

19th of September 2024
Burghausen

CAPITAL MARKETS DAY 2024

Poster Session

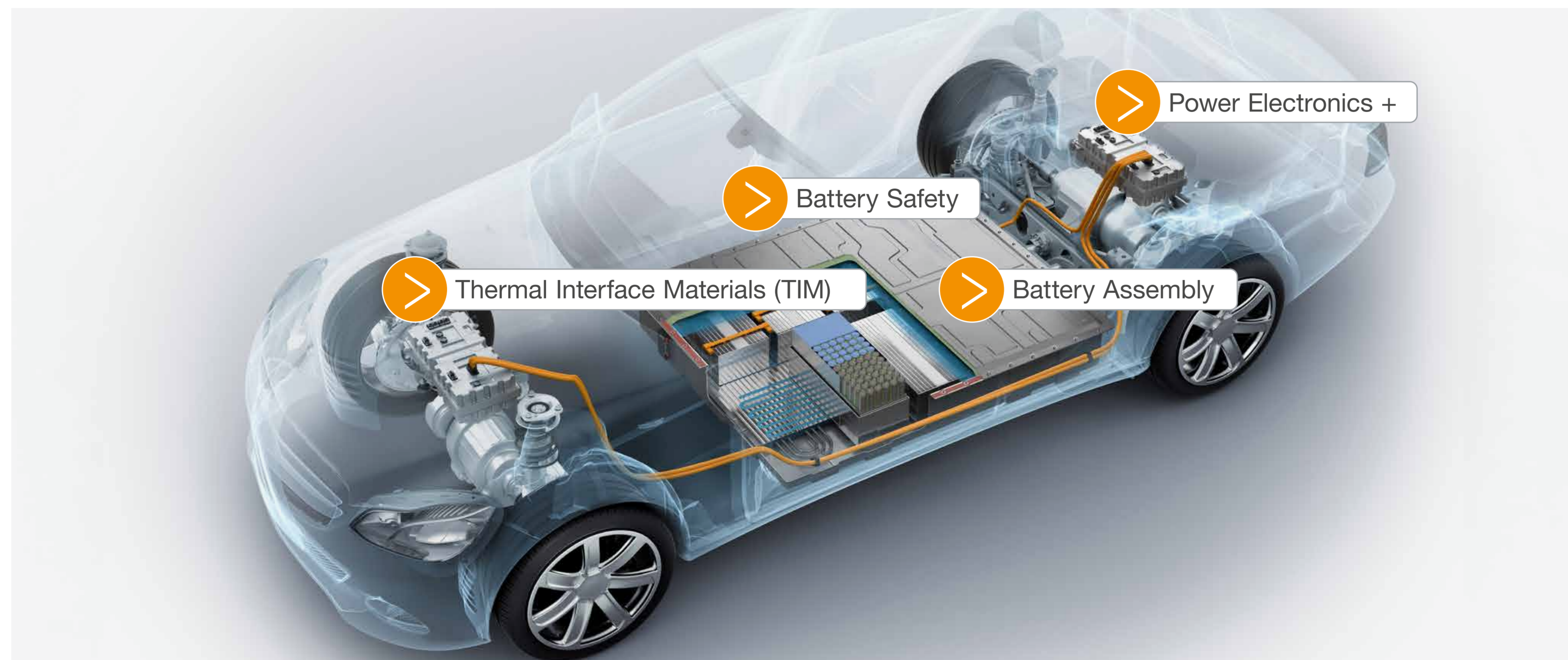
Wacker Chemie AG

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TAILOR-MADE SILICONE SOLUTIONS FOR E-MOBILITY

Safer Batteries & Protecting Critical Components in New Energy Vehicles

Silicones Are Essential to Range of Key NEV Components



Up to 4x higher silicone content

- ICE: ~3 kg
- NEV: ~10 kg

Silicones Have Great Performance under Demanding Conditions

Thermal Management in Batteries

- ✓ Performs over a broad temp. range (-40 to +160 °C)
- ✓ Flexible properties for a wide variety of processes

Functional Safety of Batteries

- ✓ Heat shields with silicone resin increase evacuation times in case of fire

Protection of Sensitive Electronics & Sensors

- ✓ Electrically insulating, low modulus gels
- ✓ Flexible rheology for processing requirements

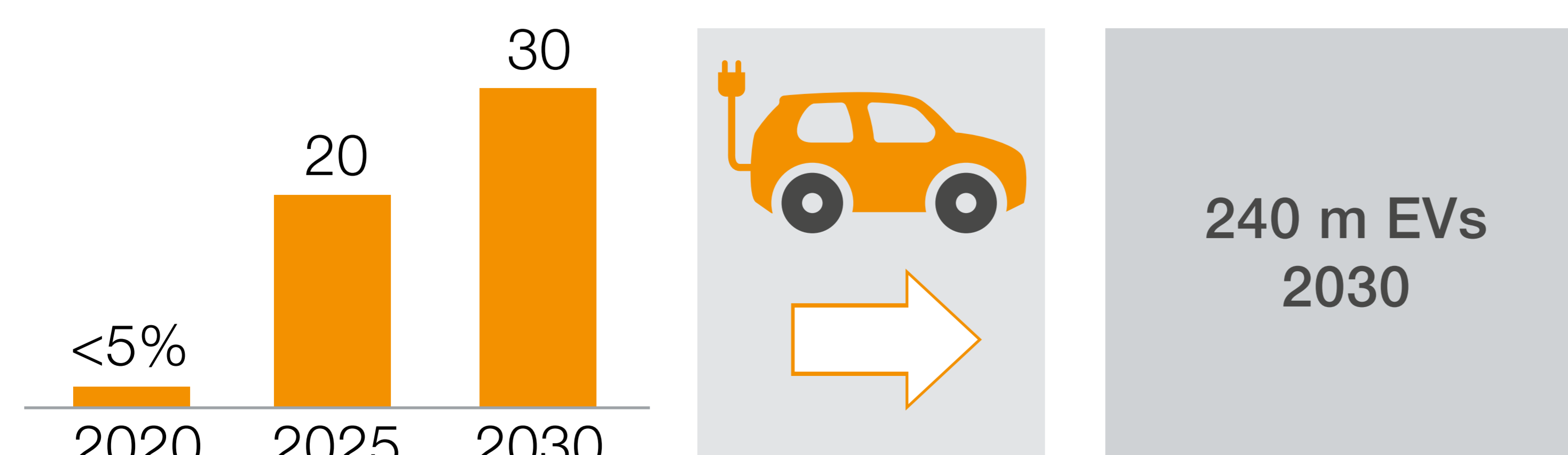


Battery Safety Test

Rapid Growth of EVs Expected

- Global policies drive jump in EV demand
- ~20 m EV sales in 2025 & ~40 m in 2030
- China leads the way: EV's transition from niche to mainstream (>50% of new car registration)

EV Share of Global New Car Sales¹



¹ Source: IEA Global EV Outlook 2023



Be a Leading Automotive Specialty Silicone Supplier

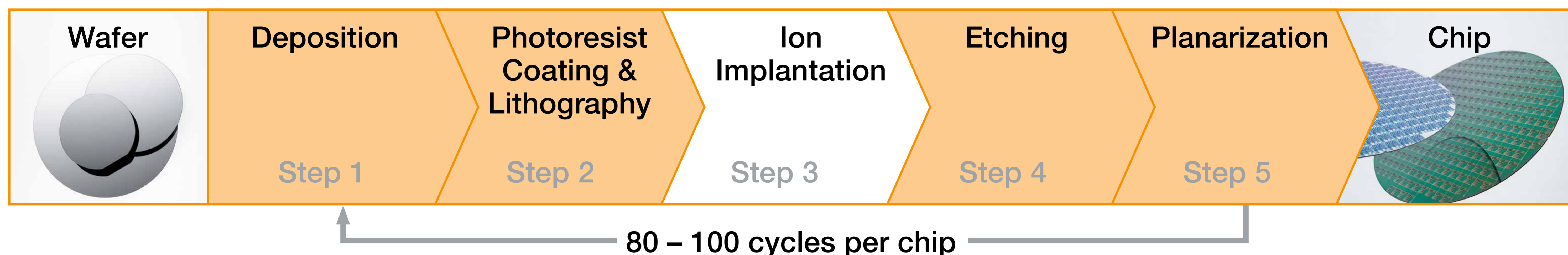
Strategy

- Expand OEM and TIER 1 customer base
- Leverage new IATF-certified production
- Strong strategic and R&D focus

SEMICOSIL® FOR CHIP MANUFACTURERS

Innovative, High-Purity Chemicals for Electronics & Semiconductors

Modern Chip Design Involves Multi-Step Manufacturing



SEMICOSIL® & HDK®: High-Purity Chemicals for Key Manufacturing Steps

Step 1: Precursors for Isolating Layers

- ✓ Essential for high-performance chips
- ✓ Smart chemistry to enable new generation chips

Step 2: Adhesives for Photolithography

- ✓ Enhancing resolution & accuracy
- ✓ Critical for smaller & more powerful semiconductors

Step 4: Gases for Etching & Cleaning

- ✓ High-purity gases for precision etching & cleaning
- ✓ Ensuring high yield & quality

Step 5: Polishing Slurries

- ✓ Chemical, mechanical slurries for ultra-flat surfaces
- ✓ Defectivity improvement in advanced logic & memory

Excellently Positioned to Meet Rapidly Growing Demand

- Strong semiconductor growth¹ driven by AI, advanced electronics, Internet of Things and power efficient chips
- WACKER: qualified & proven at all major global chip manufacturers
- Established presence in all major chip manufacturing regions



Strategy

Drive Innovation to Expand Leadership in Semiconductor Chemistry

- Expand capacities to meet customer pull
- Be the “Development Partner of Choice” for innovation leaders
- Develop new, innovative molecules from R&D to scale up to production

¹(16% CAGR) according to World Semiconductor Trade Statistic: <https://www.wsts.org/76/Recent-News-Release>

GREEN SILICON METAL AT HOLLA, NORWAY

Solutions for Unavoidable CO₂ Emissions: Managing Risks and Opportunities

3 Focus Areas to Address CO₂ Emissions from Silicon Metal Site



Steps Taken and in Preparation

Source Green Energy

Switch to Biobased Carbon

Carbon Capture Pilot Study

It Is about Managing Risks & Opportunities

Social Contract

- ✓ We have an obligation to future generations to reduce emissions

Risk Mitigation / Compliance

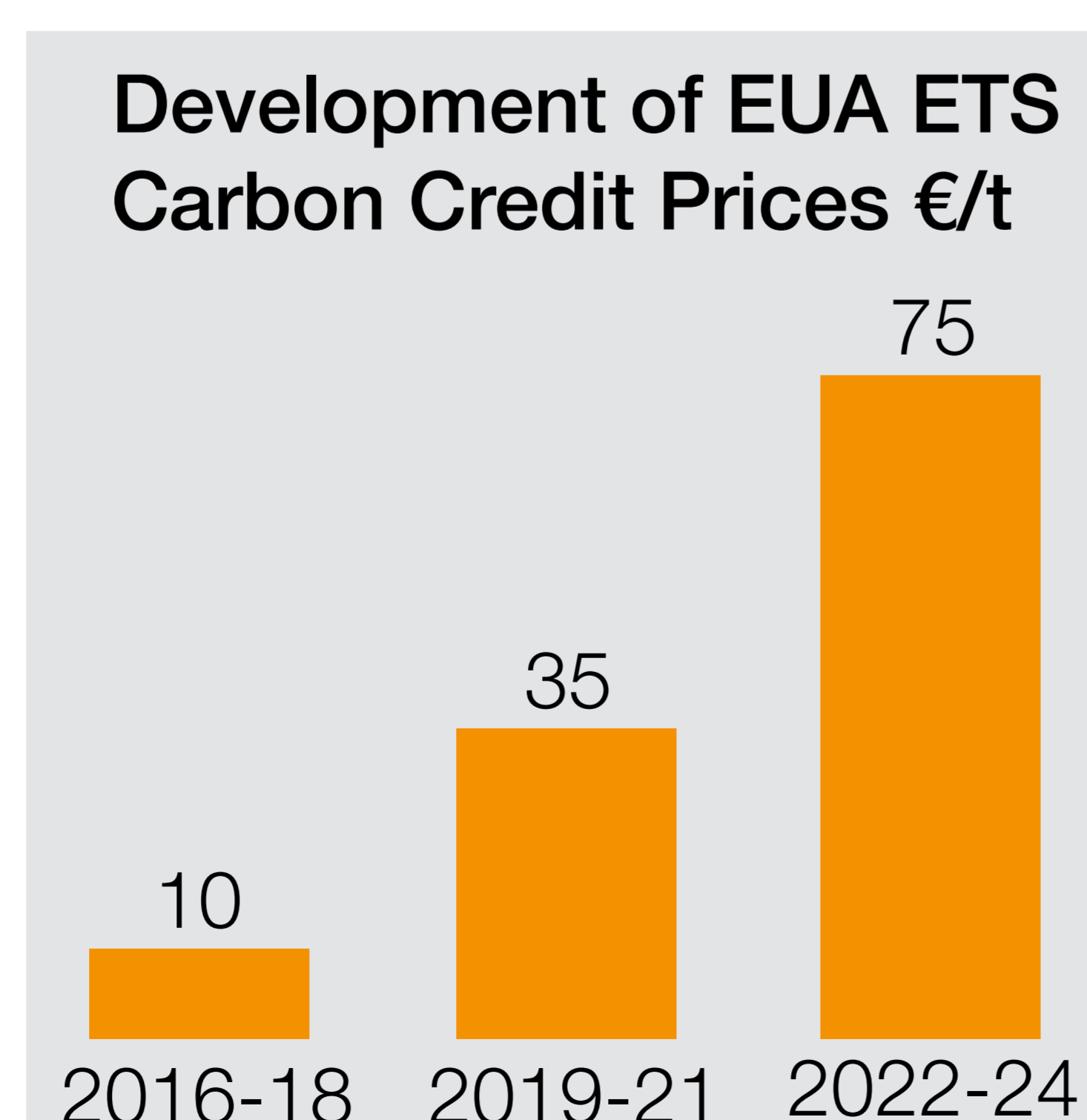
- ✓ We have solutions for unavoidable CO₂ emissions to meet tighter regulations

Customer Pull for Sustainable Products

- ✓ We see demand developing strongly for low carbon footprint products

CO₂ Emissions Are a Significant Financial Risk

- Holla's ~400,000 t of CO₂ p.a = ~€30m financial risk at current EUA ETS prices
- Gradual phase out (2034-38) of free allocation of carbon allowances
- Mitigation strategy: switch to biobased reductants, as they do not fall under EUA ETS regulations



Strategy

Meet Customer Pull for Sustainable Chemicals

- Leverage our leading sustainability profile as a key differentiator
- Achieve a larger share of customer's sustainable solutions wallet
- Investigate feasibility of CCU¹ (e.g. CO₂ as feedstock)
- Green silicon metal is a key lever to achieve our Net Zero by 2045 commitment

¹CCU = Carbon Capture Use

MODERN HYBRID SILICONES FOR SMART CONSTRUCTION

Continuous Development to Address New Applications

GENIOSIL® Hybrids for an Increasing & Wide Range of Applications

 2006 Parquet Adhesive	 2008 Transparent Sealant	 2010 Water-proofing Membrane	 2012 High Strength Adhesive	 2015 Multi-purpose Glue	 2024 Façade Sealant
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GENIOSIL®: Elastic Sealants & Adhesives with Clear Performance Benefits

Advantages for Compounders

- ✓ Straightforward & cost-efficient compounding
- ✓ Isocyanate-, heavy metal & solvent-free solutions
- ✓ Low viscosity for easy dosing
- ✓ Crystal clear formulations

Product Advantages

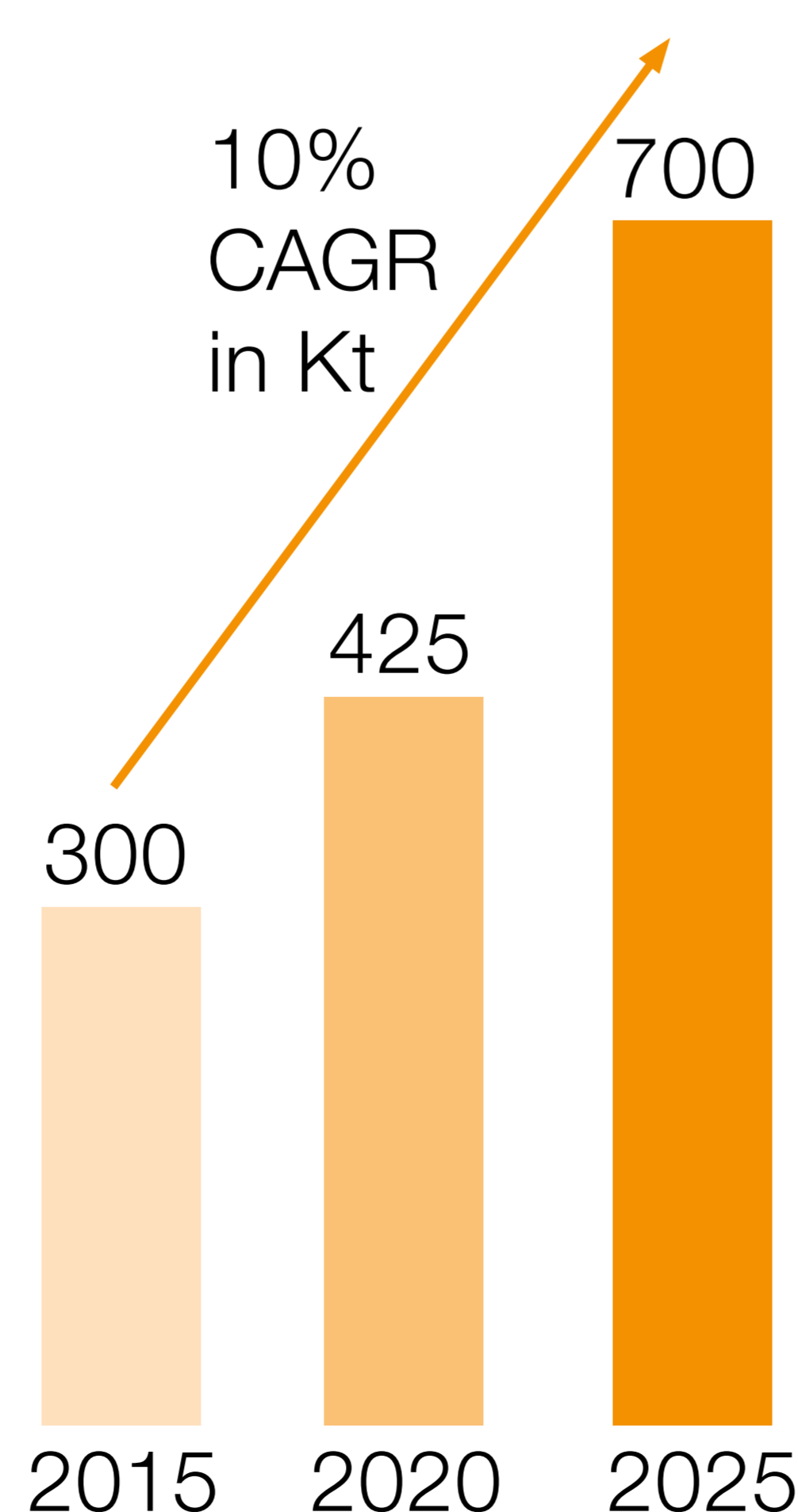
- ✓ Heat & ecofriendly (label-free)
- ✓ Adhesion to various substrate without pretreatment
- ✓ Transparent and non-yellowing
- ✓ Long shelf-life

Strong Hybrid Market Growth¹

- Driven by transformation with new solutions for existing applications
- Performance-based substitution of polyurethane-based adhesives
- Easy formulations drive high adaption rates
- Environmental regulations



Ready for the future with new plant



Strategy

Meet Growing Demand from Existing and New Applications

- Leverage global technical centers to teach customers about performance advantages
- Strengthen unique technology position
- Strong focus on sustainable solutions

¹ Source: Markets and Markets



SILICONES FOR OPTICAL BONDING & DOME ENCAPSULANT

Vibrant, Long-Lasting Displays with Excellent Optical Stability

LUMISIL® Creating Value Over an Increasing Range of Applications



Automotive Displays

- Dominant technology already today



Consumer Electronics

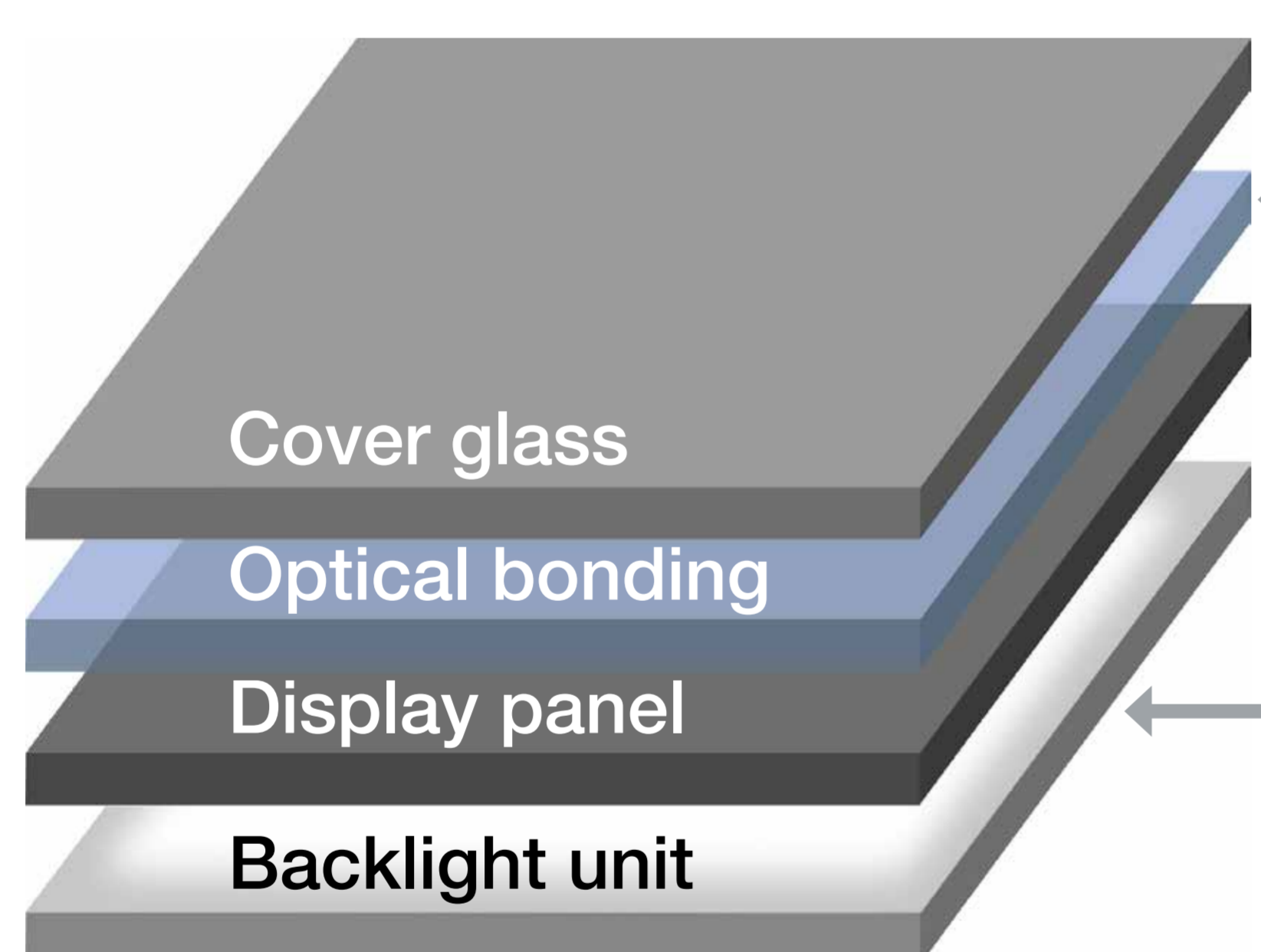
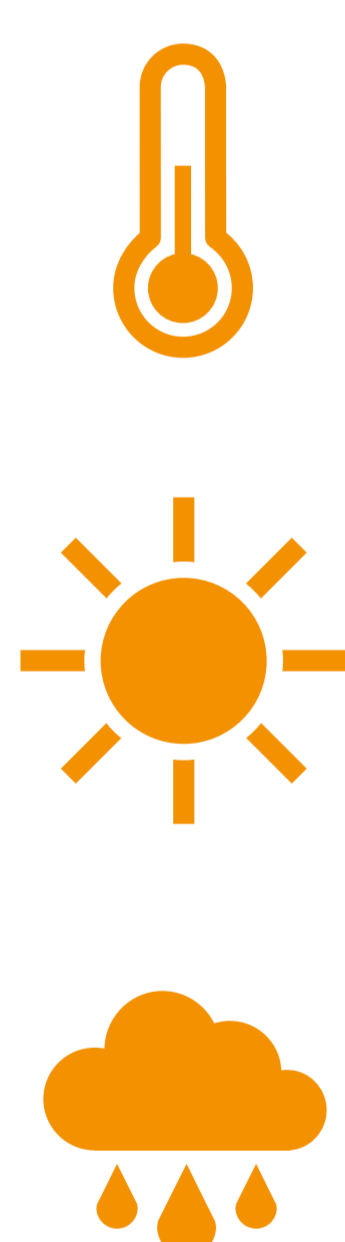
- Growing in smart phones, wearables & smart glass



High-Resolution Mini-LED

- Successful market launch of dome encapsulant

Display Requirements > WACKER Solution > Advantages of LUMISIL®



Panel & cover bonding
Optically clear resins & adhesives

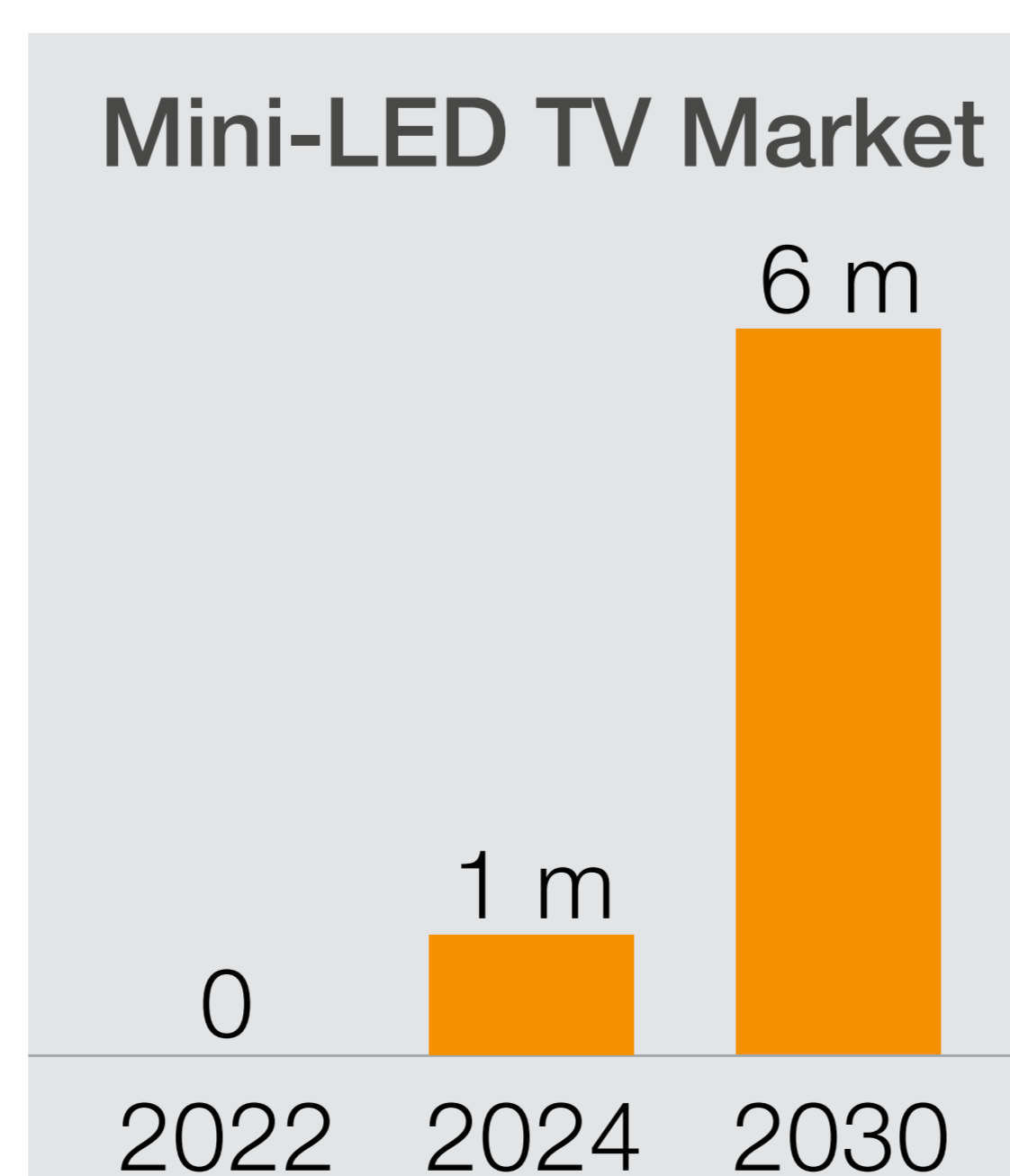
Mini-LED dome encapsulant
Normal & high refractive index silicones

- ✓ Superior optical stability
- ✓ Excellent stress management
- ✓ Reliable thermal stability
- ✓ Process simplicity

- ✓ Dimensional performance
- ✓ Optimum light efficiency

Strong Growth Outlook

- **Automotive displays:** growth driven by more & larger display panels (CAGR: ~7% p.a)
- **Mini-LED:** strong growth in premium TV segment
- **Consumer electronics:** growth driven by substitution away from acrylics in premium devices



Source: Omdia



Strategy

Provide Best Solutions for Next-Generation Technologies

- Innovate with customers at our Korean Center of Excellence for Electronics
- Leverage our expanded technology base / product offering
- Grow customer base to other big players

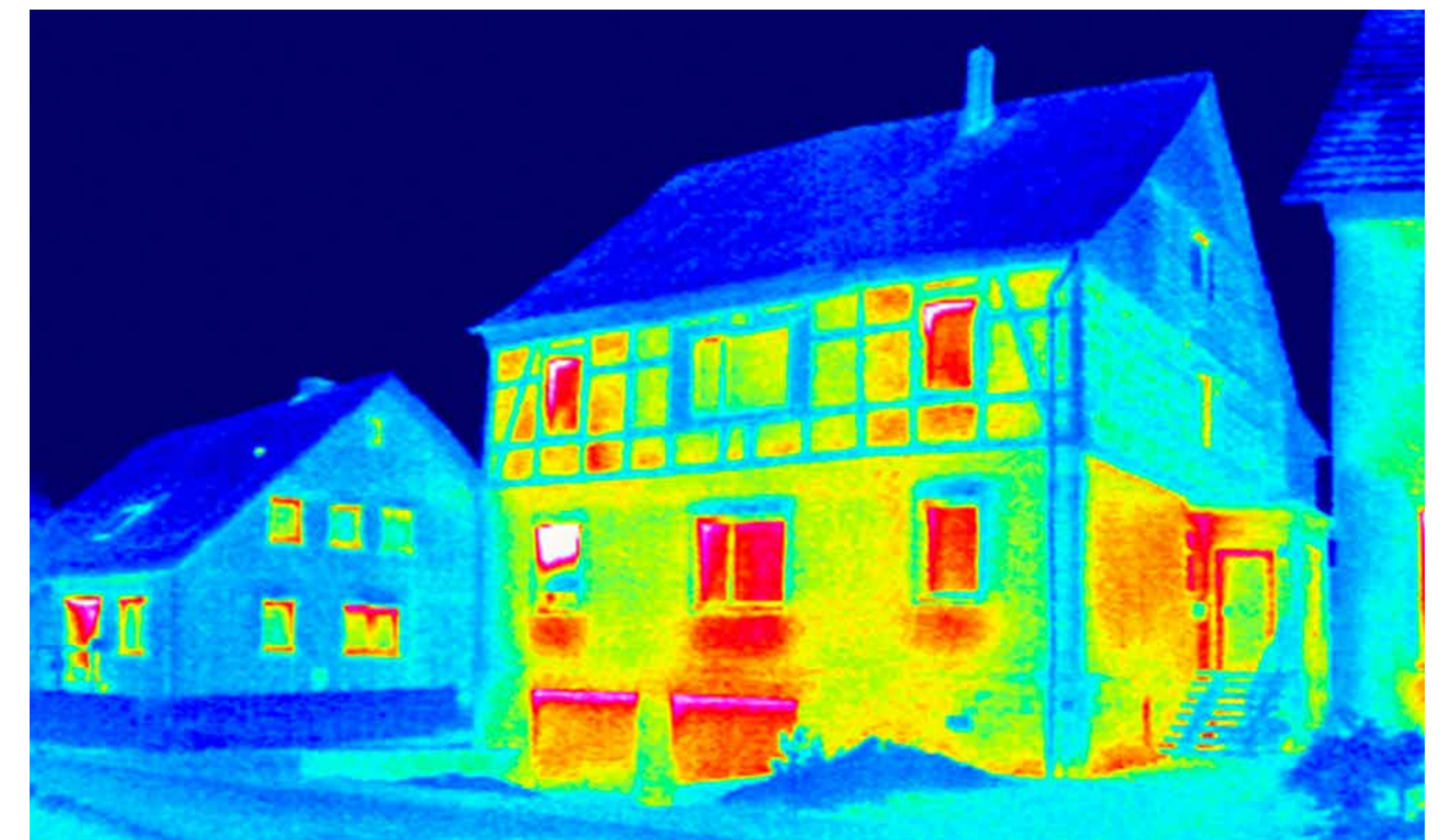
SILICONE RESIN EMULSION PAINTS (SREP®)

High-Performance Solution for Long-Lasting, Energy-Saving Façades

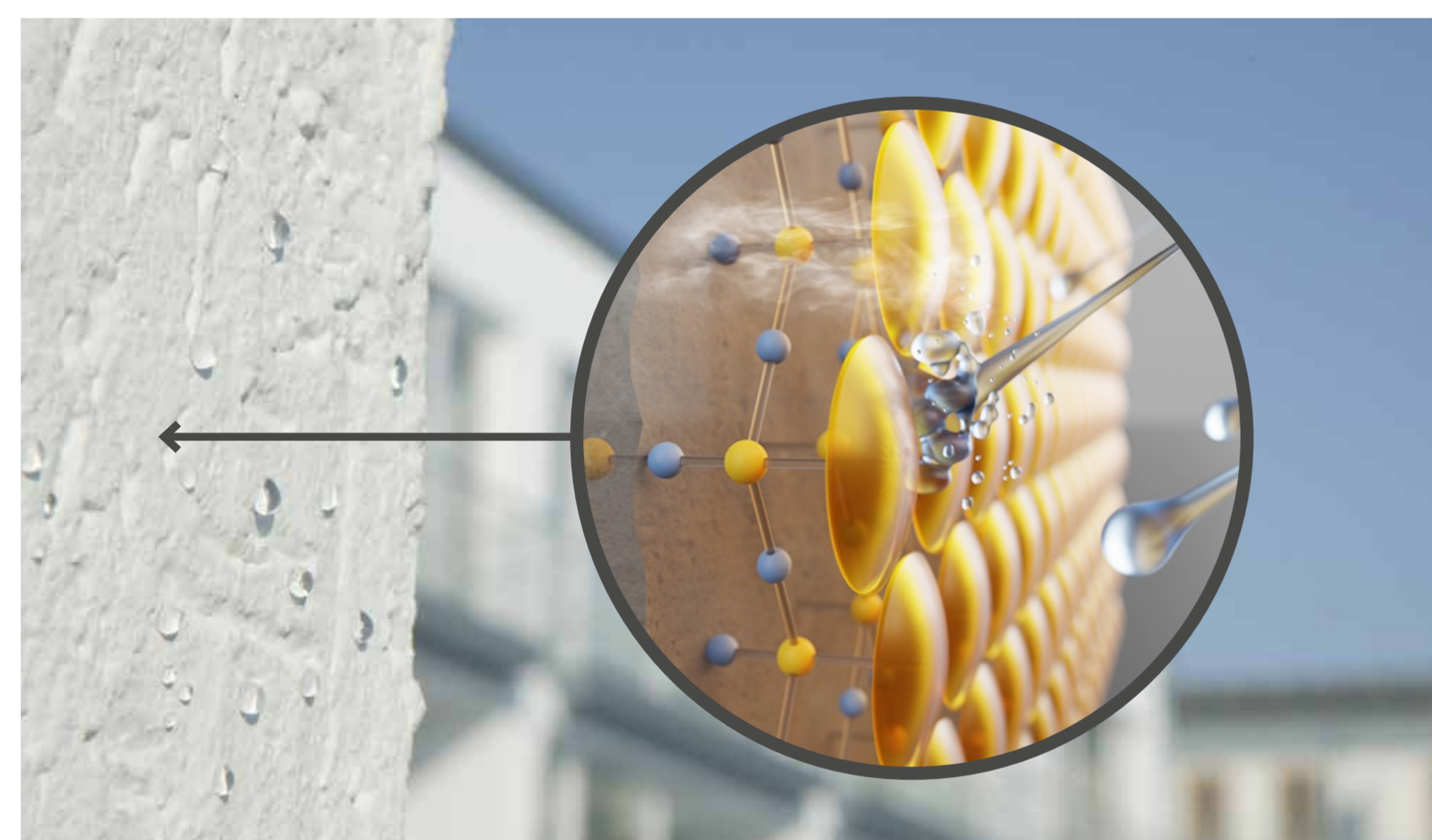
The Problem: Heat Loss and Damage Due to Moisture in Façades

- ~25% of a home's total energy loss through its façade¹
- Only 3% moisture reduces the insulation capacity by 40%²
- Moisture brings mold or moss growth, efflorescence and cracks

The "Best-in-Class" Solution: SREP® from WACKER



Heat Loss via Wet Façades



SREP® "Best-in-Class" Paints

SREP®: with Many Performance Advantages

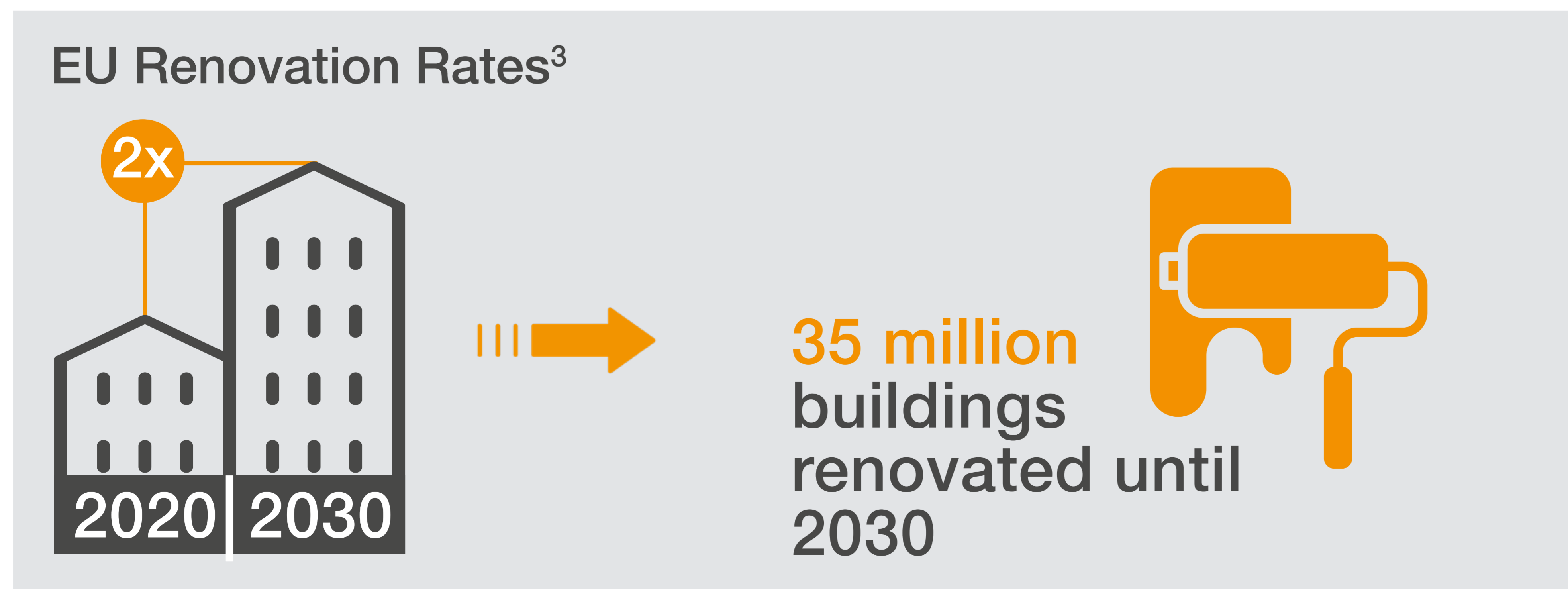
- ✓ Water repellent
- ✓ Clean façades
- ✓ Longer renovation cycles
- ✓ Breathable
- ✓ UV & weathering stable
- ✓ Outperforming other coatings



Go to Insight Paper

Demand Driven by EU Renovation Wave and Need for Sustainable Products

- EU Green Deal catalyst for renovations
- SREP® the first choice for external thermal insulation systems
- We grow above global construction markets due to performance & sustainability



Strategy

- Build on global technology and innovation leadership in external coatings
- Leverage excellent production setup and selective capacity expansions

¹ German Energy Agency (Dena), ²J. S. Cammerer, ³ European Commission's Renovation Wave Strategy

WOUND CARE – INNOVATIVE STICK-TO-SKIN SOLUTIONS

SILPURAN® Silicone Adhesives for Healthcare Applications

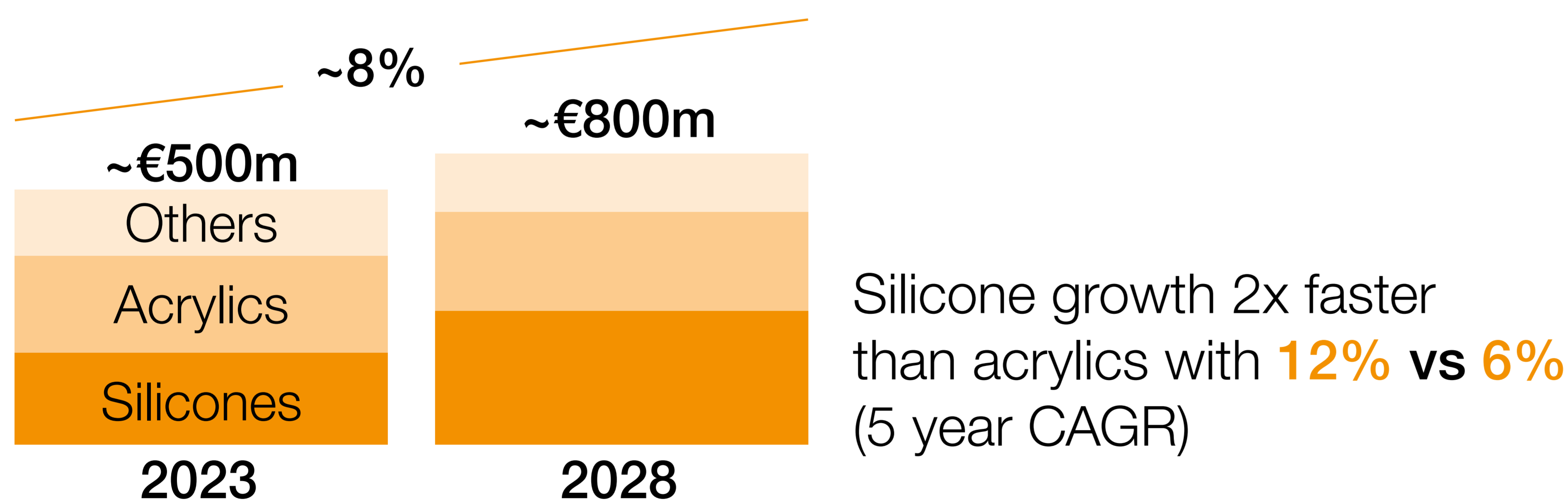
SILPURAN® Adds Value to Existing, New & Emerging Healthcare Applications



Silicones Have a Wide Range of Properties Addressing Customer Needs

- ✓ Skin friendly, atraumatic removal
- ✓ Broad adhesion range
- ✓ No skin irritation, residue free removal
- ✓ Breathable for faster wound healing
- ✓ Sterilizable
- ✓ Biocompatible and non-toxic

Silicones: the Preferred Solution in Core Markets with Significant Potential in New Markets¹



Applications	CAGR	Silicone Penetration	
Scar treatment	+	High	Core Market
Advanced wound care	+	Medium to high	
Transdermal patches	+	Medium	
Wearable devices	++	Low	New Market
Ostomy care	+	Low	
Tapes & bandages	+	Low	

+ = Mid single digit, ++ = Low double digit

Strategy

Transition from Material Supplier to Solution Provider

- Leverage new downstream coating capabilities as R&D platform and contract manufacturer
- New adhesive solutions for wearables, transdermal actives delivery and ostomy care applications

¹ WACKER analysis

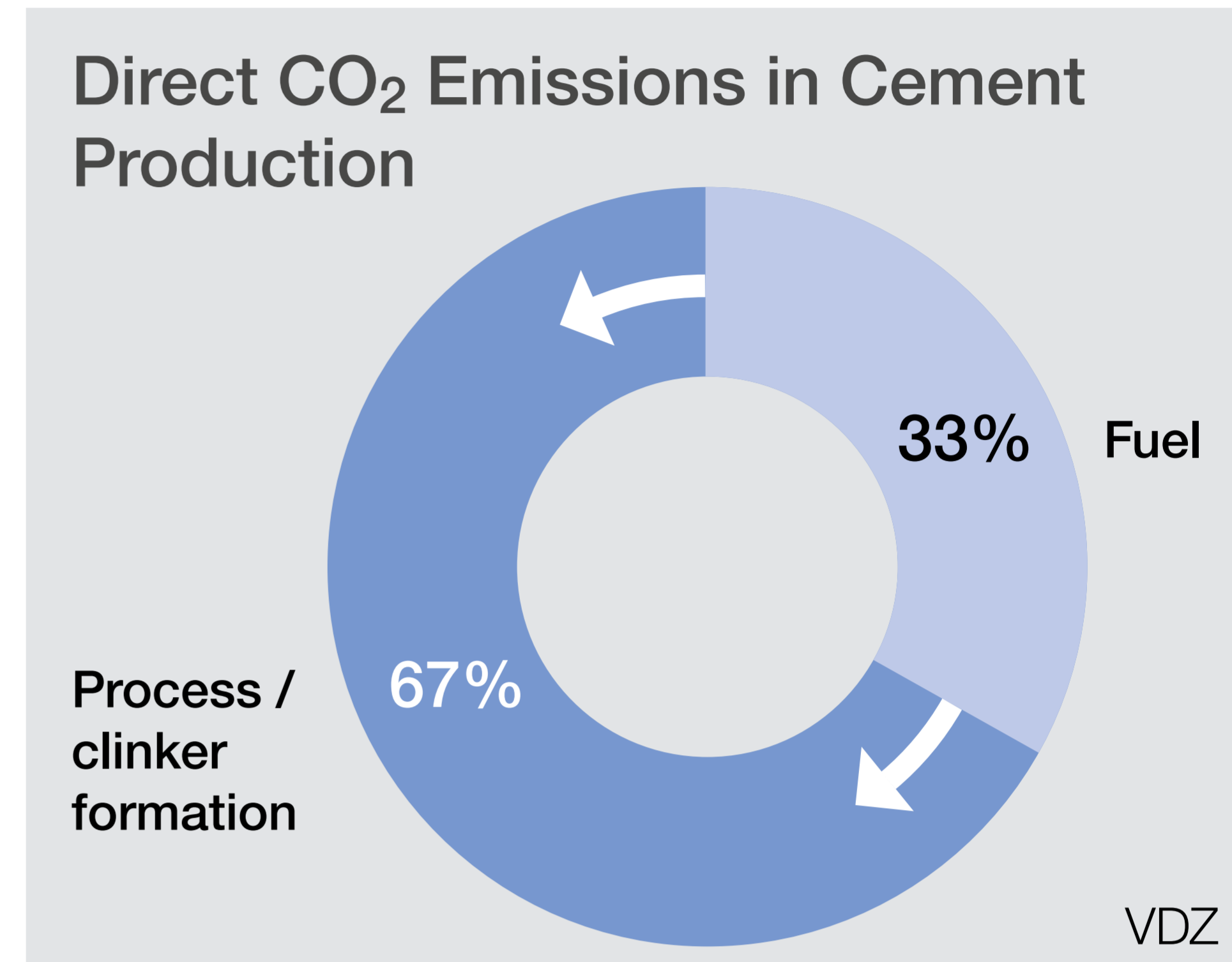
ADVANCED POLYMERS FOR COMPOSITE CEMENTS

VINNAPAS® DPP* Enable Dry-Mix Mortar Performance and CO₂ Reduction

Cement Industry – Sustainable Solutions Required

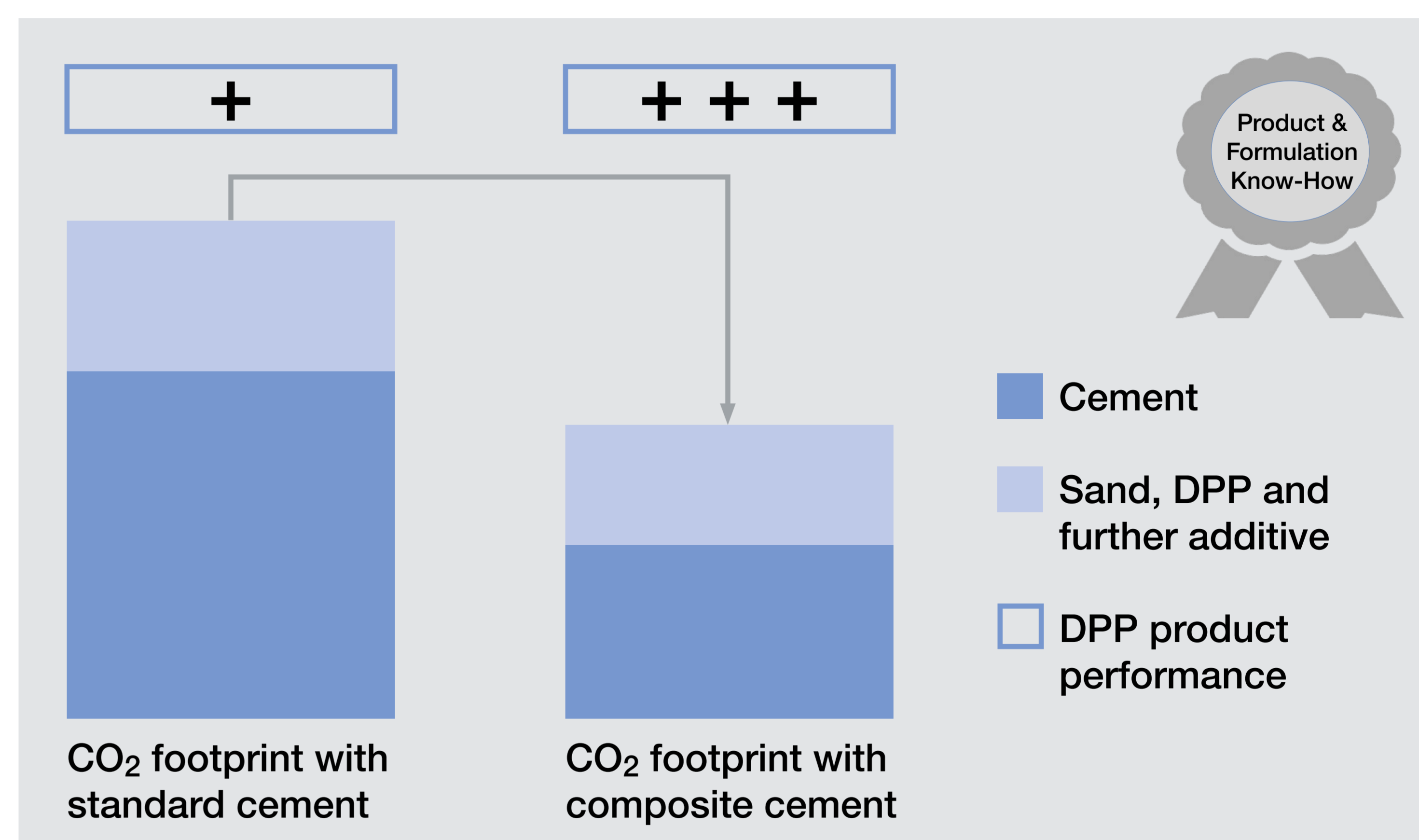
- ✓ ~8% of global CO₂ emissions caused by cement industry
- ✓ Reduction of clinker factor to decrease cement carbon footprint (process emissions)
- ✓ New composite cement solutions affect dry-mix mortar performance, e.g. water resistance below standard requirements

Advanced VINNAPAS® Improves Dry-Mix Mortars



CO₂ Reduction Targets of Cement Industry as Driver

- ✓ Composite cements with continuous global growth impacting mortar producers
- ✓ Advanced DPPs* improve dry-mix mortar performance



VINNAPAS® Modified Dry-Mix Mortars with Many Performance Advantages

- Combination of composite cements and VINNAPAS® reduces the CO₂ footprint of mortars by up to 50%
- VINNAPAS® compensates deficits in mortar performance
- Advanced VINNAPAS® outperforms standard VAE**
- In-depth formulation know-how required



Strategy

Support CO₂ Reduction in Building Materials

- Meet growing customer demand with performance
- Be the partner of choice for the global mortar industry
- Leverage global application development expertise

* Dispersible polymer powder

** Vinyl acetate-ethylene



POLYMERS FOR SKIM COAT ARCHITECTURAL FINISHES

VINNAPAS® Enables High Quality, Long-Lasting & Easy-to-Apply Finishes

An Indian Success Story: Pioneering Innovation and Market Development



Technical Center Mumbai



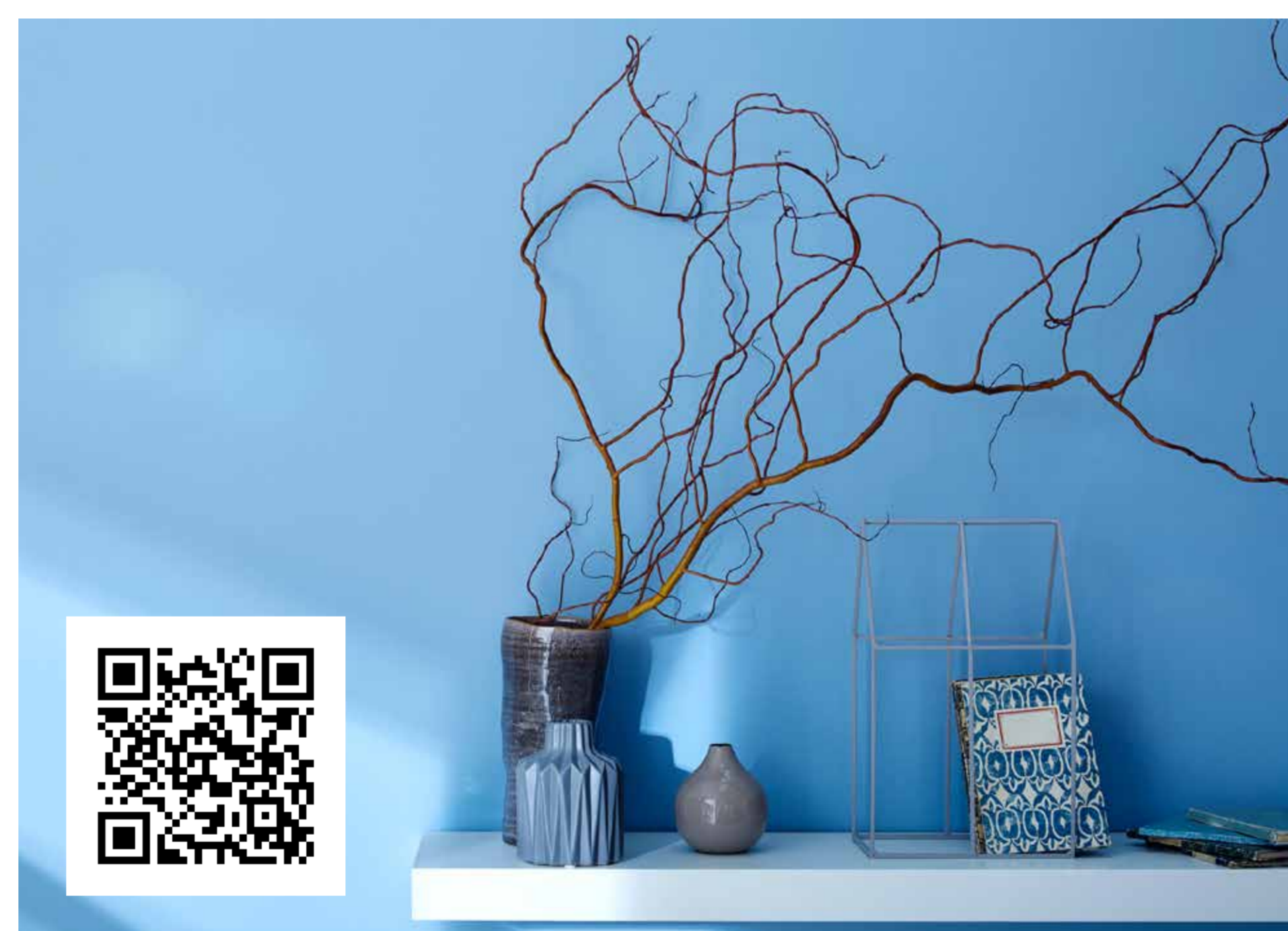
Technical Center Bengaluru



Market Leader India

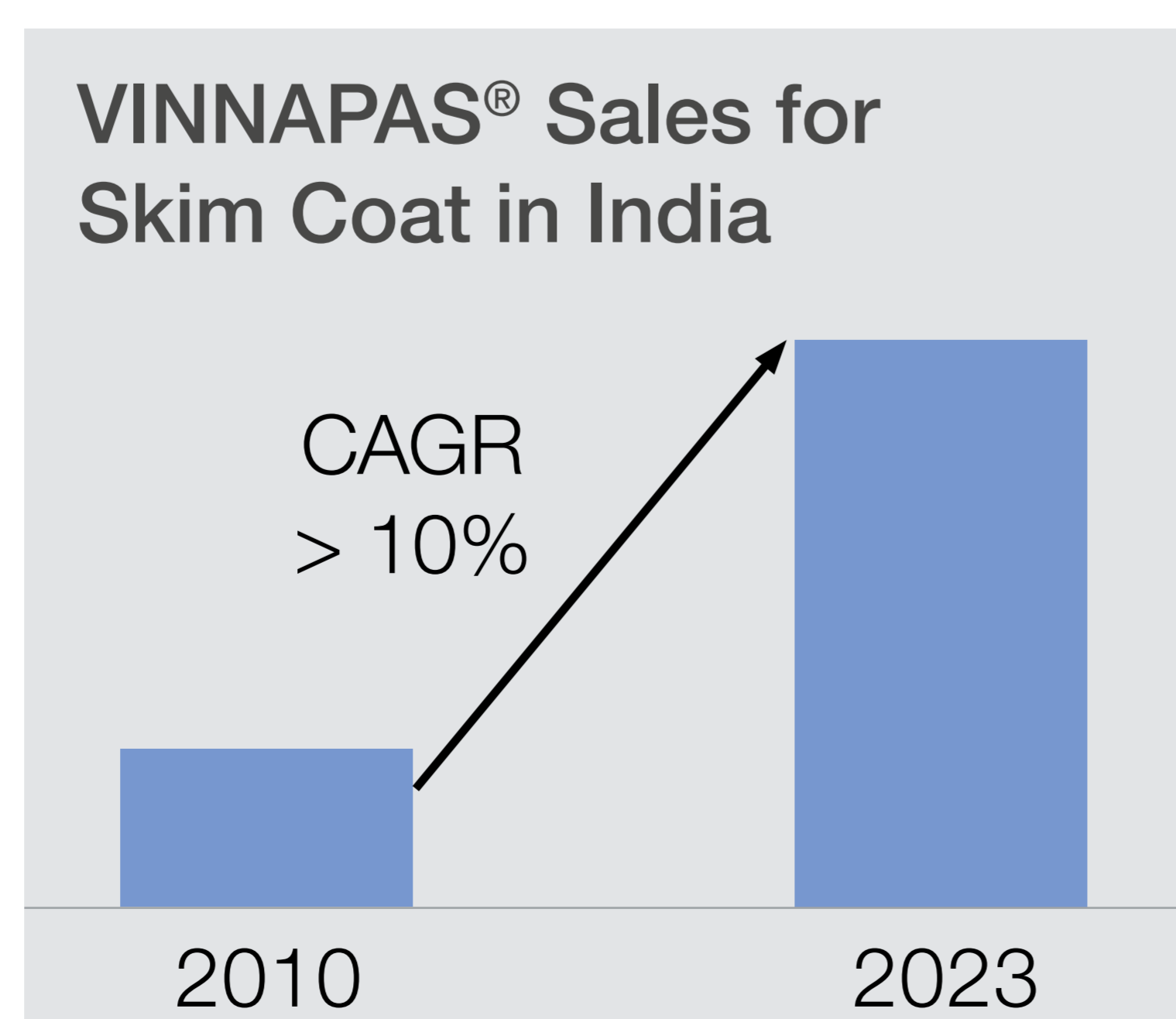
Best in Quality & Ease of Application Guaranteed with VINNAPAS® Inside

- ✓ Paint adhesion
- ✓ Crack free
- ✓ No chalking
- ✓ Durable & long lasting
- ✓ Good workability
- ✓ Resource savings
- ✓ Water repellent



Demand Driven by Strong Market Growth & Transformation

- India is the 3rd largest construction market globally
- Nearly 12m houses built annually
- Higher quality materials & building standards establishment push transformation



Expand #1 Position in India & Drive other Regions

Strategy

- Expand customer portfolio via technical support & market education
- Support customers to reduce product carbon footprint
- Grow in China, SE Asia, South America

CREATING A LEADING BIOPHARMA CDMO

Enabling Next-Generation Medicines with Cutting-Edge Technologies

Established CDMO: from Development to Manufacturing with a Proven Record



Development

- ✓ Cutting-edge patented technologies
- ✓ Flexible & integrated solutions

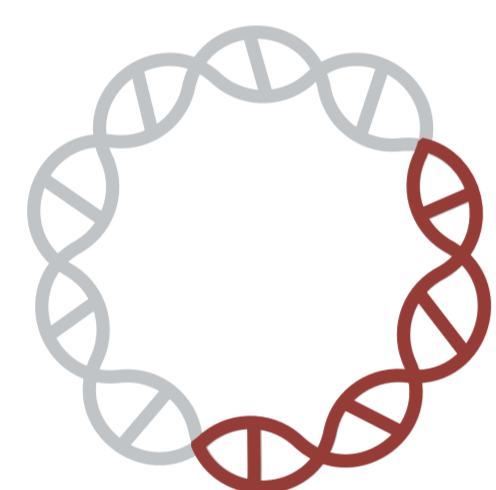
Manufacturing

- ✓ Small to large scale production
- ✓ Supply from clinical to commercial

Proven Record

- ✓ >1,100 GMP batches released
- ✓ >200 projects completed

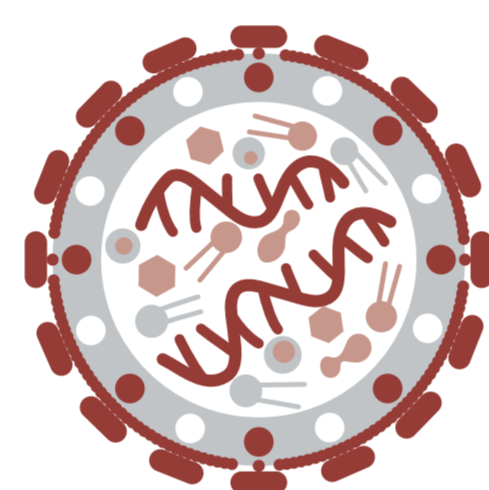
BioPharma Capabilities for Next-Generation Medicines



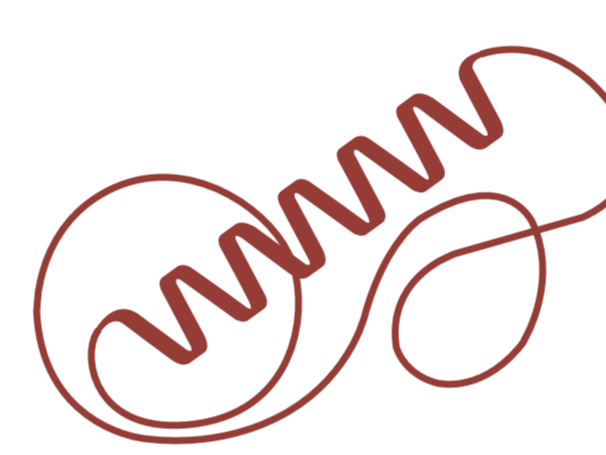
pDNA



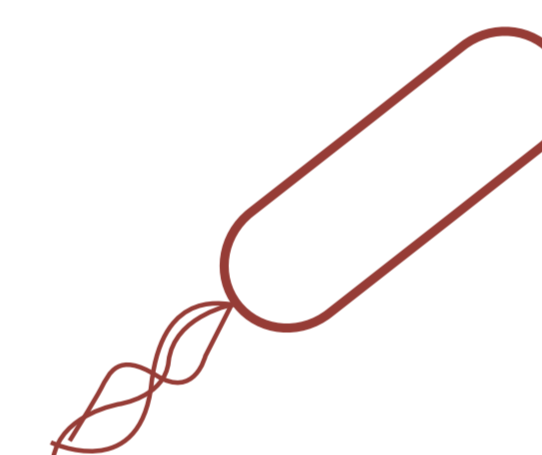
mRNA



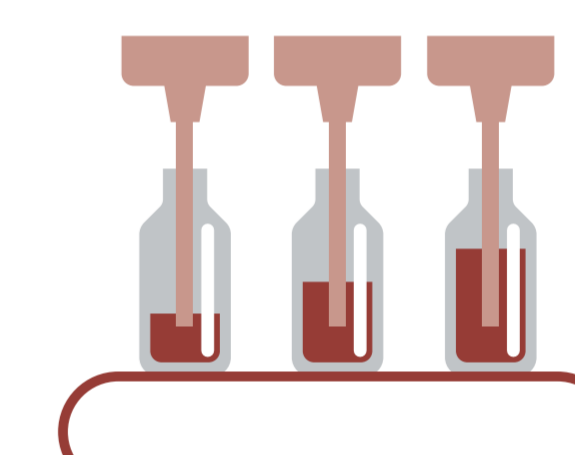
Lipid Nanoparticle Formulation



Proteins



Live Biotherapeutic Products



Fill & Finish

ESETEC® Controlled protein secretion technology

FOLDTEC® Protein refolding technology

LIBATEC® Live microbials technology

PLASMITEC® mRNA + pDNA technology platform

Halle mRNA Competence Center



- Integral part of CDMO business development: advanced therapeutics based on pDNA, mRNA and LNP formulation
- Part of German Pandemic Preparedness Program until 2029, producing up to 80 Mio. doses per year if needed



Strategy

Create a Leading CDMO with Investments in a Fast-Growing Market

- Committed to meet the industry's needs with fully integrated technology offerings
- Thousands of clinical studies currently conducted on new proteins, mRNA and pDNA therapies
- Leverage our regional footprint to establish resilient biopharmaceutical supply chain

CYCLODEXTRINS ENABLE NEW DRINK FOAM TOPPINGS

Unique Benefits and Effects Add Value Across a Range of Applications

A Broad Range of Applications



Taste & Odor Masking



Emulsification



Improved Bioavailability



Whipping & Aeration

CAVAMAX® Enables Innovative, Healthy Foam Drink Toppings

- ✓ High foam volume & stability (~1 hour)
- ✓ Foam firmness for decorations (sauces & sprinkles)
- ✓ Healthier: low to 0 fat
- ✓ Enables new foam creations

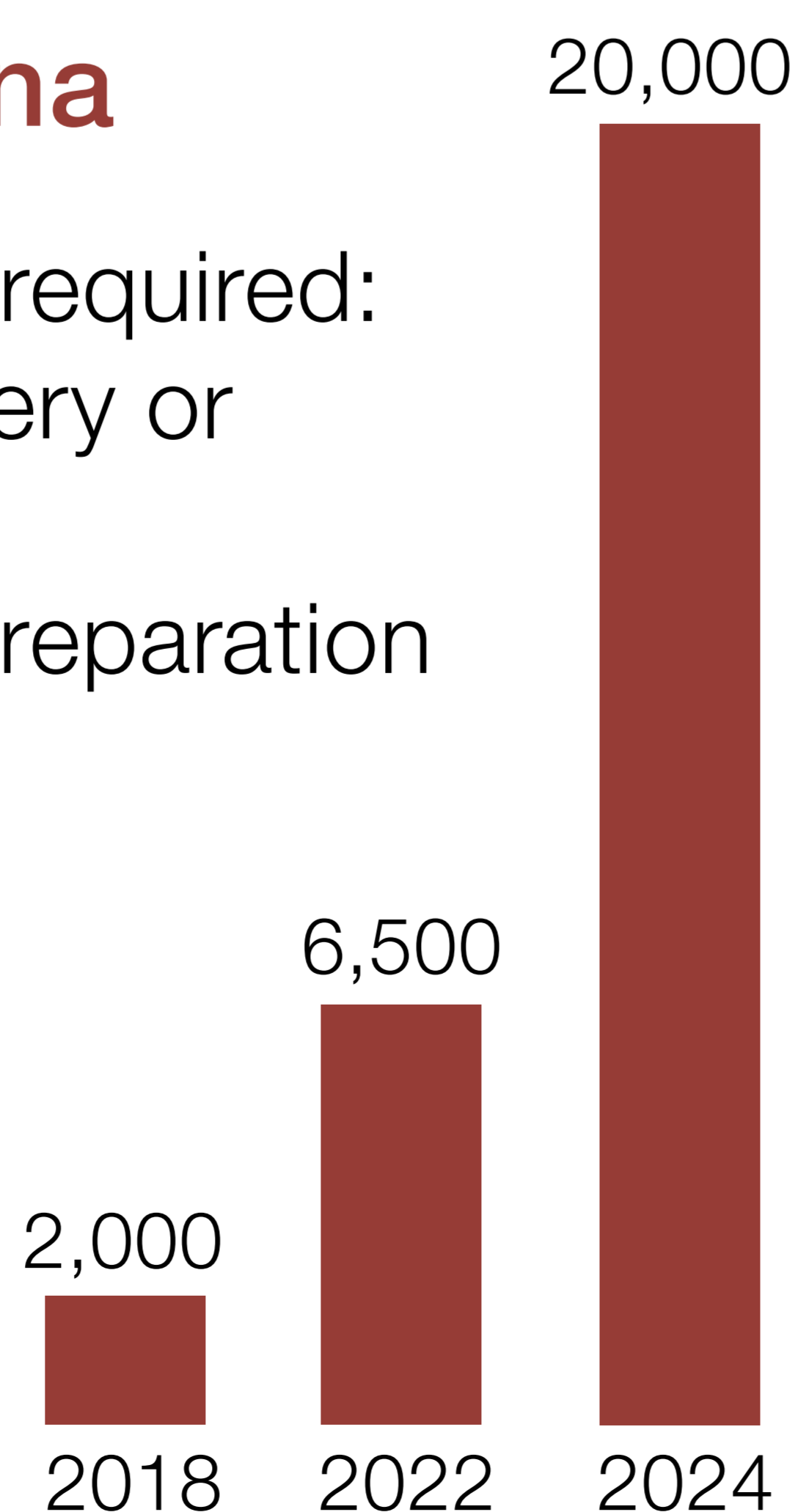


Cold foam topping based on milk & alternatives

Growth Driven by Expansion of Specialty Coffee Shops and Consumer Trends in China

- High foam volume & stability required: ~95% of drinks sold via delivery or take-away
- Quick & easy in-store foam preparation
- Versatility: one CAVAMAX® compound enables various in store products / drink innovations

■ Number of stores (Leading coffee shop in China)



Strategy

Transition from Raw Material Supplier to a Solution Provider

- Become a major solution supplier for foam drink toppings
- Direct sales to leading coffee & tea shops in Asia
- Leverage business model to other regions where cold foam trend is emerging

PRECISION FERMENTATION FOR BIOINGREDIENTS

From R&D to Pilot to Commercial Scale Production in León

Combination of WACKER & ADL Creates One of Largest Biotech Sites in Europe

- ✓ Large-scale fermentation capacities of ~2,600 m³
- ✓ Two value streams CDMO and own products
- ✓ Combination of pilot and industrial scale-up capabilities



Serving Customers as CDMO with Pilot & Commercial Scale Manufacturing

- ✓ Track record in food & personal care markets
- ✓ Strong expertise with bacteria, yeasts, fungi and microalgae
- ✓ Local & global environmental and quality certifications

Development Services

- ✓ Process scale-up and optimization
- ✓ Technical and economical feasibility

Manufacturing Services

- ✓ Ready-to-use state-of-the-art large-scale fermentation
- ✓ Set up customer specific downstream bioprocessing



Commercializing Own Product Innovations in Attractive High-Margin Markets



L-cysteine & other product innovations

- Growing demand for sustainable, animal-free products
- WACKER focusing on attractive high-margin markets

Infant Nutrition

Food & Nutra

Personal Care

Animal Feed

+7-fold

potential increase of precision fermentation market until 2040¹

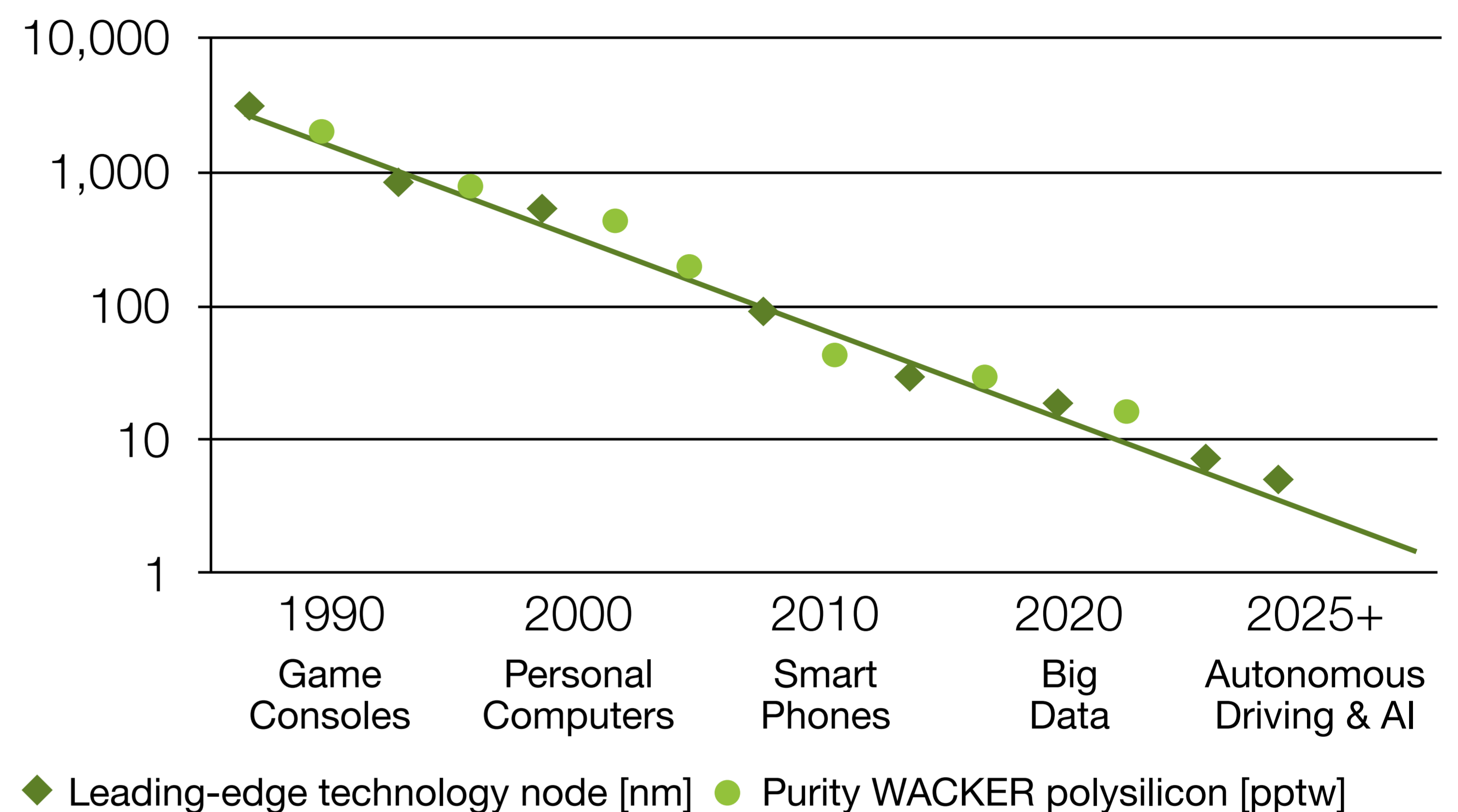
¹According to BCG as of 02/2024

SEMICONDUCTOR DEVICES: FASTER AND SMALLER

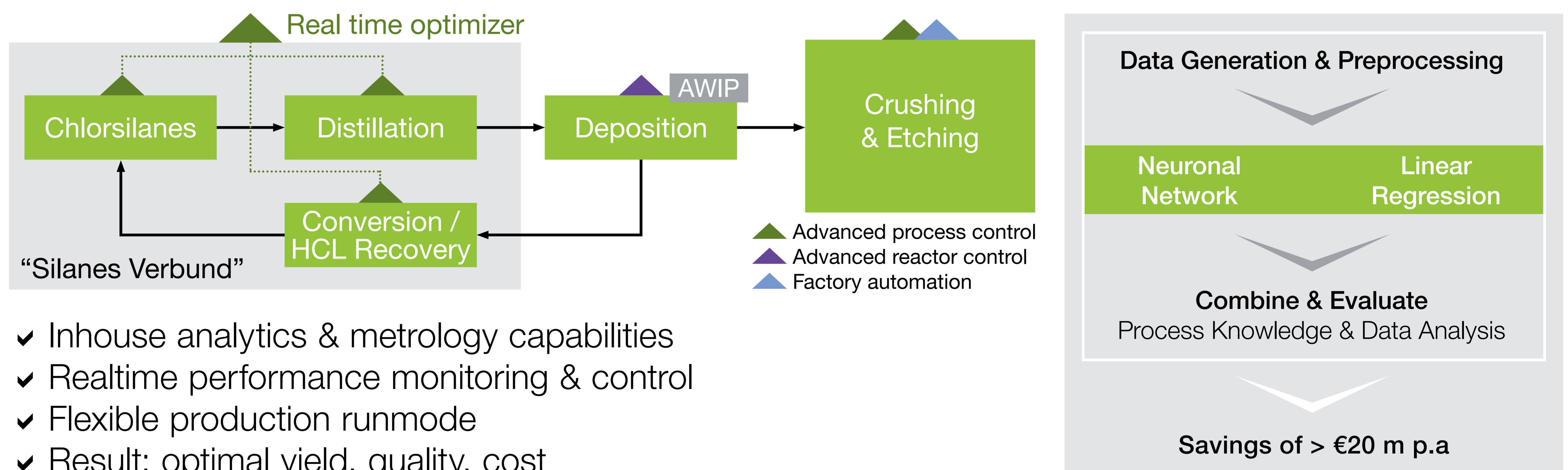
Benchmark Quality Polysilicon Enables Leading-Edge Design Rules

Quality & Process Stability Critical for Highest Performance Semiconductors

- ✓ Polysilicon requirements constantly higher
- ✓ Leading edge design rules rely on perfect 3D architecture + perfect materials
- ✓ Very high requirements = very high barriers to entry



Entirely New Smart Approaches to Drive Process Excellence & Stability



- ✓ Inhouse analytics & metrology capabilities
- ✓ Realtime performance monitoring & control
- ✓ Flexible production runmode
- ✓ Result: optimal yield, quality, cost

Automation Reduces Downtime & Improves Safety

- Robots can “hear”, “smell”, “see”
- Robots fulfill routine work, enter dangerous areas, collect data & reduce specific sensor costs
- AI is used for detection of anomalies & improves predictive maintenance
- Factory automation improves process stability & cost



Strategy

Strengthen #1 Position in Semiconductors

- Investing in etching capacities (>50%) & capabilities
- Improved quality at even more stable levels
- Clear focus on cost roadmap
- Best-in-class sustainability

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