Netherlands Innovation Mission to Silicon Valley, CA

24 - 28 March 2019

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The Netherlands

Organization Profiles

Official Delegation

Foreword

It is with great pleasure that I will be leading the innovation mission to Silicon Valley. I am particularly proud to be accompanied by a wide range of enthusiastic companies and knowledge institutions with expertise in artificial intelligence, blockchain and robotics. These sectors are the future of automation and deliver digital innovations for sustainable economic growth.

Silicon Valley is home to the world's most influential businesses and successful startups and innovative industries. With its pioneering mentality, high concentration of talent, and favorable investment climate, the region offers many opportunities for international firms and academic networks. In this light, the Netherlands makes a worthy partner as the world's second most innovative economy. Furthermore, with a fruitful ecosystem for both established companies and startups, the economies of the Netherlands and Silicon Valley share common policies and interests. These shared features will be highlighted and explored during the working visits, seminars, and the joint session with the WEF Center for the Fourth Industrial Revolution.

The fast developments in technology are increasingly accompanied by challenges that touch our daily lives. These challenges call for inclusive solutions. By fostering meaningful discussion, this mission enables parties to learn from each other and come up with concrete policy ideas that help make global innovation and trade more inclusive.

This week, we will launch *Holland in the Valley*, a network of Dutch and American businesses, academia, and government. With this platform, we will energize tomorrow's talent and innovation. I am convinced this mission will open doors to the future and strengthen the relationship between Silicon Valley and the Netherlands as well. This will not only keep our economies competitive, but also nurture inventive and inclusive solutions to the challenges we face in our globalized world.

Sigrid Kaag
Minister for Foreign Trade and Development Cooperation

Foreword

The Netherlands has been an innovation nation for more than 800 years, going back to our first attempts to create farmland out of marshes using windmills to drain the water. Ever since, Dutch innovations have improved our quality of life and saved time and money.

Dutch technology brings solutions to the global challenges we face. And that's a good match with Silicon Valley, where innovation and global challenges go hand in hand. The latest focus is on artificial intelligence, robotics, and blockchain, all of which are becoming more interesting for businesses and research institutes.

Dutch companies are also starting to see the advantages of applying this type of data-driven automation, especially in logistics and industry. The City of Amsterdam is working towards becoming an AI Capital, robotics clusters are popping up, and the manufacturing sector across the Netherlands is actively involved. In October, the industry presented its recommendations for an Artificial Intelligence Strategy, and the Dutch government is working on a national Strategic AI Action Plan. The Netherlands wants to play a prominent role in global developments in this field.

The Netherlands is a trendsetter when it comes to blockchain too. With the start of the Dutch Blockchain Coalition, banks, industries, research institutes, and the government have started working on strategies and the application on, for instance, supply chains and logistics.

This innovation mission focuses on the future of automation and digital innovations for sustainable economic growth. All participating companies contribute to finding solutions for global challenges, whether from an AI, robotics, or a blockchain angle.
We wish you all the best this week, and look forward to hearing your stories and observations.

Lastly: on Monday 25 March we are proud to launch *Holland in the Valley* in the presence of Minister Kaag – a program aimed at solidifying the network between the Netherlands and Silicon Valley.

Henne Schuwer
Ambassador of the Kingdom of the Netherlands to the United States

Gerbert Kunst
Consul General of the Netherlands in San Francisco

The Netherlands

The Netherlands

Locations

1. Amsterdam (and Airport Schiphol) | **2.** Arnhem
3. Assen | **4.** Breda | **5.** Den Bosch | **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

Creating resilient and sustainable solutions for local challenges

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.

The Netherlands
Your partner in sustainable solutions

Worldwide ranking

1st Best performing European Healthcare system (Euro Health Consumer Index, 2017)

1st Production and auctioning of cut flowers and flower bulbs

1st World's largest flower exporter

2nd Number of patent applications per million inhabitants in the world (WIPO, 2016)

2nd Best at Global Innovation Index (GII, 2018)

2nd Largest exporter of agricultural products in the world (WTO, 2017)

4th At WEF's ranking of most competitive economies in the world

4th At RISE's global energy policy ranking

5th Largest exporter of goods in the world (652 billion US dollars)

5th Greatest place to live (World Happiness report, 2017)

6th At World Bank's Logistics Performance Index

7th Largest foreign investor in the world (1,256 billion US dollars)

7th 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
- **Form of government** Constitutional monarchy, parliamentary democracy
- **Head of State** His Majesty King Willem-Alexander, King of the Netherlands, Prince of Orange-Nassau
- **Capital** Amsterdam
- **Seat of government** The Hague
- **Administrative structure** Twelve provinces and the overseas territories of Aruba and Curaçao and St. Martin. The overseas islands of Bonaire, Saba and St. Eustatius, all three of which are situated in the Caribbean, are 'special municipalities of the Netherlands'
- **Surface area** 33.800 km2
- **Location** Western Europe, by the North Sea, bordering Belgium and Germany
- **Number of inhabitants** 17.2 million (July 2018)
- **Number of inhabitants per km2** 509 (July 2018)
- **Currency** Euro
- **Languages** Dutch and Frisian (On the overseas islands also English and Papiaments)
- **GDP per capita** 42,926 euros (FocusEconomics, 2017)
- **33% of Dutch GDP** is derived internationally
- **1.3 bicycles** for each person in the Netherlands
- **Unemployment rate** 5,4% (average 2007-2018)
- **Moderate inflation** 1.6% (average 2007-2018)
- **90% of all Dutch people** speak English

Organization Profiles

Artificial Intelligence, Robotics and Blockchain

ABN AMRO

Edwin van Bommel
Chief Innovation Officer

Fleur Boos
Head of TCF Services

ABN AMRO serves clients in the retail, private banking and corporate banking sectors. Our primary focus is on Northwest Europe. We offer clients in the Netherlands an extensive and comprehensive range of products and services across a variety of channels, including our Mobile Banking app and Internet Banking.

Our products and services affect millions of lives, and we are always looking for ways to make things better. Whether by advancing the transition to a circular or sustainable economy, or by helping newcomers on the housing market to borrow the funds they need: we are helping to build a better future. Banking for better, for generations to come: that is our purpose.

Our strategy requires a culture of working together and permanent learning. It's only with this mindset that we unleash the best in ourselves to deliver a high standard of performance. ABN AMRO's culture is the catalyst for the evolution in which we find ourselves: our people are imaginative, trust each other and do just that little bit extra to help clients.

ABN AMRO
Gustav Mahlerlaan 10
NL-1082 PP Amsterdam
www.abnamro.com

E: edwin.van.bommel@
nl.abnamro.com
M: +31 651 166 416

E: Fleur.boos@nl.abnamro.com
M: +31 653 541 978

Ahold Delhaize

Bart Voorn
Lead AI for Retail Lab

Ahold Delhaize is one of the world's largest food retail groups, a leader in supermarkets and e-commerce, and a company at the forefront of sustainable retailing. Our family of great local brands serves more than 50 million shoppers each week in the United States, Europe and Indonesia. Each brand shares a passion for delivering great food, value and innovations, and for creating inclusive workplaces that provide rewarding professional opportunities. Our brands have also established meaningful, lasting commitments to strengthen local communities, source responsibly and help customers make healthier choices.

Ahold Delhaize was formed in July 2016 from the merger of Ahold and Delhaize Group, retail innovators for almost 150 years. Our local brands employ around 370,000 associates in 6,700 local grocery, small format and specialty stores.

Ahold Delhaize brands are dedicated to helping customers shop anytime, anywhere and anyhow. In addition to our stores, our brands include the top online retailer in the Benelux and the number one online grocers in the Benelux and the United States. Our local brands are also among the most prominent providers of fresh food and locally tailored own-brand products, including a diverse selection of affordable natural and organic goods.

Ahold Delhaize's international headquarters is in Zaandam, the Netherlands. Our brands are active in Belgium, the Czech Republic, Germany, Greece, Luxembourg, the Netherlands, Romania, Serbia and the United States and we participate in joint ventures in Indonesia and Portugal. Ahold Delhaize shares are listed on Euronext Amsterdam and Brussels (ticker: AD) and our American Depositary Receipts trade over-the-counter on OTCQX International (ticker: ADRNY).

Ahold Delhaize
Provincialeweg 11
NL-1506 MA Zaandam
www.aholddelhaize.com

E: bart.voorn@
aholddelhaize.com
M: +31 651 911 749

ASML Netherlands

ASML

ASML is one of the world's leading manufacturers of chip-making equipment. Our vision is a world in which semiconductor technology is everywhere and helps to tackle society's toughest challenges. We contribute to this goal by creating products and services that let chipmakers define the patterns that integrated circuits are made of. We continuously raise the capabilities of our products, enabling our customers to increase the value and reduce the cost of chips. By helping to make chips cheaper and more powerful, we help to make semiconductor technology more attractive for a larger range of products and services, which in turn enables progress in fields such as healthcare, energy, mobility and entertainment.

ASML is a multinational company with offices in more than 60 locations in 16 countries. We're headquartered in Veldhoven, the Netherlands, amid a thriving ecosystem of other high-tech companies that have turned the region into Europe's top tech hub. Additional R&D and manufacturing sites are located in the United States (in Wilton, Connecticut; the California tech hub of Silicon Valley and San Diego) as well as Shenzen (China), Taiwan and South Korea. We also maintain customer support offices near every major manufacturing site of our customers. We employ more than 23,000 people.

More information about ASML, our products and technology is available on www.asml.com.

Robert Jan van Wijk
Group Lead AD DE OPP Data Science & Control Algorithms

ASML Netherlands
De Run 6501
NL-5504 DR Veldhoven
www.asml.com

E: robert-jan.van.wijk@asml.com
M: +31 612 991 888

CWI

Leader of the Delegation

Lynda Hardman
Manager Research & Strategy CWI
Director Amsterdam Data Science

CWI
Founded in 1946, Centrum Wiskunde & Informatica (CWI) is the Dutch national research institute for mathematics and computer science. At CWI, over 150 researchers conduct pioneering research, of which more than 30 are appointed as full university professors. The institute has generated 25 spin-off companies.

CWI has built a track-record in AI research over the last few decades. Working both from computer science and mathematical perspectives, AI research at CWI includes learning, symbolic and agent approaches. Our AI results in data infrastructures, analysis methods and visualisations can be applied in a wide range of domains, from autonomous systems and smart energy to medical informatics and logistics.

CWI is located in Amsterdam and is part of the Institutes Organization of NWO (NWO-I), the Dutch national science foundation.

Amsterdam Data Science
The mission of Amsterdam Data Science (ADS) is to enable our partners develop world-class data science and AI research, technology and talent within the Amsterdam region.

We have developed an ecosystem through the organisation of events and networking opportunities resulting in strong connections across the academic-industrial divide. Partners include internationally acclaimed research organisations and companies at the forefront of data science and AI innovation. Through the Amsterdam School of Data Science, our globally recognised academic partners provide a wide range of data science and AI courses. This helps to ensure a pipeline of well-trained, highly talented data scientists and AI experts.
ADS provides a platform for collaboration and encourages partners to share their data challenges and work together on constructing and creating innovative solutions.

Profile of Commercial Contacts Wanted:
Interested in companies looking to invest in research & innovation partnerships in the Netherlands.

CWI
Amsterdam Data Science
Science Park 123
NL-1098 XG Amsterdam
PO Box 94079
NL-1090 GB Amsterdam
P: +31 205 929 333
E: info@
amsterdamdatascience.nl
www.amsterdamdatascience.nl

E: Lynda.Hardman@cwi.nl
M: +31 616 820 047

Dutch Blockchain Coalition

Marloes Pomp
Program Manager Blockchain
Projects Dutch Government &
International Strategy

The Dutch Blockchain Coalition originated from a unique collaboration between industry, government and education, also known as the 'triple helix'. Together they have assumed a leading role and joint responsibility for the success of the Action Agenda of the Dutch Blockchain Coalition.

The mission of the Dutch Blockchain Coalition is to realise fully reliable and socially accepted Blockchain applications, to create the best possible conditions to allow Blockchain applications to arise, and to facilitate the use of Blockchain as a source of trust, well-being, prosperity and security for citizens, companies, institutions and government bodies. The Dutch Blockchain Coalition mainly acts as a catalyst and facilitator in this process and activates its large public-private network for this purpose.

For the Netherlands it is important to look at all kinds of new technologies, not only blockchain. However, the Netherlands is in an excellent position to capitalize on the economic and social opportunities created by digitalization. We have a world-class digital infrastructure, Wi-Fi and Bluetooth were invented in the Netherlands, and the AMS-IX, one of the most important internet exchange points in the world, is located in our country.

The Netherlands has a highly educated workforce at an international level and Dutch consumers often lead the way in embracing new digital applications. Moreover, we have a long tradition of cooperation between companies, scientists, and governments. This has contributed to the emergence of innovative clusters all over the Netherlands.

Dutch Blockchain Coalition
Van der Burghweg 1
NL-2628 CS Delft
www.dutchblockchaincoalition.org

E: marloes@
blockchainprojects.nl
M: +31 610 810 308

Eindhoven University of Technology

Jesse Scholtes
Program Manager Robotics

Eindhoven University of Technology (TU/e) is a Dutch top university that offers academic education that is driven by fundamental and applied research. Home to about 12.000 students and 2000 faculty staff, TU/e takes responsibility in tackling major societal challenges in health, energy and mobility.

Its campus is located in one of the most powerful technology hubs in the world: the Brainport Eindhoven region, a major innovation system for the likes of Philips, ASML and NXP. Internationally TU/e ranks no. 1 in industry research cooperation (CWTS Leiden Ranking 2018) and stands out in the pro-active development of the Eindhoven eco-system together with industry and government.

Robotics
Our university is home to a multi-disciplinary group of robotics researchers that not only focusses on core robotics technologies like Control Systems Technology, Perception Systems, Electronics, Software and Mechanical Design, but also investigates its impact on society and towards human acceptable design and behavior. As a university we strive to ground fundamental research in real-world cases like:

- autonomous drone technology for pixel farming
- performant behavior in unstructured (human) environments for mobile systems (AGVs)
- deep learning methodologies for highly automated driving
- mechatronic system design to enable microsurgery
- automated crop harvesting in green-houses
- Social aware robots that help to improve the quality of life for people that suffer from dementia.

Spin-off
In the past 10 years, the university produced 6 robotics spin-off companies: Preceyes, MicroSure, Eindhoven Medical Robotics, Smart Robotics, RUVU and AIM. It also has a number of very successful student teams that develop robotics technologies for participation in international competitions like RoboCup@Home, RoboCup soccer (4 times world champion), Formula Student and the World Solar Challenge (3 times winner).

Eindhoven University of Technology
De Zaale
PO Box 513
NL-5600 MB Eindhoven
P: +31 402 478 832
E: htsc@tue.nl
www.tue.nl

E: j.scholtes@tue.nl
M: +31 610 334 175

FME

Jelmer Alberts
Member of the Management Team
Leader of FME's AI Platform

FME is the Dutch employers' organisation for the technology industry. The 2,200 affiliated companies include technology start-ups, trading companies, small and medium-sized industrial enterprises as well as large (multinational) industrial conglomerates. Our members are active in the fields of manufacturing, trade automation and maintenance in the metal, electronics, electrical engineering and plastics sectors. FME members employ a total of 220,000 people, have a combined turnover of € 91 billion and their exports total € 49 billion. FME members therefore account for one-sixth of all Dutch exports. FME has partnerships with 45 affiliated trade associations. FME mobilises and connects partners in the technology industry to meet the big challenges society faces, both today and in the future. In doing so, we increase our members' individual and collective earning power.

By the end of 2018, FME initiated its AI Platform that consists of FME member companies. Main objectives: to accelerate the application of AI-solutions within the technology industry; and to promote the possibilities and opportunities that AI provides.

Key figures
- 2,200 member companies, employing 220,000 employees in total
- Yearly turnover totalling € 91 billion
- Direct export totalling € 49 billion
- 181 employees at FME
- Support to 45 trade associations

FME
Zilverstraat 69
NL-2718 RP Zoetermeer
PO Box 190
NL-2700 AD Zoetermeer
P: +31 793 531 100
www.fme.nl

E: jelmer.alberts@fme.nl
M: +31 621 518 574

HAL24K
Data Intelligence Labs

Peter den Hartog
Co-founder Chief Science Officer

HAL24K

HAL24K is a Data Intelligence scale-up based in San Francisco, Amsterdam and London, delivering operational and predictive intelligence to cities, countries and companies.

HAL24K believes that smart infrastructure is critical to tackle major global challenges caused by water-level rising and urbanization. Real-time data streams from road networks, water systems, harbors, airports, factories, installations and logistics have created the need for smart machine learning systems capable of transforming data into actionable intelligence. This is essential to make infrastructure smart and future-proof.

With a focus on the domains water, mobility and assets, HAL24K data scientists build artificial intelligence solutions that solve complex problems for clients and help them optimize resources, avoid disruptions and save costs.

All solutions are built and deployed on HAL24K's end-to-end SaaS platform, Dimension, which brings all the components of powerful data science into one platform. Every step is incorporated. From data ingestion and processing, to modelling data and forecasting, and instant and interactive visualization of AI outputs.

HAL24K_s powerful combination of advanced data science solutions with a comprehensive and practical enabling platform, allows the right decisions to be made across operations, every day, transforming infrastructure around the world.

HAL24K
Johan Huizingalaan 400
NL-1066 JS Amsterdam
E: amsterdam@hal24k.com
www.hal24k.com

E: peter.denhartog@hal24k.com
M: +31 655 958 688
M: +1 415 917 3364

IBM

IBM Netherlands

Eric-Mark Huitema
GM Smarter Transportation

Build your competitive advantage with AI
IBM Watson helps you unlock the value of your data in entirely new, profound ways. By freeing your employees from repetitive tasks, you can empower your teams to focus on more creative, higher-value work. With insights from Watson, you can predict and shape future business outcomes, while rethinking practices and workfows.

IBM Solutions:
- **Blockchain** Maximize transparency, enhances efficiency of end-to-end work flows and simplify trade compliance with solutions that boost productivity and your bottom line.
- **IoT** Improve agility and keep time-dependent processes running smoothly by leveraging access to realtime data with solutions tailored to your specific needs.
- **Data** Gain insight through AI-driven data and analytics to better understand customer needs, provide cutting-edge solutions and improve service satisfaction.
- **Quantum computing** IBM Q is an initiative to build universal quantum computers for business and science. A worldwide network of Fortune 500 companies, academic institutions, and startups use IBM Q technology and collaborate with IBM Research to advance quantum computing.

IoT with blockchain
IoT allows devices to send data to private blockchain ledgers for inclusion in shared transactions with tamper-resistant records. IBM Blockchain enables your business partners to access and supply IoT data without the need for central control and management. Each transaction can be verified to prevent disputes and ensure each partner is held accountable for their individual roles.

Securely connect, manage and analyze IoT data with Watson IoT Platform
Generate new business models and make more informed, realtime decisions with IoT connectivity and cognitive analytics.

IBM Netherlands
Johan Huizingalaan 765
NL- 1066 VH Amsterdam
www.ibm.com/watson

E: HUITEMA@NL.IBM.COM
M: +31 651 256 206

IJssel Technology

Mark Peters
Manager Innovation and Smart
Industry

As partner in production improvement IJssel Technology supports industrial companies in the manufacturing-, food- and process industry. Main goal is to keep these companies competitive. Therefore IJssel Technology engineers & realizes, maintains & modifies and improves & innovates smart production processes. In one company craftsmanship, new technologies and business improvement skills are integrated, leading towards innovative and effective implementations. IJssel Technology has 500 employees and is working out of 9 locations in the Netherlands.

IJssel Technology is a front runner in Smart Industry/Industry 4.0. Especially in the areas of:
- On-line Monitoring and Predictive Maintenance (Wireless Smart Sensors/Cloud-connectivity/Predictive Maintenance Algorithms). With cases implemented at: Tata Steel, Scania, Cargill and Coca Cola.
- Intelligent Supply Chain Network with a case (the Smart Industry Cloud) implemented at Brainport Industry Campus in Eindhoven, A network of companies doing business as one (external ordering/ internal ordering/logistics).
- Big Data/Advanced Analytics for Optimization (data acquisition, integration and analytics with machine learning). With cases where advanced analytics techniques being used for the improvement of the OEE (Overall Equipment Effectiveness) at Nedmag (Salt) and Solidus (Solid Board production).

IJssel Technologie
Trawlerweg 3
NL-8042PZ Zwolle
P: +31 384 256 256
E: info@ijsseltechnologie.nl
www.ijssel.com

E: m.peters@ijsseltechnologie.nl
M: +31 651 847 645

![ICAI logo] **Innovation Center for Artificial Intelligence**

Maarten de Rijke
Director ICAI
University Professor Artificial
Intelligence and Information
Retrieval

ICAI, the national Innovation Center for Artificial Intelligence, is aimed at knowledge and talent development in AI. It is a federation of labs in which knowledge institutes and industrial or not-for-profit partners work on a shared research agenda. A lab has at least five PhD students. Labs find their inspiration for knowledge development in relevant questions and relevant data from external stakeholders and by autonomously developing new technology. AI research in the Netherlands is at a very high level internationally, both foundational and in public-private partnerships. It builds on a long tradition in AI education, with BSc and MSc programs in AI going 30 years.

ICAI was founded in April 2018. Labs that are currently running or being launched have broad a range of partners – Ahold Delhaize (with two labs), Bosch Industries, Delft Imaging Systems, Elsevier, ING, the National Police, Qualcomm, Thirona – and cover a broad range of AI challenges emerging in finance, health, knowledge management, retail, and security. ICAI's current labs are located in Amsterdam, Delft, Nijmegen, and Utrecht, with further locations planned for the near future.

With ICAI's model of industrial AI labs, the Netherlands distinguishes itself. Affiliated to universities with high-level AI expertise, labs are founded throughout the country, wherever talent, industry demand and relevant expertise meet. The national Innovation Center for Artificial Intelligence connects its industrial knowledge laboratories to a national world-class research lab that is well connected to European AI centers.

**Innovation Center for
Artificial Intelligence**
Science Park 904
NL-1098 XH Amsterdam
www.icai.ai

E: derijke@uva.nl
M: +31 651 938 523

Kryha

Tobias Disse
Co-founder & CEO

Kryha helps enterprises to translate blockchain in to added value for their organization. Kryha works closely together with her clients (Shell, KLM, BASF and more), guiding them through the process of selecting use cases, designing concepts, and turning these concepts into reality by building applications and prototypes. Kryha works for both private and public organisations and has extensive experience in taking clients from ideation to execution.

Kryha
Johan Huizingalaan 400
NL-1066 JS Amsterdam
www.kryha.io

E: tobias@kryha.io
M: +31 611 913 723

NXP Semiconductors Netherlands

Maurice Geraets
Executive Board Member NXP
Netherlands

NXP Semiconductors is a a NASDAQ-listed, global
semiconductor company with 31,000 employees in 31
countries and a revenue of $9.4 billion in 2018.

We address 'Secure Connections for a Smarter World' in a wide
range of automotive, security, infrastructure, smart industry,
internet of things and mobile applications.

In cyber security we have the world's number one
semiconductor portfolio. Next to being the NFC inventor
and market leader (near field communication, e.g. for secure
mobile payment), we are the global market leader in chips for
passports, banking cards, ID cards and transportation tickets.

In automotive we are the world market leader with over 95% of
all cars being produced globally using NXP chips. With car-
to-car and car-to-infrastructure communication chips, radar,
image processing and artificial intelligence chips, we enable
automated driving, safer traffic, less traffic congestion and
lower pollution.

NXP chips enable the Internet of Things, by applying sensors,
processing, security and connectivity chips. NXP offers also
technology for Smart Cities: transportation ticketing, secure
access and smart mobility solutions.

**NXP Semiconductors
Netherlands**
High Tech Campus 60
NL-5656 AG Eindhoven
P: +31 402 729 960
www.nxp.com

E: maurice.geraets@nxp.com
P: +31 402 729 960

Port of Rotterdam

Oscar van Veen
Global Connected Ports

The port of Rotterdam is Europe's largest sea port. The port owes its leading position to its outstanding accessibility for sea-going vessels. And to its intermodal connections and the 385,000 people working in and for Rotterdam's port and industrial area. A place where unlimited ambitions can become reality.

We have been developing digital solutions and automating our processes since the nineties. Now we would also like to help other ports increase their business value and introduce transparency, speed, efficiency and safety in their activities and supply chains.

It is a fact that seamless digital integration in the logistic value chain leads to both efficiency-led cost reductions and a huge CO_2 waste reduction. That's why ports all over the world all work on digitalization, varying from internal efficiencies, to connecting to direct peers in the port community and connection with the mainland.

It's a growth path along which ports are developing towards a smart port. However, ports can't finish the final steps towards digital maturity all by themselves. They need each other. The digital port-hubs need to be connected in order to create a global network of connected ports.

Port of Rotterdam
Digital Business Solutions
Wilhelminakade 909
NL-3072 AP Rotterdam
PO Box 6622
NL-3002 AP Rotterdam
P: +31 102 521 190
www.portofrotterdam.com

E: dc.veen@
portofrotterdam.com
M: +31 655 786 362

RoboValley

Anouschka Versleijen
Managing Director RoboValley
Programmanager Robotics / AI
TU Delft

In RoboValley, over 200 robotics researchers from a multitude of fields collaborate with other experts, entrepreneurs and decision-makers in both public and private sectors. As a result, a unique network is thriving, with TU Delft Robotics Institute at its heart.

The RoboValley programme team makes sure companies can find and make use of the available knowledge. In RoboValley, all the key players in robotics are connected to each other, which accelerates the growth of the industry. RoboValley assists companies or start-ups that want to settle in Delft. Via the RobotUnion and collaboration with venture capital firms, accelerated paths to the market for the most promising robotics technologies are offered. RoboValley brings companies and researchers exposure and visibility. Companies that have settled in RoboValley love the fact that they can encounter the employees of other robotics companies in the hallway and discuss challenges. The fieldlab 'RoboHouse' offers companies a unique sandbox to perform robotic designs sprints and speed up the development of novel robotics implentation.

Delft University of Technology
TU Delft has a strong research focus on robotics and on AI. Both the 'hard' robot disciplines (mechatronics, embedded systems, control and Artificial Intelligence) and the 'soft' robot sciences (human-machine interaction, user interaction, architecture, ethics, security and design) have a prominent presence. By joining forces, and aligning research, education and valorisation, TU Delft Robotics Institute takes a leading role in the creation of the next generation robots.
AI research and education at Delft University of Technology focuses on understanding, designing, and engineering the responsible automation of complex systems, involving people as well as technical components on the areas of Machine Learning, Knowledge Representation & Reasoning, Decision Making, Agents, and Robotics & Vision.

RoboValley
Julianalaan 67a
NL-2628 BC Delft
P: +31 157 601 600
www.robovalley.com

TU Delft
Mekelweg 5,
2628 CD Delft
www.tudelft.nl
www.tudelftroboticsinstitute.nl
www.tudelft.nl/ai

E: anouschka.versleijen@robovalley.com
E: a.g.s.versleijen@tudelft.nl
M: +31 653 746 063

SINGA

SINGA is a multidisciplinary engineering firm operating as a strategic R&D extension for international operating Official Equipment Manufacturers. As "Industrial game changers" we are creating and guiding industrial breakthrough and making our customers forerunners in the digital era.

Our activities in the Netherlands comprise of development & engineering services based on robotics, AI, cloud software & machine vision.

Products and Services Offered:
- Innovation consultancy & roadmapping
- Development & engineering services (Robotics, AI, cloud software & machine vision)
- Opto-mechatronic module assembly
- Industrial IoT / Digital Twin platform

Unique Selling Points:
- The combination of a multidisciplinary academic approach on innovation with a strong pragmatic result focus leads to proven value creation;
- The possibility of the reuse of high-end opto-mechatronic & cloud software building blocks.
- Rich portfolio of industrial game changing innovations.

Profile of Commercial Contacts Wanted:
Looking for cutting edge knowledge on AI & robotics technology to transfer to industrial opportunities in the Netherlands.

Raymond Wentink
CEO

SINGA
Guldenweg 11
NL-7051 HT Varsseveld
P: +31 315 651 515
E: info@singa-bv.nl
www.singa-bv.nl

E: r.wentink@singa-bv.nl
M: +31 622 978 116

University of Twente

Iddo Bante
Business director Digital Society
Institute

The focus on seamless, responsible digitalization of the Digital Society Institute of the University of Twente (UT) means both paying attention to adopting technologies such that they are perceived as being a natural part of our environment, and developing of new technologies that one can effortlessly use and justifiably rely upon. Twente Robotics and Data & AI are two programs in which technology- (a.o. IT, mechatronics, sensing & control, human-machine-interaction, AI), business- and ELS (ethical, legal and societal) research are combined to create both scientific and societal impact. For the development of the next generation robotics, the UT and its partners offer an integrated infrastructure: from in-house research labs to outdoor field- and urban test-facilities.

Since the '70's, the UT has been known as 'the entrepreneurial university'. It has gained a good reputation in facilitating start-up and scale-up companies and around the university is an established ecosystem of incubators, accelerators, business developers, legal advisors, private investors and VC companies. This has resulted in more than 1,000 startups since 1984. Every year, about 50 new enterprises get off the ground. Some examples are Booking.com, XSENS, DEMCON, TakeAway.com, NoWiresNeeded and SciSports.

The European Institute for Innovation and Technology EIT Digital (www.eitdigital.eu) with Prof. Jonker (UT) as CEO, gives the university a strong connection to the European IT-based industry. SPARC, the largest civilian-funded robotics innovation program in the world, is a cooperation between the European Commission and euRobotics (eu-robotics.net) with Prof. Stramigioli (UT) as Vice President Research. The UT is coordinator of DIH-HERO (Healthcare Robotics) and partner in DIH-RIMA (Robotics for Inspection & Maintenance), two pan-European networks of Digital Innovation Hubs focusing on the connection of businesses, knowledge institutes, investors and other stakeholders to accelerate market uptake of new robotic products.

Our knowledge and experience, multidisciplinary approach, networks, and infrastructure, offer a unique fertile ground for the development of extra-ordinary robotic and AI solutions and the investigation of their impact on human lives and society.

University of Twente
Drienerlolaan 5
NL-7522 NB Enschede
PO Box 217
NL-7500 AE Enschede
P: +31 534 893 998
www.utwente.nl

E: I.Bante@utwente.nl
M: +31 651 517 191

VDL Enabling Technologies Group

Bart Dirkx
Senior Architect

VDL Enabling Technologies Group
De Schakel 22
NL-5651 GH Eindhoven
PO Box 80038
NL-5600 JW Eindhoven
P: +31 402 638 666
E: info@vdletg.com
www.vdletg.com

VDL Enabling Technologies Group USA

1880 Milmont Drive
Milpitas, CA 95035 USA
P: +1 (510) 996-4660
E: info@vdletg.com

E: bart.dirkx@vdletg.com
M: +1 9256 635 211

VDL Enabling Technologies Group (VDL ETG) is a tier-one design & contract manufacturing partner with global operations. Our customers are 'Original Equipment Manufacturing' companies that have a leading role in high-tech manufacturing equipment and users of advanced production lines.

VDL ETG Technology & Development is the global development and engineering organization for the group, specializing in design and manufacturing of high-end equipment for positioning and handling, vacuum applications and charged particle systems for the Semiconductor, Analytical and Medical market. Per 2019, VDL ETG T&D employs more than 350 FTE consisting of competence groups, specialist functions (e.g. mechatronic engineers, physicists, chemists), management and staff. VDL ETG T&D entertains close cooperation with knowledge institutes and Universities (Eindhoven, Delft, Twente) enabling access to latest insights and technology.

VDL ETG has manufactured several surgical robots and medical (sub)systems for both start-ups and large companies. The VDL Group (17,000 employees and 6 Bln Revenue) holds activities in Agricultural Robotics and Autonomous Vehicles for cargo handling and logistic solutions.

Products & Services Offered:
• Design & Manufacturing of high-tech parts, modules and systems;
• Faster New Product Introduction (NPI) enabling faster Time-to-Market;
• Local production in Europe and Asia;
• Local support from the USA (Milpitas CA and Boston MA).

Profile of Commercial Contacts Wanted:
Looking for matchmaking with companies that might be interested in:
• Expanding their business from the USA to Europe and or Asia;
• Sourcing parts/modules/(sub)systems from Europa and/or Asia;
• Accessing the European knowledge base on development and manufacturing of high-tech equipment for industrial applications.

VU Amsterdam

Arno Lodder
Professor of Internet Governance
and Regulation

Ever since it was founded in 1880, VU Amsterdam has been known for its distinctive approach to knowledge. VU is an open organization, strongly linked to people and society. The Law Faculty focuses on Law in Action, combining theory and practice.

My internet law group integrates in teaching and research practice and theory, working with academia and practicing lawyers as well as computer scientist. I have a long standing track record in working with computer scientist, since my Ph.D work in the 1990s on a big AI project in the field of AI & Law.

Over the years I worked with many computer scientist, e.g. in projects with i.a. Frank van Harmelen (professor AI), Herbert Bos (professor cyber security), and Jaap van den Herik (AI and games).

I published both the Dutch handbook on AI & Law (1999, 2002 - Informatietechnologie voor juristen) as well as the international handbook (2006, Information Technology for Lawyers), and recently edited many books on Cyberlaw such as the Dutch handbook of IT & Law (2014, Recht en Computer), Cyber Law in the Netherlands (2016), EU commentary on e-commerce (2017), and Concise handbook on IT, e-commerce and privacy (2018).

I have close connections with the legal practice, i.a. I am Of Counsel at SOLV lawyers, the first Dutch boutique law firm on Law and Technlogy.

In teaching I developed over the last three years i.a. Law and ethics of Robots and AI (Master course) and Robot law and AI (bachelor course).

VU Amsterdam
De Boelelaan 1105
NL-1018 HV Amsterdam
www.research.vu.nl

E: a.r.lodder@vu.nl
M: +31 622 045 849

Notes

Official Delegation

Official Delegation

Ministry of Foreign Affairs
PO Box 20101
NL-2500 EB The Hague
www.government.nl/ministries

Sigrid Kaag
Minister for Foreign Trade and
Development Cooperation

E: R@minbuza.nl

Hanneke Schuiling
Director General for Foreign
Economic Relations

P: +31 70 348 4854
E: hanneke.schuiling@minbuza.nl

Meyndert van der Kolk
Private Secretary to the Minister

M: +31 646 938 897
E: meyndert-vander.kolk@
minbuza.nl

Jeroen van Dommelen
Spokesperson

M: +31 651 496 348
E: jeroen-van.dommelen@
minbuza.nl

Hugo Grondel
Policy Advisor
Department of International
Enterprise

M: +31 652 814 237
E: hugo.grondel@minbuza.nl

Contact details

Embassy of the Kingdom of the Netherlands in Washington D.C.

4200 Linnean Ave. NW
Washington, D.C. 20008
P: +1 202 244 5300
www.nlintheusa.com
Twitter/Facebook/Linkedin: @NLintheUSA

Henne Schuwer
Ambassador

E: Was-cdp@minbuza.nl
P: +1 202 274 2500

Ulrich Mans
Innovation Attaché

E: ulrich.mans@minbuza.nl
P: +1 (202) 274 2535

Consulate General of the Kingdom of the Netherlands in San Francisco

120 Kearny Street, Suite 3100
San Francisco, CA 94104
P: +1 (415) 291-2033
www.nlintheusa.com
Twitter/LinkedIn: @NLinSF

Gerbert Kunst
Consul General

E: gerbert.kunst@minbuza.nl
P: +1 (415) 291-2042

Vincent Storimans
Deputy Consul General

E: vincent.storimans@minbuza.nl
P: +1 (415) 291-2092

Skadi Tirpak
Senior Economic Policy Officer

E: skadi.tirpak@minbuza.nl
P: +1 (415) 291-2081
M: +1 (415) 608-7358

Contact details

Consulate General of the Kingdom of the Netherlands in San Francisco
120 Kearny Street, Suite 3100
San Francisco, CA 94104
P: +1 (415) 291-2033
www.nlintheusa.com
Twitter/LinkedIn: @NLinSF

Walter van der Weiden
Senior Economic Officer

E: walter-vander.weiden@
minbuza.nl
P: +1 (415) 291-2073

Wouter Roeloefs
Innovation Attaché

E: wouter.roelofs@minbuza.nl
P: +1 (415) 291 2082

Virenya Battja
Innovation Officer

E: virendya.battja@minbuza.nl
M: +1 (240) 750 3613

Sietze Vermeulen
Senior Officer Communications
and Public Diplomacy

E: sietze.vermeulen@
minbuza.nl
P: +1 (415) 291-2039
M: +1 (415) 866-5572

Daniela Nuñez Zurita
Personal Assistant to the
Consul

E: d.nunezzurita@minbuza.nl
P: +1 (415) 291-2042

Contact details

Consulate General of the Kingdom of the Netherlands in San Francisco

120 Kearny Street, Suite 3100
San Francisco, CA 94104
P: +1 (415) 291-2033
www.nlintheusa.com
Twitter/LinkedIn: @NLinSF

Ministry of Economic Affairs and Climate Policy | Netherlands Enterprise Agency

PO Box 93144
NL-2509 AC The Hague
www.hollandtradeandinvest.com

Interns

Ian Minnes
Intern Economic Affairs

E: ian.minnes@minbuza.nl
M: +1 (415) 490 8172

Kimberly Beijersbergen
Intern Communications and
Public Diplomacy

E: ka.beijersbergen@minbuza.nl
P: +1 (415) 291-2087
M: +1 (415) 420-1469

Laurens Noya
Intern Economic Affairs

E: laurens.noya@minbuza.nl
M: +1 (415) 400 6344

Ruben Wassink
Senior Advisor
Horizon 2020 National Contact
Point for FET & ICT

P: +31 611 888 572
E: ruben.wassink@rvo.nl

Jos Hermsen
Project Manager Economic
Missions

P: +31 88 602 1078
E: jos.hermsen@rvo.nl