glasstec
INTERNATIONAL TRADE FAIR FOR GLASS
PRODUCTION • PROCESSING • PRODUCTS

20–23 OCT 2026 | DÜSSELDORF GERMANY | WE ARE GLASS

ReViSalt

Next Generation Glass Strengthening – From Batch to Inline Industrialization

Innovation with the ReViSalt Samorith Process and SaltClean

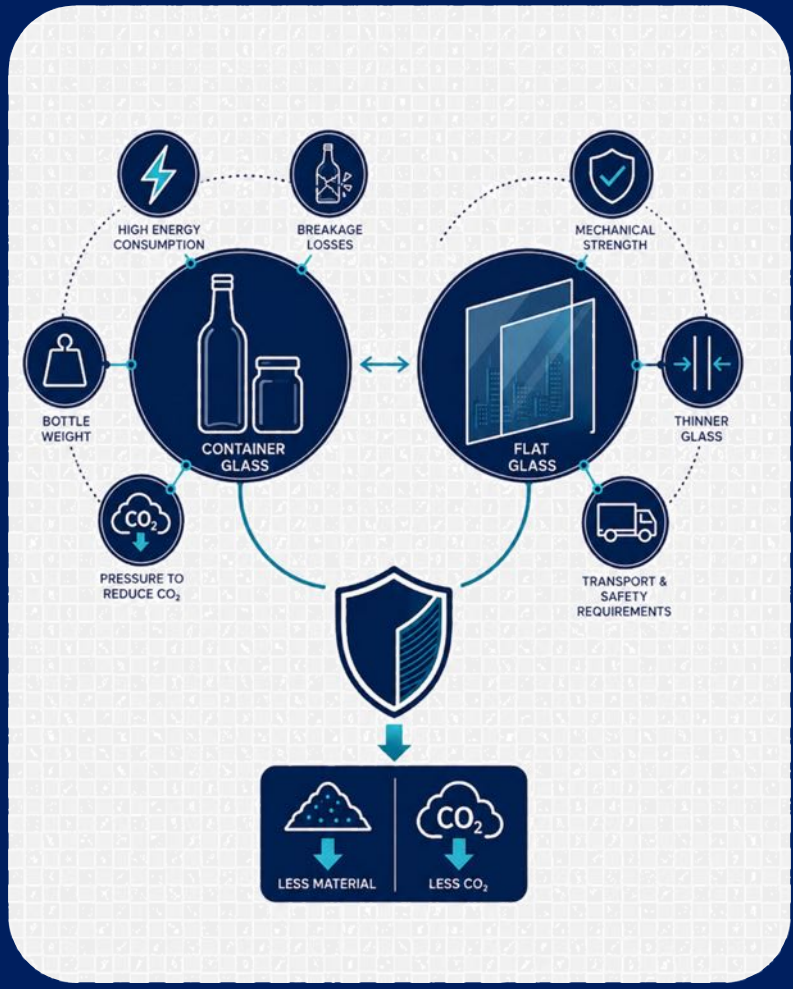
The Challenge – Stronger and Lighter Glass

INDUSTRIAL STARTING POINT

Container Glass
Reduce Glass Weight and Material Consumption
Maintain Mechanical Performance and Product Safety

All Glass Segments
Reduce Energy Demand and CO_2 Emissions
Maintain Industrial Productivity

Higher strength enables lighter glass – provided it is validated for the specific product.



Contribution of ReViSalt

Samorith



Innovative strengthening for lightweight and durable glass

+

SaltClean

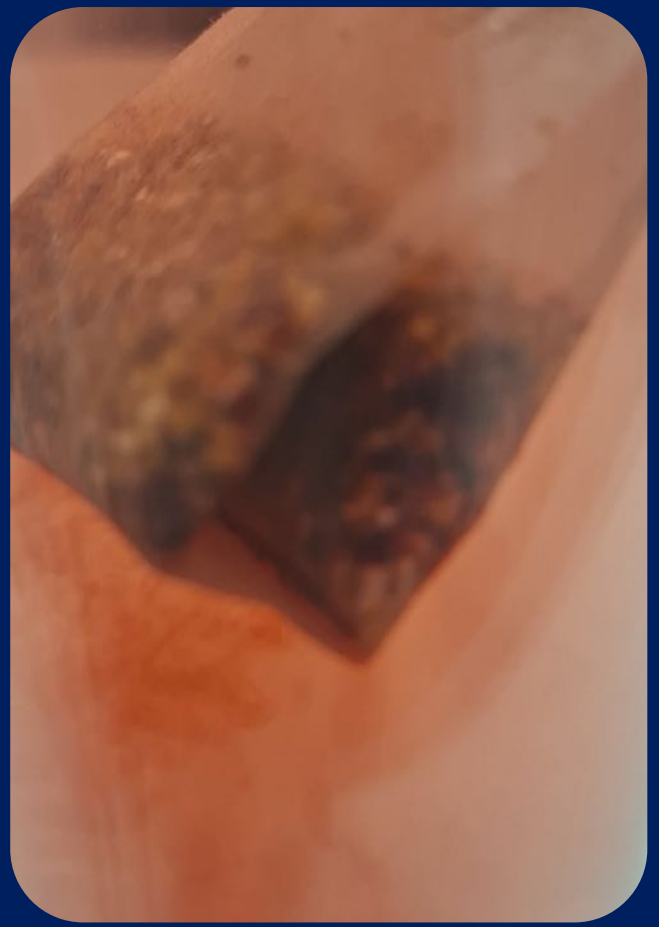


Innovative regeneration material for the cost-effective and sustainable operation of salt baths

SaltClean – Salt Bath Regeneration – Key to Cost-Efficient Operation

SALT MANAGEMENT

- Salt aging in the bath impairs process stability
- Salt replacement causes costs, waste, and downtime
- Regeneration extends the service life of the bath
- Less frequent replacement supports continuous operation



Samorith

Combines the benefits of:

Thermal Tempering



+

Chemical Tempering



in a single system

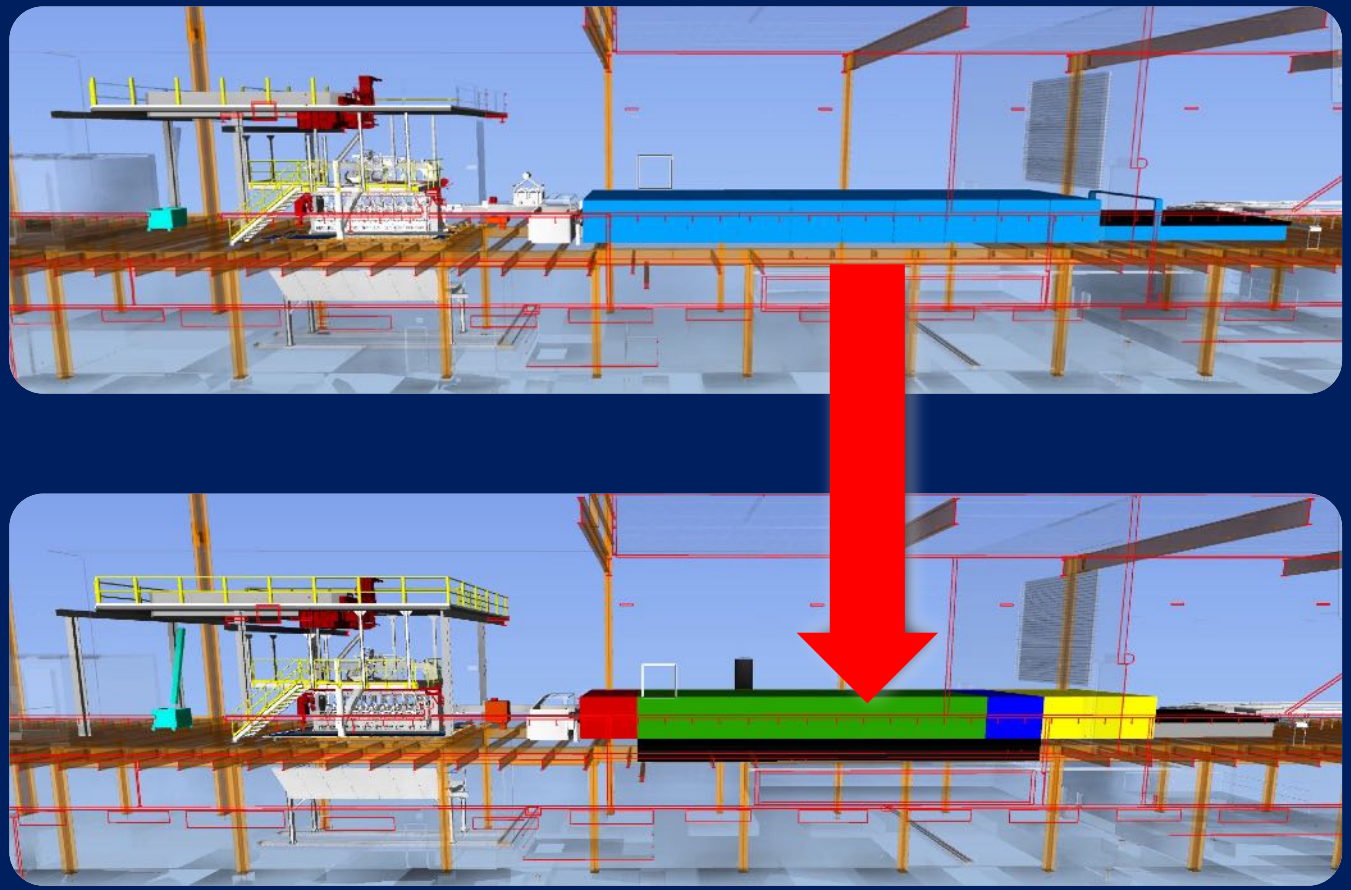
Inline Strengthening – Integration into Glass Production

CONCEPTUAL PROCESS SEQUENCE

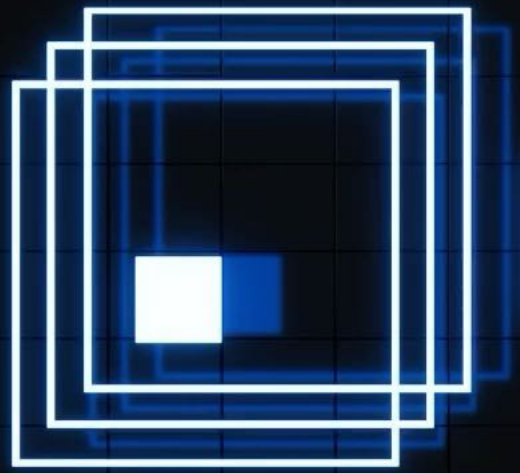
1. **Heating**
2. **Salt Treatment**
3. **Cooling / Salt Removal**
4. **Washing**

- Continuous Glass Transport
- Reduced Batch Handling
- Modular Process Concept

Concept Animation – Next Slide



Container Glass Inline Strengthening



ReViSalt

From Technical Validation to Industrial Production

THE PATH TO INDUSTRIALIZATION



Validation of performance, stable operation, repeatability, and throughput. Generate reliable CAPEX/OPEX data before commercial use.

Industrial Lightweighting Potential – Requirements and Opportunities

APPLICATION EXAMPLE: CONTAINER GLASS

- Increased Mechanical Resistance
- Potential for Reduced Container Weight
- Less Glass per Unit Produced
- Validation of Impact, Compression, and Handling Strength

0,7l
623g



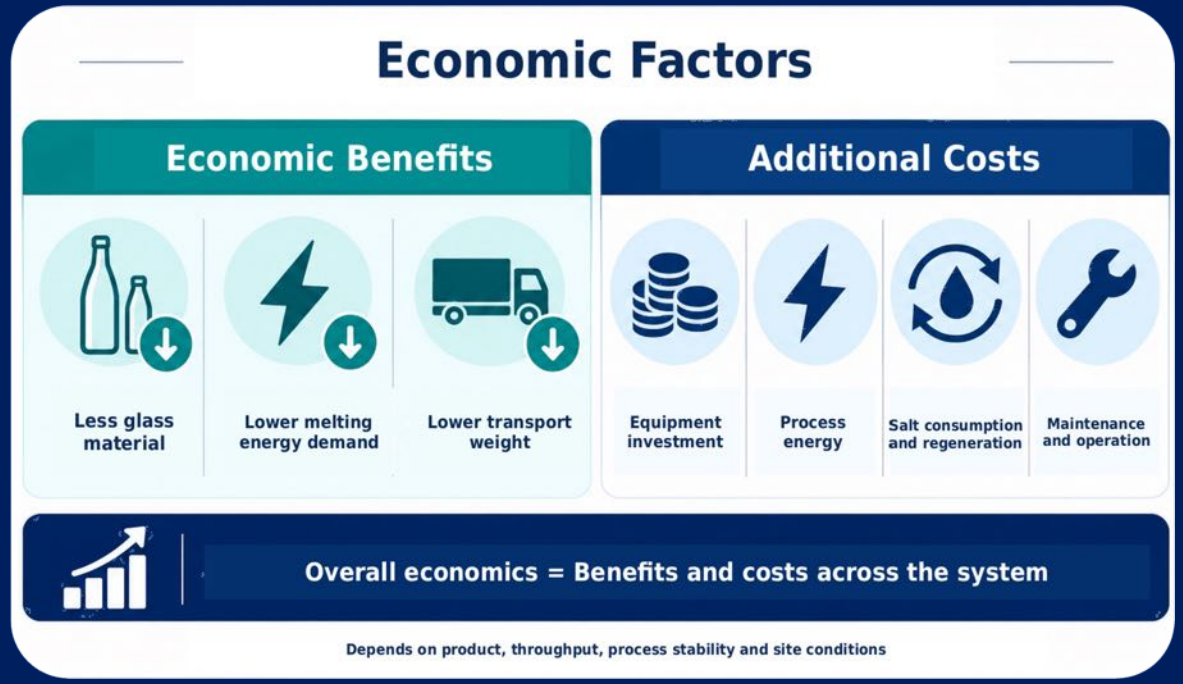
0,7l
234g

The achievable lightweighting potential depends on the product, design, and required mechanical properties.

Industrial Economics – More Than Weight Reduction

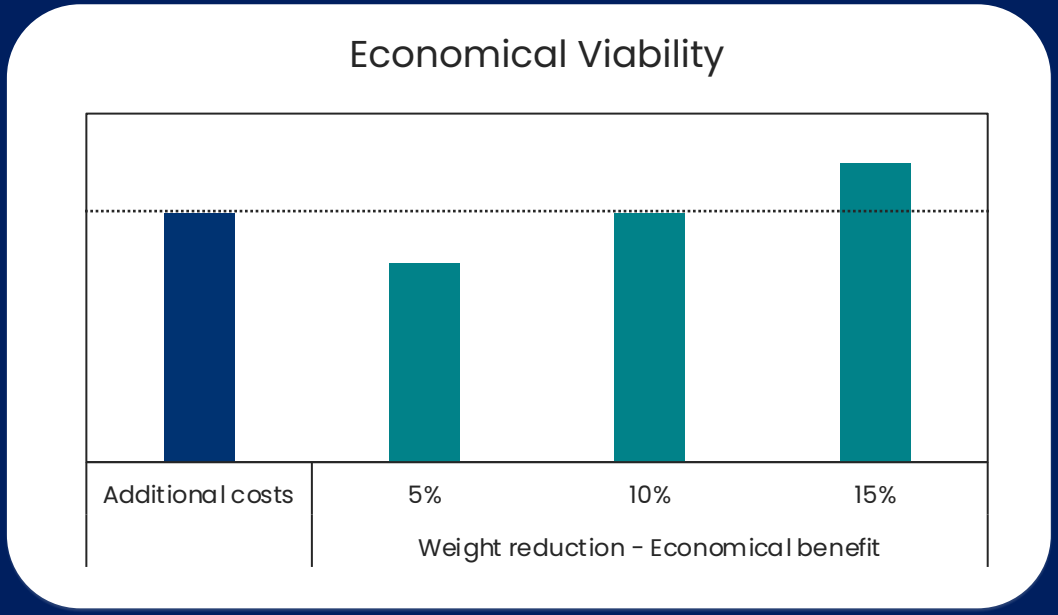
TOTAL-SYSTEM VIEW OF ECONOMIC VIABILITY

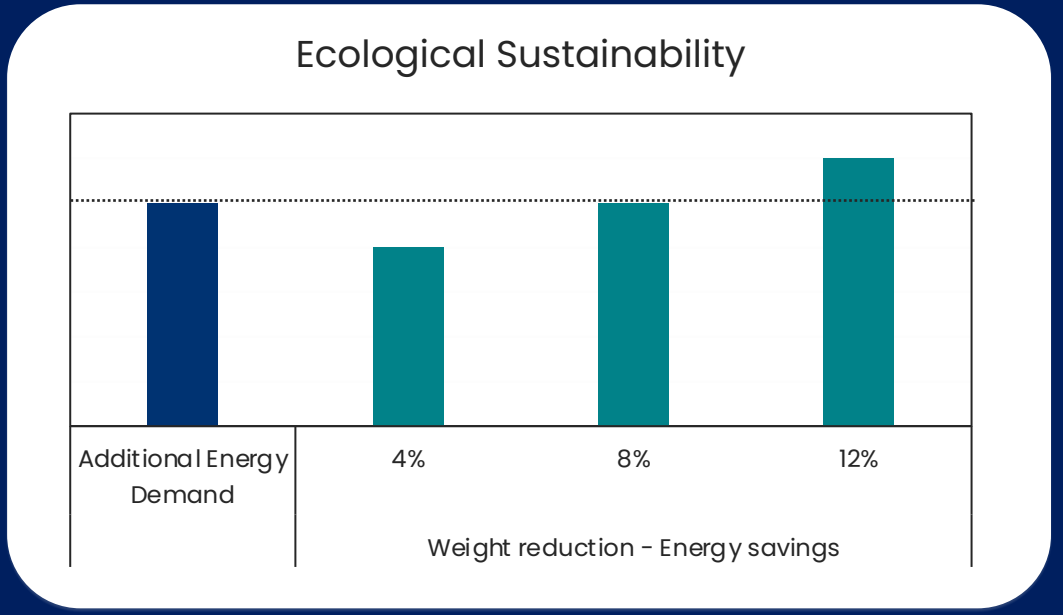
- Material and Energy Savings
- Investments in Equipment and Productivity
- Salt Consumption and Regeneration
- Maintenance and Operating Costs.



Industrial Economics – More Than Weight Reduction

TOTAL-SYSTEM VIEW OF ECONOMIC VIABILITY





The economic viability of glass strengthening results from the material savings relative to the additional capital and operating costs.

Beyond Container Glass – Further Applications

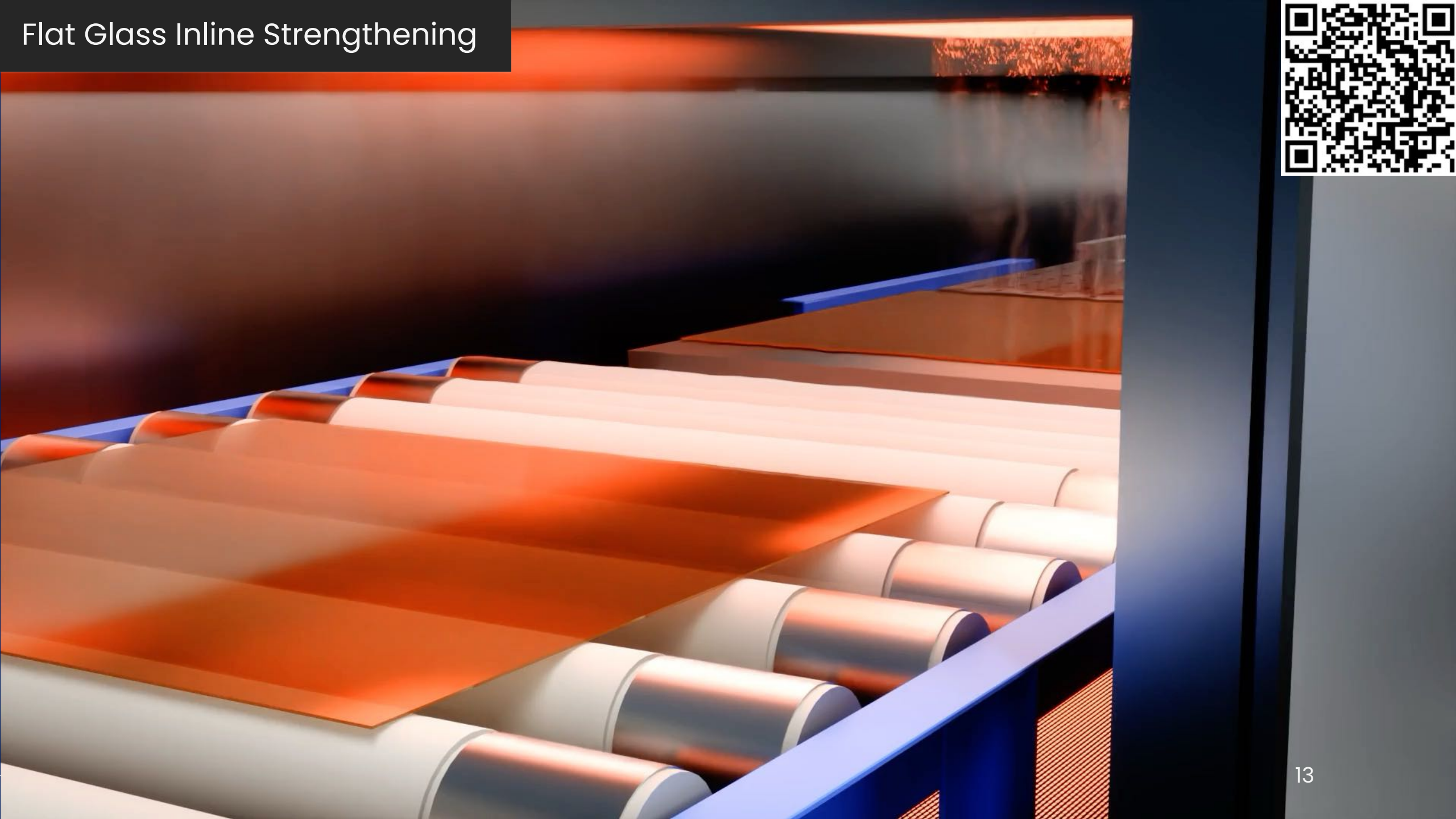
FURTHER INDUSTRIAL APPLICATIONS

- Tableware
- Pharmaceutical Glass
- Architectural Glass
- Solar Applications
- Display Glass
- Automotive
- Technical Glass



Every glass type is possible to be processed with Samorith.

Flat Glass Inline Strengthening



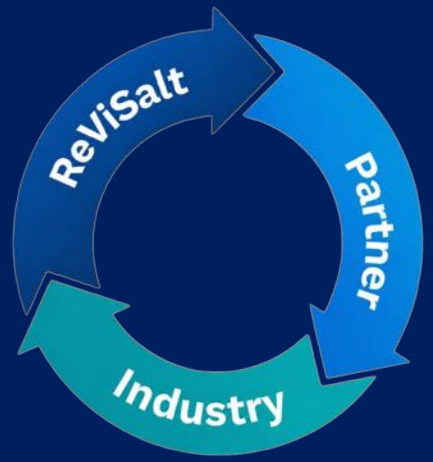
Outlook – Towards a New Industrial Process Step

CONCLUSION

- Samorith strengthening enables new process concepts
- Regeneration supports operating efficiency
- Inline technology paves the way for mass production
- Industrial validation is the next decisive step

The next step in glass strengthening is not simply a faster process. It is the integration of strengthening, salt management, and continuous production into a technically and economically viable industrial system.

Thank you.



SAXEED
Europäische Union
Europa fördert Sachsen.
ESF
Europäischer Sozialfonds
Diese Maßnahme wird mitfinanziert durch Steuermittel auf der Grundlage des vom Sächsischen Landtag beschlossenen Haushaltes.
Gefördert durch:
Bundesministerium für Wirtschaft und Energie
aufgrund eines Beschlusses des Deutschen Bundestages
eXIST
Existenzgründungen aus der Wissenschaft

ReViSalt

ReViSalt

www.revisalt.com

Michael Heidan

mheidan@revisalt.com