



Company Profile

# Tech the Future



# About us

**We are leaders in the development and integration of Intelligent Transport Systems solutions and Autostrade per l'Italia Group's centre of excellence for research and innovation.**

We develop digital engineering for mobility: we design, implement and integrate innovative solutions for a future which, for us, is already intelligent, sustainable and powered by invisible but ever-present technology.

We operate in Italy and abroad developing systems for monitoring and managing infrastructures, traffic and road safety, for toll payment, for smart roads and for urban mobility.

We work with our customers - motorway concessionaires, road authorities, public administration and service providers - to make the travel experience more convenient, easier and safer for the community. We are committed to finding innovative and technologically advanced solutions, improving operational processes and efficiency.



# Vision

We innovate to achieve a sustainable future where infrastructures are safe, mobility is simple and cities are smart, where the environment is a value for the community that moves on roads and motorways.

## The pillars of transformation:



### Innovation

The real driving force behind MOVYON: it directs our activities, from research to design and development. The result is a new mobility experience, which our tech and smart solutions create inside and outside the city.



### Sustainability

For us, the environment comes first. Our solutions aim to make mobility and infrastructure management sustainable, but our approach is also sustainable with regard to people, the real engine of ideas towards the change we imagine.



### Collaboration

Our solutions are also the result of the partnerships set up by MOVYON. Synergy is the key word. This is also the spirit on which our customer relationships are based: we work together to build valuable services.





# Our Portfolio



## TOLLING

Stop&Go

Free Flow

Satellite



## INFRASTRUCTURE MANAGEMENT

ARGO

Evolutive Pavement Management



## TRAFFIC MANAGEMENT

Traffic Management Platform

Traffic Control Center

Vehicle Tracking

Dynamic Traffic Flow Management

Infomobility

Traffic and Infrastructure Monitoring with Drones



## SAFETY MANAGEMENT

Tunnel Management

Weigh in Motion

Automatic Incident Detection

Detection of Dangerous Goods

Safety Tutor

Remote Tachograph Monitoring

Detection of Overtaking Heavy Vehicles



## ON BOARD UNITS

OBU GO DSRC

OBU GO Sat



## SMART ROADS

C-ITS Connected Cars

Smart Service Areas



## URBAN MOBILITY

Access Control for Restricted Areas

Tracking of Public Fleets

Monitoring of Logistic Areas and Interports

Dynamic Tolling

C-ITS Connected Cars



## MOVYON ELECTRONICS

Radio Frequency Devices

Racing Aftermarket Devices

Roadside Devices

On Board Units



## R&D

Kinetic Energy Harvesting from Vehicles

Autonomous Driving

HiSensitive Lane

## Tolling

Our technology can be found on 75% of Italian motorways and on more than 450 free flow gantries and stop&go plazas around the world. Smart and innovative solutions for more complete and clearer management of toll information, and a simple, intelligible payment experience.

**Benefits:**



On Board Unit (OBU) with interoperable technology in Europe



Complete set of solutions for stop&go, free flow and satellite tolling



Improved payment experience for drivers

## On Board Units

Our On Board Units offer high performance and robustness, and enable a wide range of new services and business applications for service providers. DSRC devices enable electronic toll payment through Dedicated Short Range Communication microwave technology that exploits the 5.8 GHz frequency band to communicate with ground infrastructure antennas via “transponder” communication. Satellite devices enable toll payment using satellite technology, by sending geolocation GNSS data to the central platform via 4G mobile network, and DSRC technology. They are also used for vehicle localization and route monitoring in fleet management, heavy vehicle tracking and urban public transportation tracking.

**Benefits:**



High efficiency and robustness



Modern design and smart user interface



High level of customization

## Traffic Management

We develop intelligent systems, integrating traffic management technologies for both extra-urban and urban roads. Our Traffic Management Platform orchestrates equipment and applications, collects and processes data, turns it into targeted actions, and provides users with all the information they need to travel safely and plan their trips better.

**Benefits:**



Improved traffic flow thanks to constant supervision



Real-time event reporting



History and reporting of traffic data

## Safety Management

We offer solutions for making the road an ever safer place: Tunnel management for safe driving in tunnels, the TUTOR® system for checking speed limit violations, weigh in motion systems, AID management and dangerous goods tracking systems.

**Benefits:**



Monitoring of weights, stresses and overloading on infrastructures



Compliance with current tunnel safety regulations



Increased infrastructure safety

## Infrastructure Management

We create advanced technologies to serve infrastructure safety and sustainability: ARGO, the platform for bridge, viaduct and tunnel monitoring and lifecycle management, and Evolutive Pavement Management System, for pavement health condition monitoring and maintenance activity planning.

**Benefits:**



Complete digitization of infrastructural asset



Data transparency and control



Real-time monitoring of the health of the works

## Smart Roads

Our Smart Roads project includes innovation for Connected Cars and Autonomous Driving, which includes implementing technologies that enable communication between vehicles and road infrastructures. We are also developing new solutions for the Intelligent Service Areas of the future, which can be realized through the use of many technologies, such as video analysis and predictive algorithms, sensors, laser scanners, cameras, information totems.

**Benefits:**



Data collection from V2I communication



Optimisation of traffic flow



Increased Safety

## Urban Mobility

We develop and integrate systems for traffic flow optimization, intelligent access control for selected areas and urban tolling systems, to favour the adoption of sustainable mobility within an interconnected urban system and a data-driven approach.

**Benefits:**



Traffic optimisation thanks to forecasting models



History and reporting of collected traffic data



Improved customer experience, driving in the city becomes smoother and safer

## MOVYON Electronics

Hub dedicated to the design and manufacture of electronic equipment for Intelligent Transport Systems and Electronic Toll Collection solutions, from radio frequency devices to racing aftermarket and roadside devices.

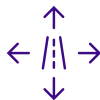
**Benefits:**



Technological products of excellence for the mobility sector



Highly specialized skills with a strong R&D drive



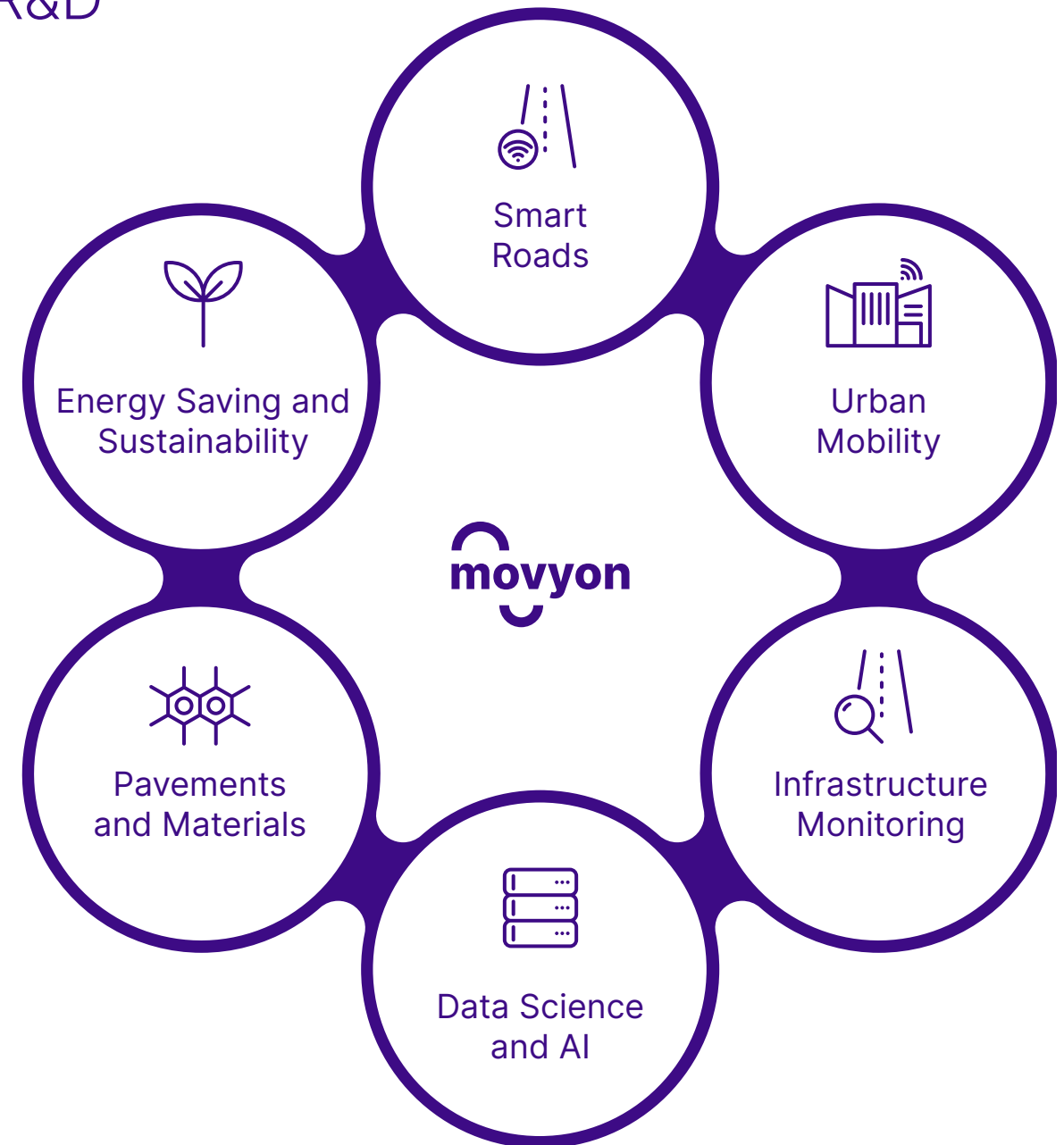
End-to-end solutions that guarantee flexibility, control and quality

# Our approach to innovation

We are the Autostrade per l'Italia Group's centre of technological innovation. We promote initiatives that find application in roads and motorways, and urban and extra-urban contexts.

Our approach is based on open innovation, allowing us to collaborate with universities, research centres, incubators and the best talents with which we create new ideas and solutions.

## R&D





# What is it like to work at Movyon?

The skills and knowledge of our People are the energy that drives us towards the future we want to build.

We search for and develop talent, creating a working environment in which resources can express their potential. We train management to inspire leadership that is oriented towards merit, responsibility, listening and collaborative and constructive feedback.

We believe in professionalism, work ethic and transparency, aiming for high performance and quality results. Our values are promoted within the Company through an important listening, training and information programme, with the aim of supporting their dissemination and full compliance.

## People



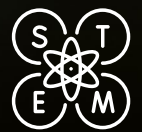
**400+**  
employees



**39 years**  
average age



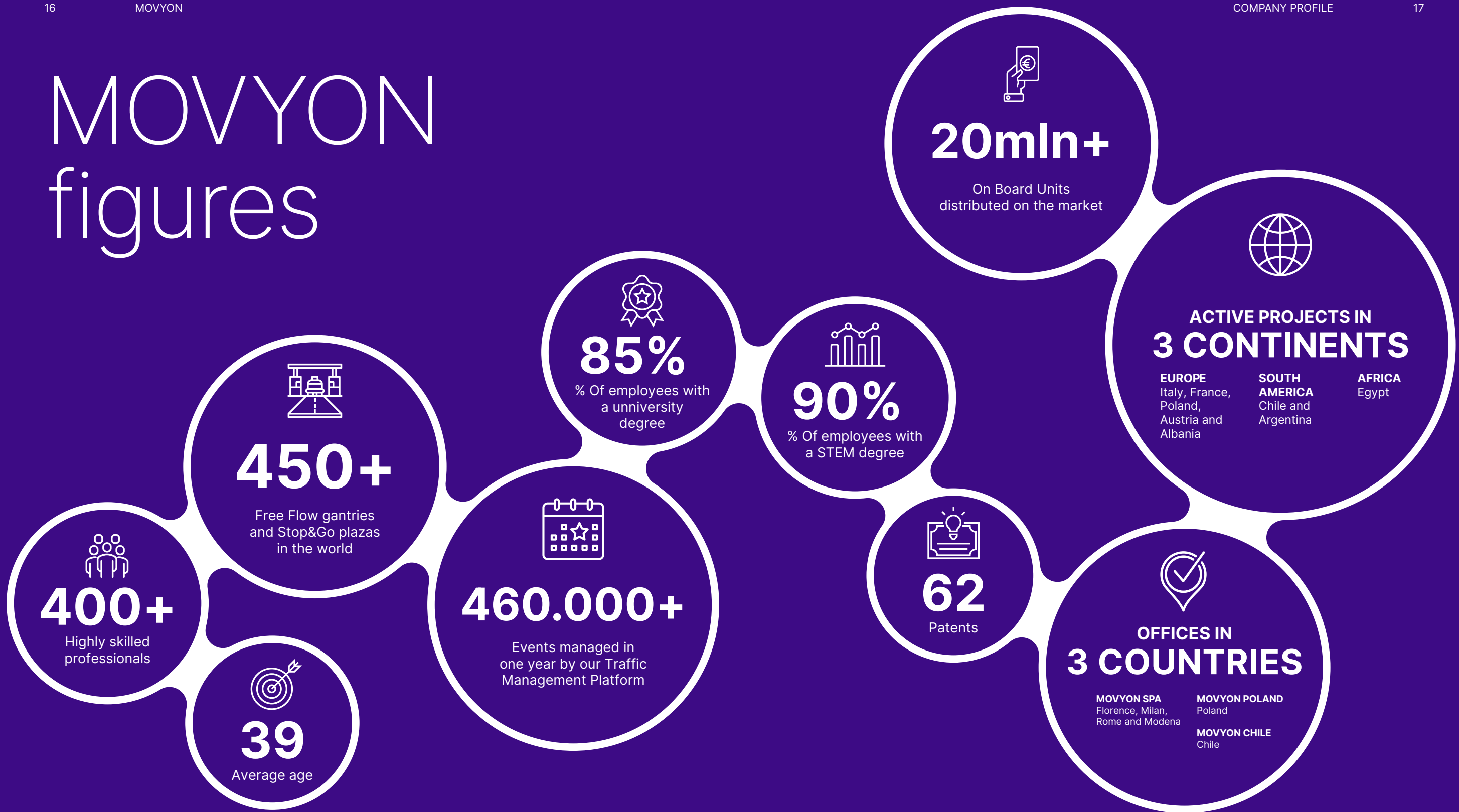
**85%**  
of employees has  
a university degree



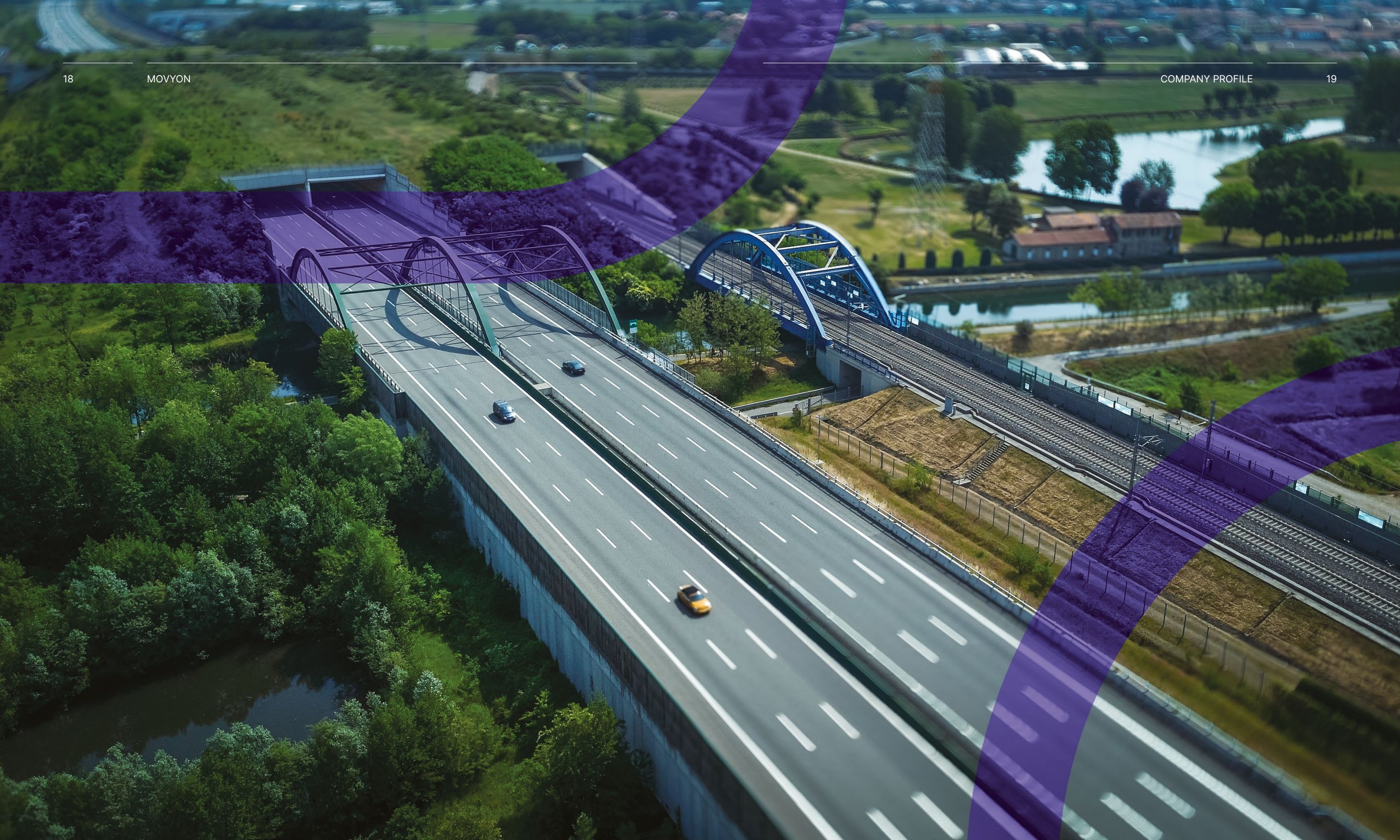
**90%**  
of graduates has  
a STEM degree



# MOVYON figures











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**Discover more at:**

[movyon.com](http://movyon.com)

**a Gruppo Autostrade  
per l'Italia Company**