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REPORT  
**2021**

COMPANIES OF HIGH TECHNOLOGY INDUSTRIES

**LEITNER**

**POMA**

 **agudio**

**Pinotti**

 **DEMACKENKO**

 **LEITWIND**

# Vision

We think today about what our customers will need tomorrow. That is what has made our Group a global innovation driver whose advanced technology and resource-protecting solutions place us at the forefront.



# Securing the Future: High Technology Industries



Rope-powered passenger transport systems for use on mountains and in cities.

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Rope-powered passenger transport systems for use on mountains and in cities.

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Material transport systems

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Snow groomers and tracked utility vehicles for every kind of slope and terrain

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Complete solutions for fully automatic technical snowmaking

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Gearless wind turbines in the megawatt class

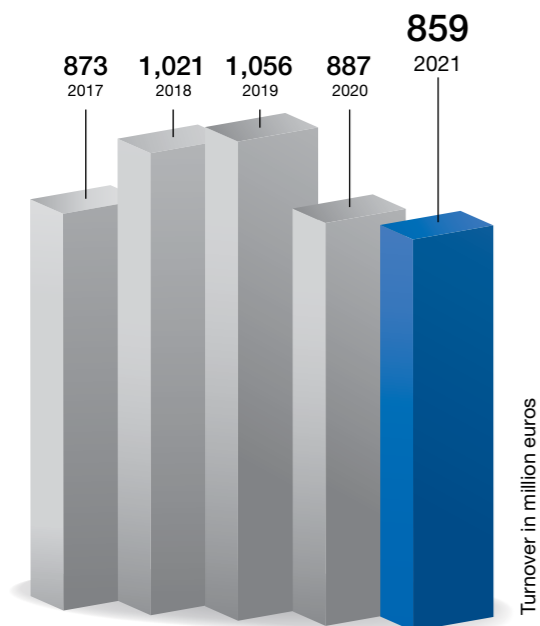
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# Together into the Future

## Turnover

Group turnover was €859 million in 2021

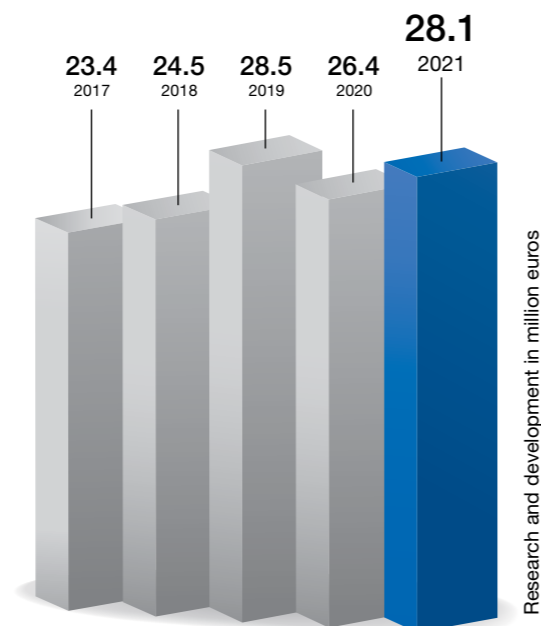
- 65 ropeway systems
- 13 wind turbines
- 863 snow groomers and tracked utility vehicles
- 40 snowmaking projects



## Research

Technological innovation is in our Group's DNA. Which means our R&D investments are considerable. In 2021 they totaled €28.1 million.

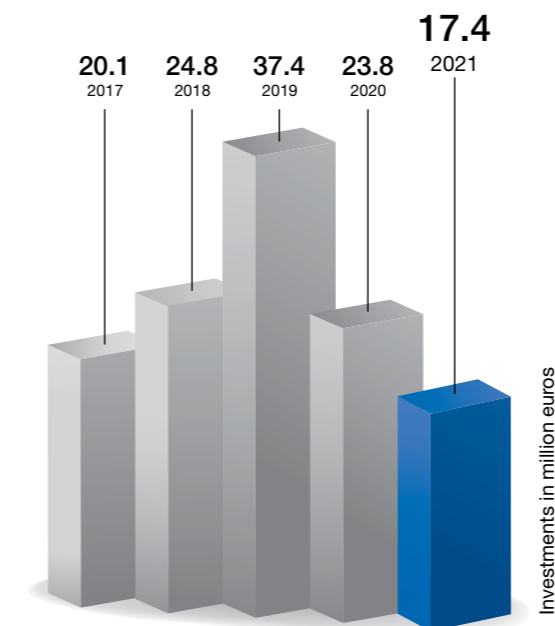
- Ropeway systems: further development of detachable gondola lifts and development of ConnX hybrid solution
- Snow groomers and tracked utility vehicles: product optimization and portfolio expansion. Further development and industrialization of LEITWOLF h2MOTION and HUSKY eMOTION concepts
- Snow guns: further development of propeller machine and lance technology, and focus on snowmaking at positive temperatures
- Wind turbines: further development of LTW80/90 and LTW42



## Investments

Our Group expanded its capacities and network in 2021 with investments of €17.4 million, which helped strengthen our global market position.

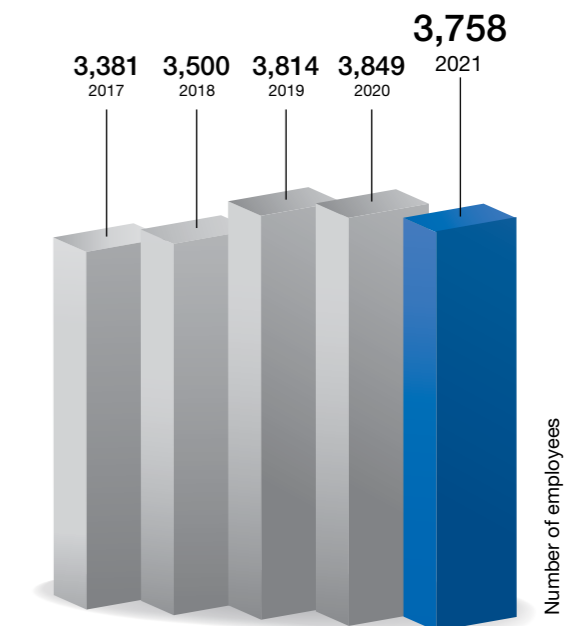
- Tracked utility vehicles: takeover of a new product portfolio in North America in the off-road equipment area
- Building extension at company headquarters in Herdwangen, Germany



## Workforce

In 2021, the Group employed 3,758 people worldwide.

- Approximately €1.3 for training and personnel development



# Driven by Individuality

**LEITNER®**

2021 was again dominated by the global pandemic and all of its attendant complications. But despite these difficulties, LEITNER was able to complete some unique projects around the world that are helping to keep important infrastructural development moving. This work assisted by numerous government aid packages, which made it possible for our customers to keep investing during this difficult phase and gave encouragement to the whole industry.

From the point of view of the company, the trend toward custom projects continued last year. LEITNER – whose slogan is “Customization is Part of Our Standards” – was able to meet this growing need and work with its customers to develop and implement solutions for their special requirements.

LEITNER also took advantage of the relative quiet caused by the pandemic to devote itself to development work. ConnX was one outcome of this, a globally unique hybrid solution for urban transport, in which the cabin is transferred in the station to an autonomous vehicle, which then continues traveling along a dedicated route.

All in all, LEITNER managed to stay successful as a reliable producer and far-sighted innovation driver during the second year of the pandemic.

MEXICO – MEXICO CITY

## Record-Breaking Ropeway

A pioneering urban ropeway concept was initiated when LEITNER built the Mexicable in the metropolitan area of Mexico City in 2016. Following the success of this system, which is also known as Línea Roja, construction work started last year on two new urban ropeways, including “Cablebús 2”, which will transport up to 100,000 people per day over a total distance of 10.6 kilometers and via seven stations. Opened in August, the installation earned a place in the Guinness World Records as the longest ropeway line in Latin America. This ropeway is in the south-east of the Mexico City metropolitan area, in Iztapalapa, whose 1.8 million residents can now enjoy significantly improved travel to workplaces, schools and recreational opportunities. More than 70,000 people are employed in stores, companies etc. along the route of the ropeway and can now reach their workplaces more quickly. There are also

plans for 4,200 new jobs in Iztapalapa, which will be easier to get to thanks to this new mean of transport. The travel time for this route has been reduced from 75 to just 36 minutes. Residents of the district now enjoy not only a faster, safer connection, but also a much more sustainable means of transport.

GD10 Cablebús 2	L2A	L2B
Inclined length (total):	5,395 m	4,993 m
Vertical difference:	43 m	145 m
Drive power:	620/925 kW	920/410 kW
Carrying capacity:	3,000 p/h	2,000 p/h
Number of towers:	32	27
Number of cabins:	188	117



LEITNER

SPAIN – BARCELONA

# New Life for the Glow-Worm

Tibidabo, the famous hill overlooking the Catalan city of Barcelona, is especially popular with tourists. It has been undergoing extensive renovation, part of which, in 2019, was the modernization of the historic funicular which takes people to the summit. Nicknamed “Cuca de Llum” or glow-worm, it has been integrated into the existing amusement park as a modern attraction. This meant that, as well as offering comfort and safety, riding on it had to be an experience itself. LEITNER was responsible for renewing the funicular control system, supplying the two cars, and installing the rope rollers and rails, station equipment, and automatic platform screen doors. Aside from all the technology, much of the focus was on

design, which, now it has been upgraded, offers more space in the cabins, an improved panoramic view, and more comfort.

### IF252 Funicular de Tibidabo

Inclined length (total): \_\_\_\_\_ 1,124 m  
Vertical difference: \_\_\_\_\_ 279 m  
Drive power: \_\_\_\_\_ 806 kW  
Carrying capacity: \_\_\_\_\_ 1,500 p/h  
Number of cars \_\_\_\_\_ 2



GERMANY – OBERSTDORF

# Ever Upwards

LEITNER is setting new standards with a new interpretation of bi-cable technology. An innovative mix of 2S and 3S technology now combines the best of both worlds on the Nebelhorn in Oberstdorf. The advantages of the system are clear: less maintenance and a longer service life. Another result of development work is the way the stations are designed. They have been tilted by three degrees to best harness downhill forces. This also allows them to be built on a smaller footprint. In Oberstdorf, good use was made of the possibilities of customization. Thanks to the Symphony 10 cabins designed by Pininfarina, guests experience a new feeling of comfort from the moment they step inside.

The entrance is wider and there are electric sliding doors, loden upholstery, and an extensive allround view through generous panoramic glazing.

### BD10 Nebelhorn

	1	2
Inclined length (total):	_____ 2,149 m	_____ 2,534 m
Vertical difference:	_____ 450 m	_____ 653 m
Drive power:	_____ 376 kW	_____ 492 kW
Carrying capacity:	_____ 1,200 p/h	_____ 1,200 p/h
Number of towers:	_____ 3	_____ 3
Number of cabins:	_____ 27	_____ 31



# Connected to the Future

The new 10-passenger gondola lift “Cortina Skyline” with Diamond cabins and LEITNER DirectDrive was one of last year’s highlights and connects the slopes of Tofane in Cortina with the Cinque Torri ski area. The ropeway consists of two sections covering a total of 4.5 kilometers. This project is an essential part of the development of tourism in the region around Cortina d’Ampezzo. The gondola lift will also lighten traffic on the busy road between Cortina and the Falzarego Pass. The new link also has important strategic significance for the 2026 Winter Olympics.

## GD10 CORTINA SKYLINE

Inclined length (total):	4,534 m
Vertical difference:	243 m
Drive power:	616/926 kW
Carrying capacity:	1,800 p/h
Number of towers:	27
Number of cabins:	86



Filzmoss / AT

## PROJECTS 2021

# Modernization Push

### ITALY – UPGRADED COMFORT AND DESIGN

A new 10-passenger gondola lift with Diamond EVO premium cabins and LEITNER DirectDrive has replaced an old chairlift in the Ladurns ski area, significantly reducing travel time and offering exceptional comfort. Visitors to Alto Sangro in Abruzzo can now ride in a new 10-passenger gondola lift called the “Fontanile” in the Pratello Rivisondoli ski area, it being the highlight of various recent modernizations. The 8-seater chairlift “Sodlisia” in Colfosco in Val Badia features premium upholstery and a premium, Pininfarina-designed station, delivering top-end transportation. Another showpiece is in the Ravascletto / Monte Zoncolan ski resort, where a new 6-seater chairlift boasts the colors of the classic cycling race Giro d’Italia, one of whose mountain stages ends right at the mountain station. LEITNER has also installed five new surface lifts focused especially on beginner skiers in South Tyrol.

### AUSTRIA – GROUNDBREAKING PROJECTS

In Filzmoos, at the heart of the extensive Ski amadé region with its 760 kilometers of pistes, the 6-seater chairlift “sixpack Mooslehen” has been built as a modern replacement for a 2-seater chairlift which is now 37 years old. 43 EVO premium chairs fitted with child-proof safety bars and weather bubbles ensure that visitors to Filzmoos can now get quickly and safely to where the fun begins. Big investments were also made in Tyrol. On the Kaunertal Glacier, the 10-passenger gondola lift “Weißseejochbahn” with its Diamond EVO premium cabins now provides access to a new valley in what is one of the region’s biggest ever expansions. Much emphasis has been placed on making the station’s architecture attractive.



Cortina / IT





### BOSNIA – NEW CENTERPIECE

The new 10-passenger gondola lift “Poljice” fulfills an essential hub function due to its central location in the skiing hotspot of Jahorina near Sarajevo in Bosnia-Herzegovina. The new ropeway boasts impressive performance because of its LEITNER DirectDrive, and is equipped with new premium cabins Diamond EVO, in the DEEP version with individual seats. Construction has also been going on in two other parts of the resort. The 6-seater chairlift “Rajska”, a modern replacement for the previous surface lift, has upgraded the surrounding slopes. The 6-seater chairlift “Poljice”, which was dismantled to make way for the new 10-seater gondola lift, has been repurposed. It was moved to a new location in the resort, and, renamed Trnovo, it will become an important part the expansion of the area.

### NEW ZEALAND AND INDIA – FASTER ASCENTS

Just 90 minutes from Christchurch, Mount Hutt is one of New Zealand’s most popular ski resorts. By building the country’s first ever 8-seater chairlift, LEITNER has delivered a further quality boost which means shorter waiting times and the ultimate in operational safety. The new “Nor’west Express” doesn’t just make the journey to the summit more comfortable, it also makes it much faster. At the foot of the Himalayas in north-west India lies Dharamshala, known as the home of the Dalai Lama. This is where LEITNER has built the 8-passenger gondola lift “Dharamshala Skyway”, making it possible to enjoy a comfortable, stress-free journey from Lower Dharamshala to the Dalai Lama’s residence in Upper Dharamshala without having to tackle a 25-minute mountain drive.

### FRANCE AND NORWAY – HIGHLIGHTS

In Les Trois Vallées, one of the world’s largest ski areas, LEITNER built the 10-passenger gondola lift “Pointe de la Masse”, which is the first LEITNER ropeway in France to achieve a speed of seven meters per second. Factors that enable such outstanding performance include LEITNER DirectDrive LD7H and specially adapted stations. The new ropeway will bring more activity to the La Masse area, which was previously served by one gondola lift and two chairlifts. Those three lifts have been combined into one that is capable of taking up to 2,800 people to this part of the ski resort every hour. The Norwegian winter sports resort of Nesfjellet is often considered the best in the country due to its

children’s area and because it has one of the nation’s longest fun parks. Its transport has also been top-notch since 2021, thanks to the 8-seater chairlift “Nesfjellet”. This ropeway takes just under 4.5 minutes to travel a distance of just over 1,400 meters and carries around 2,000 people per hour. The family-friendly Golsfjellet ski resort in Norway’s Buskerud province comprises eleven ski runs that were previously served by two ropeways. LEITNER has now built the 6-seater chairlift “Bualie”, which replaces an older surface lift to the resort’s highest point. Built last year, the SL1 and SL2 in Turufjell gives this small but attractive ski resort a fully modernized transport infrastructure.



# Outlook 2022

SWEDEN – IDRE FJÄLL

## New Star in the North

The coming year started with good news from Europe's far north: the new 10-passenger gondola lift "Wiberg", named after former ski star Pernilla Wiberg who lives nearby, will be opening at the Idre Fjäll ski resort in central Sweden. The ropeway consists of two sections, the lower of which can be operated independently of the second section. This is especially helpful on windy days, when at least part of the ropeway can be operated. The GD10 "Wiberg" features a total of 80 Diamond cabins and can carry a maximum of 3,000 passengers per hour. Two LEITNER DirectDrives are installed in the intermediate station, and all of the stations have noise-reducing designs. The ropeway is expected to provide a significant quality boost to the popular ski resort, which has a total of 41 kilometers of slopes and 22 lifts.



Idre Fjäll / SE



Mexiko City, MX

AUSTRIA – AXAMER LIZUM

## Quality Upgrade for Olympic Resort

Building work has also been underway in Austria. In Axamer Lizum, a popular ski resort and former Olympic venue near the provincial capital of Innsbruck, a new gondola lift is being erected over two sections to a new top station at Hoadl, which will be attached to the existing Hoadl-Haus. The GD10 "Hoadlbahn" ropeway is equipped with 75 Diamond EVO 10-seater cabins, powered by LEITNER DirectDrive, and features three premium Pininfarina-design stations. It covers a distance of 2,030 meters and, beginning in the 2022/23 season, will replace the "Schönbodenbahn", which was built in 1991. The fixed-grip 2-seater chairlifts "Hoadl I" and "Hoadl II" will also be dismantled and replaced as part of the new construction.

MEXICO – MEXICO CITY

## Sustainable Mobility Solution

The expansion of Mexico City's urban ropeway network continues. Building has begun on two further ropeways at the place where the first one originates, in Ecatepec de Morelos. The "Mexicable 2 – Linea Verde" is the second system consisting of three interconnected ropeways. It is also built by LEITNER. The "Linea Verde" covers 8.5 kilometers and, with a total of seven stations, is designed to meet the requirements of public transport perfectly. The ropeway will form an important link between these different districts and the Indios Verdes subway station. A total of 285 Diamond 10-passenger cabins will carry up to 3,000 passengers per hour in each direction. The ropeway will start operating in 2022. From then on, a total of seven LEITNER installations will be in operation, forming a 24-kilometer-long ropeway system and integrating perfectly into the existing public transport network.



Idre Fjäll / SE



# Mobility is in the Air

The cable car boom continued unabated in 2021, despite the special environment. This applies above all to urban ropeways, which really took off last year. Latin America confirmed its pioneering role with two new lines in Colombia and on the other side of the Atlantic as well – in Toulouse, Grenoble and Ajaccio – ropeways are providing mobility for a new generation. Even island states like Réunion and Madagascar are showing that this form of public transport can speed up overburdened cities, increasing the quality of life and curbing social differences. In winter tourism, operators faced completely new challenges due to the cancellation of the last ski season. Current projects and investments clearly show that a paradigm shift is starting here: away from the ropeway as purely an ascending aid for winter sports enthusiasts, towards its role in regional development and the promotion of sustainable location strategies as the basis for economic prospects. Tourism projects are also continuing to flourish – whether it's connecting an island near Seoul with a protected ecosystem, experiencing a traditional village in China in a completely new way or enjoying a unique experience 150 meters up in the world's largest observation wheel in Dubai: POMA is proving itself to be a reliable global partner with unique strengths – quality products, innovative customer service and 360-degree solutions from development to maintenance.

POMA

FRANCE – TOULOUSE

## France's first urban 3S ropeway

In Toulouse, POMA realized France's first urban tri-cable orbital ropeway. Equipped with 15 elegant "Urban Symphony" cabins in Pininfarina design, each with 34 seats and DirectDrive, this system – called "Téléo" – is fully integrated into the public transport network and connects three important transport hubs in this metropolis in the southwest of France and in a journey time of only ten minutes: the university institute for cancer research "Oncopole", the Rangueil hospital and the Paul Sabatier University with its 30,000 students. As is the case throughout the public transport network, the new 3S cabins have a dedicated space for people with reduced mobility. Wide door openings and step-free access into the cabin contribute to accessible boarding at stops. Information screens, acoustic announcements and a CCTV system also

improve the passenger experience. The intensive frequency of the "Téléo" also ensures maximum efficiency in urban traffic: during rush hours, a cabin departs every 90 seconds, thus ensuring maximum capacity for France's longest ropeway (three kilometers).

Capacity / direction:	2,000 p/h
Length:	3,000 m
Number of stations:	3
Number of towers:	5
Running speed	7.5 m/s



Toulouse / FR



Toulouse / FR



Medellín / CO

FRANCE – RÉUNION – SAINT DENIS

## Commuting with a view of the Indian Ocean

In Saint Denis on Réunion, POMA built the first urban ropeway in the Indian Ocean. On the island, which is a UNESCO World Heritage Site, this sends out an important signal in terms of environmental friendliness on the one hand and careful use of scarce land resources on the other. The ropeway, powered by DirectDrive, is over 2.5 kilometers long and connects Le Chaudron, located east of the city center, via Le Moufia with Bois de Nèfles in the north of the city. The travel time over five stations is only 14 minutes. Its ten cabins offer a capacity of 1,200 people per hour and direction and operate – perfectly integrated into the CITALIS public transport network – 14 hours a day, seven days a week.

Together with two local partners, POMA is responsible for operating the system for a period of five years, which is also intended to trigger new incentives in terms of urban planning and as a tourist attraction.

Capacity / direction:	_____	1,200 p/h
Length:	_____	2,669 m
Number of stations:	_____	5
Number of cabins:	_____	46
Running speed	_____	5 m/s

COLOMBIA – MEDELLÍN

## Ropeway network continues to grow

In Colombia's second largest city, ropeways have been used as a reliable and environmentally friendly means of transport since 2004. What began with the "K Line" is now being continued with the construction of the "P Line". This system, the sixth already, connects around 200,000 people in the northwest of Medellín via four stations over a distance of 2,700 meters. The "P Line" transports up to 4,000 passengers per hour and is thus a strong signal for the expansion of sustainable transport in this metropolis of 2.5 million people. To achieve the greatest possible environmental benefit, the new ropeway was equipped with our gearless DirectDrive system, which significantly reduces both energy consumption and noise pollution. In terms of equipment,

POMA has also optimally prepared the system for intensive city traffic. The "P Line", for example, is the first 12-passenger ropeway in the world to offer ten seats and two standing places in its Diamond cabins, making it the perfect solution for rush hour.

Capacity / direction:	_____	4,000 p/h
Length:	_____	2,656 m
Number of cabins:	_____	130
Number of passengers / cabin:	_____	12
Running speed	_____	5.5 m/s



Saint Denis / RE

# Globally in motion

## FRANCE – VALLANDRY & SUPER VENOSC NEW GENERATION OF ROPEWAYS FOR SKI HOTSPOTS

The French ski resort “Les 2 Alpes” is at the absolute top in terms of altitude, with its ski slopes reaching up to 3,600 meters. As part of the development of an area popular with winter sports enthusiasts and cyclists alike, the new “Super Venosc” ropeway has become a hub for mobility in the region, providing direct and easy access to the Vallée Blanche and Le Pied Moutet. The operators have opted for the latest generation of 10-seater cabins to provide a particularly smooth ride with a magnificent panoramic view. The ropeway is powered by DirectDrive, which offers a number of advantages: lower energy consumption, greater safety and comfort for the operator, and optimum availability of the system with significantly reduced noise pollution.

In the heart of the huge Paradiski ski area, Peisey-Vallandry invested in the expansion of its ropeway infrastructure. A new 10-seat POMA ropeway with a capacity of 3,000 passengers per hour gives the area a modern touch and lays the foundation for comfortable and, above all, fast transportation for a new generation: 75 EVO WIDE 10-seater cabins with individual seats provide ample space, comfort and an elegant design during the six-minute ride. With solar panels on the station coverings and DirectDrive drive technology guaranteeing lower energy consumption and greater acoustic comfort, the “Vallandry” ropeway can rightly claim to be at the cutting edge of eco-friendly technology.



Niseko Hanazono / JP



Vallandry / FR

## JAPAN – NISEKO HANAZONO MODERN SKIING FUN ON HOKKAIDO

POMA returns to Japan with two prestigious systems for the Niseko Hanazono ski resort on the island of Hokkaido: a chairlift with unique technical and aesthetic features and a 10-person ropeway that will also operate during the summer season. The Niseko ski resort is one of the top ski resorts in Asia and is particularly renowned for its snow quality and easy accessibility. With its Symphony cabins and chairs featuring a weather protection hood and seat heating, POMA is presenting two premium products in Japan for the first time, creating the perfect setting for discerning guests. In addition, the six-seater chairlift is the first of its kind in Japan to be equipped with DirectDrive.

## USA – SNOWBASIN EXPERIENCE SNOWBASIN IN A NEW WAY

The Snowbasin Resort near Salt Lake City is one of the oldest and most renowned ski resorts in North America. With its new six-seater “Middle Bowl” chairlift from POMA, the former venue of the 2002 Olympic Games is now setting a strong modernization example. In the future, the system will transport up to 1,800 guests per hour to the Needles Loge area and the Middle Bowl Cirque – and thus to two of the most exciting ski areas in Utah – at an altitude of over 2,600 meters. Replacing a now-obsolete lift, this modern chairlift will provide a safe and comfortable “Snowbasin experience” in the future. The significantly shorter ride time – which will be almost halved compared to previously – will also contribute to this.

**COLOMBIA – PEREIRA  
FLOATING INTO THE CITY CENTER**

In the Colombian city of Pereira, with its more than one million inhabitants, the new “Megacable” ropeway provides an environmentally friendly extension of its public transport system. The ropeway is the city's first line to link the city center, the interregional transport terminal, the university campus and the Villa Santana

district with one another in just 14 minutes. With a length of almost 3.4 kilometers, the “Megacable” is the longest urban ropeway in Colombia and will benefit more than 60,000 people. The ropeway was fitted with innovative, low-noise and efficient DirectDrive drive technology as a sustainable single-cable orbital system.



Ulsan / KR



Pereira / CO

**SOUTH KOREA – ULJIN  
RIVER CROSSING WITH RECORD  
PASSENGER NUMBERS**

In Ulsan, South Korea, at the foothills of the Taebaek Mountains and the coast to the Sea of Japan, POMA built a ropeway that is highly popular with tourists. The ropeway rises 715 meters above the estuary and connects Ulsan Expo Park with the very popular Sunrise Park, which is home to the historic Mang Yang Jeong Pavilion, a highly visited leisure attraction. Since its opening, the ropeway has carried a record number of passengers – up to 4,000 visitors on weekends. Special highlights of the system are the downhill station built on 70-meter-high piles and the cabins with transparent glass floors.

under water for four hours every day. But the “Jebudo Ocean Cable Car” system built by POMA now ensures relaxed sightseeing. The two-kilometer-long, 10-passenger ropeway also impresses with its special equipment details: the cabins – some of which have transparent glass floors – and line structures for instance shine in bright colors at sunset thanks to LED lamps, thus offering viewers a unique light show.

**SOUTH KOREA – JEBUDO  
CROSSING INCLUDING LIGHT SHOW EFFECT**

The South Korean island of Jebudo, known for its “Moses miracle”, was not always easy to reach as a popular tourist destination: After all, as the only connection to the peninsula, the two-lane road is

**CHINA – QIANHU MIAOZHAI BEIMEN  
TOURISM AND TRADITION COMBINED**

The historic village of Xijiang Qianhu in the heart of China is considered a nationally renowned open-air museum showcasing traditional Miao culture. Divided by the Baishui River, this village with its characteristic wooden houses built on stilts along the mountain slopes attracts many visitors. POMA’s “Beimen Miaozhai” ropeway has now added tourist value to the village, which is characterized by its cauldron-shaped topography: thanks to this new system, visitors can travel comfortably and conveniently in one of the 24 cabins from the west gate on the mountain to the north gate in the valley of the village.

**DUBAI & CHINA  
TWO SUPERLATIVE FERRIS WHEELS**

The impressive Ain Dubai observation wheel is located on Bluewaters Island in Dubai, 500 meters from the coast of Dubai Marina. POMA manufactured the 48 cabins for the world's largest observation wheel, which takes visitors to a height of 250 meters and offers breathtaking panoramic views of the city and the bay. Designed and built by the POMA Group, the glass cabins are 30 square meters in size and offer optimum comfort for 40 passengers each. The view can be enjoyed from amazing cabins that can be adapted to the various themes to be discovered, further enhancing the visitor's on-board experience with its luxury cabins for special events, gourmet dinners and capsules designed especially for families on two 38-minute round trips.

This series of cooperations in the Ferris wheel sector is also continuing for POMA in China. As in the neighboring mega-metropolis of Hong Kong, where POMA was involved in the construction of its observation wheel in 2014, the city of Shenzhen can now be admired on board an impressive 130-meter-high Ferris wheel. The 28 cabins, each seven meters long and 4.2 meters in diameter, can accommodate 25 people for a unique experience aboard French-quality cabins. The cabins have been specially designed to withstand the very hot and humid climate, guaranteeing the longevity of the attraction that has become a must-see for millions of tourists.



Ajaccio / FR

# Outlook 2022

FRANCE – AJACCIO

## With “Angelo” through the birthplace of Napoléon

Ajaccio, capital of the island paradise of Corsica and birthplace of Napoléon Bonaparte, has been experiencing enormous population growth as a cultural and economic center for some time now. In order to actively meet the associated challenges in terms of environmentally friendly mobility, the city administration is implementing a real showcase project with its “Angelo” ropeway by 2024. Starting from the Saint-Joseph neighborhood redevelopment project on the seafront, this system built by POMA will connect several major nodes in the city, served by multimodal stations perfectly integrated in their environment. These will also ensure the perfect interaction of the ropeway with the city's bus lines and shuttle boats, making it a central component of a particularly clean, quiet and energy-efficient mobility system. In the future, the three-kilometer link will allow 1,500 people per day to travel comfortably between the new hospital, the university, the sports facilities and the Mezzavia shopping center, as well as the new residential areas. Based on its extensive ropeway expertise, POMA will be entrusted with the operation and maintenance agendas of the new system in Ajaccio for the next ten years.

ARGENTINA – CERRO CATEDRAL

## South America modernizes mega-resort

Cerro Catedral, with its 120 kilometers of slopes, is the largest ski resort in South America. Now POMA, which has already built close to 50 lifts on the continent, is providing another modernization boost at the Argentine mega-resort: by 2023, two stuck chairlifts from 1979 will be replaced, and another lift will open up the ridge at 2,040 meters.

MADAGASKAR – ANTANANARIVO

## Island metropolis goes mobile

In Antananarivo, the capital of Madagascar, the world's fifth largest island, massive population growth has put massive pressure on high-performance mobility systems. In the future, two ropeways from POMA with state-of-the-art 10-seater cabins will provide sustainable transportation over a total length of 13 kilometers. Due to its complex topography, a ropeway is the ideal solution for connecting several city districts, via a total of twelve stations.



Dubai / AE



# Boundlessly innovative



The year 2021 was again marked by constraints related to the COVID-19 pandemic. On the one hand, this led to delays in some important projects, but on the other it also offered an opportunity to accelerate key research and development projects. Outcomes of this activity were, among other things, the 35-tonne cable crane and our new 2S material ropeway, which was derived from passenger transport technology. In addition to constant product innovation, AGUDIO is increasingly being recognized for its combination of performance, reliability and sustainability.

These factors – given the importance too of environmental impact when making investments – are crucial for our ongoing success. In view of this global trend, it becomes clear: AGUDIO material ropeways, cable cranes and Flyingbelts are environmentally friendly solutions with a big future.

# Transporting successfully

## **TURKEY – YUSUFELI CABLE CRANE TRIO OF SUPERLATIVES**

In 2021, AGUDIO's three parallel cable cranes, installed in 2014, successfully completed their deployment in the construction of Turkey's highest dam (and also the third highest in the world). The Yusufeli Dam in the eastern Black Sea region consists of more than five million cubic meters of concrete and will create a total water storage volume of around 2.2 billion cubic meters, generating 1,888 billion kWh of energy annually. The three cable cranes with a span of 560 meters and a lifting capacity of 28 tons were also used "simultaneously" during construction to lift loads of up to 50 tons.

## **BRAZIL – BARROSO FLYINGBELT SERVICE FOR THE LONGEST FLYINGBELT**

The world's longest Flyingbelt from AGUDIO has been in use at the cement plant in Barroso (Brazil) since 2016. After five years, the company carried out extensive maintenance in 2021, which only required usual routine work for wear and tear. At Barroso's plant – designed to the highest standards in terms of environmental compatibility, energy efficiency and CO2 emissions – the Flyingbelt has thus impressively proven itself to be the best solution in terms of low environmental impact, noise, energy consumption, product quality and maintenance costs.



Cravasco / IT



Barroso / BR

## **ITALY – CRAVASCO FLYINGBELT PIONEERING WORK FOR THE ENVIRONMENT**

AGUDIO's Cravasco Flyingbelt is playing a crucial role in the construction of the Terzo Valico dei Giovi high-speed line. This important section of the TEN-T "Rhine-Alps" corridor will reduce travel time on the Genoa-Milan route by 33% and cut CO2 emissions by 55%. Our 300-meter-long Flyingbelt system is be-

ing used to transport the excavated material from the mouth of the tunnel to the storage yard on the opposite side of the valley. This way, up to 800 tons of excavated material per hour can be transported in an environmentally friendly way.

# 2022 outlook

AGUDIO can look back on a positive year in which important maintenance works were carried out and contracts for preliminary technical studies signed. These studies are the prelude to important projects that will be realized in the coming years. The highlight was the conclusion of the contract for the as-

sembly of the first high-performance Flyingbelt with a conveying capacity of 3,000 tons per hour. This will be used in 2022 in Tajikistan on the construction site of the Rogun Dam, the highest dam in the world at 335 meters.

# Conquering the World

*Prinoth*

The year 2021 was a very successful one for PRINOTH, despite the COVID-19 pandemic, which did impact the snow groomer business especially. Sales targets were achieved in every business area; new records were set in two of them. As well as its day-to-day business, PRINOTH added a new member to its family by acquiring the American company Jarraff Industries LLC in October.

In the Snow Groomers business area, there were additional developments in sustainable technologies and important progress was made with the fully electric HUSKY eMOTION. A new generation of the business area's flagship groomers, the LEITWOLF and BISON, were launched in April to major acclaim, replacing their predecessors and providing cleaner engines and upgraded cabs.

With record sales figures and the introduction of Stage V engines across the PANTHER product range, the Tracked Utility Vehicles business unit can look back on another highly successful year. PRINOTH's increased global expansion is helping it gain a global name in its field.

A rising star for the company is Vegetation Management. With record sales, new products and the kick-off for an expansion project to increase production capacity, the stage is set for further growth in 2022.

# Welcome to Jarraff

Based in St. Peter, Minnesota, Jarraff has more than 40 years of experience designing and manufacturing specialist route vegetation management machinery. The market leader in this field, Jarraff builds products that are the safest, fastest, and most profitable solutions for managing vegetation near power lines and

supply routes. Jarraff is a perfect fit – not just strategically, but also culturally. The company works very closely with its customers and responds quickly to their requirements, making it an ideal companion in PRINOTH's agile, customer-focused culture.



## Snow Groomers

The Snow Groomers division can look back very positively on 2021, despite all the obstacles. PRINOTH started the year as Official Supplier to the Alpine World Ski Championships in Cortina, using its vehicles and innovative digital technologies to create piste conditions which garnered much praise. The new generation of its successful LEITWOLF and BISON groomers was then

launched in April. Bristling with new features, PRINOTH's bestsellers are raising the bar further still, especially in terms of performance and efficiency. A lot of research has also been going on in the field of alternative drive systems, and there has been promising progress with the CLEAN MOTION concept vehicles presented in December 2020, which are closing in on series production.



The new generation: PRINOTH Control Unit

## HUSKY eMOTION

## Groomed for the future

PRINOTH ushered in a new piste grooming era in December 2020 by launching its LEITWOLF h<sub>2</sub>MOTION and HUSKY eMOTION concept vehicles. In the year that followed, they continued to push forward with research and development. The company wanted to tune its alternative technologies to challenging operations in all sorts of difficult terrain, so it sent the HUSKY eMOTION on a test tour across Europe in recent months. From the slopes and cross-country trails of Scandinavia, to an

indoor ski slope in the Netherlands, to the high alpine terrain of France's glaciers, the world's lightest all-electric snow groomer impressed customers with its performance and low noise levels. With an extremely successful test phase complete, the company is now confident that the HUSKY eMOTION will be delivered to its first customers as early as the end of 2022, where it is set to produce the usual perfect pistes and cross-country ski trails without any emissions whatsoever.

## LEITWOLF &amp; BISON

## A Clean Generation Change

PRINOTH has given its bestselling LEITWOLF and BISON snow groomers a complete makeover. Both of these successful groomers have been upgraded significantly on the basis of customer feedback, and with a constant focus on the development of ecofriendly and resource-saving technologies. The result is clean, user-friendly snow groomers that have ignited the market

with their best-in-class performance and unrivalled fuel efficiency. In addition to powerful, clean Stage V engines, which reduce emissions to a minimum, a brand new operating concept (PRINOTH Control Unit) with a 12" touchscreen and improved ergonomic joystick are already highly regarded by the industry.



The future has arrived: HUSKY eMOTION

# Tracked Utility Vehicles

Sales of PANTHER vehicles in 2021 set records once again in every vehicle category and in multiple application areas. Infrastructure projects in the US are changing and the power industry is booming, resulting in record numbers of ongoing projects.

2021 did bring some logistical challenges for the Tracked Utility Vehicles division in regard to supply chain, production, and transportation issues. The Canadian team met these situations head-on with professionalism and resilience.



PANTHER T12



PANTHER T7R



PANTHER T14 R

PANTHER

## Next Gen Tracked Dumper

In spring 2021, PRINOTH presented the latest generation of its tracked dumper flagship, the PANTHER T14R. This industry leader sets new standards by improving on the PANTHER's already unbeatable speed and performance and adding new features that increase operating hours and efficiency. PRINOTH presented more of the next generation of its PANTHER tracked dumpers in the fall: the PANTHER T6, T8 and T12, all of which are causing a stir in the market. Each of the three vehicles made the prestigious "Top 100 New Products" list published by Construction Equipment magazine, one of the USA's leading construction industry publications.

PANTHER

## Smart Harvest

When PRINOTH talked to the Bradleys Group in the UK about it becoming a PRINOTH dealer, little did they know just what new types of work it would lead to. Last year, a series of custom-built PANTHER vehicles were used in the UK parsnip and carrot harvest. PRINOTH tracked utility vehicles offer unsurpassed transport capacity combined with minimal soil compaction on account of their extremely low ground pressure. The Bradleys team is highly creative when it comes to how PRINOTH PANTHER vehicles are used. Tru Earthworks, one of the UK's largest earthmoving contractors, worked on an archaeological dig using PRINOTH T14R tracked dumpers, which were perfect for the sensitive ground involved.

# Vegetation Management

PRINOTH Vegetation Management enjoyed swelling order books last year. The M450s-1900 is becoming increasingly popular in the USA, and the new 1600 and 2200 mm working widths are also in growing demand. In addition to traditional mechanical attachments, especially for tractors, the focus has been moving towards hydraulic systems. The M650h with a working width of 2350 mm was developed specifically for the American market.

An expanding product portfolio, rising demand and the resulting need for more production capacity led to the decision to grow the production site at Herdwangen. The foundation stone for this addition was laid in November. Construction work has started and is progressing quickly.



PRINOTH RAPTOR 500 with M700 mulcher



PRINOTH Vegetation Management is growing

RAPTOR 500

## Global Powerhouse

The RAPTOR 500 combined with the M700 mulcher is a guarantee for success. An optimum power-to-weight ratio, flexibility, reliability, efficiency, ease of use and low fuel consumption are just some of the factors driving global interest and sales. Customers in the USA, Belgium,

Germany, and other places around the world don't want to be without the powerhouse that is the RAPTOR 500 when it comes to coping with rough, demanding terrain. Boasting around 440 horsepower, it can deal with toughest mulching and milling tasks with ease.

# Successful technologies



Despite the economically difficult second year of the pandemic, significant successes have been celebrated and new milestones achieved. Through the introduction of new products, DEMACLENKO was able to consolidate its role as a technology leader in the snowmaking sector. In particular, the diversification strategy - that began with the integration of WLP Systems in 2020 - proved to be very successful in 2021. Thanks to the broadly-based sales structure with branches and trading partners around the globe, DEMACLENKO was able to strengthen its market position and forge ahead with internationalization.

New partnerships were successfully made and snowmaking systems were realized worldwide. In addition to numerous contracts in the Alpine region, DEMACLENKO was also convincing in Scandinavia: Comprehensive projects were processed in Sweden, as well as in Norway. Thanks to the branches in the USA and Poland, numerous successes were also achieved on the North American and Central and Eastern European market. The large-scale project in Japan, where a system for the Jigatake ski resort was planned and implemented, is also noteworthy. In Russia, two new ski resorts will be built soon, for which DEMACLENKO has already been awarded the contract for the snowmaking systems.

Not least, prestigious official cooperations, such as with the Österreichischer Ski-verband (ÖSV), the "Hahnenkammrennen" in Kitzbühel and the Fondazione Cortina at the 2021 Skiing World Championships exemplify the reliability and quality of the DEMACLENKO brand.





## PROJECTS 2021

## Generation progress

### INNOVATION LEADER IN SNOWMAKING

In addition to snowmaking at temperatures above freezing point, in 2021, DEMACLENKO once again set another milestone with conventional technical snowmaking. With the new generation EOS 4.0, for example, new top standards have been successfully introduced with lances. The proven model has been comprehensively redesigned and convinces with its energy efficiency and outstanding production quantity. With the fan guns, a particularly low-noise version

of the DEMACLENKO premium product was launched on the market with the Titan 4.0 Silent. The noise reduction predominantly results from the redesigned blower shape with a perforated inner surface and the special shape of the fan blades, the so-called “wing-lets”. Effective immediately, DEMACLENKO is serving an important niche with the Evo 3.0 ATC, with which the benefits of propeller technology can be adapted to the requirements of pure lance systems.

## SNOW4EVER 200

## Snow all year round

One of the highlights of 2021 was the DEMACLENKO Open Day in September. Under strict compliance with the hygiene and safety measures, numerous delegations from national and international ski resorts, as well as representatives from the winter sports industry gathered. The event was met with very strong interest and offered the visitors the opportunity to familiarize themselves with DEMACLENKO's various areas of expertise at close proximity. The event was also the ideal setting

for introducing the latest innovation of the diverse product range: In the outside area, the guests were surprised by Snow4Ever 200, which produced snow at summery temperatures all day long. With this snowmaking system, DEMACLENKO is providing the answer to the demand for high-quality snowmaking above freezing point, with which real technical snow and not just flake ice can be produced – 365 days a year.



### NEW BEGINNINGS IN FUTURE MARKETS WITH WLP SYSTEMS

For many years, WLP Systems has been an international reference brand for dust binding systems, which guarantee a crucial improvement in air quality in specific working environments, such as construction sites, mines, tunnels, coal stores or landfill sites. The company has been integrated into DEMACLENKO since 2020 and thereby expands the product range of the HTI Group with new innovative products, which – similarly to snow guns – are based on the know-how of water atomization. Among other things, the expanded product range also includes solutions for disinfection and firefighting. WLP Systems was able to close the very positive 2021 fiscal year with new record sales. The main market, with one-

third, was accounted for by Italy, while other orders were processed around the world, such as in Great Britain, Russia and Thailand.

Thanks to their versatility, new application fields are constantly opening up for WLP products. In the past year, a project was also realized with an Italian Series A soccer team that uses several WLP machines in its stadium for maintaining the grass areas. Furthermore, the fire-fighting sector is emerging as a promising future market for the company. The newly developed Poseidon extinguishing turbine has already been met with great interest.



Zieleniec / PL



WLP 700

## Outlook 2022

In 2022, the focus will continue to be on internationalization and diversification together with WLP Systems. In addition to the consistent further development and optimization of the existing products, the pioneering role as a technology leader will be expanded further with real innovations. Through the constant search for new approaches, several new innovative projects were initiated

and developed further, which will partly be introduced in 2022. The innovation concept also includes continuously sounding out new business fields and investing in promising future markets. The targeted expansion of a capillary sales structure also goes hand-in-hand with this, in order to better serve the various markets and sustainable growth.

# Driven by Wind Power



International projects successfully completed, several significant new orders in its home country: LEITWIND can look back on a positive and highly promising 2021.

One project particularly close to LEITWIND's heart has been successfully executed amid turquoise waters and white sandy beaches, on the dreamy French Caribbean island of Guadeloupe. A first for LEITWIND, this repowering project comprises a total of six LTW80 1.65 MW Typhoon class wind turbines.

LEITWIND's patented direct drive technology is also becoming increasingly popular in the Land of the Gods. A total of five new LEITWIND LTW80 turbines were installed in Greece in 2021.

But it was in Italy itself where LEITWIND experienced its biggest upswing last year, underlining and reinforcing its market leadership in the 200-1000 kW wind turbine category. New LEITWIND turbines were installed in several different regions, and further Italian orders bode well for the coming years.

# Wind of Success

## ITALY – SUPER-STRONG ON THE HOME MARKET

Over 140 wind turbines have been commissioned in Italy to date, which amounts to slightly more than 150 MW of installed power. Several new LEITWIND turbines were successfully connected to the grid in 2021. The LEITWIND LTW90 is bursting with technical refinements. Due to its large rotor diameter, this wind turbine guarantees outstanding electricity generation, even in areas with medium or low wind speeds. No fewer than

seven of the highly reliable LTW90 were installed in the Basilicata and Puglia regions in 2021.

There was also a significant debut to celebrate on the Italian island of Sardinia, whose first LEITWIND turbine was installed in the summer of 2021. The site for this LTW77 unit (in the 0.95 MW hh65m configuration) is in the municipality of Luras (SS) in the island's north-east.



## INNOVATIVE AND RELIABLE

LEITWIND focuses predominantly on niche markets such as decentralized power generation and re-powering projects, and on constantly developing the modern technology behind the various types of turbine in its product portfolio. In 2021, LEITWIND took some far-sighted steps towards the future, focusing on the evolution of the LTW42 (250 kW and 500 kW). A turbine designed for private generation, its reduced noise output is set to make it even more attractive to businesses and municipalities. LEITWIND devel-

oped and designed rotor blades with a low tip speed. Noise-optimized air foils, splines, and vortex generators are also being considered for the latest projects. LEITWIND has years of experience in service and maintenance. In 2021, the company maintained a total of 183 turbines with a total output of 215 MW. Wind turbines under its management are spread across three continents and 12 countries. A technical availability (TA) of 97% shows how successful 2021 was.

# Outlook 2022

The favorable winds look set to continue this year, and more than ten new turbines are due to be installed in Italy in the first half of the 2022. The LTW90 and LTW42 continue to be market-leading products in the LEITWIND portfolio, and the first LTW42 500 kW will make its debut in the province of Foggia (Puglia) in early 2022. Energy communities make the installation of wind turbines even more accessible and attractive,

because they pass on the benefits of sustainable energy production to all of their members and reward them with significant economic and social advantages. Energy communities are also an important means of combating energy poverty and global warming – goals that the European Union has set itself. LEITWIND is convinced that the combination of energy communities and renewable energy will play a key role in the energy transition.



# Smart Future

skadii

Digital transformation has most certainly arrived, and that goes for ski resorts as well as urban areas. Sustainability and the responsible use of resources are also increasingly hot topics.

SKADII GmbH, which belongs to the HTI group of companies, has developed an open resort management platform that significantly changes the way ski areas are managed. The patented Skadii digital resort management platform gives customers complete, centralized control over their resorts. The entire infrastructure and all of the important data can be managed from one location, with just one account. This makes the resort's processes and workflows more effective, more efficient, and clearer. Functions and data can all be accessed centrally on the platform and are updated in real time. This gives customers an overview of what is happening in their ski area, so they can deploy their workforce effectively. This has made smart decisions easier for over 280 customers worldwide.



**DIGITAL UPGRADE 2021**

As well as successfully re-designing the platform, which is now even simpler and more intuitive to use, work has been ongoing to optimize existing products and develop new ones.

For example: additional features and further improvements have been developed for the digital Skadii Task Manager, the Skadii Maintenance Overview application, and the Skadii Global Map function. The Skadii Task Manager makes it easier to create, distribute, and track different tasks in a ski resort. The Skadii Maintenance Overview application is a digital maintenance tool for entire ski areas. And a real-time view

of all systems, machines, and technical installations is provided by Skadii Global Map. The improved Skadii Meteo App is also of considerable practical benefit, because it delivers precise weather data, which is an important basis for making decisions about managing the resort.

Another new feature is the Skadii Log Book. This is a digital operating record for ropeways and is the easiest way to produce the documentation legally required when running a ropeway. The Skadii mobile app was also successfully launched and is available for Apple and Android users.



Information in real time – any time, any place



Optimized information flow with Skadii

**OPTIMIZED SERVICES 2022**

Optimization and further development work will continue in 2022. New features and applications are under development and will be launched this year. Easier integration of external services is part of this optimization.

When products grow, so do teams: we are appointing additional product managers to provide the best

possible customer support, as well as developers to keep innovating.

Internationalization will be a major factor in 2022, with the American market playing a particularly significant role. That is why SKADII has become part of NSAA in America. A series of trade fair appearances are planned for 2022.

# Committed to the Future

Our group of companies is driven by passion for the mountains and has a special connection with nature. That is why the company's management is keen to preserve these sensitive environments as carefully as possible. The Group can make a valuable contribution to shaping the future.

Taking responsibility for future generations and the environment is not something negotiable. It is the Group's mission. We strive to maintain a balance between our social, environmental, and economic activities for the sake of a sustainable future worth living in. The aim is to be successful in the long term.



# Courage and Energy

## DYNAMISM THROUGH INNOVATION

Our group of companies has always been driven by the spirit of innovation. And because of this deeply rooted value, much is invested in research and development. Our main driving force is our overriding aspiration to be visionary and courageous. The energy sector is responsible for the world's greatest carbon emissions. Energy-related emissions are produced wherever fossil energy sources such as gas,

oil, and coal are converted into electrical or electrical and thermal energy (electricity and heat production). This is why optimizing energy generation is one of our Group's projects. Producing wind turbines is one way we contribute. The turbines operated by the Group can produce around 60,000,000 kWh of electricity each year. This is equivalent to the consumption of roughly 14,750 four-person households.



Photovoltaic system, SK



LTW 42, Schleswig-Holstein / DE

## PRODUCTION IN THE GREEN ZONE

Products are not the only thing that our Group is forward-looking about. We also use innovative solutions at our sites to keep emissions as low as possible. As well as converting to LED lighting at all of our locations, a photovoltaic system was installed on the roof of our production facility in Slovakia in 2021. According to initial estimates, its annual electricity output will be around 350,000 kWh. In order to make the most of this system, working hours have been adjusted to the hours of sunlight, so that the electricity required is generated exclusively by the system. Photovoltaic plant upgrades are also planned at other locations.

**350,000 kWh**  
*of solar power annually*





# Commitment and Responsibility

## LEARNING THE FUTURE

A sense of responsibility towards future generations belongs to the DNA of our Group. POMA took this theme to heart in 2021 and organized a day of fun and educational activities for children with the POMA Foundation. In addition to activities that are organized annually, the aim of this visit was to give the Activity

Book to all of the children. The Foundation's entire team had been working on the book for several months. This educational book is designed to help children understand mobility, the environment, travel, and discovering the world – all of which are our core business themes.

## CLEAN-UP INITIATIVE

As part of last year's European Sustainable Development Week, the POMA Group joined other organizations in the Grenoble region for the #NettoieTonKm initiative and organized large-scale waste collection at its

sites. Around 70 employees helped to clean up sites in Voreppe, Gilly, Veyrins-Thuellin, and Passy. They filled several dozen trash bags – proof that work still needs to be done by raising awareness.



#NettoieTonKm initiative

# A Feel for Progress and Family

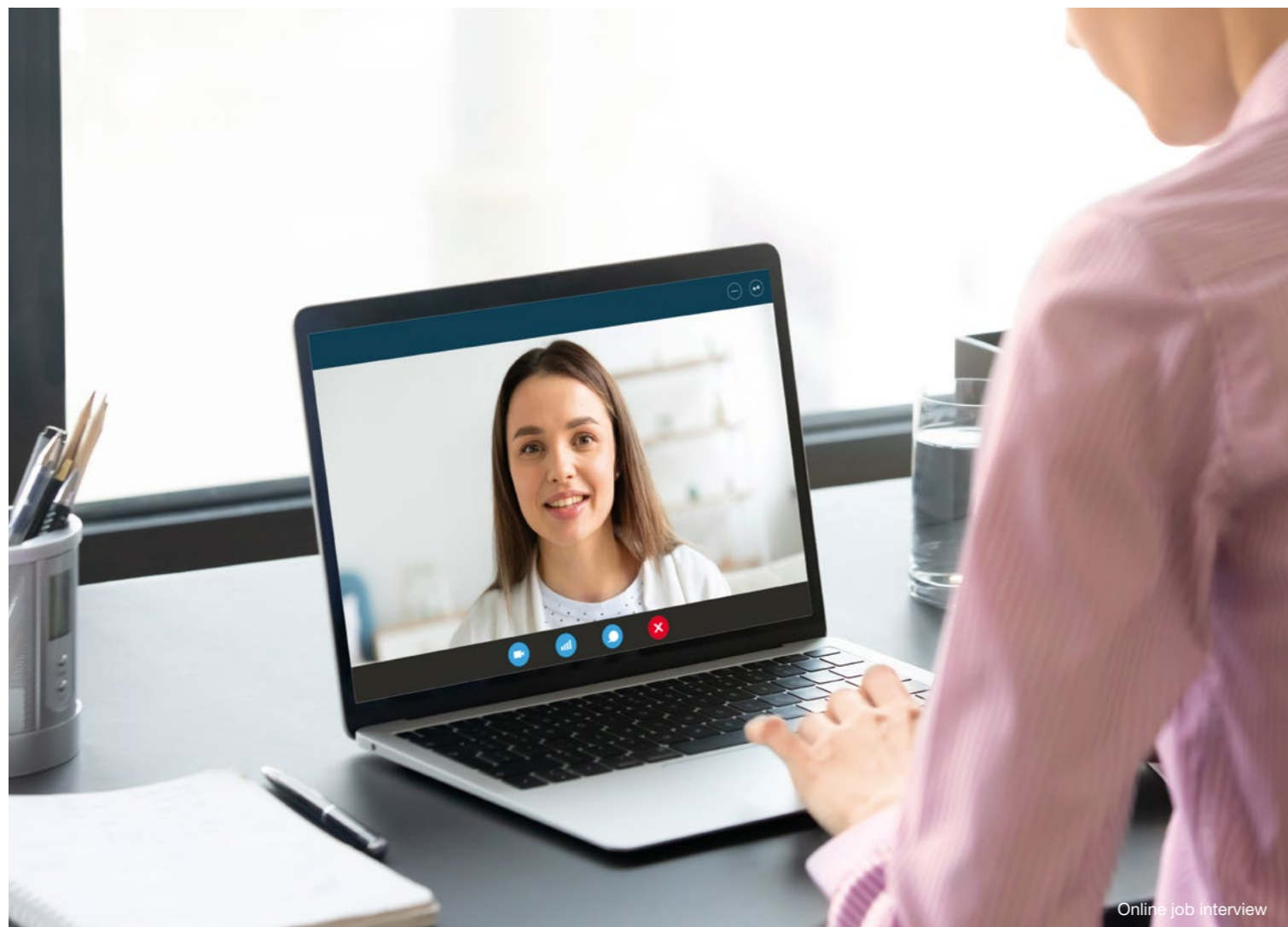
## APPLY WITHOUT TRAVELLING

Another step toward digitalization has been taken in job interviews, and one with positive side effects. Since last year, all of our initial

interviews have been held remotely. Not only does this save time, it also reduces emissions, because applicants don't have to travel.



Family-friendly corporate culture



Online job interview

## FAMILY-FRIENDLY BY PRINCIPLE

Our family-run group of companies is aware of its social responsibility towards its workforce. We have offered family-friendly working hours for a long time and a family-conscious personnel policy is firmly established. LEITNER, PRINOTH, and DEMACLENKO have now been awarded the "Audit familieundberuf" certificate for family-friendly businesses. Benefits employees can enjoy include the temporary option of

remote work, flexible working hours, part-time work, summer care for children, a contact person for integration and family matters, and widespread awareness among executives of the family-related challenges that staff face. Employees with family needs and emergency situations will soon be able to request temporary part-time work in addition to existing part-time arrangements and the expansion of remote work.

# Worldwide production and administration locations



Grenoble / France



Gilly-sur-Isère / France



Montmélián / France



Vipiteno / Italy



Vipiteno / Italy



Passy / France



Vervins / France



Herdwangen / Germany



Vipiteno / Italy



Castelnuovo / Italy



Selva Gardena / Italy



Torino / Italy



Granby / Canada



St. Peter / USA



Grand Junction / USA



Lacedonia / Italy



Stará L'ubovňa / Slovakia



Telfs / Austria



Beijing / China



Chennai / India



Salt Lake City / USA





High-Tech Future of snow Wind of success Future  
green mobility Living res  
High-Tech Future of snow Wind of success Future  
Innovative High-Tech Digitally  
Digitally connected Green mobility Wind of success  
Future of snow Ready for the fu  
Innovative High-Tech **Green mobility**  
Living responsibly  
the future Digitally connected  
snow Green mobility **Ready for the**  
Digitally connected Future of snow  
Wind of success Innovative