

FutureBridge

CAPABILITY SHOWCASE

Packaging Operations

Industrial Business Deck





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01

Market Overview

Packaging Landscape: A 360° view of the packaging ecosystem

Formats

Primary



Rigid
Bottles, Jars, Cans,
Tubs, Vials



Semi-Rigid
Cups, Trays, Clamshells,
Blisters, Cartons



Flexible
Pouches, Sachets, Bags,
Wraps, Lidding Films

Secondary



Cartons & Trays
Multipacks, wraparounds, Trays, Shelf-
ready packs



Banding & Wrapping Solutions
Paper bands, Paper straps, Paper
sleeves, Shrink Films, Stretch Films



Alternative Carriers & Bundling
Glue-bond multipacks, Clip-style, collar
carriers, Bottle clip carriers

Tertiary



Shipping Containers
Corrugated cases, Pallet boxes,
Crates, Drums, Returnable



Load Platforms
Pallets, Skids, Slip sheets, Pallet
collars, Roll cages



Protective & Dunnage
Dividers, Inserts, Cushioning, Void fill,
Blocking and bracing

Automation



Line Feeding
Depalletizer, Unscramblers, infeed, robotic
handling, bulk feeding systems



Changeovers
Automatic changeover, Quick-change
tooling, recipe management



End-of-Line & Intralogistics
Case Packers, Palletizers, AMRs,
Strapping & Banding, ASRS

Materials



Plastic
(PET, HDPE, LDPE, PP,
PVC, PS, Others)



Paper & Board
(Kraft paper, recycled board,
corrugated board,



Metal
(Aluminium, Steel)



Glass
(Flint, amber, green glass)



Wood
(Timber, plywood,
engineered wood)



Textiles / Woven
(Flint, amber, green glass)



Protective Materials
(Timber, plywood,
engineered wood)

Processes



Blow Molding



Thermoforming



Form-Fill Seal



Metal & Glass Forming



Sealing & closing



Sterilization / Aseptic



Cartoning & Bundling



Palletization, Wrapping

Printing



**Prepress, Artwork and
Label Management**



Digital Printing



Hybrid Printing



Direct-to-Pack Printing



**Coding, Marking &
Serialization**



**Specialty & Compliant
Ink Systems**



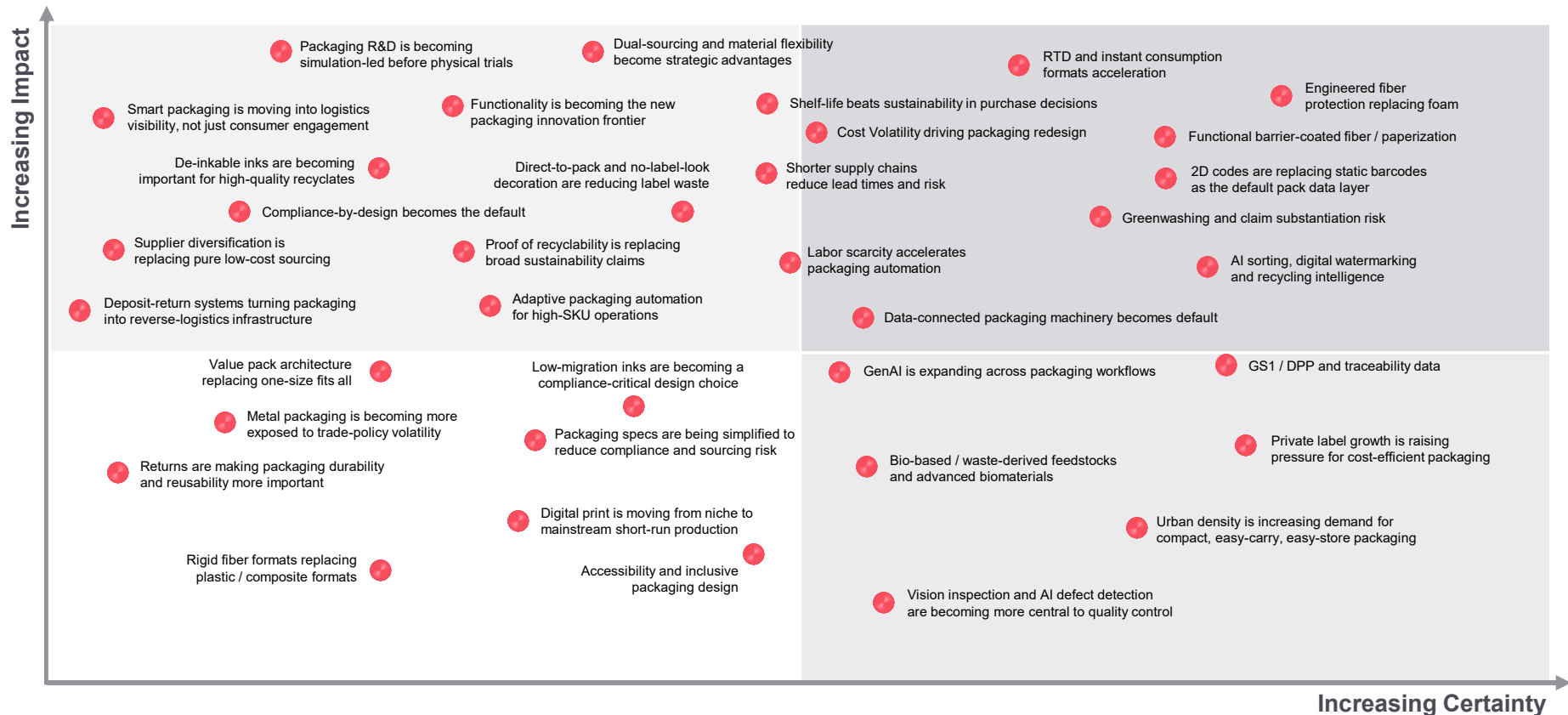
**Traceability and Anti-
counterfeit**



**Print Inspection &
Verification**

Major trends/developments influencing the industry

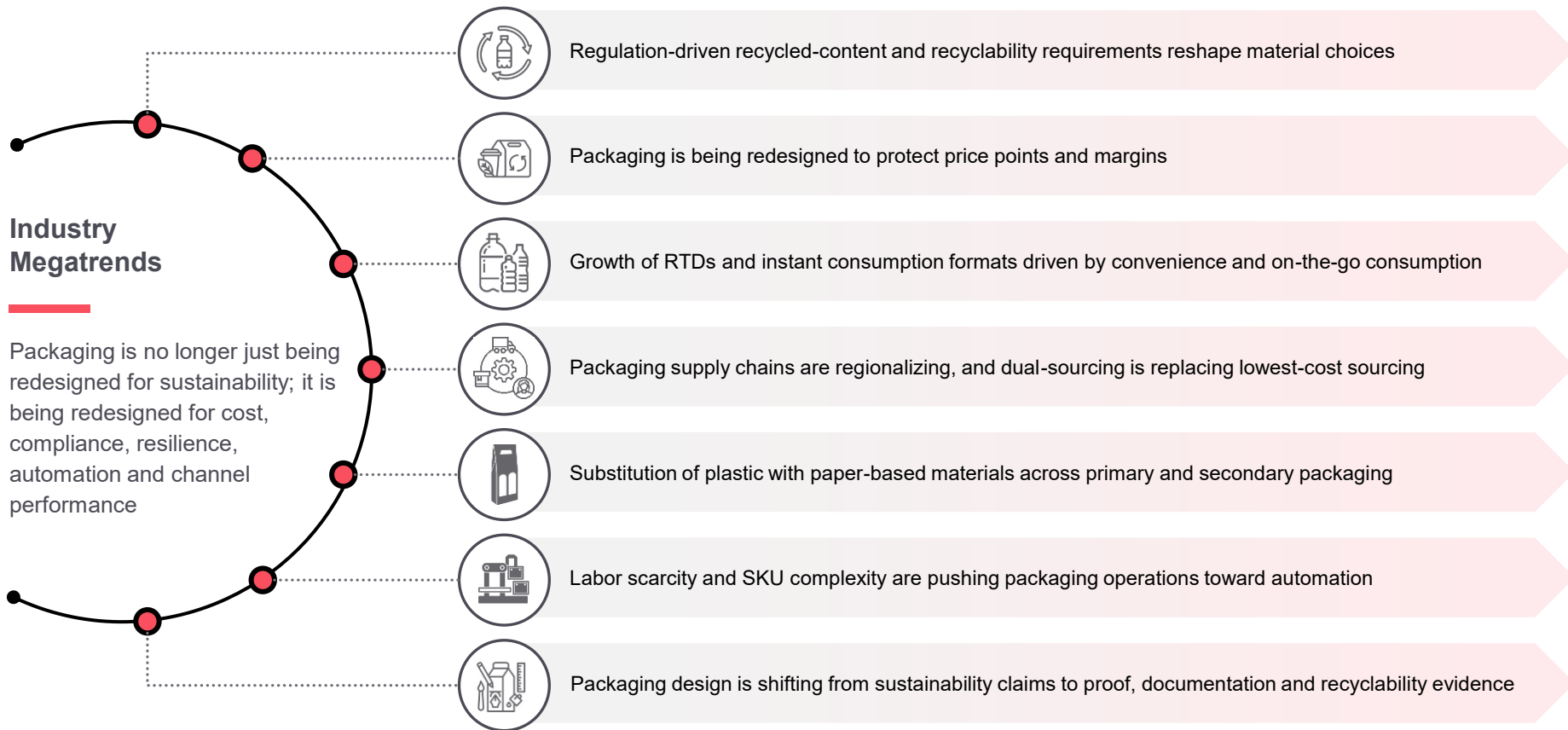
Major trends from innovation in packaging design to consumer trends that are shaping the packaging industry



Megatrends driving the packaging industry

Industry Megatrends

Packaging is no longer just being redesigned for sustainability; it is being redesigned for cost, compliance, resilience, automation and channel performance



Industry is transitioning from a fragmented, linear value chain to a tightly interconnected ecosystem driven by collaboration, circularity, and system-level integration



Collaboration is becoming the default operating model

- Increasing joint development across brand owners, OEMs, converters, and material players
- Brands partnering with **startups and recyclers for circular solutions**

Emergence of “Packaging Integrators” / Solution Aggregators

- Players providing end-to-end packaging solutions (design + sourcing + logistics + distribution)
- Acting as bridge between brand owners, converters, and suppliers

OEMs Expanding upstream & downstream

- OEMs are moving beyond machinery into digital solutions, recycling systems, and process engineering

Startups & adjacent players entering the ecosystem

- Innovation is increasingly coming from outside the traditional packaging ecosystem.
- Sustainability accelerators funding packaging startups and circular solutions

Shift toward flexible, modular, and distributed production

- Modular equipment and flexible production cells are enabling faster response to changing materials, formats, and SKUs
- Regionalized packaging and fulfillment networks are emerging to reduce lead times, logistics risk, and inventory pressure

The industry is trying to transform materials, formats, and systems simultaneously without breaking cost structures or operational reliability



02

Challenges and Opportunities

Key challenges for industry players

Major brands are aligning packaging objectives with sustainability, recycled content, automation, digitalization, and late-stage customization needs

SKU proliferation is turning flexibility into a margin problem



Sustainable substrates are harder to run consistently at industrial speed



Flexible packaging remains the industry's unresolved circularity knot



Smart packaging still searching for hard ROI outside high-risk use cases



Cost premiums are slowing the shift from sustainable pilots to scaled rollouts

High impact opportunity areas

Digital twin & AI layer for lines

Full-line digital twins, AI-driven process optimization and predictive maintenance platforms

Standardize pack components across SKU families

Rationalize closures, trays, cartons, labels, films, case sizes and secondary packs across product families.

Design for logistics optimization

Packaging redesign for pallet density, transport efficiency, and warehouse automation

Automate case sizing and secondary packaging selection

Use product dimensions, fragility data and order configuration to select the right case, mailer, void fill or no-added-box option

Material-to-line qualification services

Build material-to-line qualification services that validate sustainable materials under real production conditions before scale-up

Modular automation retrofits for existing lines

Upgrade brownfield lines with AI vision, cobots, sensors, assisted setup, case packing, and palletizing modules

Multi-material design capabilities

Design solutions that work across virgin PET, rPET and bio-based materials

Plug-and play packaging ecosystems

Modular lines that integrate third-party components and digital layers



03

FutureBridge Experience

How can FutureBridge help?

Support clients in navigating the future of packaging by identifying opportunities across AI-enabled operations, connected packaging, circular materials, automation, customization, traceability, and resilient supply chains.



Innovation / Solution / Technology Scouting

Identify and evaluate technologies, solution providers, startups, OEMs and partners across packaging materials, formats, automation and digital layers.



Future Roadmaps & Future of X

Develop practical roadmaps showing how packaging technologies may evolve and where adoption should occur.



Customer Analysis & VoC

Identify customer needs, decision criteria, pain points and adoption barriers through stakeholder interviews, surveys and secondary research across target segments and value-chain participants.



Market and Competitive Analysis

Assess market size, growth drivers, demand pockets, competitive intensity, key players, offerings, pricing, differentiation and white-space opportunities across relevant geographies and applications.



Strategy (Positioning, GTM)

Define target segments, value proposition, positioning, entry routes, channel strategy, pricing logic and go-to-market priorities to support commercial launch or expansion decisions



M&A & Partner Identification

Identify and evaluate acquisition targets, technology partners, suppliers, distributors, OEMs and ecosystem players based on strategic fit, capabilities, market access and partnership potential



Mobility & Industrial Business Leadership Team



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FutureBridge is a techno-commercial consulting and advisory company. We track and advise on the future of industries from a 1-to-25-year perspective.



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