**FREIGHT TRANSPORT BECOMES SUSTAINABLE AND CONNECTED:**

**AT FIERA MILANO WITH TRANSPOTEC LOGITEC ALL THE ANSWERS TO THE CHALLENGE OF DECARBONISATION**

*Decarbonisation and digitalisation: the two drivers of development of a sector worth more than 5% of the Italian GDP*

*Electric trucks with a range of up to 500 km, hydrogen trucks, biofuels from agricultural waste, reconditioned tyres: the sector is ready to respond to the challenge of green transport*

*Safety: from the digital sphere, the answers for the protection of those behind the wheel and on the road. Stop blind spots*

*Milan, 8 May 2024* - Freight transport, strategic for the country's resilience and economic growth - **logistics accounts for 5.41% of the Italian GDP** - is now facing important challenges. In particular, there are two drivers of market development: **decarbonisation** and **digitalisation**, which are changing the means, services and ways of working. The binding element is the theme of **efficiency** and **safety on the road**, essential to guarantee everyone a better quality of life.

**From 8 to 11 May at Fiera Milano**, the technological response to these issues will be the focus of the **Transpotec Logitec** 2024 proposal. **Four pavilions** - one more than in the previous edition - and the **large outdoor area in Largo Nazioni** will showcase the participating companies that are preparing to present products, solutions and services designed to redefine the standards, by streamlining the operations in all phases of the logistics chain.

**SUSTAINABILITY: THE ROLE OF ENGINE TYPES**

In light of the European directives — which provide for a 90% reduction in the CO2 emissions from heavy vehicles by 2040 — manufacturers have already been investing and working on alternative engine types for some time and are now ready to guide the customer towards conscious and personalised choices based on individual needs. And precisely with a view to offering increasingly tailor-made services, manufacturers are structuring themselves with integrated platforms of value-added services, products and consultancy.

It is now clear that the challenge of sustainability will not be won with one technology over another, but rather with the right mix of engine types and technologies. Thanks to the presence of 100% of the market of European heavy vehicle manufacturers — **DAF Veicoli Industrial, Daimler Truck Italia, Ford Trucks Italia, Italscania, IVECO, MAN Truck & Bus Italia, Renault Trucks Italia, Volvo Trucks Italia** — Transpotec will enable us to gauge the pace of the innovation in the industry and will give space to all alternative tractions, with national and world previews.

There will be many proposals for **100% electric trucks** that today can reach a **range of up to 500 km**, but there will be no lack of equally valid eco-friendly alternatives.

Research in the world of fuels is in fact taking very important steps forward with major brands operating in the sector and it will present its innovations to Transpotec.

**Biomethane** stations - CNG and LNG - are already operating on the market, offering a clean alternative to traditional diesel.

The research and development on **HVO** is also intense, a 100% natural fuel derived from agricultural or animal waste, a perfect example of the circular economy, potentially destined to replace fossil fuels and capable of cutting CO2 at the exhaust by more than 90%.

Pending the development of the infrastructure network — on which the **NRRP**, for the construction of at least 40 filling stations, has allocated **230 million euros in Italy** —hydrogen engines will also appear at the exhibition for the first time. A demo model of a hydrogen-powered fuel cell truck will arrive directly from Holland, covering a distance of more than 1000 km, and will be presented for the first time in Italy at Transpotec Logitec. This is an innovative vehicle whose only emission is water vapour - so it is Net-zero - and that is already available on the market (in Northern Europe there are already about thirty units in circulation).

**ENERGY TRANSITION. A TEAM EFFORT**

In the race to reduce emissions, all the links in the transport chain will tell Transpotec about their contributions.

As far as **trailers** are concerned, the careful choice of lighter materials, aerodynamics and load capacity contribute significantly to increasing transport efficiency, as in the case of double-deck cargo models, which increase capacity by 60% and reduce CO2 emissions by 40%.

And if storage batteries are mounted on the axle, **the trailer is transformed into an energy generator** capable of keeping, for example, the refrigeration unit of a temperature-controlled vehicle running: a system that, by storing energy when the trailer is in motion, allows a silent and zero-emission power supply.

The role of **tyres** is also important. Manufacturers are working to adapt their tyres to the new vehicles, because greater efficiency in performance means helping to reduce consumption, but they are also studying new materials to be used to avoid the dispersion of highly polluting microparticles that are harmful to health. Last but not least, they are looking at recycling thanks to technologies for rebuilding tyres that make it possible to save about 80 litres of oil for each regenerated tyre compared to the amount that would instead be necessary to create a new cover.

**THE ROLE OF THE AFTERMARKET**

2023 saw an **increase of 16% in the aftermarket truck market** (source Anfia Aftermarket Truck Barometer), a sector that is playing an important role in the energy transition process. This comprises spare parts, components, remanufacturing and regeneration services that extend the life of components, and technologies for monitoring vehicles and fleets to control and optimise consumption, by identifying areas for improvement and reducing waste. At Transpotec Logitec, these proposals will appear in the **Aftermarket Village** organised by the Parts TRUCK magazine of the DBInformation Publishing Group, which will bring together the offerings of more than 40 companies.

**VEHICLES FOR URBAN LOGISTICS**

According to studies conducted in various cities, freight transport accounts for 15% to 30% of total traffic in urban areas during peak hours, with the consequent impact in terms of emissions. This is why the challenge of sustainability is also based on the search for green solutions for the last mile.

A green alternative already found on the market is that of **electric commercial vehicles**, which combine sustainability with flexibility and the ability to adapt to narrow city streets.

To solve the issue of short-haul deliveries, fleets of **cargo scooters, cargo bikes and light quadricycles** are also emerging, which represent alternatives in the logistics field for an innovative, efficient and sustainable service. Small in size, easy to manoeuvre, free from noise pollution and with reduced management costs compared to traditional vehicles, these types of solutions represent a possibility for a “green” management of city logistics.

At Transpotec, the theme will have its very own space - the **Last Mile - Microvan & cargo bike area** - and dedicated in-depth moments, which will allow us to take stock of solutions to decongest our cities.

**DIGITALISATION: AI HOPS ON BOARD AND REVOLUTIONISES LOGISTICS**

According to data recently published by the European Commission on the road accidents that occurred in 2023, about 20,400 people died on European roads last year, a number that is only 1% lower than that of the previous year. This means that there is still a lot to be done to ensure a high level of safety on the roads. But Transpotec Logitec is sending out a positive signal: technologies are now hopping on board new vehicles to implement road safety systems, optimise cargo loading and unloading operations and reduce costs, consumption and the environmental impact.

The sensors placed at strategic points in the vehicle prove to be very useful in solving numerous problems. For example, they can communicate to digital mirrors the presence of obstacles that are otherwise difficult to identify, thus increasing visibility and **eliminating blind spot problems**. Likewise, today’s tyre monitoring systems, which are now supplied by major tyre manufacturers, constantly monitor pressure and temperature, helping to increase road safety.

**Artificial intelligence, IoT and data analysis** are also - and above all - at the base **of new vehicle and fleet management programmes** that, not only monitor and locate vehicles and goods in real time - ensuring business efficiency through the optimisation of times and loads -, but also control the condition of the vehicle, the driver's driving quality and the road conditions, anticipating possible interventions and proposing route changes to reduce mileage, consumption and emissions.

Not just on board trucks. In general, digitalisation is transforming logistics and goods management, leading to greater operational efficiency, a better customer experience and triggering a significant impact on e-commerce. In fact, companies can have greater visibility and traceability of products along the entire supply chain, reducing errors and waste along the way, but also cut operating costs and increase delivery speed by automating many logistics operations thanks to the use of digital systems.

Find out more about the exhibition offering in detail and purchase your ticket here: [www.transpotec.com](http://www.transpotec.com).

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*Transpotec Logitec will run from 8 to 11 May 2024 at Fiera Milano. Simultaneously, the space will also host* [*NME - Next Mobility Exhibition*](https://www.nextmobilityexhibition.com/)*, the event dedicated to means, solutions, policies and technologies for a sustainable mobility system, scheduled from 8 to 10 May. The two events will retain their own separate identity and design, but will address shared themes such as energy transition, new prospects for infrastructure renewal and urban mobility: key topics for the sustainable development of goods and passenger transport, especially in the light of the deadlines set at European level.*