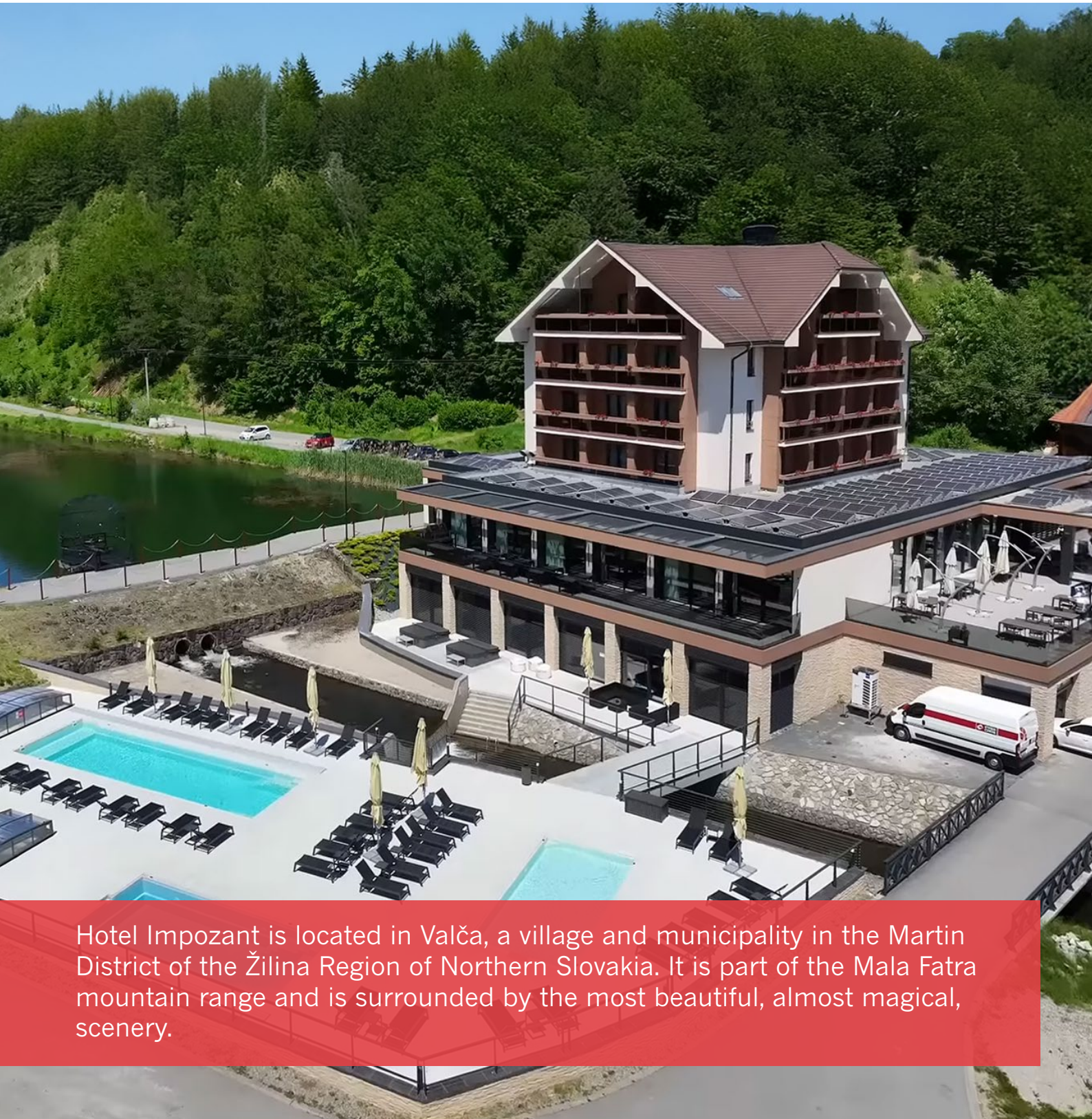
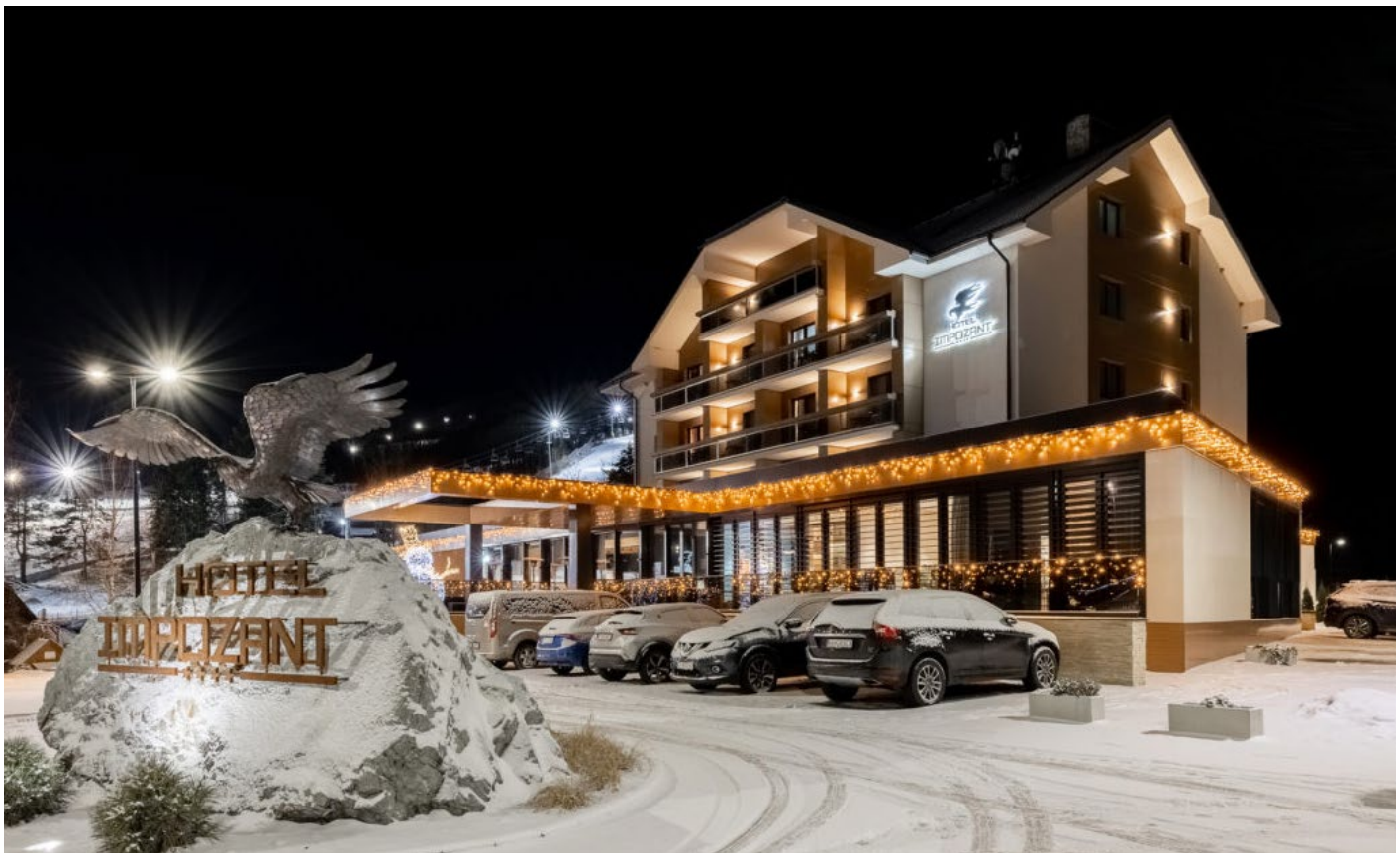
Thermia Mega delivers brilliant and cost-effective renewable energy



Hotel Impozant is located in Valča, a village and municipality in the Martin District of the Žilina Region of Northern Slovakia. It is part of the Mala Fatra mountain range and is surrounded by the most beautiful, almost magical, scenery.



Hotel Impozant entrance

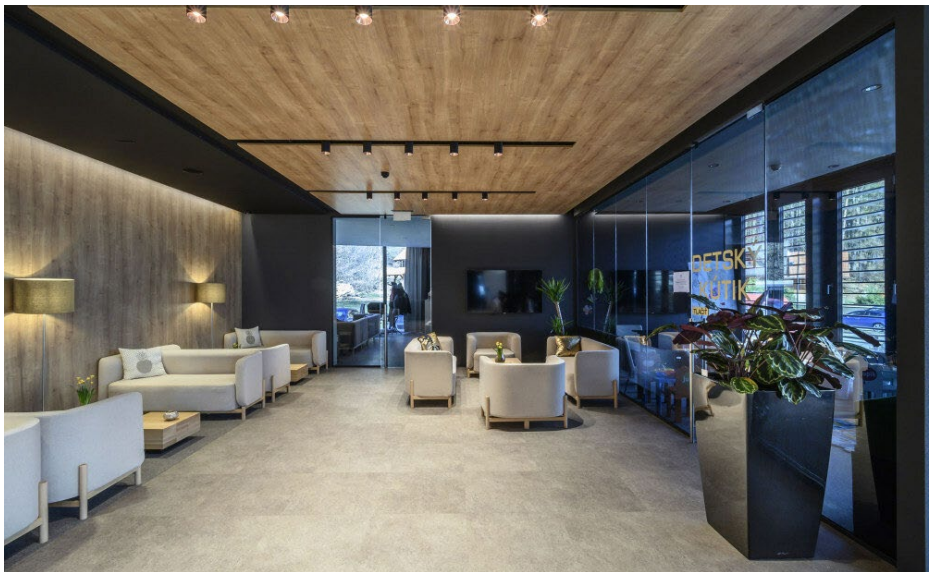
The most wonderful place to stay
The hotel itself is a newly renovated four-star hotel, with 33 beautifully appointed rooms and 2 luxurious suites. The rooms are exceptionally comfortable and most have balconies with superb views of the ski area.

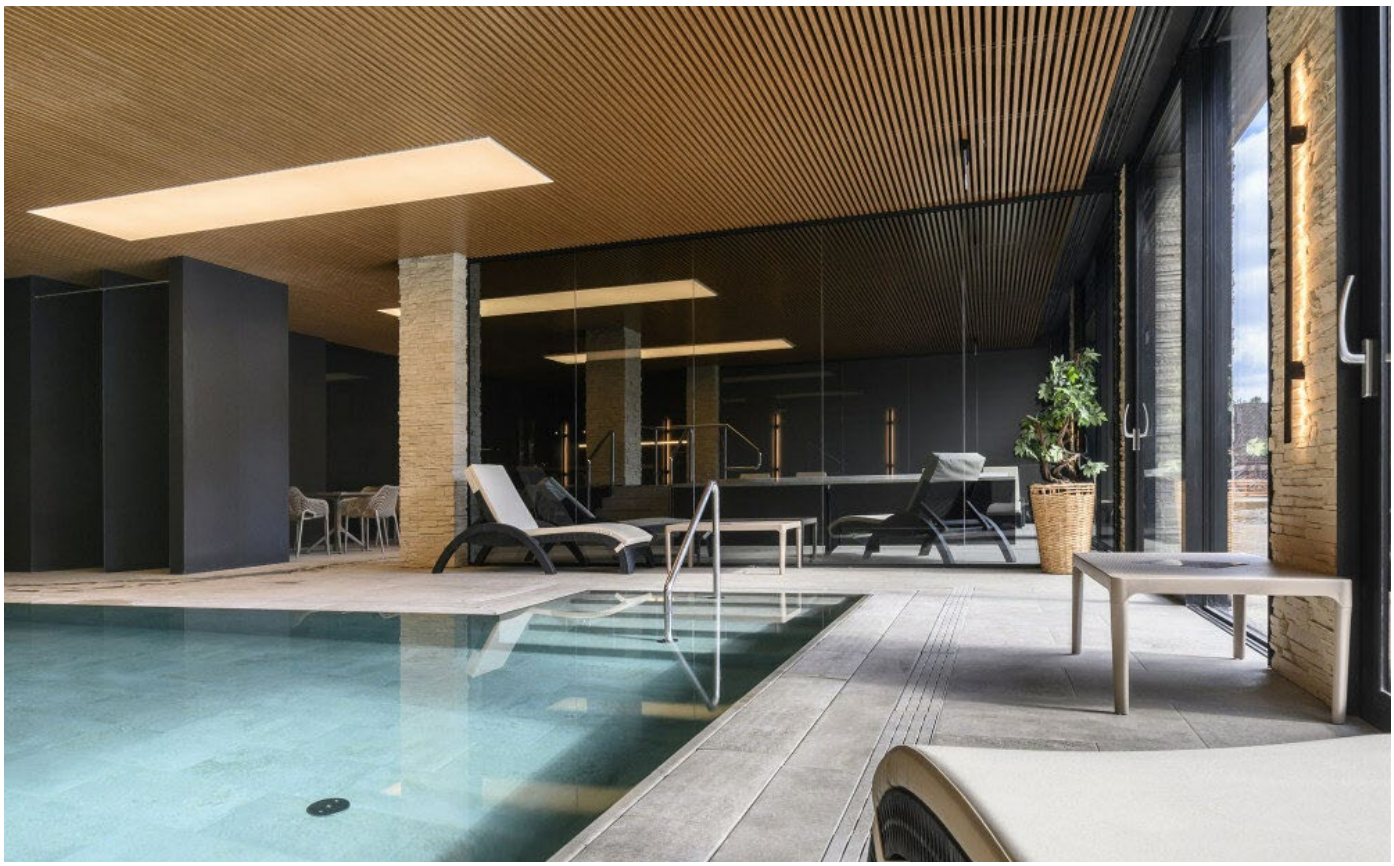
Hotel Impozant has a wellness center with five different types of sauna, as well as indoor and outdoor swimming pools.

The hotel is a perfect base for many types of sporting activities, including cycling, horse riding and snow skiing. It is located just a few meters from the ski slope in the Valčianska Valley, guaranteeing easy access for all skiers.
There is also a conference center with two congress halls, which have capacity for 120 and 250 guests.

Thermia Mega brings energy-efficient heating and cooling
As the climate is so different in the summer and the winter, the hotel needed a highly efficient energy system. It needed to be able to heat in winter and cool in summer. The customer wanted to use renewable energy and was committed to investing in the very latest technology.

The solution was a cascade of Thermia Mega L commercial ground source heat pumps. The cascade of three heat pumps has


Hotel lobby



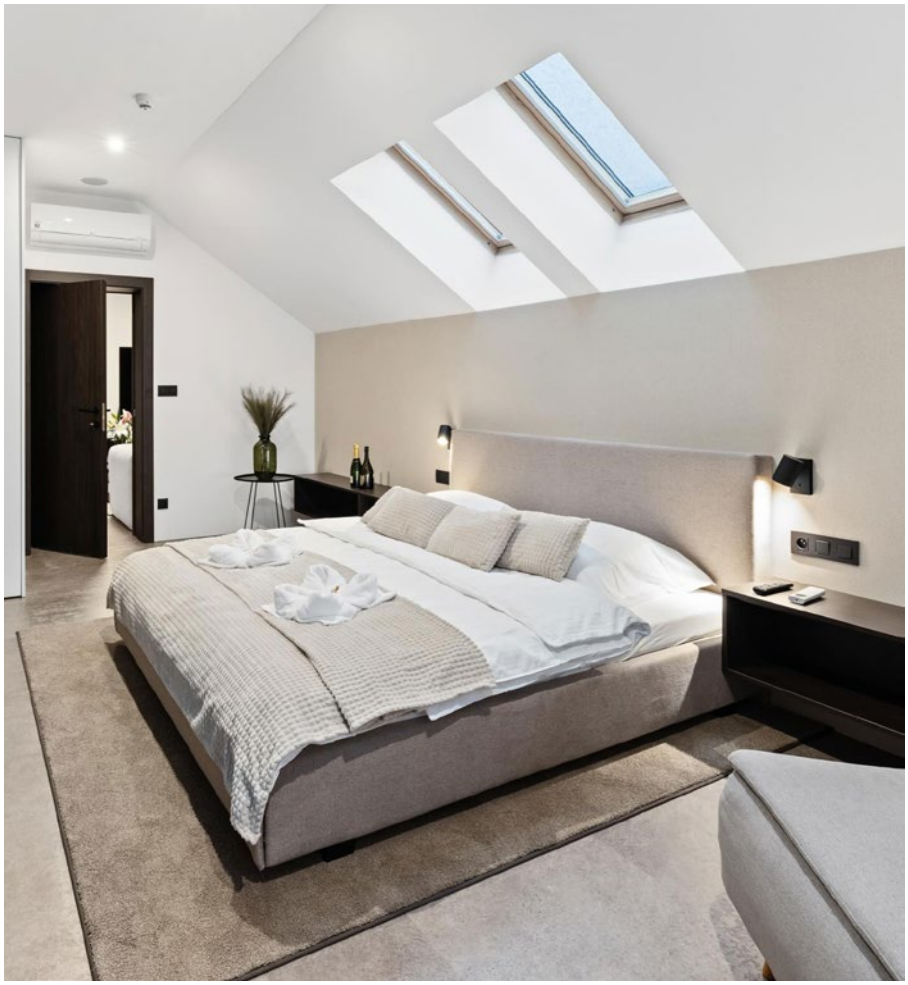
Swimming pool

a total output of 177 kW and provides heating, cooling and hot water for the entire building. The Thermia Mega L uses hot gas technology, which delivers savings of up to 20% compared to conventional heat pumps. Another advantage of hot gas technology is that the hot water can reach up to 90 degrees, giving protection against Legionella.

No energy wasted

The system is superbly efficient at not wasting energy. It is set up so the heat pumps effectively transfer energy from one place to another to maximise efficiency and avoid waste.

For example, the Mega heat pumps have the ability to cool the conference rooms and common



Hotel room

areas, while simultaneously using waste heat to heat the swimming pools.

Thermia Mega
– commercially excellent
The Thermia Mega is a ground source heat pump at the leading edge of technology that delivers amazing returns commercially, not only because of the exceptional energy savings, but also because of the best total cost of ownership for a high number of applications in the commercial sector.

The Mega is a heat pump with an inverter-controlled compressor, a total output of up to 88 kW and one of the highest SCOPs on the market.

The inverter technology also makes the Mega an extremely flexible and versatile product, which can be installed and used in all types of property to meet heating, cooling and hot water needs. The inverter control enables you to operate installations with different heating and hot water demands without the need for additional volume tanks. This lowers installation costs and reduces the amount of space required for the system. And hot gas exchangers as standard make domestic hot water production extra cost-effective.

'When we renovated Hotel Impozant, the right heating and cooling system was extremely important. It had to be powerful enough to deal with significant heating needs in winter, including the wellness center, and flexible enough to deliver cooling in the summer. It also needed to be highly cost effective. The system IVAR, Thermia reseller installed is all of these things.

The potential capability is almost endless: for example, by connecting 16 Mega units together, the customer can achieve a total heating effect of up to 1.4 MW.

The Mega is also extremely easy to use and control. The controller in the Mega heat pump boasts a touchscreen color display with easy to understand, user friendly, iconic symbols and, using the integrated Thermia Online tool, you can remotely monitor and control Mega heat pumps via a computer, tablet or smartphone.

Three Thermia Mega L heat pumps in machinery room

Fact Box

Location:
village of Valca, Slovakia

Functions:
Heating, hot water and cooling

Applied solution:
3 x Thermia Mega L 14 – 59 kW

Completion date: 2024

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IVAR CS spol. s r. o. acts as a commercial and technical representative of several European companies in the fields of water, heating, gas, filtration and water treatment, pumping equipment, solar systems and heat pumps, storage tanks, fan coils and air conditioning. Our primary goal is customer satisfaction. Therefore, we provide a wide range of products in sufficient quantities as to be always ready for immediate delivery.

IVAR updated its organizational and technical parameters introduced during the 2000 global quality standards: ISO 9001 and environmental policy with ISO 14001 in 2004. IVAR CS is continuously increasing its sales in the Czech and Slovak markets. One of the principal ways of achieving this is the participation in exhibitions and fairs. Exhibitions allow IVAR to build awareness from the general public and maintain contact with individual customers.

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All our products are designed, manufactured, and tested in Sweden using the latest technology and the highest quality components. All components inside our ground source heat pumps are made in Europe by world-leading industry specialists.

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