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Switzerland.

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TECH ✛

EDITORIAL
Research and Innovation: always on the lead

The scientific world in Switzerland, represented by the Swiss educational and research systems, appears on top of international rankings. The Federal Institutes of Technology, the Universities, the Universities of Applied Sciences and the research centres are real impulse generators for the Swiss economy.

Research and innovation are by far the main factors for maintaining and improving the added value of businesses. Switzerland, Sweden, the Netherlands, the United States of America and the United Kingdom are champions of innovation, with results largely above the communitarian average. In 2017, the European Innovation Scoreboard (EIS) ranked Switzerland once again, on top of the list of most active countries in the field of innovation.

Innovation, specialisation, high level of qualification of the workforce, quality, diversity of industrial expertise and stability of its institutions are the main ingredients of the Swiss economic success. Three axes support the system: education, research and high productivity.

Switzerland is still the most competitive economy worldwide according to the Global Competitiveness Report for 2017 of the World Economic Forum. It also ranks Swiss businesses as first investors in Research and Development.

It is in this context of a global changing market that a redesign of the strategy through the setting of new public and private investments is needed, in order to better match specific needs. In 2015, more than 22 billion CHF went to R&D in Switzerland, which is equal to 3,4 % of GDP.

Having always put its skills and the quality of its products to the test, Switzerland remains a historically faithful partner to the European Union; the participation of Switzerland since 1992 in the Framework Program for Research and Technological Development (FP) and its full association with Horizon 2020 from 1 January 2017 are proof of this.

It is in this spirit that Swiss companies are evolving by showing a growing motivation to develop in France. Their goal to assert the validity of their development strategy is built on the innovation to meet the demand of the most rigorous markets, with high technical expertise and high added value.

This year, the Swiss Pavilion @Vivatech 2018, under the auspices of Présence Suisse, SEFRI and Switzerland Global Enterprise, houses research centres, businesses and promotion agencies that are highly representative of Swiss expertise in terms of innovation and new technologies: we invite you to discover them in the following pages.

From the internet of things to artificial intelligence, from high-resolution imaging to flow and vision sensors, to smart parking and lighting management, to low-power systems, enter the world of Swiss innovation that combines economic dynamism and creativity!

The Embassy of Switzerland, the Swiss Business Hub France and the Swiss exhibitors are happy to welcome you to their stand and wish you a good visit.

Patrice Jacquier
Head of Swiss Business Hub France

SWISS BUSINESS HUB FRANCE

The ideal partner for your strategic development projects

Contact
Patrice Jacquier
Head SBH France
patrice.jacquier@eda.admin.ch
+33 1 49 55 67 83

Swiss Business Hub France
142, rue de Grenelle
75007 Paris, France

Website
s-ge.com/en/company/swiss-business-hub-france

The Swiss Business Hub France (the SBH or Hub) is integrated within the Embassy of Switzerland in France. It is the official representative of Switzerland Global Enterprise (S-GE) in the Hexagon, which is in charge of promoting the business location Switzerland worldwide.

The SBH is a public agency in charge of helping SMEs and SMIs from Switzerland and Liechtenstein in the research for commercial partners in France. The Hub's services include: market information; certification support; detailed market and product analysis; search for distributors, local representatives and partners and support for the establishment of communication channels; B2B / B2C sales pipeline development; individual consulting and coaching of SMEs; site location evaluation; organization of events and fact-finding missions for Swiss companies, associations and official delegations.

The SBH informs French companies about the key advantages of Switzerland as a business and investment location. The Hub can provide access to key stakeholders to help find locations or business partners in Switzerland. As part of the mandate on behalf of the Swiss Government, the Hub works closely with the regional and cantonal business promotion agencies in Switzerland.

SWITZERLAND GLOBAL ENTERPRISE
enabling new business

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Ambassade de Suisse en France
Swiss Business Hub France

CSEM
Technologies that make the difference

Contact
Beatriz Tur
Marketing & Business Development
beatriz.tur@csem.ch
+41 32 720 55 75

CSEM SA
Rue Jaquet Droz 1, CP 216
2002 Neuchâtel, Switzerland

Website
csem.ch

CSEM is a private nonprofit Swiss organization for research and innovation. Supported by the Swiss Confederation, our mission is to enhance the competitiveness of industry by developing new technology platforms and transferring it to the industrial sector.

Our operation is based on five strategic programs:
→ Microsystems (design & process, integration & packaging)
→ Systems (scientific instrumentation, medical device technology, automation)
→ Photovoltaics & Energy Management (crystalline silicon & metallization, modules & system integration, thin film coating & devices, printable photovoltaics, energy management)
→ Ultra-Low-Power Integrated Systems (system-on-chips, wireless, vision)
→ Surface Engineering (nanotechnology, biotechnology, printable electronics)

In each of the above, we have gained a reputable standing on the national and international levels by offering our customers and industry partners custom-made, innovative solutions supported by our extensive market knowledge and technology expertise.

By expanding CSEM's knowledge and adapting it to industrial needs, new products are brought to market and new ventures are created. CSEM works with a wide range of stakeholders, from startups to SMEs and large organizations. CSEM's services include contract R&D, strategy and innovation consultancy, development of specific business solutions for several Industrial Sectors

EXELOP
Innovation & operational excellence

Contact
Constant Ondo
CEO
ondo@exelop.com
+41 79 596 68 37

Exelop
Avenue Louis Casaï 18
1209 Geneva, Switzerland

Website
exelop.com

SOLUTION POUR GÉRER L'INNOVATION

RETOUR D'EXPÉRIENCE

MAINTENANCE PRÉDICTIVE ET PRÉSCRIPTIVE

PICC SOFTWARE

INNOVATION SYSTÉMATIQUE

OBJETS CONNECTÉS

Exelop SA is a company active in the field of systematic innovation, offering software solutions and training. The Private Innovation Competence Center (PICC) solution developed by Exelop allows companies to capitalize on and share the expertise of their employees in a way that facilitates innovation. PICC also leverages the Internet of Things and artificial intelligence to consolidate this human knowledge.

PICC is a cloud based collaborative software solution that offers the ability to capture, identify, evaluate, analyze and share your know-how with your employees and information systems, whether internal or external to your company. It uses artificial intelligence to read and understand documents. PICC helps find innovative solutions using TRIZ methodology as well as the latest research from laboratories working on innovation engineering. This is the power of artificial intelligence at the service of your everyday life, with ease of use that revolutionizes collaboration!

exelop
INNOVATION & OPERATIONAL EXCELLENCE

PICTERRA
Satellite & aerial data analytics

Contact
Pierrick Poulenas
CEO
pierrick.poulenas@picterra.ch
+41 76 612 79 25

Picterra
Avenue de Florissant 16
1020 Renens, Switzerland

Website
picterra.ch

Picterra

AI-BASED ANALYTICS FROM AERIAL AND SATELLITE IMAGES

www.picterra.ch

Picterra, a Swiss Start up based in Lausanne at the EPFL Innovation Park and funded in 2016, is at the middle of two major revolutions: artificial intelligence and the increasing availability of earth observation imagery from drone and satellite, at low cost and high resolution. Through its platform as a service, Picterra propose a unique and disruptive approach to extract structured and valuable information out of satellite and drone imagery, consisting of a partnership between human discriminating intelligence and the analytics power of AI.

Picterra will showcase the first version of its unique AI –based Platform, a service enabling users to create customized analytics and structured dashboard out of large volume of satellite and drone imagery. The platform allows the users to intuitively and easily adapt AI models to detect and classify objects, identify trends and patterns over an area and period of interest and reveal previously not accessible information.

Picterra

HOME OF DR⊕NES

Drones are conquering the airspace of the future. Switzerland has earned itself a leading global position in this field and Swiss companies are some of the most innovative players in the flying robot sector.
With its federal institutes of technology as research hubs and incubators of numerous start ups, a strong and growing industry and supportive authorities in the field of regulations and investment,
Switzerland is the home of drones.

#homeofdrones

Switzerland.

TECHNIS
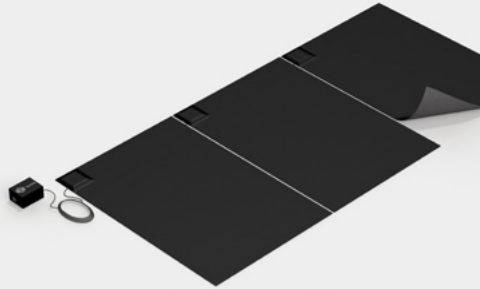## Smart and connected floor – AI

Contact
Léonard Sombrun
Sales and Digital Representative
leonard.sombrun@mytechnis.com
+41 78 609 66 61

Technis
Rue de Genève 88Bis
1004 Lausanne, Switzerland

Website
mytechnis.com

Technis is a Swiss company which developed an innovative smart floor technology combined with artificial intelligence and big data analytics. Technis' technology is the result of the work of 10 engineers at the Ecole Polytechnique Fédérale de Lausanne (EPFL) and has been awarded 12 innovation awards between 2015 and 2017. Technis is unique by being in control of the entire value chain, from the production of sensors to the end-user mobile application that delivers actionable information to its customers in real time.

Technis commercializes counting and people flow management solutions for complex environments through smart flooring. The combination of innovative sensors and artificial intelligence allows the Technis system, for example, to recognize the direction of movement in order to count people. It can also detect a various set of patterns such as the fall of an elderly person in a medical environment. By equipping the key points of your infrastructure, you will benefit from the monitoring of people's physical activity as well as an accurate and real-time information about the frequentation of your equipped zones.

Technis

TOTALYMAGE
The media for the enterprise digital reinvention

Contact
Lionel Crassier
CEO
lcrassier@totalymage.com
+41 78 974 63 97

Time2Market SA
Chemin de la Raye 13
1024 Ecublens, Switzerland
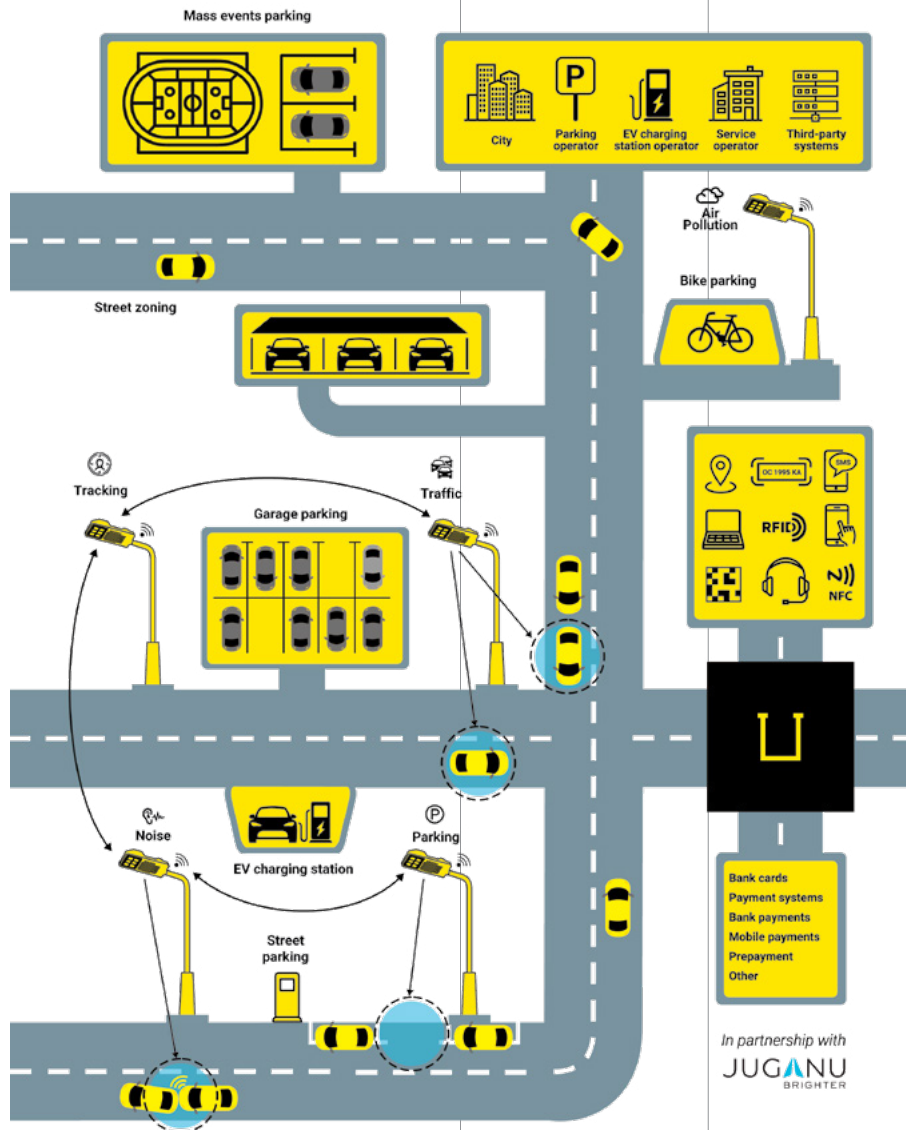
Website
totalymage.com

Time2Market SA is a tech company specialized in 360° video. It is based in the French speaking region of Switzerland and develops its business in Switzerland, France and Canada, before targeting a global expansion. Its international team rich of diversified talents grows and sells TotalYmage, the first 360° video editing platform for the industry sector.

Our vision is that Web 2.0 tools will help create interaction, exchange and appropriation towards a communication society. Our first mission is to give businesses the immersive, interactive and collaborative tools to create the future of their industry. Industrial companies use the TotalYmage software to produce, maintain and share pertinent 360° interactive environments for their daily operations: communication on their complex, distant and secured facilities, training their employees, audit reporting and maintenance preparation and execution are the main use cases in the Industry 4.0 paradigm.

TOTALYMAGE

UNIP
Digitalising the city in the shortest time

Contact
Oksana Solodovska
CEO
i.solodovska@unip.biz
+41 79 474 07 22

UNIP
Schochenmühlestrasse 2
6340 Baar, Switzerland

Website
unip.biz

Mass events parking

City / Parking operator / EV charging station operator / Service operator / Third-party systems

Air Pollution

Bike parking

Street zoning

Tracking / Traffic

Garage parking

OC 1995 KA / SMS / RFID / NFC

Noise / EV charging station / Parking

Street parking

Bank cards
Payment systems
Bank payments
Mobile payments
Prepayment
Other

In partnership with
JUGANU BRIGHTER

UNIP AG headquarters are based in Baar, Switzerland. Our programmers team has 20+ years experience in IT industry and software development.

UNIP's story started in 2014 when our company launched a new project on a mobile parking application for drivers aimed at making parking more comfortable and accessible. Later the mobile application was transformed into a professional cloud-based parking and traffic management platform.

Our mission is to create a unified digital environment for all participants: pedestrians, drivers, private parking owners and cities.

UNIP in partnership with JUGANU proposes a communication and IoT infrastructure on JLED lights with ultra-high multi-purpose reliable bandwidth, full city coverage, plug and connect, full integration.

Advanced wireless network on lights aims to connect people and to provide them with multiple digital services and various mobile applications. With one solution we cover the major city challenges and offer effective digital tools for intelligent lighting, safe city environment, traffic and parking management. We secure considerable savings on energy, capital investments and operating expenses for the cities as well as new revenue sources.

UNIP

in partnership with:

JUGANU BRIGHTER

XOVIS
The № 1 in people flow monitoring for the IoT age

Contact
Thomas Vogel
VP Operations Airports
thomas.vogel@xovis.com
+41 79 909 92 83

Xovis AG
Industriestrasse 1
3052 Zollikofen, Switzerland

Website
xovis.com

More than 60 international airports and 150 system integrators in the retail industry count on Swiss-based Xovis, the market leader in people flow monitoring. Xovis 3D Sensors and software solutions empower them to move people more smoothly through their facilities, optimize resource planning and increase customer satisfaction.
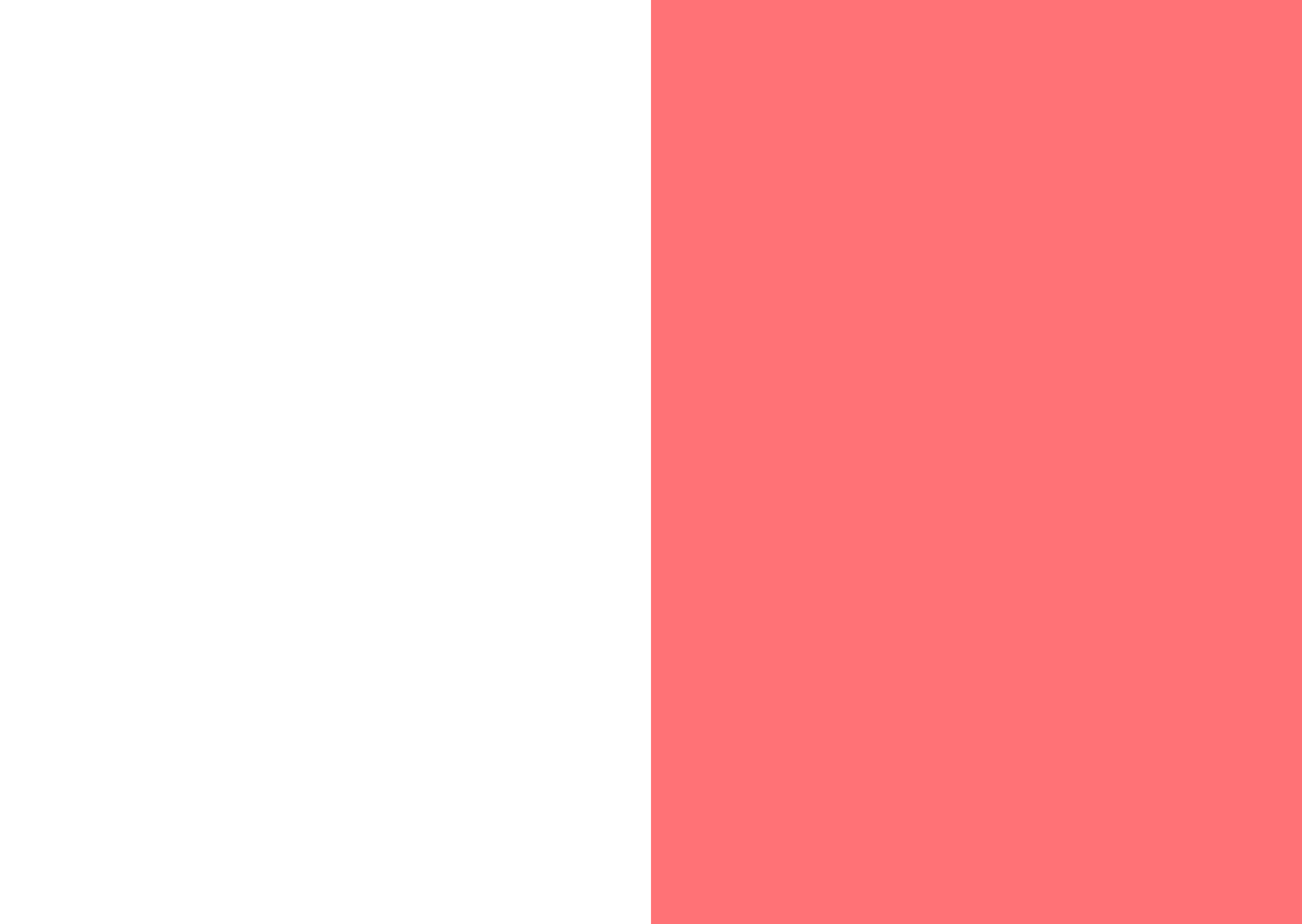Customers capitalize on Xovis' unmatched accuracy, reliability and ease of use to measure KPIs such as customer frequency, waiting times and passenger throughput. The system includes a sophisticated data privacy concept and does not depend on signal emitting devices. Founded in 2008, Xovis has evolved from start-up to a high-tech company with more than 80 employees.

The Xovis system combines 3D sensors with software solutions to measure KPIs such as customer frequency and waiting times. Xovis 3D Sensors count and track people anonymously. One sensor covers up to 100 m² and can be mounted from 2.2 to 30 m high. Sample rates up to 98% are guaranteed, meaning that 98% of the persons in the covered area are registered. Connecting an unlimited number of 3D sensors, the Xovis software receives data streams from the sensors to calculate the KPIs. The real-time data enables customers to optimize resource planning and improve customer satisfaction.

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