

# ARGUS

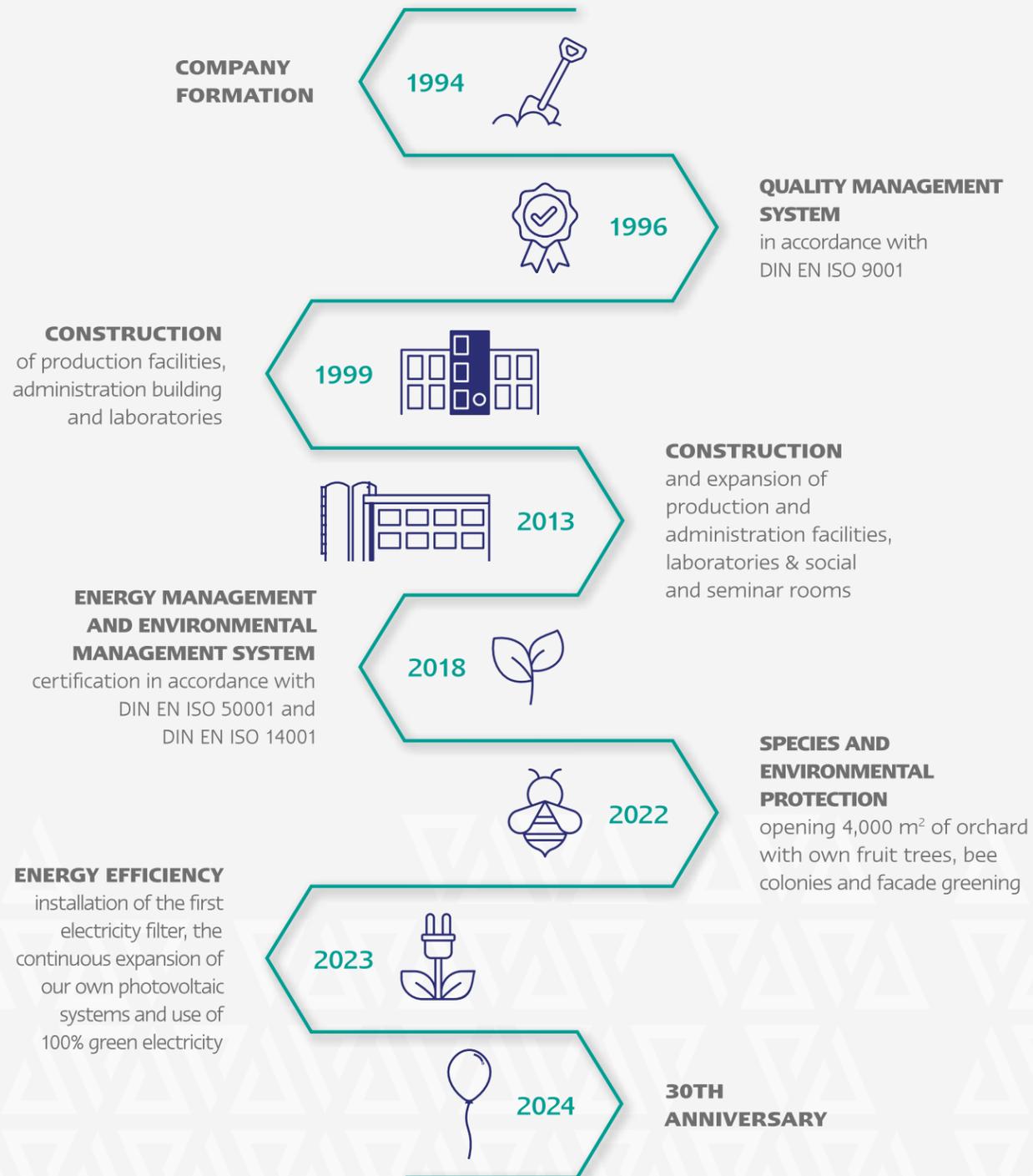
WE ARE MASTERBATCHES

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# ARGUS -

MASTERBATCHES SINCE 1994



- MOTIVATION
- SPIRIT
- INNOVATION
- CHANCES

**FOUNDED** in 1994, the renowned family business ARGUS has remained true to its principles for more than 30 years: to continuously produce forward-looking masterbatches with innovative methods that set the highest quality standards both at national and international level. Sustainably. And sustainably successful.

Our customers describe us as reliable and proficient. That's a challenge we've set ourselves. Not just with regard to our customers, but also with regard to our employees. And we constantly strive to keep up our image. We see ourselves as independent and flexible problem solvers for the challenges on the plastics market of today and in the future.

By communicating openly and with utmost transparency and by handling orders quickly and efficiently, we have worked hard to gain the trust of our customers, suppliers, and partners. And rightly so.

**OVER** the past years, we expanded and modernised our facilities considerably, optimised processes, and managed our operations more efficiently. Not just to achieve better results faster, but above all to minimise our ecological footprint.

In our lab facilities and technical centre, for example, we test compounds before they enter production to ensure that we supply our customers with high-quality products and to reduce subsequent corrections and loss of material.

All this would not be possible without the help of our highly skilled employees. They are family to us. They are the heart and soul of our business. They bring our ideas to life. And we'd like to take the opportunity here and now to thank them for everything they do.

# PHILOSOPHY

## PLASTIC IN PERFECTION

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**PLASTIC** is an integral part of our lives. In all its manifestations. Plastic is great. It's recyclable. It's trendsetting and it's indispensable in so many ways – we simply cannot do without plastic. Once processed, you may find it in greenhouse film, industry and food packaging, artificial turf, cars, home accessories, toys... basically everywhere!

Plastic is incredibly diverse, thanks to our ARGUS masterbatches and compounds (on the basis of PE, PP, PA, PS, PET, and EVA, amongst others), enriched with selected and high-quality additives and colours. We make plastic UV resistant and thermostable, flame resistant, or antistatic. In addition, combination batches, i.e., synergistic combinations of additives and/or colours, provide alternative properties, opening up completely new technological territory. In modern buildings and

state-of-the-art facilities, we ensure that our production processes remain efficient and sustainable. Here in Büren, we constantly develop new formulations so we can continue to improve our results.

Let's take a look behind the scenes of our production: We shrink BOPP films and increase the thermal stability of non-woven fabrics. We take care that packaging becomes more visually appealing, and we give artificial turf its green colour. We make sure there's UV protection in your greenhouse and a high flammability resistance in your building.

We are masterbatches.  
Welcome to ARGUS.



## MASTERBATCHES

### MADE IN BUEREN, GERMANY

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**ARGUS** is conveniently situated in the Eastern part of North Rhine-Westphalia. The easy access to Paderborn Airport and the motorways 33 and 44 is a great advantage.

#### COMPANY PRINCIPLES



**ARGUS** gears its activities towards universally held ethical values and principles, in particular integrity, righteousness and human dignity.

ARGUS undertakes to ensure the protection of health and safety at work, as well as a sustainable environmental protection and a responsible handling of natural resources.

By signing the Code of Conduct of the German General Association of the Plastics Processing Industry (GKV), ARGUS committed to comply with international standards such as the UN Charter of Human Rights, beyond the compliance of applicable laws. This Code of Conduct is the basis of our daily business.

# ADDITIVE

## ADDING VALUE TO PLASTICS

**BEFORE** plastics can be used by our customers, we add tailored additives in order to provide our masterbatches with the desired properties. In customer-specific formulations. In renowned ARGUS quality.



### LIGHT STABILIZERS

#### ARGUVIN

Light stabilizers from sterically hindered amines and/or UV absorbers for various applications and polymer types to prevent ageing, yellowing and embrittlement and to protect characteristic performance and material properties.

### ANTIOXIDANTS

#### ARGUTHERM

Slow down the oxidative degradation of polymers and improve the thermal stability. Long-term heat and processing stabilizers (or combinations of these) protect plastics during processing and in the final application.

### BOPP-MASTERBATCHES

#### ARGUBOPP

Different single and combination batches from e.g. additives or fillers provide BOPP films with the desired properties or open up new technological possibilities for applications with promising potentials.

### ADDITIVE COMBINATIONS

#### ARGUCOM

The combination of various groups of additives in a batch increases profitability. Optionally, you can also combine colours with different additives. Customized formulations are possible.

### ANTIFOGGING AGENTS

#### ARGUFOG

Antifogging agents prevent the formation of water drips on the surface of packaging and agricultural films. The surface remains largely transparent.

### ANTIBLOCKING AGENTS

#### ARGUBLOCK

Create a micro-rough surface on e.g. films and thus a paper-thin air layer as a separation layer when putting the films on each other. This reduces the adhesion of a material to itself or other materials and improves slippage.

### UV/IR ABSORBERS

#### ARGUSORB

Various additives, which absorb special radiation and reflect and act as radiant barriers that use special wavelengths.

### ANTISTATIC AGENTS

#### ARGUSTAT

Prevent and reduce the electrostatic charge of plastics.

### FILLERS

#### ARGUFILL

Fillers define the mechanical properties to improve the material.

### HIGHTECH-MASTERBATCHES

#### ARGUTECH

- Anti-laminate
- Fiber-finishing agents
- Bio-degradable and compostable
- Tackifier
- Scents and flavours

- Drying agents
- Electrets
- Melt modifiers
- Hydrolysis protection
- Hydrophilics
- Hydrophobics
- Laser sensitizers
- Metal deactivators
- Optical brighteners

- Permanent antistatics
- Products conform to Pharmacopeia standards
- Acid inhibitors
- Impact resistant modifiers
- Special compounds
- Foaming agent
- Antimicrobial

### PROCESSING AIDS

#### ARGUMELT

Improve the extrusion properties of the polymer melt (extrusion aid, rheology improver) and reduce the deposits on the extruder surface and on the nozzle.

### SLIP AGENTS

#### ARGUSLIP

Internal slip agents improve the rheology of the melt. External slip agents increase the smoothness and the surface gloss of the end product, reduce friction and improve the flow properties of the melt.

### NUCLEATING AGENTS

#### ARGUNUC

Are used to accelerate the crystallization of plastics for more transparency and stiffness, to reduce the cycle time and to create uniform fine foam structures.

### COLOUR MASTERBATCHES

#### ARGUCOLOR

Masterbatches for the colouring of a wide range of plastic products.

### FLAME RETARDANTS

#### ARGUFLAME

Halogenated or halogen-free combinations of additives reduce or prevent the flammability or combustion of plastics by intervening either physically or chemically in the combustion mechanism. They help comply with national and international fire standards.

### CLEANING AGENTS

#### ARGUCLEAN

Compounds for cleaning the extruder and tools when material and colour are changed as well as for machine shutdown.

# MASTERBATCHES

## FOR YOUR APPLICATIONS

OUR additive and colour masterbatches fulfill highest quality standards. They find application in different areas in everyday life and in many cases they are unique in their use.

### FILMS

- Bags
- Agricultural films
- Packaging films
- Mono films
- Multilayer films
- Coex films
- Protection films
- Construction films
- Cast films
- Coatings



### PIPES

- Protection pipes
- Corrugated pipes
- Waste pipes
- Blank casing
- Composed pipes
- Cross-linked pipes: PEX



### FIBERS / NON WOVEN

- Agricultural
- Medical
- Geo
- Filters
- Roofing sheets



### BOARDS AND PROFILES

- Profiles
- Twin-wall sheet



### MONO AND MULTIFILAMENTS / TAPES

- Knitted fabrics
- Nets
- Ropes
- Textiles
- Yarns
- Belts
- Big Bags
- Fillets
- Fabrics



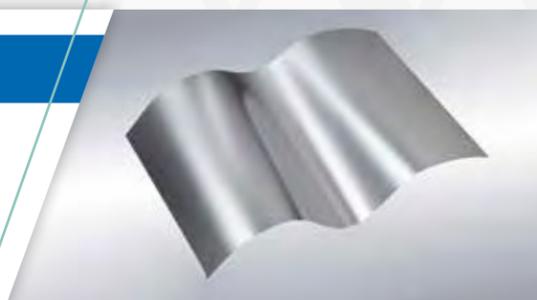
### ARTIFICIAL TURF

- Monofilament Yarns
- Tape Yarns
- Backing
- Infill
- Lines / Logos



### BOPP

- Food Packaging Films
- Non-Food Packaging Films
- Label Films
- Lamination Films
- Tobacco Films
- Graphic Arts
- Specialty Films



### INJECTION MOULDING

- Automotive
- Electrical applications
- Technical applications
- Packaging
- Cosmetics
- Household



# PRODUCTION

## AND TECHNICAL CENTER

**IN CLOSE** cooperation with our customers and suppliers, we produce colour, additive and combination masterbatches. Our products offer a much simpler and resource-optimized processing of plastics and increased process reliability to the customer.

Predetermined specifications of our products such as the production process, the different

requirements and physiological properties of the plastics, pigments and additives are being agreed upon with our customers. Cutting-edge equipment guarantees homogeneous batches and a constantly high product quality thanks to regular checks and controls. For impressive results,



Our experienced staff use the most modern facilities such as:

- State-of-the-art extrusion lines with various individually adjustable screw configurations
- Dosing technology of the latest kind
- Liquid dosages from low to high viscosity
- FFS bagging unit
- Blown film extrusion lines
- Cast film extrusion lines
- Non woven fabric extrusion line
- Hot presses
- Roll mill
- Kneaders
- Extrusion filter test line
- Different mixing systems
- Injection moulding technique
- Air separation line

# LABORATORY & COLOURIMETRY

## AND APPLICATION TECHNOLOGY

**THROUGH** our additive and colour masterbatches, the physical properties of plastics can be changed and upgraded. An integral part is the quality of the masterbatches! Our laboratory is the keystone of our quality management. No product leaves us without being checked by the most modern methods and latest equipment in the laboratory. Moreover, we are able to examine tailor-made products tested in our pilot plant.

We always apply tested and approved raw materials from reputable suppliers. For all raw materials the latest documentation of our suppliers is available. With this documentation we are able to make sure that we are working strictly according to all regulations and laws.



Amongst others, the following analysis techniques from the fields of chemical, physical and material analysis are available:

- Density
- Bulk density
- MVR/MFR
- Volatiles and residual moisture
- Thermo analyses (DSC, OIT, TGA)
- Quantitative nitrogen determination
- Gravimetric content analysis of inorganic substances in polymers
- RFA
- UV/VIS/NIR spectroscopy
- FTIR spectroscopy
- COF (Coefficient Of Friction)
- Artificial weathering in a QUV
- Surface resistance determination
- Tensile testing
- Laboratory heat seal tester
- Spectrometer
- Colour computers as well as colourimetry and formulation software

# THE THREE PILLARS

## OF OUR SUCCESS

**THE THREE PILLARS** of sustainability: Our environmental, economic, and social performance is an integral part of our corporate philosophy. Because every individual is important. Environmental protection, a responsible use of resources and a close collaboration are the basis of our success as a family business – today and in the future.



ECOLOGY



ECONOMY



SOCIAL



SHOWING

## APPRECIATION

**WE WELCOME** and encourage the exchange across departments. How about an informal meeting on our comfortable sun deck or in our café next door? With now over 180 family members, we know that we can only meet our high ARGUS quality standards if we work together. As an apprenticeship employer certified by the German Chamber of Industry and Commerce

(IHK), we have expanded our apprenticeship opportunities in the past years. We attach great importance to a friendly and pleasant working environment. Especially when you share a large part of the day with your colleagues, it shouldn't be all about the work. Even if it is exciting. And great fun.



# ECOLOGICALLY SUSTAINABLE

## OUT OF CONVINCENCE

**PLASTIC PRODUCTS** are diverse and indispensable – of that we are certain. We know that we must treat plastics in an environmentally conscious and sustainable manner. We have been doing so since our founding in 1994, but we always strive to become better.

Let's take a look at our energy consumption: ARGUS operates three photovoltaic plants of its own, generating almost 400,000 kilowatt hours of eco-friendly solar power per year. Right at the heart of our Büren facilities, so we require less and less fossil energy, significantly reducing our carbon footprint. Since we exclusively use eco-power from the three renewable energy sources wind, solar, and biomass, we have been able to

reduce our carbon emissions by approx. 88 per cent compared to the previous years (Scope 1 & 2). This represents a saving of around 3,300 tonnes of CO<sub>2</sub>.

What else? We have reduced our energy consumption with the help of electrical net filter systems, energy-efficient process and cooling technology as well as various heat recovery systems. We have committed ourselves to the protection and conservation of regional species and established a 4,000 m<sup>2</sup> habitat with an orchard offering a variety of fruit trees, a pond nearby, facade greening and several flower meadows. Just ask the twelve bee colonies who just moved in with us!

# SUCCESSFUL TOGETHER

## THROUGH OUR VALUES

**WE LIVE** sustainability in all our divisions. In our working together. And in our living with our environment. And this rings true not only for our employees who are actively involved in the implementation of our guidelines. It is of particular importance that the management actively promote our three pillars of sustainability, acting as role models. Not just within the company, but also in our region as a whole. Our certified management systems – a quality standard according to DIN EN ISO 9001, a systematically implemented environmental protection standard according to DIN EN ISO 14001, as well as our standard for energy management according to DIN EN ISO 50001 – speak for themselves. Moreover, we are certified by Ökoprofit and have been accepted into the Germany-wide association Klimaschutz Unternehmen e.V. (Climate Protection Companies).

But we do not stop there. We continuously improve our production in a resource-efficient manner and have started to focus increasingly on using selected bio-based and biodegradable materials, for example. We also joined the „Zero Pellet Loss“ initiative of the German Association for Plastics Packaging and Films. The aim of this initiative is to prevent plastic pellets from finding their way into the environment and consequently polluting our oceans and coastlines. We have been implementing corresponding measures for years, using special technical solutions and raising awareness amongst our employees.

For a clean environment. For a healthy climate. For the future.



**SUSTAINABLE SUCCESS**



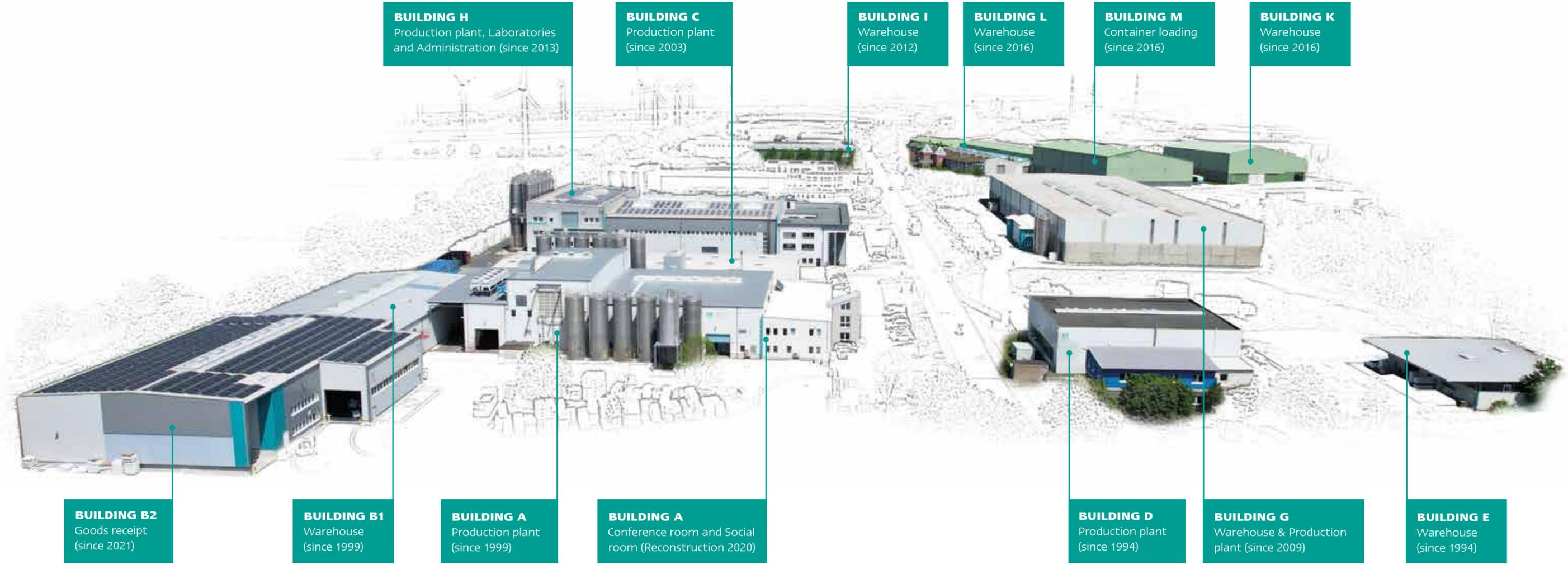
**SHOWING APPRECIATION**



**PERSONAL DEVELOPMENT**

# SITE PLAN

ARGUS is focusing on future-oriented, environmentally responsible management in Büren, Eastern part of North Rhine-Westphalia. As a strong partner in the region, the location has been continuously developed and expanded.





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