

MIENA Carpet News

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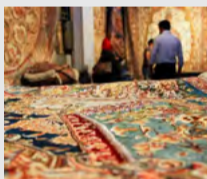
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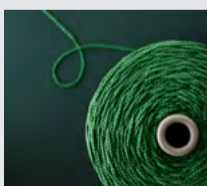
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UK based CAMIRA Print Launches a State-of-the-art Digital Print Technology

CAMIRA Fabrics is a globally leading manufacturer of high quality seating fabrics for bus and coach interior.

Many years of experience with woven, woolen moquette substrates have put CAMIRA FABRICS into leading position for production of transport fabrics. CAMIRA knowhow, paired with the printing technology available with ZIMMER AUSTRIA, has shown promising results from the beginning of this joint development project.

To boost the quality of end-product and to fine tune the needs, CAMIRA has initially invested into a COLARIS.12-1200 laboratory printer together with a post print finishing line from ZIMMER AUSTRIA, allowing them to develop

in a near to production environment, at laboratory scale, printed transport fabrics. An intensive optimization process, including modifications in the raw material and search for the best chemistry has proven that the high standards for transport fabrics can be matched with printed wool moquette substrate.

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Modernizing the visual Identity of Oriental Weavers

Over the past 40 years Oriental-Weavers has expanded and developed from a single loom business, to the world's largest producer of machine woven carpets!

Our vision is to always maintain our position as the world's largest manufacturer of rugs and carpets; bringing fashion, innovation, and value driven rugs and carpets to every room in the world.

Building on that, our corporate strategy for the next 3 years is focusing on modernization, innovation and sustainability. We have redesigned our visual identity through modifying our existing historical logo.

The facelift of the logo modernized the figure of King Tut Ankh Amun, as being a genuine part of Egypt's history and its ancient civilization that reflects the skills, talent and proficiency of the Ancient Egyptian as an artist and producer.

Modernizing the Visual Identity of OW



READY TO SUPPORT YOU

TEXTILE PRINTING



COLARIS Digital Printing Systems can print on almost any fiber-based material.

Through certified ink manufacturers reactive, low and high energy disperse, direct sublimation, acid, VAT Indanthrene and cationic inks are available.

Common end-products are home textile incl. bedding, furnishing, window fashion, terry towel, velour substrates but also knit fabrics in the fashion industry.

FLOOR COVERINGS



The wide range of products such as contract, automotive, promotion, residential or function carpets etc. requires matching of specific fastness properties for each individual product. Accordingly, different inks, print and finishing processes are required.

COLARIS and CHROMOJET technology cover the complete range of textile-based floor coverings incl. wall to wall carpets, rugs, mats and tiles, no matter whether they are produced from PA, PES, CDPEs, PAN, CO, VIS, Sorona,

NARROW FABRICS



Single pass printing at highest efficiency onto a big variety of different substrates.

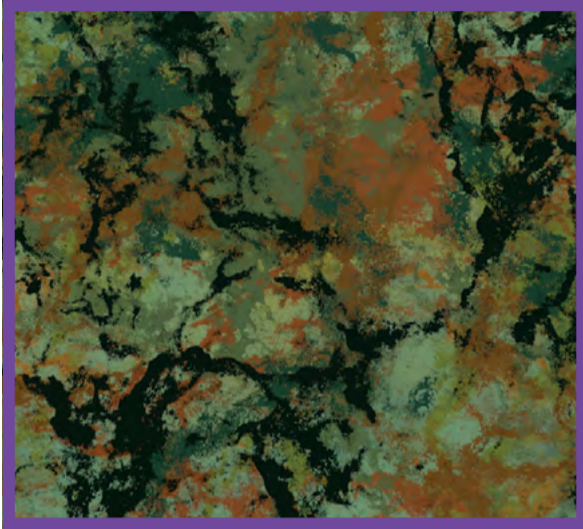
Full range of inks such as acid, sublimation, high energy disperse, automotive grade disperse, pigment and reactive inks is available through various certified suppliers.

COLARIS-NF can be integrated into an existing dyeing range or laid out as a fully integrated production line including inline pre-treatment, post treatment, washing and finishing.

CHALLENGE US

Zimmer
AUSTRIA

TECHNICAL TEXTILES



Functionality fabrics, military applications, automotive textile, sunblind fabrics, umbrellas, awnings, fabrics for flags and banners, camping and different outdoor use such as construction fabric are covered under our Technical Textile business unit.

Mentioned products can be printed either with our valve based CHROMOJET or the piezo based COLARIS or COLARS-NF technology.

SPECIALITIES



Our technologies based on CHROMOJET and COLARIS product lines can also be used for special coatings, conductive printing or may also cover other products

Electro conductive printing, thermophore coatings, security prints, 3D digital manufacturing are just a few applications that are covered

ZIMMER AUSTRIA Digital Printing Systems is the competent partner to your success in printing and finishing of textile-based substrates.

- Developing the idea
- Building the process
- Installing and commissioning the equipment
- Implementing and transferring the process technology and Know-how
- Servicing the production line
- Designing and manufacturing the printer and line components

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By: Omokolade Ajayi



النساجون الشرقيون
ORIENTAL WEAVERS

ORIENTAL WEAVERS OPEN FOUR NEW SALES LOCATIONS IN EGYPT

Oriental Weavers' market capitalization is now valued at \$324.9 million.

Oriental Weavers, an Egyptian carpet producer controlled by leading business executive Yasmine Mohamed Khamis, has announced its intention to open four new sales locations across Egypt.

The move, which is a deliberate effort to complement the group's constant product innovation and increased capacity utilization, will build on the firm's successful route to market strategies as the leading carpet producer expands its reach.

According to Mubasher, the new showrooms will open in Dakahlia's Mansoura, Sheikh Zayed City in Giza, Badr in El-Beheira, and El-Qanater El-Khayreya in Qalyubia.

The opening of new sales branches, in accordance with Oriental Weavers' strategic development goals, is projected to produce value for shareholders by increasing earnings and revenue.

Oriental Weavers, which has manufacturing facilities in three countries, is one of the world's largest manufacturers of machine-made carpets.

It distributes products in around 150 countries worldwide under the

management of Yasmine Mohamed Khamis and other members of the Khamis family, who collectively own a 56.58-percent controlling interest in the top carpet manufacturer.

Due to demand-pull dynamics in the worldwide carpet market, the Egypt-based carpet producer generated its highest-ever revenue of EGP11.4 billion (\$725.2 million) at the end of 2021.

The carpet manufacturer reported a 20-percent increase in revenue from EGP9.48 billion (\$603 million) in 2020 to EGP11.4 billion (\$725.2 million) at the end of 2021, driven by strong growth across all operating segments as a result of the demand-pull dynamics observed in the international carpet market.

As of press time on March 21, shares in the Egyptian carpet manufacturer were trading at EGP8.9 (\$0.4884), 7.75-percent higher than their opening price on the Egyptian Stock Exchange this morning.

Oriental Weavers' market capitalization is now valued at EGP5.92 billion (\$324.9 million), while the Khamis Family's 56.58-percent controlling interest in the leading carpet maker is worth EGP3.35 billion (\$183.9 million).



From Page 1 ...

Based on the findings of CAMIRA laboratory team, ZIMMER AUSTRIA Digital Printing Systems has then engineered the most economic process for bulk production of the samples approved.

Within less than one year from placing of order, the complex CO-

LARIS Digital Inkjet Print Line has been designed, manufactured, delivered, installed, and integrated into CAMIRA production facilities. Thanks to a professional team at CAMIRA site and the experience of teamzimmer the short lead time could be managed, although the pandemic scenario has kept both the customer and ZIMMER under constant tension.





SAURER: CARPETCABLER AND CARPETTWISTER

The CarpetCabler CarpetTwister carpet yarn machine was launched in 1982. With an average market share of 80%, we have become market leaders in all important markets such as the USA, Turkey, Benelux, Central and Eastern Europe and Asian countries within a short

“ “ period of time.



This market position is the result of close cooperation with our customers, who successfully implement BCF industrial yarn processing in a demanding market environment. Our focus is on a high level of machine reliability and short response times to meet market requirements and fulfil customer wishes unerringly.

Energy efficiency, resource preservation and above all climate protection are at the heart of industrial processes. Furthermore, energy prices have become one of the most important cost factors in the manufacturing industry in recent years. That is why our engineers are also focusing on using resources efficiently when developing new machines and systems. We are always continuing to develop our machines.

In our E³ philosophy, we have focused on customer benefit in particular and how to increase it by taking into account the three influencing factors of energy – economy – ergonomics.

E³ – Energy

The direct cabling process is mainly used for processing untwisted parallel filament fibre strands with mul-tifilament. The two yarns are looped

around each other on the cabling machine after being drawn off in the spindle area under the same initial tension, but are not twisted into each other.

The yarn structure that this creates provides an ideal degree of filling in the surface of the carpet. In this respect, producing carpet yarn is an energy-intensive process, as the outer yarn has to be guided around the inner yarn by rotation and results in yarn speeds of 300 to 420 km/h. This is where the energy-saving new development comes in.

The rotating mass of the spindle can be significantly reduced with a smaller size, and efficient drive technology as well as optimised bearings for spindles that rotate at high speeds further reduce the energy requirement. Furthermore, the resulting path of the yarn balloon is determined by precise laser measurements, so the diameter of the yarn bobbins can be accurately adjusted. This results in considerable energy savings of up to 30%. Secondary electrical energy is also saved in a workplace with air conditioning. The energy required for air conditioning is reduced because the cabling machine consumes less energy. For a single cabling machine with 160 spin-

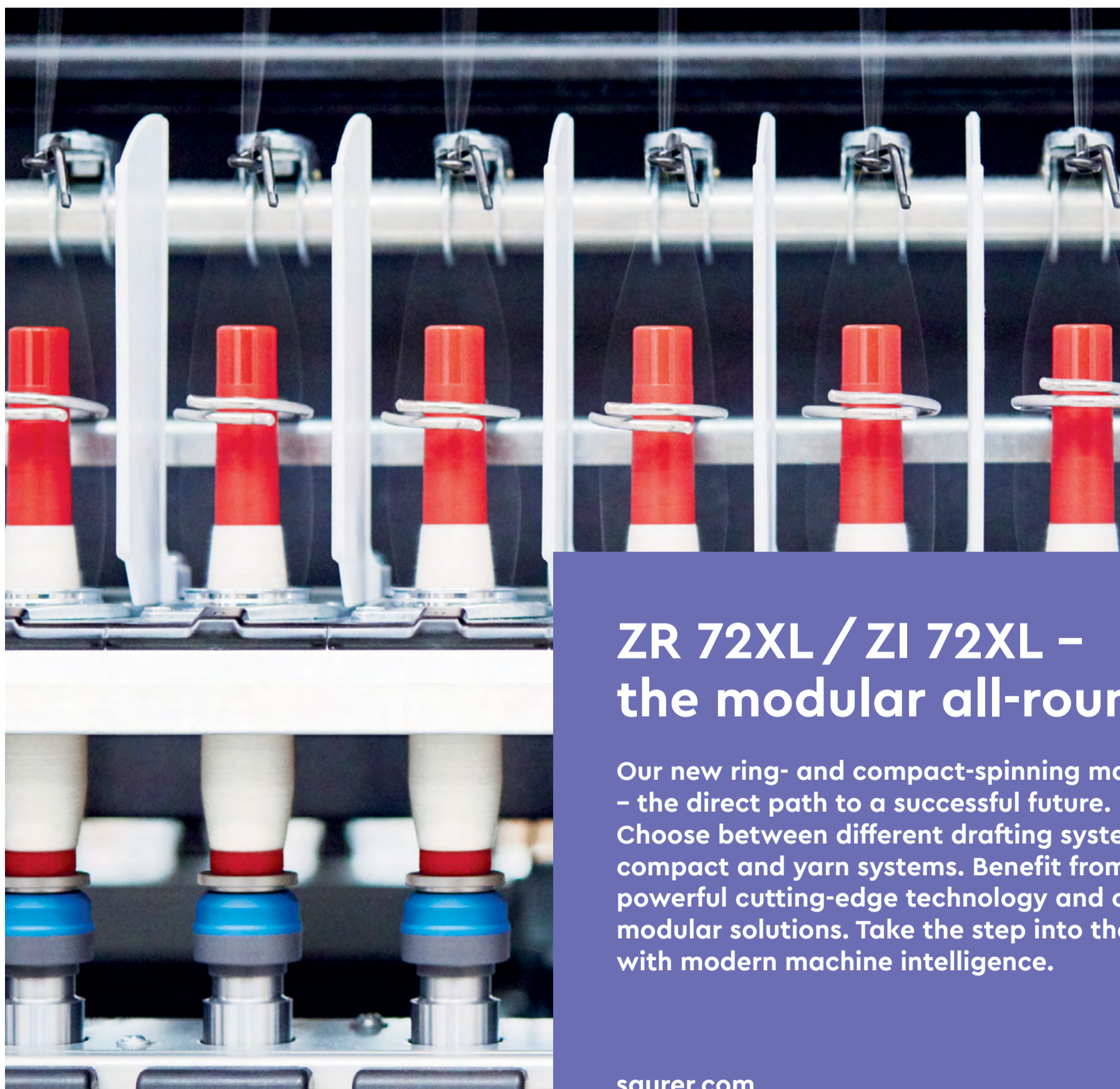
dles, this saves approx. 28 kilowatts per hour or approx. 15 kg of CO₂ per hour, which adds up to an annual reduction in environmental pollution of approx. 100 tonnes of CO₂. Our innovative technology has become the market standard. Our contribution to reducing energy consumption and conserving resources is in the design of machine elements which are optimised from all points of view.

The yarn structure that this creates provides an ideal degree of filling in the surface of the carpet. In this respect, producing carpet yarn is an energy-intensive process, as the outer yarn has to be guided around the inner yarn by rotation and results in yarn speeds of 300 to 420 km/h. This is where the en-

“ “ energy-saving new development comes in.

SAURER.

Create perfect ring yarns.



ZR 72XL / ZI 72XL – the modular all-rounder

Our new ring- and compact-spinning machines – the direct path to a successful future. Choose between different drafting systems, compact and yarn systems. Benefit from the powerful cutting-edge technology and our modular solutions. Take the step into the future with modern machine intelligence.

saurer.com

E³ - Economy

The influencing factor of economy starts right away when installing machines at the customer's premises. The space required by the machine and the way it is installed are important here. We take both factors into account with space saving design and ready-to-install machine sections.

In cabling and twisting, two physical movements must be combined or interlaid. The spindle rotation forms the yarn balloon and the take-up area pulls the strand through the spindle. At the same time, the finished package is wound up in the cradle of the take-up. Central drive units in the machine make these movements.

A drum shaft to evenly distribute the torque over the entire length of the machine is provided as standard to drive the spindle. We also offer optional motor spindles for processing polyester at higher spindle speeds of 7000-8500 rpm. The optimum yarn area to be processed results from the spindle size selected, so this selection is also very important in terms of economy. Of course, the spindles are equipped with high strength ceramic components to guide the strand with as little friction as possible at high speeds. This means that all parameters are considered so that all common materials such as polypropylene, polyester and nylon can be processed without any issues.

Higher spindle speeds result in higher take-up speeds, which means higher stroke rates during yarn laying. The CarpetCabler CarpetTwister can achieve take-up speeds of max. 120 m/min when using the mechanical gearbox or the optional electro-mechanical gearbox.

The computer-controlled machine has the option to monitor and optimise energy consumption and, in a corresponding expansion stage, also to process data of the central machine parameters.



E³ - Ergonomics

This area is concerned with the ease of operation of the machine and also considers aspects of occupational safety, as these two factors are inseparable.

The creel on the machine works with an effective spring system to reduce the force that needs to be applied. Optionally, the creel can also be operated pneumatically, resulting in a significant reduction of the operator's workload.

All other controls are arranged so that the operator can reach them directly from the appropriate operating position. The creelfed yarn is pneumatically guided through the threading tube into the spindle by the Creel-Jet, which saves a lot of time. It also results in particularly short changeover times when creating a new batch.

The machine elements ensure that it is easy to use and consider the safety of the machine operator to the highest degree. Covers in the take-up area as well as in the oscillating yarn laying area prevent the operator from reaching in.

The quality of the yarn that is produced is our core focus and forms the expectations and prerequisites of our customers around the world.

This is where the cycle of the customer benefit closes with measurable economic success in the production of BCF yarns. We are only satisfied with high-quality packages because we know that our customers trust us and expect it.

And there are even more highlights of our CarpetCabler CarpetTwister. Our global service network offers a quick and effective supply of original parts and our inspection service provides effective on-site advice for technical issues. This adds even more value to help our customers succeed.

We are always continuing to optimise our machines and applications. Our market success is confirmation that we reliably and precisely meet the expectations of our customers around the world. Although the Covid-19 pandemic has significantly limited face-to-face encounters in recent years, we are still cooperating directly with our clients. We are looking forward to meeting them again at trade fairs that we hope will take place again soon. We would be delighted to introduce you to our products.

Our comprehensive yarn processing solutions are a testament to our heritage, history and textile expertise which we are very proud of.

Eltex *eye*

End-out detection for carpet and grass tufting



ELTEX

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Carpet Manufacturer

WE WILL MAKE THE BIGGEST INVESTMENT IN **TURKEY**

Erdemoglu Group is one of the giants of the Turkish industry. Group companies Merinos and Dinarsu, which are the leaders in the world's piece carpet production by far and have a market share of 6 percent in the world, will increase their global market share to 7 percent with the investments to be completed as of 2023. SASA, one of the group companies, Turkey's leading polyester producer, on the other hand, continues to grow in double-digit terms in terms of both turnover and exports.

Ibrahim Erdemoglu, Chairman of the Board of Directors of Erdemoglu Holding, which grew by 120 percent on TL basis and 50 percent on dollar basis by the end of 2021, reaching 22 billion TL in turnover, did not suspend his investment agenda despite the inflationary environment.

He even increased the budget of the petrochemical plant investment planned in Yumurtalik from 13 billion dollars to 20 billion dollars for a 10 year projection. Erdemoglu said, "There is also a base

effect of foreign currency in our growth, but our real growth rate is also quite high.

Our investments and production increases have a significant impact on this growth. Given that we will grow at the same pace in 2022, I predict that we will reach 45 billion TL in turnover." Erdemoglu also reveals with figures that the group doubles its turnover on a dollar basis every 10 years and says, "Our Investments continue all the time. We do not invest what we earn from companies to other areas, we invest it in our own business. This investment in Yumurtalik will be the biggest investment that Turkey has made,". Erdemoglu Holding Chairman of the Board of Directors, Ibrahim Erdemoglu answered questions as follows:

How did the pandemic go for the Erdemoglu Group?

In the early days of the pandemic, there was a 1.5 -2 month shutdown across the country. We shut down all our businesses except SASA. At SASA, we also produce fiber raw materials for the

By the end of 2021, Erdemoglu Holding has grown by 120 percent on TL basis and 50 percent on dollar basis, reaching 22 billion TL in turnover.

Erdemoglu Holding Chairman IBRAHIM ERDEMOGLU did not suspend his investment agenda



despite the inflationary environment.

health sector. At that time SASA had to operate. We were producing the raw material of the health care industry in hygiene materials. We did not leave any company in Turkey or even in Europe without raw materials. The demand for fiber increased a lot because fiber was used in face coverings. After 1.5 months of shut down, there was an incredible increase in demand from all over the world.

Our carpet factories and other sectors have also returned to full capacity operation.

By the end of 2021, Erdemoglu Holding has grown by 120 percent on TL basis and 50 percent on dollar basis, reaching 22 billion TL in turnover. Erdemoglu Holding Chairman IBRAHIM ERDEMOGLU did not suspend his investment agenda despite the inflationary environment.

He even increased the budget of the petrochemical plant investment planned in Yumurtalik from 13 billion dollars to 20 billion dollars for a 10-year projection. Erdemoglu said, "We will reach 45 billion TL in turnover by the end of 2022. This investment in Yumurtalik will be the biggest investment that has made in Turkey,".

Why and how did the demand for carpet increase?

When people stay at home, they see the needs and deficiencies of the house and get into the psychology of buying it. A pickup started in the carpet industry. We experienced a great demand especially from America and Europe. At that time, we were working at full capacity. We did not experience any problems in terms of production, financing, growth or investment during the pandemic period. On the contrary, we continued our investments.

What is your production capacity in carpet?

While our Merinos and Dinarsu brands are by far the leaders in the production of piece carpets and have a 6 percent market share in the world, they will reach a 7 percent market share as of 2023 with the investments we are making. Our monthly production capacity is about 10 million square meters.

What was your turnover at the end of 2021 and how was your growth rhythm in the last few years? What is your turnover target in 2022?



Our group turnover in 2020 is 10 billion TL. In 2021, we reached 22 billion TL in turnover. Foreign exchange rate also has a base effect, but our real growth is also quite high. Our investments and production increases have a significant impact on this growth. Considering that we will grow at the same pace in 2022, I predict that it will be 45 billion TL.

We have an ongoing investment of 2 billion dollars that will be completed in 2023. By this way, we will have made an investment of 3 billion dollars by the end of 2023 after acquiring SASA. We produce



polyester, polyester fiber, polyester yarn.

We do not invest what we earn from companies to other areas, we invest in our own business, as investments continue. We do not even make our private expenditures from company revenues.

"WE ARE LOOKING AT REAL GROWTH"

We monitor the course of company functions by looking at EBITDA, trade-financial indebtedness and cash flow balance. With the rapid increase in inflation and accompanying exchange rates, the

pursuit of quantitative turnover growth instead of monetary turnover has gained more importance for our group.

FOREIGN EXCHANGE POSITION

In this period, when inflation and exchange rates tend to increase, the export figures of our group companies are high, and foreign currency sales have a significant share in domestic sales.

The fact that most of our input costs are in foreign currency and our intensified foreign currency-based investment expenditures have increased the importance of foreign currency position, inventory turnover and long-term ECA loans for us.

How is the situation in dollars?

If you deduct the dollar increase, our annual growth rate is not below 50 percent.

Where does the biggest contribution to growth come from?

All of our companies continue to grow within themselves. Here, the biggest growth comes from SASA as a percentage. For example, while the turnover rate of SASA within the group was 66 percent in 2021, it has now increased to 70 percent. Previously, this rate was below 50 percent.

At what stage are your investments in recent years?

We took over SASA in 2015 and started investing in 2016. We invested 1 billion dollars in SASA until 2020.

We have an ongoing investment of 2 billion dollars that will be completed in 2023. By this way, we will have made an investment of 3 billion dollars by the end of 2023 after acquiring SASA. We produce polyester, polyester fiber, polyester yarn.

For now, we have started to invest in the raw materials we need. In the first half of next year, we will produce PTA, the raw material of polyester. We will produce 1.6 million tons of PTA annually.

I'm talking about a huge investment. As of this year, Turkey's imported PTA amounted to 1.6 million tons. In 2023, we will produce all of this at SASA. Turkey will no longer import PTA. The cost of this investment will be 1.1 billion dollars.

Were other investments for increased capacity?





Yes, and it was new technology. When we bought SASA, its technology was obsolete. The latest technology investment in SASA was made in 1995. We are closing old lines and installing new ones to compete on a world scale.

We equip SASA with the latest technology. SASA is a production facility that represents Industry 4.0T and even a little beyond.

We follow a growth-oriented strategy with investments in automation, modernization and integration in our industrial companies. We invest in business lines that will increase our market share at home and abroad, have strategic importance for our country, increase employment and contribute to closing the current account deficit.

Is it possible to export PTA?

If our land acquisition transaction in Yumurtalik is finalized, we will establish the second PTA facility in the petrochemical facility that we will realize there. There will be a new facility with a capacity of 1.6 million tons.

Turkey's polyester investments also continue. In the next 3 years, Turkey's need for more than 1 million tons of PTA investment will arise. PTA is main raw material of polyester yarn fiber. It will replace 1.5 billion dollars of imports at approximately current prices.

You had a very large petrochemical plant investment plan in Yumurtalik. The land was in the allocation stage. At what stage is your investment plan?

The Privatization Authority opened the tender for about the 4 million square meter area of the

state owned land. The tender will take place at the end of March. In the plan here, the investment will be realized in 2 phases.

When the land transaction is completed, we will immediately make an investment of 4 billion dollars within this year. After that, we will start the refinery investment. This investment will be the biggest investment that Turkey has made,".

Our investment amount in approximately 12 years will reach 20 billion dollars. Earlier, we announced an investment amount of 13 billion dollars, now we have expanded the project a little more. These investments will be completed 10-12 years from today.

Will raw materials be produced for different sectors in this petrochemical plant?

As of last year, Turkey's imports in the chemical sector, that is, in the raw materials sector, were approximately 18 billion dollars.

We estimate that this will reach up to \$25 billion by 2032, it could be even higher. Thanks to this investment we will make in Yumurtalik, we will produce 50 percent of the raw materials Turkey imports for petrochemicals. This is why, the Yumurtalik project will be one of the most important projects in Turkey. It is very important to provide 50 percent of a very important imported input from within the country.

How do high inflation and fluctuating exchange rates affect the financial process and your investments?

All of our sales at SASA are based on foreign currency. Therefore, we are not affected that much by the economic conjuncture. We export 90 per-

cent of our carpet companies' production. In that sense, we are not affected that much. Here's what we're affected by: The rise in Turkey's CDS and the weakening of its credibility caused loan rates to rise. But we continue on our way because we always think "what can we do today".

How much of your investments do you make with equity?

Our earnings stay within the company. We will finance some of the investments with foreign banks and some with our profitability.

We don't have any problems. We have a philosophy that we learned from our late father. Nothing is ours. We only have responsibilities. We have a responsibility to our employees, suppliers, dealers, city, country and world.

When you have a perspective within the framework of this responsibility, solving problems becomes much easier. That is the essence of the struggle. We are a group that truly adheres to and implements this philosophy. All of our friends share the same philosophy. In this philosophy, we say goodbye to friends who are not team players.

Where does the new competition come from today?

When we consider the last 20-30 years, technology in the world is changing very fast. Every company needs to keep up with this change, this development. Our industrialists have to bring whatever the technology of the day is, they cannot be successful if they do not. The new competition comes from technology.

We are a company that always uses the latest technology, whatever it is. We renew our machines and our business before the car we ride. Because it's that business that makes us sit in that car.

I would like to get your vision for the carpet industry. How do you see the place of Turkey's carpet industry in total production in the world, and how do you see the future?

In the field of machine-made carpets, Turkey currently has 50 percent of the world's production. Gaziantep is the China of the world for machine made carpets. China cannot compete with us.



“ We estimate that this will reach up to \$25 billion by 2032, it could be even higher. Thanks to this investment we will make in Yumurtalik, we will produce 50 percent of the raw materials Turkey imports for petrochemicals.

Let me say it so clearly.

All of our friends in Gaziantep are on work. They all follow technology naturally. They can point us as an example and pioneer, it is true. Turkey is the world's leading country in the carpet industry today, and it will continue to be the leading country 50 years later.

What is the secret of success? Was it like this 20 years ago?

We had one domestic carpet loom. Its current value is \$10,000. It wasn't expensive. As we count it 10, 20, we increased the number of looms. After 1990, I started participating to carpet fairs abroad. At that time, I saw that the carpet market in the world was in the hands of the Belgians. They had a market share of nearly 50 percent. Turkey's exports were almost non-existent.

Carpet is our culture. We said, "How can the Belgians become a world ruler in a product that is our culture?" and we set sail. We started to invest in technology and we did it step by step, whatever the necessity of being the best in the world. After we did it, we brought all our industrialist friends in Gaziantep and showed us around our factory. We said "make these investments, because the world is going here" and we became a pioneer for them. Merinos served as a school at that time.

What are the numbers in carpet exports?

As Merinos and Dinarsu, we have an export of 450 million dollars. As a country, we exported more than 3 billion dollars. Carpet weaving is the industry that we export the most to America. Turkey exports approximately 8 billion dollars to the USA, of which 1 billion dollars is made by the carpet industry.

You export to more than 100 countries. How are the balances changing in exports? What are your observations?



America and Europe have some remain at bay strategies regarding China. This was very favorable for Turkey as a conjuncture.

This is one of the main reasons why our exports are increased. We anticipate that exports will continue to increase in the upcoming period. We think that production in Turkey will increase, and Turkey's nearby geography will become a supply chain center. Our country must produce the main raw materials required for this, and we, as SASA, do this.

How much was the group export in 2021? What will it be in 2022?

Our exports last year were 850 million dollars, 400 of which came from SASA and 450 million dollars from carpets. If major fluctuations and other crises do not occur in the world in 2022, we estimate our total exports to be at least 1 billion 100 million dollars.

When we look at the first 2 months, our exports increased by 50 percent in dollars compared to the first 2 months of last year. This pace will likely continue. We speak modestly. We can reach \$1.2 billion. Compared to the first 2 months of last year, the increase in exports of SASA is 92 percent.

Then, 2022 is the year of growth for you.

Every year we have the year of growth, we do not stop.

What are the goals of the Erdemoglu Group in the next 5-10 years?

Let me give you an example from the past if you want. Our turnover in 1983 was 250 thousand dollars. It was \$2.5 million in 1991 and \$25 million in 2001. Our turnover reached 250 million dollars in 2011 and 2.5 billion dollars in 2021. This chart tells you a lot. Our plans are not short-term.



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Efforts underway to register Kashan as World City of **Traditional Textile**

The city of Kashan in the central province of Isfahan was introduced to World Crafts Council as a candidate for recognition as the World City of Traditional Textile, said the head of the city's Cultural Heritage, Tourism and Handicrafts Department.



Speaking in an exclusive interview to Iran Daily, Mehran Sarmadian said that that textile production has a long history in Kashan and a large number of workshops are active in the city.

"Kashan was selected as the National City of Traditional Textile in 2018," he noted.

Sarmadian said that the discovery of woven fabrics in Sialk Hills of Kashan indicates that the history of Kashan's textile industry dates back to fourth millennium BCE.

He praised the artisans involved in production of various handicrafts in Kashan and said that 60 National Seal of Excellence and 16 international awards were presented to the handicraft artists of the city since March 2019.

He said that women of Kashan, in addition to doing housework, have been involved in the economic activities since ancient times, adding their contribution can still be seen in both the old and new sections of the city.

The official continued although a change in the lifestyle has led to a reduction in the number of women involving in production

of homemade crafts, many females are still active in the carpet weaving, embroidery, pottery and traditional jewelry workshops of Kashan.

The official said that more than 1,000 artists are working in the handicraft sector of the city, adding 70 types of handicrafts are being produced in the city.

"Given that handwoven carpets are produced under the supervision of the Ministry of Industry, Mine and Trade, the females employed in carpet-weaving workshops are not counted among the artists covered by Kashan's Cultural Heritage, Tourism and Handicrafts Department.

"Hundreds of carpet-weaving looms are presently in use throughout the city", the official pointed out.

Sarmadian went on to say that the most important handicrafts of Kashan are pottery, seven-color tiles, moaraq (inlaid) tiles, copper crafts, shar bafi (weaving handmade fabric from silk), zari bafi (brocade weaving), makhmal bafi (velvet weaving), kilim weaving, giveh bafi (weaving a kind of soft, com-

fortable handwoven-top shoe), qalamzani (a type of metalworking art), traditional designing, moaraq kari (wood inlaying), monabat kari (wood carving), woodturning and making traditional musical instruments.

He said that yazdi bandi (a kind of interior dome decoration), traditional plastering, mirrorwork and brickwork are among the arts related to architecture in Kashan.

The official stated that a large number of the architectural crafts can be used in numerous historical buildings, which are under restoration in Kashan.

He added that handmade leather products, carved precious stones and traditional garments are among other handicrafts produced mostly by women in Kashan.

"Most handicrafts of Kashan are either sold to domestic and foreign tourists or manufactured as custom-made products for galleries located in various parts of the country.



SAUDI MINISTRY FURNISHES BIGGEST MOSQUE IN THE BALKANS WITH FANCY CARPET

The mosque with an area of more than 5,000 square meters is one of the biggest civil projects in the Balkans

In view of the severe situation of the COVID19 pandemic and The Saudi Ministry of Islamic Affairs, Call and Guidance completed a project to furnish the mosque at King Fahd bin Abdulaziz Islamic Cultural Center in Sarajevo, the capital city of Bosnia and Herzegovina. The mosque with an area of more than 5,000 square meters is one of the biggest civil projects in the Balkans.

Religious Attache at the Saudi Embassy in Bosnia and Herzegovina Amer bin Banwan Al-Onzi stressed that this project was part of the care and interest of the wise leadership to provide mosques with their needs, especially mosques attached to Islamic centers across the world, which are visited by thousands of worshippers and represent a global Islamic front in minority countries.

He noted that the project covered the entire mosque and its facilities with a fancy type of carpet that can resist fire and decay. The carpet was made of fancy wool.

Al-Onzi expressed his gratitude and appreciation to Minister Dr. Abdullatif Al Al-Sheikh who supervises and follows up on work in the center and this project, as per the directives of Saudi Arabia's wise leadership that attaches special attention to mosques.



NOTICE OF POSTPONEMENT: **DOMOTEX ASIA/** **CHINAFLOOR 2022**

In view of the severe situation of the COVID19 pandemic and the further tightening of prevention and control in Shanghai and in many other provinces in China, and in accordance with the government's local requirements in order to protect the health and safety of all show participants, as well as to ensure the best participation results for all parties involved, please be informed that the 24th DOMOTEX asia/CHINAFLOOR originally scheduled to be held at the National Exhibition and Convention Center (Shanghai) from 25-27 May, 2022 will be postponed.

We are paying close attention to current developments and are monitoring the situation and will be announcing the new dates and other details in the following days.

Thank you for your support and participation at DOMOTEX asia/CHINAFLOOR over the past years.

Despite the recent postponement, DOMOTEX asia/CHINAFLOOR, will continue offering various business services, such as business match-makings, digital marketing promotional products, networking opportunities and many more, in order to support the industry and trade during these challenging times.

We sincerely apologize for the inconvenience caused by the postponement of the exhibition and we look forward to reuniting with you in a healthy and safe environment very soon.

WORLD PREVIEW OF
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42nd India Carpet Expo 2022 Asia's Biggest Carpet Expo Concludes with a Benchmark to Attain the Target Set by Government of India for 2022-23

257 overseas carpet buyers from 48 Countries and 280 Buying Representatives/ Buying Houses Registered their presence in India Carpet Expo 2022

The 42nd India Carpet Expo concluded with a large number of visitors turning out on the last day of the 4-day long mega expo. Carpet Export Promotion Council organized the 42nd Edition of India Carpet Expo from 25th to 28th March 2022 at NSIC Exhibition Ground, Okhla, New Delhi, with an aim to promote the Cultural Heritage and showcase the weaving skills of Indian hand-knotted carpet artisans amongst the overseas buyers.

The Curtain Raiser of India Carpet Expo was held on 24th March 2022 by Shri U.P. Singh, IAS, Secretary (Textiles), Ministry of Textiles, Government of India, in the august presence Shri Shantmanu, IAS, Development Commissioner (Handicrafts) and Mr. Umer Hameed, Chairman, CEPC, S/ Shri Aslam Mahboob, Darpan Baranwal, Imtiaz Ahmad, Mohammad Wasif Ansari, Rohit Gupta, Gulam Nabi Bhat, Sheikh Ashiq Ahmad, Bodh Raj Malhotra, Mahavir Pratap Sharma Members COA, CEPC, Shri Umesh Kumar Gupta, past COA member CEPC, other Senior Officials, and Exhibitors.

257 Carpet importers mainly from Argentina, Australia, Azerbaijan, Bangladesh, Belgium, Brazil, Canada, Costa Rica, Croatia, Denmark, Egypt,

Finland, France, Germany, Ghana, Guatemala, Indonesia, Iran, Israel, Italy, Japan, Jordan, Kenya, Kyrgyzstan, Lithuania, Mauritius, Mexico, Nepal, Netherlands, Palestine, Poland, Portugal, Qatar, Romania, Russia, Singapore, Slovakia, South Africa, Spain, Sri Lanka, Sweden, Switzerland, Thailand, Tunisia, Turkey, U.A.E., U.K., U.S.A. and 280 Buying Representatives registered their presence in the Mega Expo.

Joe Hinson, a buyer from the US said that this is his first time in India. "The expo was amazing and the products were really made of superior quality handmade materials. We see great business opportunity with the Indian products in near future as demands for rich Indian Craftsmanship is having a great demand amongst American Buyers."

Another buyer from UK Angel Lackrin visited the ICE 2022 runs a chain of stores where he sells mostly Indian handmade Carpets said, "India Carpet Expo 2022 gave us a great opportunity to meet Carpet Manufacturers across India under one roof. It saved my precious time, energy and money too which I would have otherwise done to meet them individually. The arrangements were world class and I personally want to thank CEPC for making this show such a productive and prof-

itable one after 2 years of Corona. I am looking forward eagerly to participate in next Expo."

Mr. Umer Hameed, Chairman, CEPC, in his concluding remarks, said, "It was never easy to take the challenge of conducting such a big event when war had already started between Russia and Ukraine. We worked out from our data the number of buyers who can miss the show and put our foot down to go for it."

He further said that "Someone had to take the initiative to start so why not us. This show will take our industry a milestone ahead and give them business for the whole year. As we have to fulfil the target set for our industry for year 2022-23, we have taken our steps to move ahead to fulfil the same."

This expo opened up new market opportunities for the industry and shall help Small and Medium Indian carpet exporters promote their products to overseas countries. Eventually, this is an ongoing process, on a broader scale and is instrumental in projecting "Make in India Brand" in overseas markets.

Shri Hameed also conveyed his thanks to the Hon'ble Prime Minister Shri Modi ji. Our Hon'ble Textile Minister Shri Piyush Goyal ji. Our Hon'ble Secretary Textile Shri U.P. Singh Ji, Shri B.V.R. Subrahmanyam, Secretary Commerce, Shri Shantmanu ji, Development Commissioner (Handicrafts) for their support for this Expo.

Shri Umer Hameed also conveyed thanks to all the Indian Embassies who eased in providing visas to our overseas buyers to enable them to visit our show.

Shri Umer Hameed also conveyed thanks to all the members of the COA for their support and all the Officials and Staff of the Carpet Export Promotion Council for their untiring effort to make the event a grand success.

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HOW TO UNDERSTAND AN EPD AND WORK AROUND ITS PITFALLS



By Dorthe Aaboe Kallestrup

Through my work as Global CSR Lead in Ege Carpets, I hear questions about Environmental Product Declarations (EPDs) all the time. It's clear to me that it's a rather difficult tool to work with. In this article I explain the concept of EPDs and the complexity of its nature. EPDs are not just black and white. There are pitfalls to navigate around, but once you get the grip of it, you'll most likely find EPDs to be a brilliant tool in your building and design projects.

In fact, EPDs seem to be the answer to everything now. Everybody wants them! The demand for EPDs is increasing at such speed, that the companies developing the EPDs can't keep up. It's become quite a bottleneck.

Since EPDs can be an important tool for Architects, Designers and Specifiers, I've asked an EPD expert, Linda Hoibye, to give her professional advice on how to work with them. But first, let's get to the bottom of the case.

EPDs explained: What's the fuss about?

An EPD is kind of equal to the food declaration you find on the packaging of your everyday food. The EPD shows you what kind of product you're looking at, what the ingredients are, and the environmental footprint related to the product.

The great thing about EPDs is that they give Architects, Designers, Engineers, Interior Designers and Specifiers tangible documentation to compare the environmental impacts of different products within the same product group.

EPDs in short

- EPDs are based on international standards (e.g. ISO 14025) and a European standard (EN15804)
- EPDs consider the full Life Cycle Assessments (LCA) of goods and services
- EPDs contain verified environmental information
- EPDs are based on a transparent and open framework
- EPDs give comparable information within the same product group if there's a Product Category Rule for the product group.

A one-to-one comparison; that's great, right?

It's not as simple as it sounds

First of all, EPD's are very complex to calculate – and therefore difficult to understand. Secondly, EPDs are only comparable if the same lifecycle scenarios are chosen for the products being compared. Let me explain:

A product's life cycle is comprised of five stages.

Stage 1: Production of the product

This covers the manufacturing itself, but also extraction of raw materials, collection, and processing of these.

Stage 2: Construction phase

For building materials, the construction phase, where the product is installed in the building, also counts.

Stage 3: Use phase

After installation, monitoring the product being used for a period of time.

Stage 4: End-of-life

After use, the product is reused, recycled or disposed of.

Stage 5: Beginning of a new life cycle

If the product or product components are recycled or reused, the last stage in the life cycle is the first stage in a new product's life cycle.

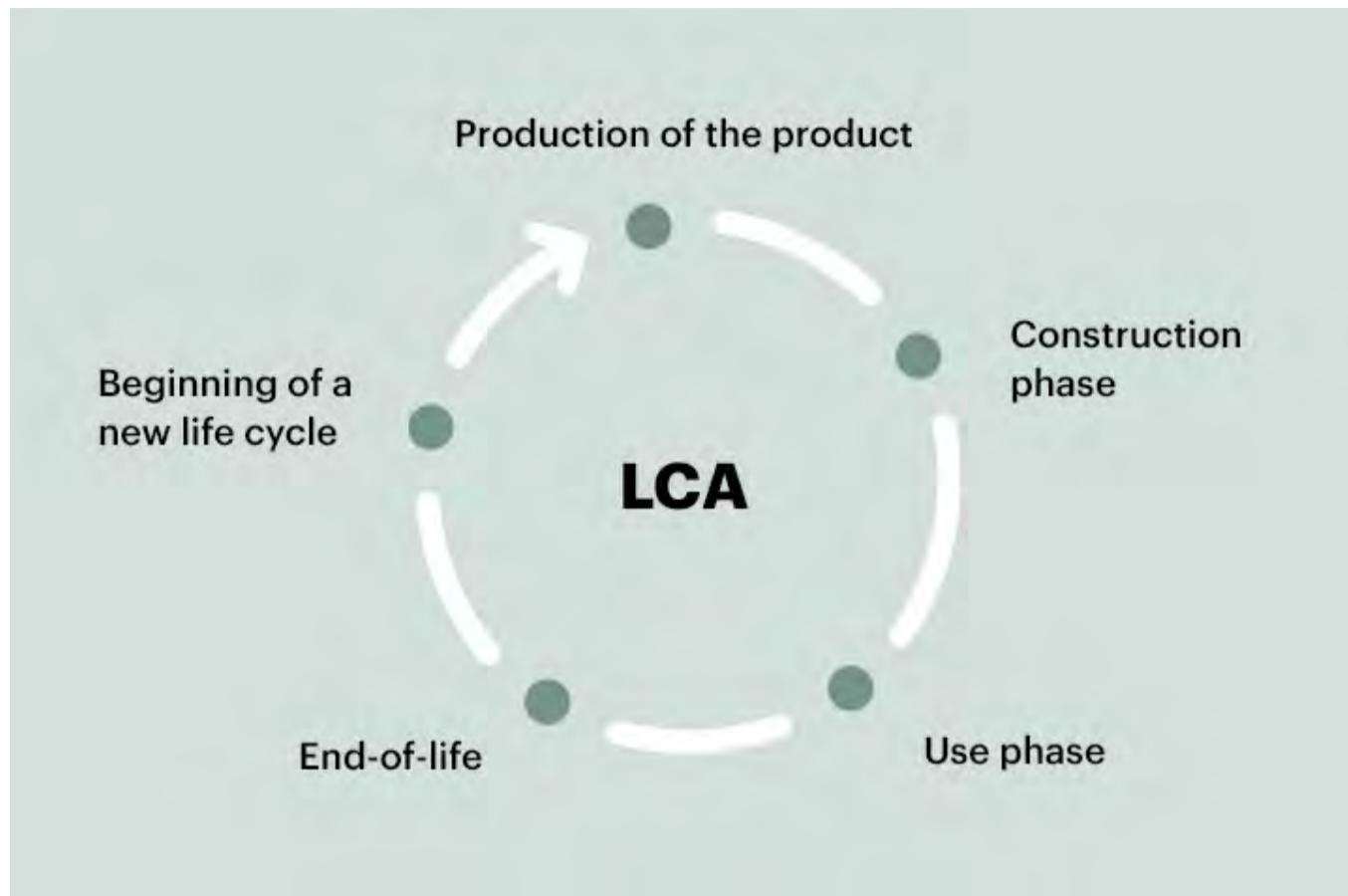
Extremely important to be aware of the chosen system boundaries

System boundaries define how much or little of the product's life cycle is considered as part of the assessment. There are many different ways

Architects and designers can benefit in numerous ways by using EPDs in projects. One example is the DGNB certification scheme where EPDs can give extra points

– Linda Hoibye, expert within Life Cycle Assessments (LCA) and approved EPD Verifier





Don't focus solely on greenhouse gasses – the other impact categories can be just as important.

– Linda Hoibye, expert within Life Cycle Assessments (LCA) and approved EPD Verifier



that system boundaries can be defined for the life cycle assessment. Two of the most common ways to look at system boundaries for the life cycle assessment are: cradle-to-gate and cradle-to-grave.

The cradle-to-gate life cycle assessment only presents the results from the production stage, while the cradle-to-grave lifecycle assessment represents production, construction, use and end-of-life. This means there are significant differences between these two overall system boundaries.

To be able to compare products, you need to make sure the same system boundary is applied to the products. It makes no sense to compare an EPD from a product that is cradle-to-gate assessed with a product that's cradle-to-grave assessed.

However, even within two cradle-to-grave life cycle assessments there might be differences in how the specific system boundaries have been set by the LCA consultant. So be aware and make sure you read the information on the specific system boundaries in the EPD before applying LCA results.

The chosen end-of-life scenario has great impact too

But that's not the only thing you need to pay attention to. You also need to understand that the product manufacturer can choose between different end-of-life scenarios when the assessment is made – and that choice has tremendous impact on the final outcome of the life cycle assessment.

Products that are reused or recycled in the end-of-life stage typically have a significantly smaller environmental impact than products that are incinerated after use. That makes it very attractive for manufactures to choose recycling as the end-of-life scenario.

Of course, this is only possible if the manufacturer has evidence that recycling takes place, but there's no rule saying it should happen every time. This means that if there's a recycling system in place, the manufacturer can choose recycling as end-of-life scenario – even though most products do not get recycled in real life.

That leaves a potential false impression of the real environmental impact from the product at the end-of-life stage. So, the EPD verifier should

check to ensure that recycling is the real deal. A valid comparison demands understanding of the reality of the situation; is the product really being recycled at the end-of-life stage, or is it incinerated like most waste today?

Confused? Let's get some advice from a real EPD expert

I agree; it's all very confusing. That's why I've asked Linda Hoibye to give her best advice about EPDs. Linda Hoibye is an expert within Life Cycle Assessments and also an approved EPD Verifier in EPD Denmark, EPD Norway and EPD International. Linda Hoibye has 20 years of experience and has her own company, Life Cycle Assessment Consultancy.

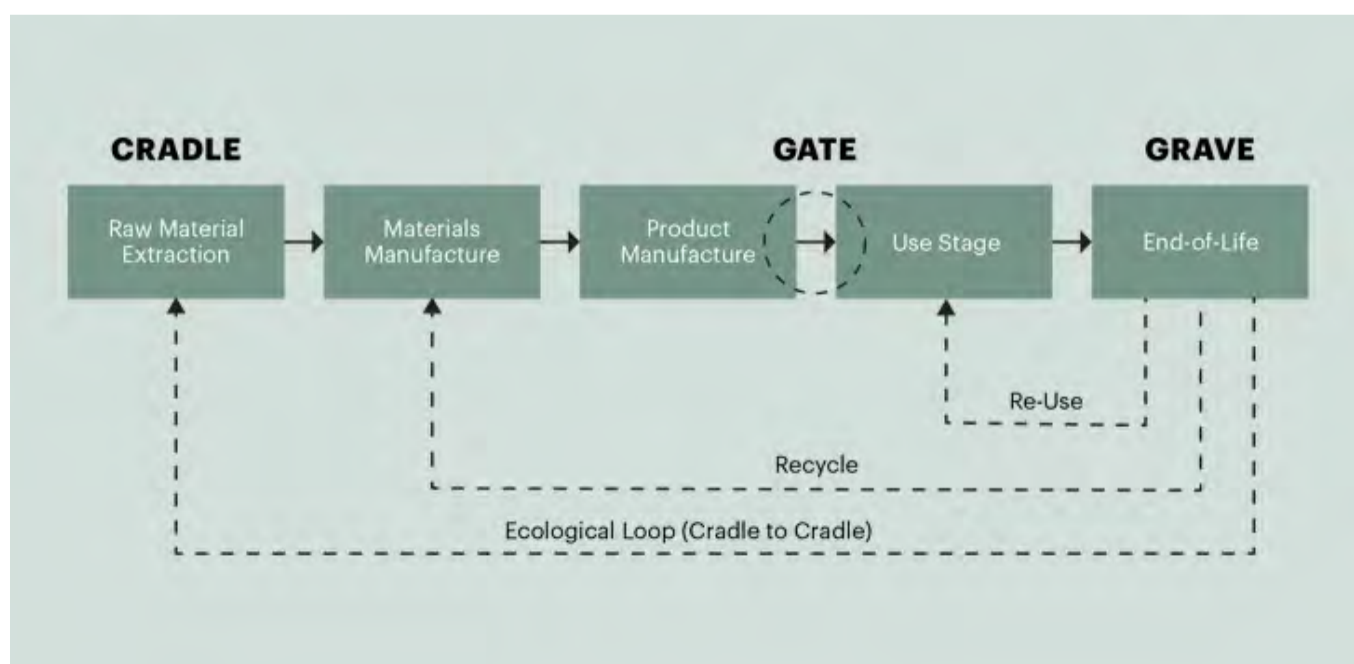
Why should architects and interior designers use EPDs in their projects?

Linda Hoibye states that architects, designers and specifiers can benefit in numerous ways by using EPDs in their projects. "One example is the DGNB certification scheme where EPDs can give extra points. Also, the EPDs are used in the LCA-calculations for assessing the potential environmental impact from a building".

According to Linda Hoibye, the EPD provides information on many different things. "The focus in the EPD can vary depending on the reason for using the LCA. It can be the share of recycled material, the end-of-life possibilities for recycling, the absence of hazardous substances in the product, the carbon footprint etc.

"It's also important to look for the main assumptions applied when developing the EPD, as these assumptions can affect the results significantly", she explains.

But how can you know if the assumptions are correct; for example, the end-of life scenario chosen? "The main assumptions about the scenarios



applied must be included in the EPD. So, the user of the EPD must check if the applied end-of-life scenario matches the actual situation where the product is disposed of.", Linda Hoibye says. "I recommend EPD end users to do the following:

Check if the EPD is third party verified (look under "General information")

Read the EPD to make sure the described assumptions match the actual use of the product.

Don't focus solely on greenhouse gasses – the other impact categories can be just as important. And finally, my fourth and last recommendation is to be very careful when comparing EPDs. EPDs can only be compared if they're developed using the same Product Category Rules (PCR) for the specific product group. Comparisons are very difficult if the generic background data applied in the calculations aren't the same."

A big thank you to Linda Hoibye for teaching us a little more about EPDs!



EPD resume

EPDs are really complex to work with. It's a jungle of information and data analysis that takes in-depth knowledge to understand. My best advice is to spend time learning how to use EPDs. You'll get wiser the more time you invest in trying to understand! And if a story sounds too good to be true, do yourself a favour and ask for more information, especially about the system boundaries or chosen end-of-life scenario. If you still don't get it, there are plenty of experts and consultants available who can help.

Remember, EPDs can be a one-to-one comparison of similar products. If they're used the right way, they're a tremendously important tool to help choose the right solutions for your specific building project.



Sustainable concept for wood-based textile fibres

The 2022 Marcus Wallenberg Prize is awarded to Professor Ilkka Kilpelainen and Professor Herbert Sixta for the development and use of novel ionic liquids to process wood biomass into high-performance textile fibres.

The future demand for textile fibres is growing due to global population growth. Production of cotton, the predominantly used cellulose fibre for textiles, is not expected to keep up with the demand. Therefore, man-made cellulose fibres would be an excellent complement for cotton as these fibres have similar properties.

The main processes to produce man-made cellulose textile fibres are the viscose process, where cellulose is solubilized using alkali and carbon disulphide and the Lyocell process, where N-methylmorpholine-N-oxide (NMMO) is used to dissolve cellulose. The viscose process has, however, become environmentally controversial due to the use of toxic carbon disulphide

as the main reagent. The Lyocell process on the other hand is hampered by the instability of the NMMO.

These challenges have led to extensive research on different solvent systems for cellulose to produce regenerated cellulose fibres. Ionic liquids have gained interest as green alternatives for organic solvents in different processes. Ionic liquids are salts that can be melted below 100°C and have unique properties including low vapour pressure, high thermal stability, and high dissolving capability of different organic and inorganic substances.

Man-made cellulose fibres from wood with high technical quality have been developed by two research teams in Finland, at the University of Helsinki and at the Aalto University. In this concept, the design and use of novel superbase ionic liquids to process wood pulp into high-performance textile fibres was developed and currently tested for scaling-up.

The team led by Prof. Kilpelainen at the University of Helsinki developed superbase ionic liquid solvents for dissolution of wood biomass e.g. bleached or unbleached pulp or recycled cellulose pulp. Prof. Sixta and his team, at the Aalto University, developed the ionic liquid-based fibre shaping process based on dry-jet wet spinning.

"This unique collaboration has resulted in novel sustainable concept of textile fibre production from wood. The innovation is expected to result in a large range of new product and business opportunities for the forest industry", says Johanna Buchert, Chairperson of the Marcus Wallenberg Prize Selection Committee.

The Marcus Wallenberg Prize 2022 will be presented by HM the King of Sweden to Professor Ilkka Kilpelainen and Professor Herbert Sixta at a ceremony in Stockholm in October this year.

2022 Coverings Installation & Design Award Winners Announced

Coverings (coverings.com), the preeminent event for the ceramic tile and natural stone industry in North America, has bestowed Coverings Installation & Design (CID) Awards for 15 tile and stone projects that showcase distinction in creativity, ingenuity and technical achievement. The 2022 award recipients were honored during an awards ceremony and reception, which took place April 5 in the Coverings Lounge at Coverings 2022. The winning projects are also on display in Central Hall, Booth C6613, at the Las Vegas Convention Center through April 8.

The annual CID Awards program provides an opportunity for designers, architects, builders, installers, and others in the tile and

stone industry to demonstrate their creative design projects and superior installation craftsmanship.







This year's award winners were recognized and celebrated for their outstanding accomplishments in the design and installation of tile and stone for residential and commercial projects. The awarded projects showcase highly distinctive tile and stone applications, involving tile and stone execution, original usage of materials, and overall design and purpose.

"Awarding the winning projects is one of the most exciting highlights at Coverings each year, and we are extremely proud of the winners as well as all of the designers and

installers who entered the competition for 2022," said Jennifer Hoff, president of Tafy Event Strategies, the show management company for Coverings. "All of the project submissions clearly illustrate the strong level of dedication and innovation within the tile and stone industry."

Projects were judged by a panel of editors and industry leaders who evaluated the project submissions in terms of seven categorical designations. The categories included Commercial Tile Design, Residential Stone Design, Residential Tile Design, Commercial Stone Installation, Commercial Tile Installation, Residential Stone Installation, and Residential Tile Installation.

2022 CID Award Winners: Design

<h3>Commercial Tile Design – Hospitality</h3> <p>Beachcombers Restaurant & Wet Whistle Poolside Bar LHK design</p> 	<h3>Commercial Tile Design - Multi-Family</h3> <p>SOLAIA Condos Doni Douglas + Skyline Development Group</p> 	<h3>Residential Stone Design - Large Budget</h3> <p>Onyx Oasis SOURCE</p> 
<h3>Residential Stone Design - Small Budget</h3> <p>Simply Striped SOURCE</p> 	<h3>Residential Tile Design - Whole Project</h3> <p>Casa Mancusi Mancusi Design, LLC</p> 	<h3>Residential Tile Design – Bathroom</h3> <p>Retreat from Reality Tbektu Design + Development, LLC</p> 

2022 CID Award Winners: Installation

Commercial Stone Installation

Minneapolis Public Service Building
Grazzini Brothers & Company



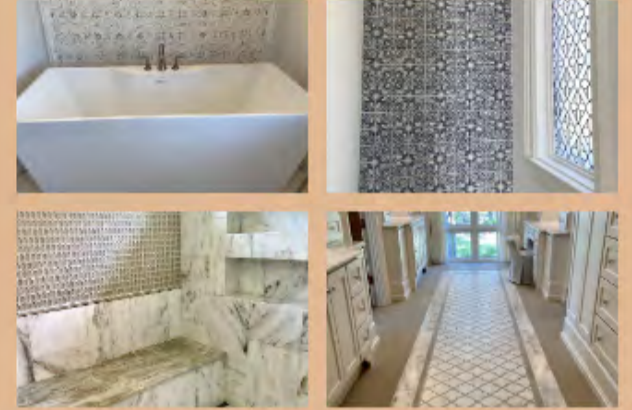
Commercial Tile Installation

7900 Wisconsin Avenue
David Allen Company



Residential Stone Installation

Visually Stunning Villa
Cox Tile, Inc.



Residential Tile Installation

Copenhagen at Home
On The Level Flooring



2022 CID Award: Special Recognition

International

PARATY Tapas Bar
Studio Muyelena



Artistic Installation

Woodland Path
Cox Tile, Inc.



Artistic Use of Tile

Natural Florida
Cherie Bosela of Luna Mosaic Arts



Innovative Use of Tile

Steppenwolf Theater
Cooperativa Ceramica d'Imola North America



International

Utopian Rationale: Blessing, Doubles
CARMINE ABATE ARCHITETTO



Projects receiving special recognition were awarded within four categorical destinations, including Artistic Use of Tile, Innovative Use of Tile, Artistic Installation, and International.

The CID Awards are sponsored by TileLetter, TILE Magazine and Contemporary Stone & Tile Design Magazine.

The CID Awards judging panel included Chris Abbate, Novita Communications; Bart Bettiga, NTCA; Scott Carothers, CTEF; Kristin Coleman, Novita Communications; Lori Dolnick, Frank Advertising; Kelly Doyle, Frank Advertising; James McClister, PRODUCTS magazine/Custom Builder magazine; Kathy Meyer, TCNA; Jennifer Quail, HOME+ by aspire; Jennifer Richinelli, BNP Media/Stone World; Nyle Wadford, Neuse Tile; James Woelfel, Artcraft Granite, Marble and Tile Co.



Guide to the Best **Artificial Grass** Companies and Brands in Belgium

There are many companies in Belgium who manufacture and supply artificial grass throughout Europe. Most of the companies are expressed not only in the design and production of artificial turf, but also in the service that they offer to their customers.

Below is a list of companies that provide the most complete range of artificial grass products with the highest quality standards and service on the market.

FEELDS ARTIFICIAL GRASS

Site: feelds.eu/en



Feelds, a Belgian manufacturer of premium artificial grass, is known for its high-quality products. Feelds boasts over ten years of experience in the field. They are focused on providing high-quality grasses that you can order through their partners. They work closely with their partners to ensure the best grass for each application. Considering the grass's feel, maintenance ease, natural appearance, and easy installation is important.

Feelds used their knowledge to create a range of high-quality artificial turf for the garden, terrace, or sports field. You can think of us as the partner that makes the best choice for you. All of their products can be ordered in standard sizes, or cut to exact specifications.

Main products:

Balcony or terrace: A green, natural-looking artificial turf can transform a balcony/terrace.

For garden and patio, they have the right artificial grass product for you.

Sports and games: Feelds paid extra attention to the strength of the artificial turf for Sports & Games.

DOGRASS

Site: www.do-grass.com/en-be



DOgrass is an expert in artificial grass manufacturing and can guarantee that its products offer an excellent alternative to natural lawns. Artificial grass is made from high-quality materials. They are durable and UV-stabilized, withstand extreme weather conditions and have had high usage for many years. Their products are all expertly made and offer a variety of high-quality artificial lawn products at affordable prices.

Their European synthetic turf range has endless applications. You can use it for sports, gardens, balconies, terraces or terraces, and pool surrounds or indoors.

ORYZON GRASS

Site: oryzongrass.com/en



Oryzon® is a brand of Beaulieu International Group.

They offer an extensive range of artificial grass products under the Oryzon(r) brand. They offer artificial grass that is soft, resilient, and true to nature for those who want to replicate the natural look of grass.

Additionally, they have a trendy, fire-resistant range of artificial grass. This grass is a must-have product for indoor and outdoor events. The entire portfolio was designed, engineered, and manufactured in Europe.

Oryzon(r), together with Turfgrass(r), is one of the most appealing artificial grass product lines in Europe.

TURFGRASS

Site: www.turfgrass.net



Turfgrass® is another brand of Beaulieu International Group.

They are European innovators with extensive experience in the design, production, and distribution of artificial grass around the globe. They use the best materials to ensure you get a high-quality product at a reasonable price.

Turfgrass' entire product range is engineered, designed and manufactured in Europe. The entire Turfgrass product line is produced under one roof. They are independent of non-European suppliers.

In their top-of-the-line yarn extrusion plant, they even make their yarns. They can control every stage of the manufacturing process and provide the best quality and most innovative materials available.

Turfgrass has a wide range of products with various natural-looking designs that customers can use for landscaping or other sports. We can also customize your artificial grass.

Main products:

Landscaping grass

Sports grass

BULKING & HEAT SETTING MACHINE FOR CARPET YARN

Lowest Energy And Steam Consumption

MEERA BAH

Continuous Bulking & Heat Setting Machine for Carpet Yarn
Polyester | PP | PA | PET | Acrylic | Wool

For Supersoft High Bulk Polyester Yarn
For Carpets & Bathmats



High Bulk Yarn Manufacturing Process



Dope Dyed Textured Yarn

Cabling

Bulking & Heat Setting

Supersoft High Bulk Polyester Yarn



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