

Meet the Dutch Delegation

Innovation  
Mission  
Hauts-de-  
France region  
Automotive  
Industry

14 - 16 September 2022



Netherlands

## Delegation

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## Automotive Campus

**The Dutch automotive and mobility hotspot, where business and knowledge come together in a spirit of open innovation.**

The Automotive 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.

Various automotive companies (from start-up to OEM), research institutes and education and governmental organizations have already found their way to the Automotive Campus.



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Battery Competence Cluster - NL

### The platform for the Dutch battery ecosystem.

To leverage and accelerate the opportunities provided by battery technology and the energy transition, the Netherlands have joined forces in a national platform called the Battery Competence Center. Within this platform the industry, knowledge institutes and public stakeholders are collaborating and jointly committed to developing a strong battery ecosystem. The BCC is also the platform representing the Dutch battery ecosystem and access-point for international organizations to build relationships with the Dutch ecosystem.

The Battery Competence Center is the innovation program for companies, knowledge institutes and organizations that want to work together to acquire knowledge and develop skills in the field of battery technology.

The Dutch ecosystem is characterized by a strong focus on developing battery systems for heavy-duty mobility with OEMs as DAF Trucks, VDL Bus & Coach, Damen Shipyards and many more. Additionally we build on a strong history in electronics and semiconductors to make new and sustainable cell components and production processes, such as spatial atomics layer deposition. Leading startups as DelftIMP, LeydenJar, E-Magy and LionVolt are committed to develop improved next generation battery cells.

As the BCC we aim to develop the relationships and collaborations with other European players, to create a more sustainable and independent European value chain.

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dcypher

**Creating a European value chain for cyber secure innovation in automotive.**

dcypher is the collaboration platform for research and development on cyber security in the Netherlands. We facilitate companies, knowledge institutes and governments that want to work together to make the Netherlands digitally safer, stronger and more autonomous.

Instead of seeing cybersecurity as a separate sector, we see it as a key technology in other application sectors (like automotive), needed to make them thrive. For example, a fuel efficient smart vehicle only works effectively with efficient and secure communications with roadside infrastructure; for this we need emerging technologies like post-quantum algorithms that protect data integrity, but also integrators that can maximize computing efficiency. dcypher focuses on linking up this entire value chain, from original ideation to eventual implementation through roadmaps, field labs, and catalyst projects.

To harness the EU's internal market opportunities as well as fortify ourselves as an globally standard-setter and complete player next to Silicon Valley, these value chains will need to run across Europe, offering specialization in national niches and leveraging their relative strengths. Consequently, we are now building European coalitions around the application of our technical focus areas (cryptography and automated security) in two sectors; automotive and energy.

In partnership with TNO and the Ministry of Economic Affairs & Climate Policy, dcypher is setting up a field lab, aimed at being a catalyst for the dcypher roadmaps.

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## Delft IMP

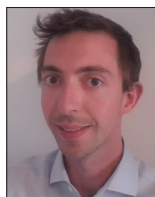
### Doing more with less - nanocoating battery materials for longer life.

Enhancing materials to improve performance, lower cost and make them more sustainable. Delft IMP's unique, continuous and scalable process applies ultra thin coatings or high precision dopants to powder surfaces.

In batteries our technology can be applied to next generation cathode and anode active materials to improve stability and extend cycle life. Furthermore, by keeping tighter control of the thickness of the coating we enable our customers to reduce waste, save money and contribute to a more sustainable planet. We also have solutions for fuel cells and electrolyzers.



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Hogeschool Rotterdam

To coach and educate young professionals to contribute to society.

Educational institute for a variety of courses higher vocational level.



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## Holst Centre

### Research & Development Organisation Bridging Science and Practice.

Holst Centre is a research and innovation partner specialised in health and energy technologies powered by the shared expertise of imec and TNO.

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

Holst Centre is located at the High Tech Campus in Eindhoven, with 150 high-tech companies and institutes, and more than 10,000 employees from 85 nations. Our partners benefit from an extensive network of knowledge, know-how and facilities, including lab spaces and cleanrooms.



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Kalpana Systems B.V.

### High-volume roll-to-roll spatial ALD.

Kalpana Systems is proud to announce a new S-ALD technology with a superior throughput and up-time. Our superspatial precursor separation technology increases deposition rates to a regime where a trade-off between high precursor utilization and deposition rate is avoided.

Together with the low process temperatures and atmospheric pressures used, this makes our s-ALD equipment economically attractive, while giving it a low environmental footprint.

Among thin-film coating technologies, Atomic Layer Deposition is the one that delivers superior coating conformality and layer homogeneity. It opens the possibility to tune each layer of a broad range of products to exactly the right thickness and optimal properties.

High-volume roll-to-roll ALD is now available to improve manufacturing in the battery industries.



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SALD bv

**Spatial Atomic Layer Deposition (Spatial ALD) is a form-following coating at the atomic level, improving battery performance.**

We are SALD. Spatial Atomic Layer Deposition (Spatial ALD) is a form-following high-quality coating at the atomic level. Compared with conventional ALD, this ingenious technology stacks atomic layers many times faster. Maximum throughput at the lowest possible costs, improved functionality, efficiency and sustainability, material reduction, and longer life span are some of the added values Spatial ALD brings.

Our in-depth expertise in Spatial ALD technology, combined with the unique ability to transfer it fast from lab to high-volume production, offers you excellent opportunities in today's growth markets.

Stay ahead of the competition. Let's explore, develop and integrate together!



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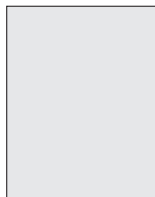
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Sekisui Europe B.V.

## Innovation for the earth.

SEKISUI EUROPE is the European HQ of SEKISUI Chemical a Japanese Company. At Automotive Campus in Helmond, we SEKISUI set up Design Studio for advanced research and new concept creation for smart mobility, gathering new technology with many partners such as start-ups, schools, institutes, etc. We are all welcome for any interest to join us.

One of the biggest chemical manufacturer in Japan. Businesses are residential housing, general industrial, construction, electronics and transportation. Awarding Global 100 sustainable corporations in the world for 5 consecutive years from 2018.



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Sorama B.V.

Sorama makes sound insightful with state of the art acoustic camera's for R&D, OEM, smart cities and smart industry.

Sorama is a deep-tech scale-up from the Brainport region in Eindhoven, the Netherlands, specialized in enabling and creating valuable insights from sound measurements. Their ground-breaking acoustic cameras are globally used within OEM and R&D acoustic design departments, noise reduction and smart environments as well as within smart city and smart stadium applications.



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TNO

**TNO connects people and knowledge to create innovations that boost the competitive strength of industry sustainably.**

TNO (The Netherlands Organisation for Applied Scientific Research) is an independent and not for profit research organization, the largest applied research organization in the Netherlands.

Within the unit Traffic & Transport, TNO Automotive 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. TNO's Powertrain Test Center facilitates performance assessment and validation of sustainable and hybrid technologies. TNO Circular Economy and Environment unit is conducting independent research into circular electronics in order to recover strategic metals from waste streams such as batteries, solar panels and circuit boards.

We are developing new recycling processes to recover metals: from mechanical pre-treatment to chemical hydrometallurgical processes to produce high grade raw materials. We aim high: we do not improve existing processes step by step, but look at the system as a whole and then we start at the basis with ambitious boundary conditions in order to develop new standards for recycling of waste products.

At TNO we have all required facilities for technology development as well as the knowledge to perform system analyses and Life Cycle Assessments. Close collaboration with other TNO units provide insights in future product technologies, resulting in a complete picture required for the development of future proof recycling technologies.

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TNO - innovation for life - Envision it | TNO

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## TU Eindhoven

We educate students and advance knowledge in science & technology for the benefit of humanity

Eindhoven University of Technology is a young university, founded in 1956 by industry, local government and academia. Today, their spirit of collaboration is still at the heart of the university community. We foster an open culture where everyone feels free to exchange ideas and take initiatives.



**Margriet van Schijndel**  
Program Director  
Responsible Mobility

Eindhoven University of Technology offers academic education that is driven by fundamental and applied research. Our educational philosophy is based on personal attention and room for individual ambitions and talents. Our research meets the highest international standards of quality. We push the limits of science, which puts us at the forefront of rapidly emerging areas of research.

Eindhoven University of Technology combines scientific curiosity with a hands-on mentality. Fundamental knowledge enables us to design solutions for the highly complex problems of today and tomorrow. We understand things by making them and we make things by understanding them.

Our campus is in the centre of one of the most powerful technology hubs in the world: Brainport Eindhoven. Globally, we stand out when it comes to collaborating with advanced industries. Together with other institutions, we form a thriving ecosystem with one common aim – to improve quality of life through sustainable innovations.

Our Mobility program is centred around smart mobility, sustainability, user focus, HMI, multi-modality. We have 5 main program lines:  
M-1 Vision, perception and actuation for safe automated driving.  
M-2 High definition maps, positioning and world modelling for automated driving  
M-3 Effective and easy-to-use multi-modal mobility systems  
M-4 Environmental footprint minimization of the transport system  
M-5 Smart charging and smart energy usage

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# Organization



Kingdom of the Netherlands



Embassy of the Kingdom of the Netherlands  
Netherlands Innovation Network France

The economic cluster of the **Embassy of the Kingdom of the Netherlands** in Paris can help you with your trade and innovation ambitions in France. Together with the Netherlands Enterprise Agency (RVO) and the Netherlands Business Support Offices (NBSO) in Nantes and Lyon, we aim to create opportunities for Dutch companies and knowledge institutions by strengthening international economic relations.

The **Netherlands Innovation Network** helps to implement the international knowledge and innovation agenda of the Dutch government. We regularly organize webinars, seminars, innovation missions, and networking moments around promising themes such as high tech systems & materials, energy transition, circular economy, digitization, etc. By participating in one of our collective actions, you can explore new (sub) markets and innovation collaboration opportunities in France.

The Innovation team and the Counselor for Environment and Transport look forward to meeting you in Toulouse to explore the opportunity to become (further) involved in sustainable innovation partnerships in the field of sustainable aviation, addressing national and global challenges together.

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Netherlands Enterprise Agency

**Netherlands Enterprise Agency**  
**International Innovation department**  
(Rijksdienst voor Ondernemend Nederland, RVO)

The Netherlands Enterprise Agency is the executive agency of the Dutch Ministry of Economic Affairs. The Agency promotes sustainable development and innovation, both within the Netherlands and abroad. The aim is to improve opportunities for entrepreneurs and strengthen their position, nationally and internationally.

Through the Netherlands Enterprise Agency both national and foreign organizations may gain access to a broad Dutch network of knowledge institutes, research centers, trade associations, companies and government departments. The agency participates in numerous international platforms and counselling groups. It helps with finding grants, business partners, know-how and compliance with laws and regulations.

You can contact us for information, advice, financing issues, networking and regulatory matters, whether you are entrepreneur, representing a knowledge institute or work for a government body.



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## **RAI Automotive Industry NL**

### **Cluster organization of the Dutch Automotive Industry.**

RAI Automotive Industry NL is the cluster organisation of the Dutch automotive industry, mobility sector and automotive education and has about 200 members.

RAI Automotive Industry NL's mission is to initiate and implement numerous activities to strengthen the Dutch automotive sector, focusing in particular on innovation, education/training, internationalisation, knowledge gathering and networking. RAI Automotive Industry NL is based at the Automotive Campus in Helmond.



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