 billion US dollars)

Largest recipient of foreign investment in the world (801 billion US dollars)

8th

Largest importer of goods in the world (507 billion US dollars)

### Facts & Figures

Official name:

Kingdom of the Netherlands

Capital:

Amsterdam

Seat of government:

The Hague

Form of government:
Parliamentary
democracy (cabinet
of Prime Minister
and Ministers) within
a constitutional
monarchy

Head of State:

His Majesty King Willem-Alexander, King of the Netherlands, Prince of Orange-Nassau

Location:

Western Europe, bordering Germany, Belgium and the North Sea Administrative structure:

The kingdom consists of four entities.

The Netherlands and three territories in the
Caribbean: Aruba and Curação and St. Maarten

Special municipalities:

The overseas islands of Bonaire, Saba and St. Eustatius, all three of which are situated in the Caribbean

Surface area:

41,545 km<sup>2</sup>

Number of inhabitants (2022):

17,564,623

Monetary Unit:

Euro

Languages:

Dutch, Frisian and on the overseas islands also English and Papiaments

GDP per capita (World Bank, 2021):

58,061 US dollars

Number of provinces:

12

Number of inhabitants per km2 (2022):

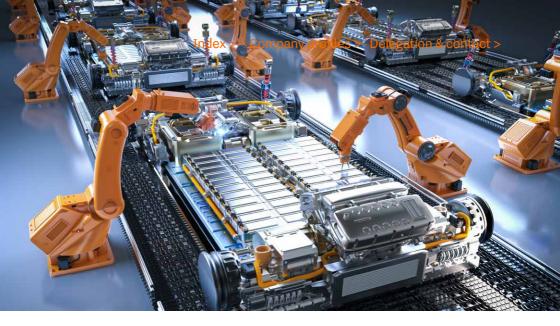
423

Unemployment rate (CBS, 2022):

3.3%

English speaking Dutch people:

90%



### France and the Netherlands

Accelerating towards a digital and sustainable future

Today, we are experiencing a global shift to a digital and sustainable future. This relies on the integration of high tech solutions for various sectors including automotive, health and food. More than just geographical neighbors, the Netherlands and France share a long history of collaboration and commitment to technological advancement. The Netherlands and France both know how vital high-tech innovation and digitalisation are to meeting demands of the present and future. This mission offers business opportunities for companies innovating in the field of automotive, health and agriculture.

Together, with our partners in France, we are on a mission to build partnerships and pave the way for the transition to a new industry that is economic, digital and sustainable. From the 3rd to the 5th of April 2023, we will be joining forces to exchange knowledge and new business opportunities.



### The Netherlands as your sustainable partner

The Netherlands and France are committed to the achievement of the SDG's which, among other things, including goals surrounding carbon neutrality, food security, and health. To make these goals a reality, government, businesses and knowledge institutes collaborate to create innovative solutions for challenges related the automotive industry, agriculture, and health. We are keen to work with countries around the world to share our knowledge and expertise or adapt our proven solutions to local circumstances.

### Join us in unlocking the future, together

We invite everyone working in the automotive, health and food sectors to join us. The Netherlands and France are ready to pave the way and change the world for the better, together and contribute to this sustainability and digitisation revolution.

## Company profiles

Automotive
Foodtech
Life Sciences & Health
Partners



### **Automotive**

Automotive Campus	15	Kalpana Systems	29
AWL techniek	16	Ministry of Economic Affairs	
Axa Novi	17	& Climate Policy	30
<b>Battery Competence Cluster NI</b>	_	Motexion	31
(BCC-NL)	18	Nedal Aluminium	32
BDP Netherlands	19	NLWorks	33
CarbonX	20	NRF	34
CARWEI	21	Opcharge	35
Cleantron	22	Pal-V International	36
DjimTech	23	Prespective	37
Eindhoven University of		SALD	38
Technology	24	Tekle Holographics	39
E-magy	25	TNO	40
ElaadNL	26	Trescal	41
Geometric Information Model	27	VDL Nedcar	42
In Touch Female Leadership			
& Career Academy	28		





Pieter Rahusen
Chief Commercial Officer
(Marketing & Sales) &
Business Developer
+31 6 1259 3146
P.Rahusen@
Automotivecampus.com

### **Automotive Campus**

The Automotive Campus in Helmond is the national and international hotspot, meeting point and place of business in the field of automotive (technology) and smart mobility. The Automotive Campus offers an attractive learning and working environment, state of the art technological (test) facilities and flexible accommodation concepts.

The Campus is a one-stop-shop when it comes to automotive technology and mobility concepts. The door is open to engineers, suppliers, scientists, testers and assembly workers. For a "pit stop", co-creation or as a new home base for innovation and product development. The Campus is a meeting place where know-how and companies can get together with the aim of promoting cross-sector cooperation, exchange of knowledge and open innovation. Smart, safe and sustainable mobility solutions for people, roads and vehicles of today and tomorrow are realized at the Automotive Campus

The Campus supports and stimulates open innovation, knowledge exchange and cooperation. Companies on campus inspire each other by sharing knowledge, experience and facilities. The result is that innovation arises faster. This is made possible through the organization and facilitation of seminars, conferences, workshops, meetings and matchmaking activities of both individual and collective nature.



### **Automotive Campus**

Automotive Campus 30 5708 JZ Helmond The Netherlands www.automotivecampus.com





Robin Le Roy **Business Development** Manager +32 476 769 379 robin.leroy@awl.nl



Juriaan ten Brinke **Technical Sales** +316 2040 8728 j.tenbrinke@awl.nl

### **AWL techniek**

AWL is a worldwide leading (robot) system integrator with more than 30 years of experience in the automotive and metal processing industry. As a system integrator, AWL delivers added value as a specialist in the design and construction of smart (modular) machines. Our strength lies in three disciplines: joining technologies, (logistics) automation and assembly techniques. Our portfolio includes laser welding, arc welding, resistance welding, glued joints, vision systems, product handling, quality control and traceability. At AWL, we focus on the automotive, metalworking and logistics industries, where high levels of automation and a high degree of flexibility are essential.

With branches in the Netherlands, the Czech Republic, China, Mexico, the United States and the United Kingdom, we support our customers all over the world. This guarantees our customers' global productivity by means of smart and reliable solutions in the field of high-end automation, robotization, machine vision and joining technologies.

AWL is a private company with over 700 employees worldwide















Bart Timmermans
Business Owner &
Managing Director
+31 6 2074 5562
bart@axanovi.com

### **Axa Novi**

Axa Novi is a boutique consultancy agency with a strong focus on business strategy, business development and internationalization. Besides, we are also your partner for interim management assignments. Our focus is on mid-sized organizations that are active in automotive, manufacturing or trade environments. Axa Novi is also an associate of the global automotive community StepsBridge that offers global support.

While you understand, manage and lead your business and your own company, it also takes a fresh pair of eyes to secure long-term success. We help you realize your business growth ambitions with incisive analyses, by formulating a clear and sustainable vision or strategy and putting that advice into practice. We realize lasting, concrete improvements in your business performance together.

Axa Novi analyses, defines and implements. We call this "Active Strategy"!

Axa Novi Broenskuil 27 6049 LM Roermond The Netherlands www.axanovi.com





Gerard Koning Cluster Manager BCC-NL +31 6 2939 5352 g.koning@raivereniging



Janet Kes Manager Battery Recycling +31 6 2707 3578 Janet.Kes@arn.nl

### Battery Competence Cluster NL (BCC-NL)

The Battery Competence Cluster NL (BCC-NL) is the cluster where Dutch companies, knowledge institutes and organizations join forces to build knowledge and competencies in the field of battery technology. The battery, transport and vessel industry in the Netherlands comes together in this.

To take advantage of the opportunities of the energy transition and battery technology and, above all, to accelerate innovations, the industry, knowledge institutions and sector associations are committed to developing a strong battery ecosystem.



**Battery Competence Cluster NL** 

Automotive Campus 30, 5708 JZ Helmond The Netherlands

https://batterycompetencecluster.nl





Luc Geysen Global EV Director +32 474 091153 luc.geysen@globalpsa.com



PSA-BDP is the world's largest port group and global logistics service provider. We are active in 26 countries owning more than 60 deepsea, rail and inland terminals as well as distriparks, warehouses and marine services.

PSA-BDP delivers world-class supply chain solutions and we ambition to become the circular supply chain orchestrator of choice for the Electric Vehicle sector.



Liselot Paeleman Solutions Design Manager +32 477 713 981 liselot.paeleman@ globalpsa.com

BDP Netherlands
Oudelandseweg 29
3194 AR Hoogvliet
The Netherlands
www.bdpinternational.com





Daniela Sordi CTO dsordi@CarbonX.nl



Sophie Dik Head of Sales +31 6 2168 8947 sdik@carbonx.nl

### CarbonX

CarbonX is an advanced materials company originating from Delft University of Technology in the Netherlands. After scaling up production, we're supplying customers globally in tire and battery industry. The unique 3D-network structure of our patented carbon material brings faster charging and longer life time to li-ion batteries, as a drop-in graphite substitute.

CarbonX technology is currently being validated by cell manufacturers around the world. First pouch cell results have been generated.

CarbonX
Molengraafsingel 10
2629 JD Delft
The Netherlands
www.carbonx.nl





Carina Weijma
Director
+31 6 4433 6799
carina.weijma@carwei.com

### **CARWEI**

CARWEI, strategic consultancy firm, is founded by Carina Weijma. Over 15 years of experience in management- and strategic roles in innovative organizations, public-private partnerships and change processes. Bridge building roles:

- In public-private partnerships between business, knowledge institutions and the government, with an international point of view.
- In economic revenue models, as well as in organizations that do not have a profit motive.

Soft skills starting points for CARWEI are: 'Do we work together on the basis of mutual trust? How do we contribute to societal goals?" The work is content-driven. The strategic route is often out-of-the-box. With an eye for the added value for all those involved, who have different interests.

CARWEI worked with innovative organizations with an international focus such as ASML, Holst Centre, Brainport, NTS-Group, van Abbemuseum, European Space Agency (ESA), TU/Eindhoven. Carina Weijma also worked in Dutch partnerships with an international focus, such as the Top Sector High Tech Systems and Materials, Top Sector Creative Industries, the Netherlands Artificial Intelligence Coalition. From her experience in various management roles she knows the government side of the table as well as the business perspective. She also fulfills positions on some Supervisory and Advisory Boards.

'Met ziel en zakelijkheid'

CARWEI
Parallelweg 55
5664 AG Geldrop
The Netherlands
www.carwei.com





Maurice van Giezen CEO +31 6 5339 9375 maurice.vangiezen@ cleantron.nl

### Cleantron

Cleantron, located near Amsterdam, is a specialist Producer of Li-ion Battery Modules for different Market Sectors like Industry 4.0, Non Road equipment, e-Bikes and Light Electric Vehicles.

Cleantron produces Low Voltage (24V-48V) as well as High Voltage Modules based on NMC, NCA, LTO and LFP Chemistries, with or without active cooling & heating. The ISO9001 certified production is completely located in 3000 sqm in the Netherlands.

Cleantron has in-house Product Design (for mechanical/ thermal solutions) and Electrical Engineering (for BMS & Drivetrain integration) departments.

Cleantrons R&D program, that runs with Eindhoven University and partner NXP, is focussed on topics like Fast Charging and Cell Aging. Cleantron is leading in Cell Sensing Technology and Algoritm development for advanced Battery Management Systems striving for Lifetime Extension and Fast Charging.

Cleantron employs >60 high skilled technical employees in the Netherlands and has sales offices in Amsterdam, Munich and Paris.



#### Cleantron

Pesetaweg 37 2153 PJ Nieuw Vennep The Netherlands www.cleantron.nl





Theophile Leonard Djimtche Director +31 6 3473 8255 info@djimtech.nl

### DjimTech

DTTI cooperate with DjimTech.

Since 2008, DjimTech provides installation work for individuals and companies. Djimtech's activities are electricity, solar panels, plumbing, air conditioning and heat pump installation.

DTTI Established since 05-08-22. The purpose of DTTI is Sustainable Technical Total Installations.

DTTI cooperates with Djimtche to supply and install all sustainable products for private individuals and companies. The activities such as: Charging station. Solar panels, heat pump an air conditioning.

DTTI stand for Sustainable Technical Total Installation.

## DTTI Markerkant 10-104 1316 AL Almere The Netherlands www.djimtech.nl

# TU/e EINDHOVEN UNIVERSITY OF TECHNOLOGY



Margriet van Schijndelde Nooij

Program Manager Responsible Mobility +31 6 5384 6379 m.v.schijndel@tue.nl



Tijs Donkers
Associate Professor
+31 6 4606 8891
m.c.f.donkers@tue.nl

### Eindhoven University of Technology

De Rondom 70 5612 AP Eindhoven The Netherlands https://www.tue.nl/en/ research/research-areas/ smart-mobility

### **Eindhoven University of Technology**

Eindhoven University of Technology is founded in 1956 by industry, local government and academia. TU/e offers academic education, driven by fundamental and applied research. Our campus is in the centre of one of the world's most powerful technology hubs: Brainport Eindhoven. Globally, we stand out when it comes to collaborating with advanced industries. Together with other institutions, we form a thriving ecosystem that aims to improve quality of life through sustainable innovations.

Our Program Responsible Mobility is centred around smart mobility, sustainability, user-centricity, HMI, multimodality, with these program lines:

- Vision, perception and actuation for safe automated driving.
- High definition maps, positioning and world modelling for automated driving
- Effective and easy-to-use multi-modal mobility systems
- Environmental footprint minimization of the transport system
- · Smart charging and smart energy usage

Within the field of battery research, TU/e focusses on:

- Atomic Layer Deposition, enabling next-generation battery production
- Redox-flow batteries for stationary bulk energy storage
- Battery Management Systems, ensuring longevity and safety
- Effective integration of batteries in vehicles and transportation systems
- Business models for circular usage of batteries





Axel Schönecker CTO +31 6 2256 9900 axel.schonecker@ e-magy.com



Marco Spreafico Senior Battery Application Engineer +31 6 2571 3334 marco.spreafico@ e-magy.com

### E-magy

E-magy supplies nano-porous silicon for high-energy silicon-dominant batteries. Our specialty silicon ensures 40% higher energy density, is compatible with existing Gigafactory production lines and ready to be scaled up. The unique material is produced in our state-of-the-art production facility near Amsterdam, The Netherlands.

Our team consists of advanced materials specialists with over 20 years of silicon crystallisation experience and is driven to bring automotive and battery manufacturers winning battery performance. As ultimately our dream is for everyone to enjoy clean, electrically-powered mobility.

E-magy. On with silicon



### E-magy Bijlestaal 54 A 1721 PW Broek op Langedijk The Netherlands www.e-magy.com





Baerte de Brey Chief International Officer +31 6 1103 4826 baerte.de.brey@elaad.nl

### **ElaadNL**

ElaadNL researches and tests the smart and sustainable charging of electric vehicles. Owned by the Dutch gridoperators, ElaadNL is their knowledge and innovation centre in the field of (smart) charging infrastructure in the Netherlands.

ElaadNL coordinates the connections of public charging stations to the electricity grid. Optimal use can be made of the existing grid by 'smart charging', requiring fewer expensive investments of the electricity grid. ElaadNL opens the market to flexibility of EV's to provide a buffer for the new energy system.

In the recently opened, state-of-the-art Testlab in Arnhem, new models and innovations in the field of charging electric vehicles are tested and the interaction with the underlying power grid is researched. Producers of electric cars, buses, trucks and other forms of electric mobility and of all matching charging infrastructure and ICT communication services are welcome in the open test lab. This improves products and services to enable a smooth transition to smart and sustainable charging of electric vehicles.

Apart from testing, ElaadNL is involved in many 'practical' deployments such as bi-directional charging (V2G), cyber security and interoperability of charging. ElaadNL developed the de-facto global standard for connecting different charge stations, the Open Charge Point Protocol (OCPP).

# ElaadNL Westervoortsedijk 73 Gebouw KB PO Box 882 6800 AW Arnhem The Netherlands

www.elaad.nl





Aart Pastoor Business Manager/CCO +31 6 5353 3479 aart@GIMtransfer.com



Marcel Kasteleijn Founder/CTO +31 6 3831 0083 marcel@GIMtransfer.com

### **Geometric Information Model**

GIM is a software company supporting engineers of the production industry e.g. Automotive, Machinery, Building, Civil Engineering etc.

By providing innovative CAD-supporting-tooling which automates several simple and dull, but time consuming, tasks we generate significant reduction of engineering time. Spending time on export, transport and import is reduced to the bare minimum and the creation of special drawings to support your clients while hiding your IP is no longer needed. In the same go, your clients do get better CAD-data and you can use more easily the CAD-data of the components you buy in.

Our data model is not restricted to any CAD software so each user in the project, whether this is a supplier, engineer or client, can use their own CAD software of choice. The data is also not limited on precision or object size, we handle nanometers to kilometers or miles in the same model.

Computers should do the dull tasks and not restrict the engineer.

### Geometric Information Model

Raapopseweg 1 6824 DP Arnhem The Netherlands www.GIMtransfer.com

## InTouch Female Leadership & Career Academy



Mira Vasic
Expert Trainer and
Executive Coach | Senior
Partner and Co-owner
+31 6 3913 5969
mira@intouchwrm.nl

### In Touch Female Leadership & Career Academy

For 25 years, we help organizations to become truly gender diverse and inclusive. We focus on helping women to get more influence on their own careers and on the world, but we believe that people of all gender should be part of the solution.

In Touch Female Leadership & Career Academy was founded in 1997 by Monic Bührs and Elisa de Groot. In 2020 Mira Vasic joined 'In Touch' as senior partner and co-owner to make sure that the topic of gender diversity and inclusion remains on the world agenda.

We give inspirational keynotes, career trainings and workshops, executive coaching and we have our own online academy.

Within your company, we introduce gender diversity as a business issue. Together we will reach an inclusive culture that values both feminine and masculine qualities. This will not only increase business results, but will also result in a happier labour force and a higher rate of job satisfaction for both men and women.

Our experienced partners are also authors of several scientific articles and best-selling management books in Dutch and English. The Dutch-language version of 'Stratego for women' was nominated for the management book of the year 2008 and is available in English.







In Touch Female Leadership & Career Academy Helmar 7

1906 JB Limmen
The Netherlands
www.intouchwrm.nl/en





Diederick Spee CEO +31625056789 diederick@kalpanasystems.com



Sander ten Kate CCO +31 6 4659 0813 sander@kalpanasystems.com

### Kalpana Systems

Kalpana Systems is proud to announce an S-ALD technology with a throughput and up-time superior to all currently available alternatives. Among thin-film coating technologies, Atomic Layer Deposition is the one that delivers superior coating conformality, density and stoichiometry while the product remains at atmospheric pressure and low temperature. A broad range of products can be coated with a variety of materials.

Kalpana Systems utilises its superspatial precursor separation technology in a new solution which improves throughput as well as uptime. High-volume roll-to-roll ALD is now available to improve manufacturing in many industries.

Kalpana Systems
Molengraaffsingel 10
2629 JD Delft
The Netherlands
www.kalpana-systems.com





Casper Buijs Senior Policy Officer +31 6 5000 2226 c.e.h.c.buijs@minezk.nl

### Ministry of Economic Affairs & Climate Policy

The Ministry of Economic Affairs & Climate Policy promotes the international competitive position and sustainability of the Dutch economy. At the Ministry I am the first point of contact for the high-tech automotive sector. In this capacity I work closely with industry stakeholders, other government bodies and international partners on topics including the green transition and internationalisation of the Dutch automotive industry. I also work on deep tech start/scale-up policy, which in turn is closely related to next generation (battery) technology, smart mobility and future mobility solutions.

Ministry of Economic Affairs & Climate Policy Bezuidenhoutseweg 73

2594 AC The Hague The Netherlands www.government.nl





Rob van Duijnen CEO +31643350070 robvanduijnen@motexion.nl

### Motexion

At Motexion we're pleased to help you protecting your company vehicle. We develop and produce accessories for the protection of all brands and models of utility cars.

The use of our products prevents damage to the vehicle, its occupants and cargo. Our range is supplied, including fasteners, in ready-to-use packages, which are easy to assemble thanks to their perfect fit.

We develop turnkey solutions for car manufacturers, car importers and car dealers to optimally provide commercial vehicles with protective 'inner lining' and more.

Flooring, lining, separation walls, rubber mats, consoles, sidebars, etc. In a variety of colors, materials and versions.

The processes are fully customized in terms of product, basic materials and logistics, so that the car manufacturer is completely unburdened.



**Motexion Equipment/ Motexion Protective Products** Bellstraat 4 3133 KE Vlaardingen

The Netherlands www.motexion.com





Lorenzo Comini Breda Business Developer +31 6 8525 3556 LorenzoCominiBreda(a) nedal.nl



Edwin Meerbeek
Area Manager
+31 6 1873 1490
Edwin Meerbeek (anedal.nl

### **Nedal Aluminium**

The Nedal charging station is the discreet charging solution for public spaces in smart cities. This product was created to tackle the ever-increasing demand for safe and intelligent charging infrastructure. What is more, the product makes a stand against the rising chaos in the public space. In fact, this product is a solution to the chaos that is increasingly faced by public spaces.

Traditional lamp posts will be replaced by multifunctional light poles that include a charging station as well as other applications like integrated measurement and control technology, CCTV and 5G.

The coming decade will see significant changes in traditional street scenes, which will be dominated by electric cars that need charge stations on the street. Nedal offers the smart, safe and cheap way of doing just that.



Nedal Aluminium Groenewoudsedijk 1 3528 BG Utrecht The Netherlands www.nedal.com





Karin Bax Director +31 6 1091 3985 Karin.bax@nl-works.com



Renée Andela Partnership Developer +31 6 1515 7343 Renee.andela@ nl-works.com



NLWorks
Bezuidenhoutseweg 12
2594 AV The Hague
The Netherlands
https://nl-works.com

### **NLWorks**

NLWorks accelerates the creation of international networks between entrepreneurs and governments for the purpose of building joint business propositions.

NLWorks match the ambition and needs of Dutch and foreign entrepreneurs with those of governments.

NLWorks helps to create impact programs with a solid business case, that benefit the public or private goals; but more importantly that create a societal impact for all. We believe that by bridging the gap between private and public parties, we can create viable solutions for global problems, with sustainable impact.





Frank Toebes
Managing Director
f.toebes@nrf.eu



Hadia Gouider
Regional Director Sales &
Operations DCH/BNL/UK
h.gouider@nrf.eu

#### **NRF**

For almost 100 years NRF has been a leading manufacturer and supplier of cooling products and solutions for the automotive aftermarket, marine, railway and industrial sectors.

NRF was originally known for manufacturing radiators, but today it supplies a wide range of more than 11.000 engine cooling and climate control parts.

And now, NRF has gone beyond cooling with the latest introduction of sensors. In our large development and testing facilities, we constantly ensure that you receive the highest quality products.

Due to our strategically located warehouses and customer service centers, we are a global aftermarket player, but a local partner.

You can expect a high level of service from us, and we speak your language. Every day, NRF products go to customers in more than 80 countries worldwide.

NRF
Langenboomseweg 64
5451 JM Mill
The Netherlands
www.nrf.eu

## OPCHARGE



Robin van der Harst Senior business development manager +31 6 1901 8799 robin@opcharge.com

### **Opcharge**

Opcharge installs and manages charge points for electric vehicles, while also specializing in charging infrastructure consultancy. The company operates in numerous locations, including city centres, hospitals, retail areas, logistic hubs and (residential) car parks.

The organisation offers added value thanks to its customer-focused, user-friendly and service-oriented approach – all built on reliable infrastructure. B2B partners are completely relieved of these matters. Within the public sector, for instance, Opcharge takes the entire handling of a charge point application off municipalities' hands.



### Opcharge

Marksingel 2a 4811 NV Breda The Netherlands www.opcharge.com





Taco van Someren **VP International Business** Development +316 4271 7307 tacocrvansomeren@ pal-v.com



Shuhua Wang VP China +31621454428 shuhua.wang@pal-v.com

### Pal-V International

PAL-V makes air mobility part of everyday life by creating innovative and sustainable air mobility products. The PAL-V Liberty will be the first certified flying car to enter the market. By combining flying and driving in one vehicle, the PAL-V Liberty allows its operator to FlyDrive from any door to any door in the world without having to change vehicles. Unlike Urban Air Mobility vehicles, the PAL-V Liberty can make use of existing infrastructure and regulations. The PAL-V Liberty allows private and professional users to save valuable time, increase efficiency, and increase the flexibility of their operation.

PAL-V International is also researching the use of zero emmision fuel for fly-drive mobility in the future.

Pal-V International

Baileybrugweg 13C 4941 TB Raamsdonksveer The Netherlands www.pal-v.com





Omar Ajouz
Business Development
Manager
+31 6 2917 9161
omar.ajouz@
prespective-software.nl

#### **Prespective**

Prespective specialises in developing cutting-edge Digital Twin software for industrial applications. Our software allows users to create an exact replica of their machine or production line in a digital environment. This digital twin is a true-to-life simulation that replicates the behavior of the real-world system with pinpoint accuracy.

With our software, users can perform virtual tests and run simulations to identify any errors or bottlenecks in the system. By detecting these issues early on, our clients can optimise their production processes and avoid costly downtime or delays. Moreover, our software enables users to test new ideas and experiment with different scenarios in a safe and controlled virtual environment

Our Digital Twin software is designed to integrate seamlessly with existing industrial systems and equipment, making it easy for our clients to adopt and implement our solutions. We provide comprehensive support throughout the entire process, from initial setup to ongoing maintenance and upgrades.

At Prespective, we are committed to providing our clients with innovative and reliable solutions that deliver real value to their businesses. With our Digital Twin software, you can gain a competitive edge by streamlining your operations, reducing costs, and improving your bottom line.





#### Prespective

Hooge Zijde 30b 5626 DC Eindhoven The Netherlands www.prespectivesoftware.com





**Erik Kremers** СТО +316 2243 8681 Erik.Kremers@ spatialALD.com



Peter Visser BDO +31 6 1509 7964 Peter.Visser@ spatialALD.com

#### SALD

Welcome to the new world of nanolayers.

With a 1-2 nm thin Atomic Layer of e.g. AlO2, Li-ion battery interfaces can be modified and engineered. Due to the self-limiting growth mechanism of ALD, the process can ensure layer coverage and ultimate conformality. This results in a longer lifetime, higher safety, and shorter formation times.

But traditional temporal ALD is much too slow.

The Eindhoven-based company SALD has overcome this limitation. With our patented SALD systems, highspeed / large-area ALD is possible, at the speed of industrial battery lines (90m/min), even without the need for vacuum processing. We deliver ready-to-use Spatial ALD R&D systems as well as industrial highvolume process equipment.

Explore new business opportunities together! Do you want to try first? Get in contact with our experts to learn about Spatial ALD options for your battery development!







#### SALD

Zwaanstraat 1 bld TX 5651 CA Eindhoven The Netherlands www.spatialALD.com





Jeffrey Rijpkema Vice President Sales +31 6 4610 7046 jeffrey@ tekleholographics.com

#### **Tekle Holographics**

Tekle Holographics provides holographic devices and solutions for Engineering, Smart/Cognitive cities, Defense, Energy and Automotive industries.

Nowadays, VR plays an important role in engineering design. But holographics without headsets are even better. To be able to see a design from all angles makes it possible to discover flaws which are not so apparent on a 2D display. Engineering designs are made with the help of 3D images. However, they are displayed and assessed on 2D monitors. That is why many designers start using VR to be able to look at a 3D representation. But this has all the disadvantages we associate with using VR: no awareness of your surroundings, nausea and wearing a clunky headset. That is why we developed a solution for the engineering and manufacturing design industry. Now you can display your 3D designs in a real immersive holographics without using a headset.

Our engineering solution can use data from all major 3D design software, such as Autodesk, AutoCad, Pointclouds etc. and display the information in a real-time full immersive 3D holographics. This includes all the necessary multibody dynamics calculations. You can walk around the model – or walk even through it – and view it from all sides, all the while being able to discuss the display with colleagues or customers.

#### Tekle Holographics

Arendstraat 11 1223 RE Hilversum The Netherlands www.tekleholographics.com







Ronald van den Putte Sr. Business Development Manager Automotive +31 6 2136 0155 Ronald.vandenPutte@ tno.nl

#### TNO

TNO (The Netherlands Organisation for Applied Scientific Research) is a not for profit research organization and an independent knowledge partner for many OEMs and TIER1s. We invest in the development of technologies and methodologies aiming to transfer these to the industry for making products and services.

TNO Mobility & Built Environment develops technical solutions, tools, and methods to enable energy efficiency optimisation of battery- and fuel cell-electric & hybrid vehicles. Expertise ranges from battery-, fuel cell-, powertrain- and vehicle-technologies up to fleet level and the related infrastructure. Battery technology focusses a.o. on Remaining Useful Life algorithms and battery pack innovations.

TNO's Powertrain Test Center facilitates performance assessment and validation of sustainable and hybrid technologies.

TNO @ Holst Centre boasts state-of-the-art facilities for application development based on thin film and flexible electronics technology.

TNO Energy & Materials Transition is conducting independent research into circular electronics in order to recover strategic metals from waste streams such as batteries, solar panels and circuit boards. TNO EMT is developing new recycling processes to recover metals to produce high grade raw materials. All required facilities for technology development as well as the knowledge to perform system analyses and Life Cycle Assessments is present.





#### TNO

Anna van Buerenplein 1 2595 DA The Hague The Netherlands www.tno.nl

## Trescal



Kasper Pijs Sales Manager +31 6 5464 8369 kasper.pijs@trescal.com

#### Trescal

Trescal is the global leader in calibration services, offering to an array of industries a single-source for measurement, repair and asset management across the globe.

Trescal is independent from any OEMs.
Our certified technicians and experts carry out
calibration and test services, inter-laboratory
comparisons (ILC) as well as primary reference material
(PRM) calibrations.

Based on customer requirements, our service offering includes accredited and non-accredited services for:

- All measured variables whether physical, electrical or mechanical
- · All OEM brands of measuring instruments



#### Trescal Benelux

Joseph Schumpeterstraat 10 7559 SG Hengelo The Netherlands www.trescal.com





Rene Vounckx Chief Technology Officer +31 6 5354 3424 r.vounckx@vdlnedcar.nl

#### **VDL Nedcar**

VDL Nedcar in Born is an independent car manufacturer that sells cars on behalf of third parties. It is the only large car factory in the Netherlands that has been part since the end of 2012 of the industrial family business of VDL Groep in Eindhoven.

VDL Nedcar currently employs 4.000 people. The factory has a production capacity of up to 200,000 cars per year, on a two-shift basis. VDL Nedcar uses a strong automated production process (1,400 industrial robots). Since the start in 1967 more than 5.5 million cars (DAF, Volvo, Smart, Mitsubishi, MINI, BMW) have been produced in Born. VDL Nedcar currently produces the MINI Convertible and the MINI Countryman; of the MINI Countryman we also produce the PHEV variant. In April 2023 we will start production of the fully electric MINI.



## VDL Nedcar Dr. Hub van Doorneweg 1 6121 RD Born The Netherlands www.vdlnedcar.nl



## Foodtech

Bravinci	44
DiManEx	45
DSM Food & Beverage	46
Food For Analytics	47
Gpi De Gouwe	48
Greencovery	49
Heffels Spiegeler Advocaten	50
Movexx International	51
NGN Pro-active	52
Nieuwe Oogst/ Agripers	53
NIZO	54
Oceanz 3D Printing	55
OnePlanet Research Center	56
Topsector Agri&Food	57





Lohic Beneyzet
Consulting Partner
Insights & Visualisation
+31 6 5084 9446
+33 777 300 464
lohic.beneyzet@
bravinci.com

#### Bravinci

Bravinci is a full-service provider for all data related challenges and innovations. We are the trusted advisor for companies and build long term relations with our honest and sincere advice.







#### Bravinci NL

Papendorpseweg 100 (D-Tower 4th-Floor) 3528 BJ Utrecht The Netherlands www.bravinci.com





Henk Jonker COO/Co-founder +31 6 1292 2425 Henk.jonker@dimanex.com



Alexander Bours Sales/Co-founder +31 6 2272 5293 Alexander.bours@ dimanex.com

#### DiManEx

DiManEx is a digital supply chain service provider of services that help its global customers improve their supply chain performance. We provide platform based data analysis on 3D printability of parts, as well as define the economic feasibility of it. In addition, we use different sophisticated digitization services to create digital twins of (spare) parts, that are ready for 3D printing. This can be done through 3D scanning of parts, software based bulk 2D file data extraction, 2D to 3D file conversion as well as a 'Digital Passport of parts (defining 3D printing material, technology and partner to meet the part quality specs). Based on these data we create a digital warehouse of printable parts.

Finally, we provide for a contracted, high quality, network of Additive Manufacturing service providers across the globe; allowing us to 3D print your parts wherever you need them, when you need them and, in the quality required! Worth mentioning are the customers we service, like; Caterpillar, Whirlpool, Electrolux, Dutch Railway, Sidel, Case New Holland Industrial and more.

Our customers rely on us to lower working capital, reduce lead times and their carbon footprint.

DiManEx
Padualaan 8
3584 CH Utrecht
The Netherlands
www.dimanex.com





Marco van den Berg Senior Science Fellow +31 6 1204 5117 marco.berg-van-den@ dsm.com

#### **DSM Food & Beverage**

In a world of competing consumer demands and market pressures, we understand that pleasing consumers isn't always an easy job. That's why with DSM, you get more than just an ingredient supplier. You get a solutions provider, a reliable partner.

Royal DSM is a global purpose-led, science-based company founded in 1902 and listed on Euronext Amsterdam. We are a leader in health, nutrition and biotechnology which, through our products and solutions, aims to address some of the world's biggest challenges whilst creating profitable growth in order to simultaneously deliver economic, environmental and societal value for all.

At DSM Food & Beverage, we strive to achieve a world where you don't have to choose between taste, texture and health. While also reducing both demands on the planet's finite natural resources and our carbon footprint. With our expertise and scientific solutions, we work with you to innovate, to improve and to grow. Together, with our shared passion and dedication, we create the best possible final products to satisfy the unique tastes and nutritional needs of (your) consumers. Our product range includes starter cultures, enzymes, natural flavors, hydrocolloids, bio-preservatives, proteins, natural sweeteners and vitamins.





DSM Food & Beverage Alexander Fleminglaan 1 2613 AX Delft The Netherlands www.dsm.com

# FOOD FOR ANALYTICS



Gert-Jan van Fessem CEO +31 6 2049 0841 gert-jan.van.fessem@ foodforanalytics.com



Arièlle Kluitenberg Sales Engineer +31 6 3885 5522 arielle.kluitenberg@ foodforanalytics.com



Food For Analytics
Ericssonstraat 2
5121 ML Gilze-Rijen
The Netherlands
www.foodforanalytics.com

#### **Food For Analytics**

After being in the food industry for 20+ years, we experienced the struggle with data firsthand. There is so much data and many ways to use it. But it is extremely difficult to benefit from it every day.

That's why we founded Food For Analytics. The Data & Analytics company for the food industry.

With Food For Analytics our mission is to optimize the food industry by eliminating waste, optimizing business processes, and increasing sustainability through Data & Analytics. Our team has helped 50+ organizations in the food industry transform data into actionable insights.

With these new found actionable insights they were able to:

- · Increase OEE
- · Cut costs
- · Increase sustainability

#### That's a clear Win-Win!

Food For Analytics offers an all-in-one Data & Analytics platform that collects, connects, and visualizes all your data. Our platform is built on the rock-solid foundation of Microsoft Azure. Making it 100% secure and integrating seamlessly with your IT-landscape. Through our platform we provide food industry professionals with the tool-set they need to get the most out of their own data.

We work with businesses of all sizes, from small businesses to large multinational corporations. We are proud to be a part of their success stories.





Alexander Kraaijkamp Managing Director +31 6 1550 6929 kraaijkamp@ gpi-degouwe.com



Lex Kersing
Sales Manager
+31 6 8367 3510
l.kersing@
gpi-degouwe.com

#### **Gpi De Gouwe**

Gpi De Gouwe is a manufacturer of process equipment for the food and cosmetics industry. Our portfolio of products consists out of process equipment involving heating and cooling, mixing and blending and other process steps. Products we manufacture are, amongst others, cooking kettles, scraped surface heat exchangers, mix- and process tanks (with heating and/ or cooling) melting units for melting chocolate and butter/fat.

In addition we design and manufacture complete automatized process lines with a focus on heating and cooling, mixing and powder induction. Examples are production lines for soups, sauces, starch slurry, thickeners, chocolate, dairy, creams, peanut butter and other viscous products.

Gpi De Gouwe is looking to expend our business to France and we are looking for both end-users, integrators as well as an exclusive representative for the French market.



Gpi De Gouwe Goudkade 8 2802 AA Gouda The Netherlands www.gpi-degouwe.com







Laura Munoz **Business Development** Lead +31 6 1541 9704 laura.munoz@ greencovery.com

We upcycle valuable compounds from food industry's side-streams. Our innovative technology allows to upgrade natural source of ingredients and create a bridge between the source of side streams and the market for their application. With the implementation of our approach, our customers can reduce the environmental impact of the processes while producing sustainable products.



#### Greencovery

Nieuwe Kanaal 7D 6709 PA Wageningen The Netherlands www.greencovery.com

## heffels spiegeler advocaten avocats anwälte



Manuel Chapalain
Attorney-at-law (Associate)
+33 681 227 242
manuel.chapalain@
heffels-spiegeler.com

#### Heffels Spiegeler Advocaten

Heffels Spiegeler Attorneys-at-Law is an international law firm with expertise in the Netherlands, France and Germany. For 15 years, the history of Heffels Spiegeler Advocaten has been based on creativity, trust and professionalism. Between the small size and international influence, our firm was founded with the objective of offering individualized transnational legal services. Thanks to their international background and extensive knowledge of the local market, our lawyers develop an integrated vision of our client's needs to provide them with precise, comprehensive and perfectly adapted legal advice.

Heffels Spiegeler Attorneys-at-Law is competent in intellectual property law, business law, competition law, consumer law, art law, and sustainability (corporate social responsibility).



Heffels Spiegeler Advocaten Tournooiveld 4 2511 CX The Hague The Netherlands https://spiegeler.com/en





Iris van Ravenswaaij CEO +31 6 19046478 i.ravenswaaii@movexx.com

#### **Movexx International**

#### Movexx moves your work more easily

In a constantly changing world in which logistical applications are being given an increasingly prominent role within every organization, we offer smart and sustainable solutions for all your horizontal movements. We are the market leader in easy horizontal transport of goods and materials on wheels weighing up to six tons. This is done using our sustainable, efficient, and ergonomic smart electric tugs.

We ensure that people and logistics can perform optimally together in order to increase employee vitality while improving the efficiency of logistics processes at the same time.



#### Movexx International

Generatorstraat 17-19 3903 LH Veenendaal The Netherlands www.movexx.com





Marian Peters CEO +31 6 1802 1205 Marianpeters@ngn.co.nl



Tim Vlastuin
Food technologist
+31 6 1203 0562
Timvlastuin@ngn.co.nl



Nutrition
Deutersestraat 12
5223 GV 's-Hertogenbosch
The Netherlands
https://ngn.co.nl

**New Generation** 

#### **NGN Pro-active**

NGN is a social enterprise and a frontrunner in developing the insect sector in the Netherlands and African countries. Our core business is consultancy, training and network development surrounding innovations for insects as feed and food. Being a social enterprise means we support an economy that "works for everyone"- one which is circular and environmental conscious, inclusive and free of poverty. We do this by bringing science to practice working actively in training individual/group farmers to build sustainable businesses around insects.





Joost de la Court Editor +31 6 5138 1290 jdlcourt@nieuweoogst.nl

#### **Nieuwe Oogst/Agripers**

The Dutch national weekly Nieuwe Oogst is the largest agricultural medium dedicated to inform approximately 55.000 farmers and market gardeners in The Netherlands. It provides them with a broad range of information, on both technical and policy related subjects. Nieuwe Oogst serves as the member magazine of LTO Nederland, the Dutch union for agricultural entrepreneurs. It has a printed circulation of around 60.000.

Nieuwe Oogst is also a multichannel medium in digital formats and on several social media platforms. Its main website reaches a yearly rate of approximately 2.5 million pageviews. Other communication channels are online webinars, a YouTube-news channel and presence at several yearly agricultural exhibitions.

Nieuwe Oogst is the brandname of Agripers, a subsidiary of LTO Bedrijven BV, the commercial holding of LTO Nederland and has a workforce of around 45 employees.



## Agripers Agro Businesspark 1 6708 PV Wageningen The Netherlands www.nieuweoogst.nl





Martin Ham Business Development Manager +31 6 2141 3592 martin.ham@nizo.com

#### **NIZO**

NIZO's wide-ranging expertise as a Contract Research Organisation helps customers successfully address their food and health challenges: from managing the protein transition or delivering real health benefits to maintaining food safety and scaling up to industrial production. Through multidisciplinary teams and a unique pilot production plant, we bring all the expertise together to deliver cost and time-to-market savings. And we can provide support through the entire innovation process; from R&D to (pilot) production. For additional information, please visit: <a href="https://www.nizo.com">www.nizo.com</a>

NIZO food research Kernhemseweg 2 6718 ZB Ede

The Netherlands www.nizo.com





Erik van der Garde CEO +31 6 2298 5510 erik.vandergarde@ oceanz.eu

#### Oceanz 3D Printing

Oceanz is a professional 3D printing company, with expertise in the market, about the most relevant peers and professionals. With gained knowledge and concrete business cases, Oceanz has extensive experience in various industries. We continuously broaden our knowledge, search for novelties, and are not shy of looking for exceptional innovations and developments. Together with our customers, we develop and create 3D printed innovations that make the difference in every production process. The results: cost savings, failure cost reduction and increased production capacity.

As an innovator, Oceanz is the specialist and market leader in Additive Manufacturing in the Netherlands. You have the idea, a file or a requirement for product properties? We convert this for you into the right product with the right after-treatment. As manufacturer we are your reliable production partner.

#### Food Grade 3D Printing

For the food sector, it is more important than ever to be agile, to adapt processes, and to seize opportunities. The demand for smart industry is also increasing, with a growing role for 3D printing. Because only 3D printing materials that are intended for food contact and certified for food safety, are allowed for 3D printing of food applications. Oceanz offers the option of 3D printing through EC 1935/2004 certification.







#### Oceanz 3D Printing

Maxwellstraat 21 6716 BX Ede The Netherlands www.oceanz.eu





Lex Oosterveld
Program Manager Food
Processing
+31 6 1110 0376
lex.oosterveld@imec.nl

#### **OnePlanet Research Center**

OnePlanet Research Center is a multidisciplinary collaboration agreement between Wageningen University & Research, Radboud University, Radboudumc and nanotechnology world-player imec. OnePlanet uses the latest chip and digital technologies to create a society in which everyone can live a healthy life and has access to healthy and sustainable food.

OnePlanet combines specialisms from the fields of agriculture, food and health to turn dreams into feasible solutions that contribute to a more sustainable society. OnePlanet is committed to inspiring partnerships where companies, schools, universities, researchers, social institutions and citizens work together.

In the Smart Food Processing program OnePlanet Research Center focuses on development of inline sensing applications for real-time process control aiming to support the protein transition.



OnePlanet Research Center Bronland 10 6708 WH Wageningen The Netherlands www.oneplanetresearch.nl





Willemien van Asselt Director International Strategy and Relations +31 6 5252 3983 w.vanasselt@minlnv.nl

#### **Topsector Agri&Food**

Topsector Agri&Food is one of the 10 top sectors in which the Netherlands excels worldwide. The Top sector embodies the Dutch triple helix approach where Business, Universities, research centres, government and social organisations work together on national level, to develop and implement a 4 year knowledge and innovation agenda, a human capital agenda and the international cooperation strategy in order to strengthen this position and contribute to sustainable food systems in the Netherlands and abroad.

Topsector Agri&Food stimulates new knowledge and innovations, first and foremost by creating and financing PPP research and innovation projects.

This does not only include fundamental and applied research, but aims to promote the creation of field labs in different regions in the Netherlands, stimulate SME in performing R&D, facilitate knowledge transfer from our PPP projects to farmers and initiate international partnerships through a seed money facility. In international context – we actively promote and enhance PPP cooperation in the field of Climate smart and neutral agriculture, new proteins for food and feed, circular biobased economy, digitalisation and FoodTech.

#### Topsector Agri&Food Malietoren, Floor 11

2594 AV The Hague The Netherlands www.topsectoragrifood.nl



## Life Sciences & Health

Dovideq Medical Systems	59
Heffels Spiegeler Advocaten	60
NiceDay	61
Ryberg	62
Spectator Healthcare Technology	63
TechMed Centre	64
Vahlkamp International	65
WTC Twente	66

#### Index > Company profiles > Life Sciences & Health >





Evert Alink
Sales and Marketing
Director
+31 6 3890 2090
evert.alink@
dovidegmedical.com

#### **Dovideq Medical Systems**

Dovided develops automated testing systems, so hospitals can prove that their endoscopes are safe and fit for purpose.

Clinical validation done at the Hospices Civils de Lyon confirms that 80% of endoscope defects are not seen by humans. This causes delays and cancellations.

5% of operating theater delays are caused by defective rigid endoscopes. An active operating theatre costs € 90,- per minute. A delay caused by an endoscope is at least 10 minutes, which could have been prevented.

All of our testing systems are interconnected, which means that data streams to our cloud platform, where we can provide stakeholders with vital quality information, increasing traceability, predictability and lowering OR downtimes.

Dovideq saves an average hospital 3 full Operating Theatre days and 9 hours in productivity per unplanned endoscope repair.

Working with Dovideq creates extended lifespan of endoscopes, since our systems see defects earlier than any human can.

(source: UK NHS case and clinical studies).



#### Dovideq Medical Systems

Munsterstraat 18
7418 EV Deventer
The Netherlands
www.dovideqmedical.com

## heffels spiegeler advocaten avocats anwälte



Brigitte Spiegeler Attorney-at-law (partner) +31 6 2024 9426 brigitte.spiegeler@ heffels-spiegeler.com

#### Heffels Spiegeler Advocaten

Heffels Spiegeler Attorneys-at-Law is an international law firm with expertise in the Netherlands, France and Germany. For 15 years, the history of Heffels Spiegeler Advocaten has been based on creativity, trust and professionalism. Between the small size and international influence, our firm was founded with the objective of offering individualized transnational legal services. Thanks to their international background and extensive knowledge of the local market, our lawyers develop an integrated vision of our client's needs to provide them with precise, comprehensive and perfectly adapted legal advice.

Heffels Spiegeler Attorneys-at-Law is competent in intellectual property law, business law, competition law, consumer law, art law, and sustainability (corporate social responsibility).



Heffels Spiegeler Advocaten Tournooiveld 4

2511 CX The Hague The Netherlands https://spiegeler.com/en

### MICEDAY



Umar Nizamani Managing Director International +31 6 5747 7557 umar@nicedaytherapy.com

#### **NiceDay**

NiceDay is a digital workspace for therapists to provide effective and efficient care. Our evidence driven approach allows therapists to treat more effectively while giving clients all the tools they need to take control of their mental health. We are used extensively in the dutch public healthcare by thousands of therapists with tens of thousands of patients being treated through our service.

#### **Data Supported Treatment**

Periodic treatment sessions miss a lot of contextual information that happens between sessions and is pivotal to make treatment more effective. With data supported treatment, care professionals can use ecological momentary assessments (EMA) & interventions to provide feedback informed therapy. This makes digital care much more effective and efficient.

#### Clinically Validated

Built from the ground-up for data supported treatment, NiceDay is clinically validated to be equally effective as face to face treatment (N=10.249 patients) while being more efficient (8% less direct time of therapists) and helping patients recover faster (24% faster recovery). Clients using NiceDay rated their treatment with an average of 8.9/10 and spend on average 33 minutes a week outside of therapy sessions to work on their wellbeing.

NiceDay
Hofplein 20
3032 AC Rotterdam
The Netherlands
https://nicedaytherapy.com





Nikolaj van Veen CEO Co-Founder +31 6 1107 5001 nikolaj.vanveen@ryberg.nl

#### Ryberg

Ryberg is a leading Dutch technology and services company based in Delft, The Netherlands.

Named after Niels Ryberg, the nobel prize winning scientist who used concentrated light radiation to combat diseases, Ryberg develops unique AI and light-driven disinfection technologies that allow for fast, thorough and cost-effective disinfection of rooms, buildings and even cities.

#### Products and services:

- Anti-pathogen robots for hospitals and commercial buildings
- · Disinfection-as-a-service

#### **Unique IP**

Ryberg's AI-disinfection engine learns and optimizes it's disinfection routines, allowing for the collection of unique data - creating an enduring competitive advantage.

Ryberg
Molengraaffsingel 12
2629 JD Delft
The Netherlands
www.ryberg.nl





Amanda Touw
Marketing, Communication
& Business Development
+31 615 33 69 73
amanda.touw@
spectator-video.com

#### **Spectator Healthcare Technology**

Spectator Healthcare Technology is part of the Spectator Group of Companies, with more than 15 years of experience in the development and worldwide commercialisation of cutting-edge video control and service centre technology, for a wide variety of applications in Security, Healthcare and Communication.

Next to its main office in The Netherlands, Spectator is present with own offices and representations in 4 continents: Europe, Middle East / Eurasia, Latin America and Africa.

Based on long-term partnerships, Spectator collaborates with Security companies, Healthcare organisations and authorities for mission critical applications designed around the Spectator Communication Platform.

Spectator Healthcare Technology provides rapid deployable integrated Telehealth solutions worldwide, covering remote services in all healthcare stages of the Patient Journey.

The solution to achieve the necessary transformation in Global Healthcare and ecosystem, due to increasing aging in various continents, the often non-existent or insufficient infrastructure as well as disparities between certain populations from achieving well-being.

To enable Digitalization with Telehealth solutions and improve the direct access to care as well as equitability, affordability, and acceptability, the proven Spectator Telehealth Communication Platform ("SCP" platform) provides a multidisciplinary and interoperable digital solution for Prevention as well as remote Primary Care, Chronic Care and Elderly Care services.



Spectator Healthcare
Technology
Poststraat 1
6135 KR Sittard
The Netherlands
spectator-healthcare.com

63 Life Sciences & Health

## UNIVERSITY | TECHMED OF TWENTE. | CENTRE



Wander Kenter
Manager Business
Partnerships & Business
Development
+31 6 3832 2356
w.kenter@utwente.nl

#### **TechMed Centre**

The Technical Medical (TechMed) Centre is a leading Innovation Hub impacting healthcare by excellent Research, Innovation and Educational programs. It is equipped with state-of-the-art infrastructure, ranging from research labs, preclinical testbeds and simulated hospital environments. In our mission to impact society, we stimulate entrepreneurship and enable (new) companies to grow within our regional MedTech cluster, and collaborate with industry, hospitals, governments and insurance agencies on the development of new solutions for healthcare.





TechMed Centre

Drienerlolaan 5 7522 NB Enschede The Netherlands www.utwente.nl/en/techmed

#### Index > Company profiles > Life Sciences & Health >





Eric Jan de Munck Owner Director +31 646 287 386 ericdemunck@vahlkamp.nl

#### Vahlkamp International

Vahlkamp is manufacturer and developer of Nurse call alarm products as active and passive alarms. As can be seen on www.vahlkamp.nl.

Alarm products (nurse call triggers, callsensors) used in health care, geriatric care, psychiatric care and disabled care. The systems are used in institutions like hospitals, nursing homes, residential homes and organisations that offer extramural care

Vahlkamp looks for a reliable company or person who wants to create synergy with us for the French market of taking care of help needy people.

#### Vahlkamp International

A.Hofmanweg 5a 2031 BH Haarlem The Netherlands www.vahlkamp.nl





Freerk Faber CEO +31610037877 f.faber@wtctwente.eu

#### **WTC Twente**

The World Trade Center Twente in Hengelo (The Netherlands) is part of the World Trade Centers Association (WTCA) with HQ in New York; consisting of more than 300 establishments in 92 different countries. There are 10 World Trade Centers in France including WTC Lille, Metz, Paris and Rennes. The objective of the WTCA is promoting international trade. There are over 750.000 companies and institutions connected to the WTC organisation worldwide. World Trade Center Twente will focus on the exchange of knowledge and technology and to boost economic activity.

#### WTC Twente key services:

- Trade Information: matching of worldwide supply and demand with regional supply and demand (country analysis, partnersearch, etc.);
- · Group Trade Missions: inbound and outbound trade missions (medtech, agrifood, semicon, VR and energy);
- Office space and business services: renting of (virtual) offices, facilities, virtual office. We offer a special soft landing program for foreign companies;
- Trade Education: practical workshops, seminars and training of international business developments;
- · The WTC Business Club: meeting point for international businesses
- Expat Center: relocation services, connecting internationals, education and formalities.







**World Trade Center** Twente

Industrieplein 1 7553 LL Hengelo The Netherlands www.wtctwente.com



## **Partners**

Holland High Tech	68
RAI Automotive Industry NL	69
FME	70
Task Force Health Care (TFHC)	71

#### Index > Company profiles > Partners >

## Holland High Tech Global Challenges, Smart Solutions



Marc Hendrikse
Leader of the business
delegation
Chairman Holland High
Tech, Topsector High Tech
Systems and Materials
(HTSM)
+31 6 2393 3323
marc.hendrikse@
hollandhightech.nl

#### **Holland High Tech**

#### Holland High Tech - innovation that works

For the Netherlands, innovation is essential. We are working on smart technologies to address major societal challenges: Dutch solutions to global issues. Through innovation and with our unique knowledge, we as a country are acting to ensure security of work and income in the future.

Holland High Tech is the top sector for High Tech Systems and Materials. Businesses, knowledge institutions and government authorities collaborate intensively in innovation-focused public-private partnerships within our ecosystem.

#### Investing in innovation

Holland High Tech's ecosystem consists of 89,000 companies employing more than 500,000 professionals. Multinationals, SMEs, start-ups and scale-ups that together represent 165 billion euros in production value and over 70 billion euros in export value.

Holland High Tech's overall aim is to stimulate innovation, collaboration, internationalisation and economic growth. The approach adopted by Holland High Tech has already proven effective as a method for finding solutions and as an incubator for new applications of technology.

Teams of Holland High Tech experts develop (key) technologies in a framework of 15 road maps that offer structural solutions to challenges in the fields of climate, sustainability, health, safety and mobility.

#### Holland High Tech Winthontlaan 2 3526 KV Utrecht The Netherlands www.hollandhightech.nl







Albie van Buel
Trackleader Automotive
Managing Director
+31 629 810 398
a.v.buel@raivereniging.nl



Bram Hendrix
Trackleader Automotive
Program Manager Smart
Mobility & Internationalisation
+31 628 359 964
b.hendrix@raivereniging.nl



Jean Pierre Heijster Program Manager Manufacturing & Materials +31 622 471 986 j.heijster@raivereniging.nl

RAI Automotive Industry NL
Automotive Campus 30
5708 JZ Helmond
The Netherlands
www.rai-automotiveindustry.nl

#### **RAI Automotive Industry NL**

RAI Automotive Industry NL is the leading authority in Dutch automotive manufacturing and supply chain industry, focusing on global automotive and mobility solutions by joining forces with industry members and stakeholders and acting as a catalyst in the fields of innovation and education.

RAI Automotive Industry is a part of the RAI Vereniging and together represent the interests of the Dutch automotive industry on a national and an international level.

#### Our ambition

Cluster organization RAI Automotive Industry NL facilitates a network of companies, active in the Dutch Automotive Industry, that maintain and strengthen their international innovative lead through mutual cooperation and collaboration with government and knowledge institutions.

According to the Global Innovation Index (PwC), the Automotive Disruption Radar (Roland Berger), and the Autonomous Vehicles Readiness Index (KPMG), the Netherlands is one of the most innovative countries in the world.

In addition, making a social contribution plays an important role and therefore all activities are aimed at realizing the following ambitions:

- · Zero emission
- · Zero congestion
- Zero accidents

#### Index > Company profiles > Partners >





Maureen de Haan Trackleader Foodtech International Business Development Manager +31 6 2733 1652 maureen.de.haan@fme.nl

#### **FME**

FME is the entrepreneurial organization for the technology industry in the Netherlands. Our 2,200 members are techno starters, trading companies, medium and small industry and large industry / multinationals active in the metal, electronics, electrical engineering and plastics sectors. The combined turnover of the FME members is 108 billion and they export for 54 billion. Our members have 220,000 employees.

Our mission is to mobilize and connect the technology industry and society for every issue or challenge to which technology is the answer. We are aiming for a future-proof world, with wellness and prosperity, in which everyone participates. As the largest network organization within the technology industry, we build sustainable relationships, connect and mobilize our member companies to join forces, innovate and expand. We are doing this at the national, regional and international levels. The transition towards a future proof agriculture & food system is one of our focus areas.

FME
Zilverstraat 69
2700 AD Zoetermeer
The Netherlands
www.fme.nl

#### Index > Company profiles > Partners >





Micha van Lin Trackleader Life Sciences & Health Director +31 6 2436 1595 micha.vanlin@tfhc.nl



Lotte Hendriks
Project Manager
+31 6 8206 3608
lotte.hendriks@tfhc.nl

#### Task Force Health Care (TFHC)

Task Force Health Care (TFHC) has been the platform organization for the Dutch Life Sciences & Health (LSH) sector since 1996. It is the first point of call for anyone seeking Dutch LSH expertise. Our not-for-profit platform supports Dutch companies, NGOs, knowledge institutions, healthcare providers & governments to realize and strengthen their international ambitions in the LSH sector. These partners provide innovative and sustainable solutions to global (and local) healthcare challenges and are active all over the world. In the last decade we visited and maintained relationships with more than 30 countries and created a sustainable & special focus on: Africa, Asia, Europe, Latin America, North America and the Middle East. With a combination of physical and digital events, we are able to connect the Dutch LSH sector with the rest of the world with the goal of improving healthcare together.

TFHC and its partners are looking forward to broadening and strengthening their network within the northern French region of Hauts-de-France and to creating long-lasting partnerships to help improve today's and tomorrow's healthcare challenges!



Task Force Health Care
Prinses Margrietplantsoen 81
2595 BR The Hague
The Netherlands
www.tfhc.nl

## Official delegation & contact details

Ministry of Foreign Affairs

Ministry of Economic Affairs and Climate Policy | Netherlands Enterprise Agency

Embassy of the Kingdom of the Netherlands in France

## Official delegation

#### Index > Company profiles > Delegation & contact >

Ministry of Foreign Affairs PO Box 20061 2500 EB The Hague The Netherlands www.government.nl/ ministries/bz



Liesje Schreinemacher Minister for Foreign Trade and **Development Cooperation** 





**Hester Stoker** Private Secretary to the minister +31646949450 hester.stoker@minbuza.nl



Chris Bakker Spokesperson +3170 348 6601 chris.bakker@minbuza.nl



Wampie Libon Director International Enterprise Department +31703487115 dio@minbuza.nl



**Christien Aben** Senior Policy Officer International Enterprise Department +316 5337 3442 christien.aben@minbuza.nl

## **Official** delegation

#### Index > Company profiles > Delegation & contact >

Ministry of Economic Affairs and Climate Policy I **Netherlands Enterprise** Agency

PO Box 93144 NL-2509 AC The Hague The Netherlands https://english.rvo.nl



Tjerk Opmeer Director International Programs +31 6 4615 2319 tjerk.opmeer@rvo.nl





Karin Schipper Project Manager Economic Missions +31 6 2508 3552 karin.schipper@rvo.nl

## Contact details

#### Index > Company profiles > Delegation & contact >

Embassy of the Kingdom of the Netherlands in France 7 rue Éblé 75007 Paris France par-ea@minbuza.nl www.netherlandsworldwide.nl



Jan Versteeg Ambassador +33140623321 par-cdp@minbuza.nl





Michael Pistecky Head of the Economic Section +33 6 8504 0864 michael.pistecky@minbuza.nl



Stefan Koreneef Counselor for Innovation, Science & Technology +33 6 7523 7302 stefan.koreneef@minbuza.nl



Mariëtte van Empel Counselor for the Environment and Transport +33 6 7802 7603 mariette-van.empel@minbuza.nl



Martijn Weijtens Agricultural Counselor +33 6 3046 8157 mjbm.weijtens@minbuza.nl

## Contact details

#### Index > Company profiles > Delegation & contact >

Embassy of the Kingdom of the Netherlands in France 7 rue Éblé 75007 Paris France par-ea@minbuza.nl www.netherlandsworldwide.nl



Adriana Voerman Track-coordinator Automotive Senior Project Officer Economic Section +33 6 4266 2904 adriana.voerman@minbuza.nl





Annelies Dijkema Track-coordinator FoodTech Agricultural Advisor +33 6 0862 3497 annelies.dijkema@minbuza.nl



Esther Hogenhout Track-coordinator LSH Innovation Officer +33 6 3781 6620 esther.hogenhout@minbuza.nl



Joannette Polo Senior Innovation Advisor +33 6 8783 3997 joannette.polo@minbuza.nl



**Damien Wolters** Senior Project Officer Economic Section +33 7 8656 4669 damien.wolters@minbuza.nl

## Contact details

Embassy of the Kingdom of the Netherlands in France 7 rue Éblé 75007 Paris France par-ea@minbuza.nl www.netherlandsworldwide.nl



Alexandre Picque Policy Officer for Social and Economic Affairs +33 6 3437 5818 alexandre.picque@minbuza.nl





Cleo Zwiers Coordinator Logistics +33 6 4705 2508 cleo.zwiers@minbuza.nl



**Berend Sommer** Spokesperson +33 6 3258 3883 berend.sommer@minbuza.nl

Netherlands Enterprise Agency The Hague, the Netherlands nlbranding@rvo.nl

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