Special coatings for special applications

Hans van der Weijde

Self clean

Thermochrome

Dry-lub

Anti-graffiti

Or…..

Can performance

Sustainability

Efficiency

Inspirational story

(maybe not directly applicable for your situation but think about a parallel)

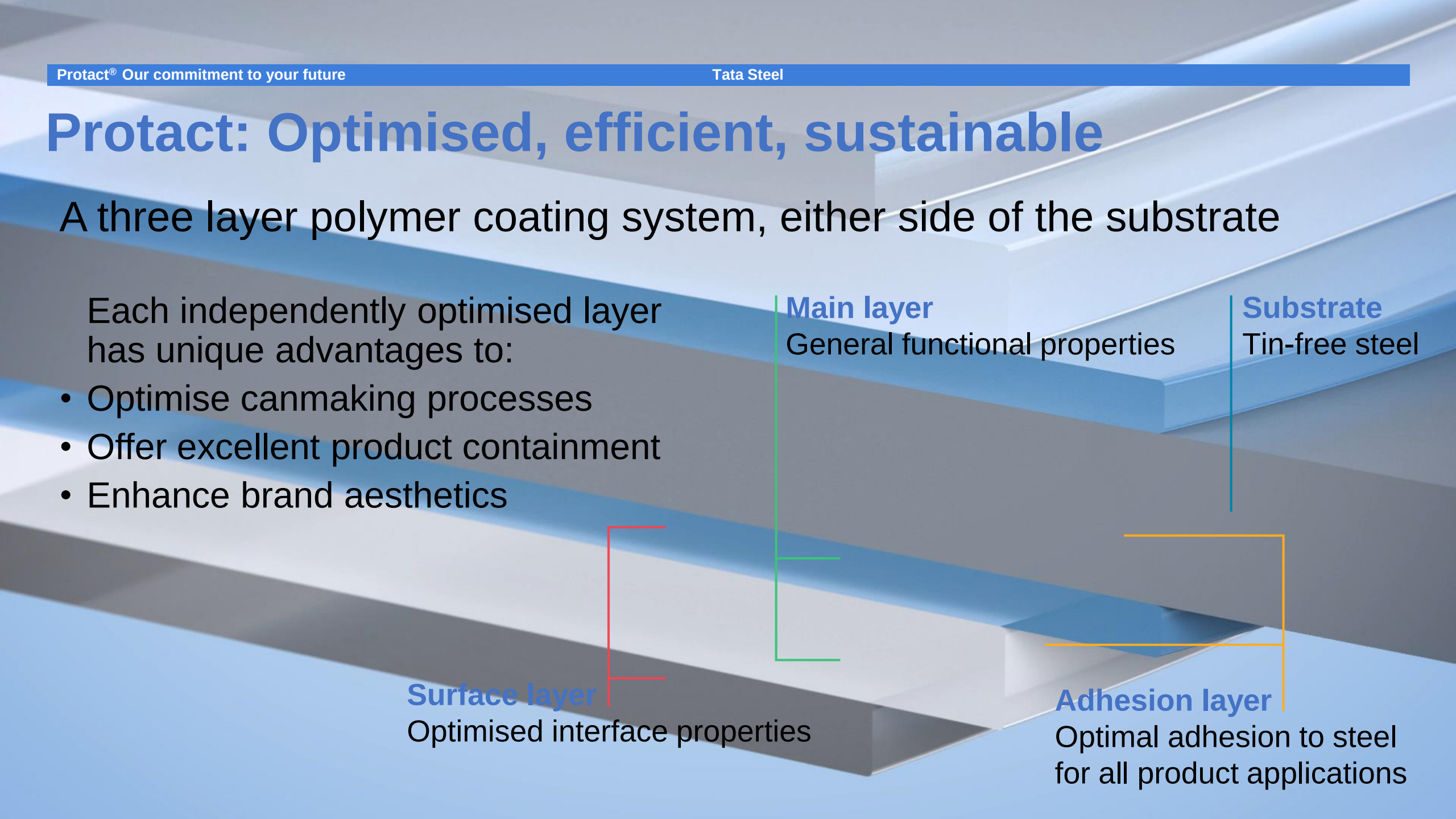
Protact® Our commitment to your future

Protact: Optimised, efficient, sustainable

A three layer polymer coating system, either side of the substrate

Each independently optimised layer has unique advantages to:

- Optimise canmaking processes
- Offer excellent product containment
- Enhance brand aesthetics



Main layer
General functional properties

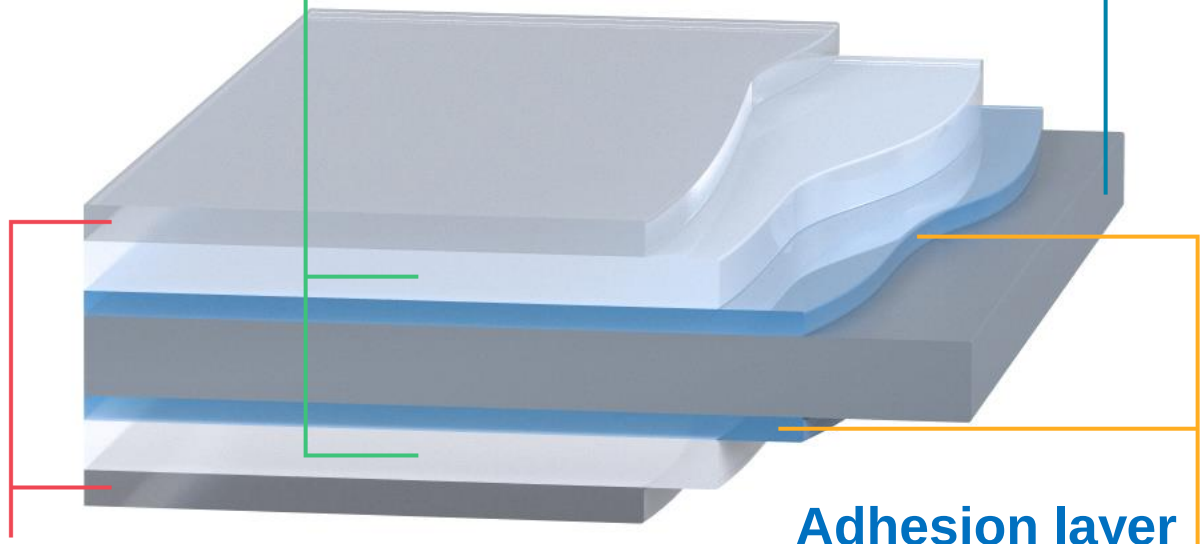
Substrate
Tin-free steel

Surface layer
Optimised interface properties

Adhesion layer
Optimal adhesion to steel for all product applications

Protact: Optimised, efficient, sustainable

D&I 2-piece Food



Main layer
Optimised for non-blushing performance or coating colour

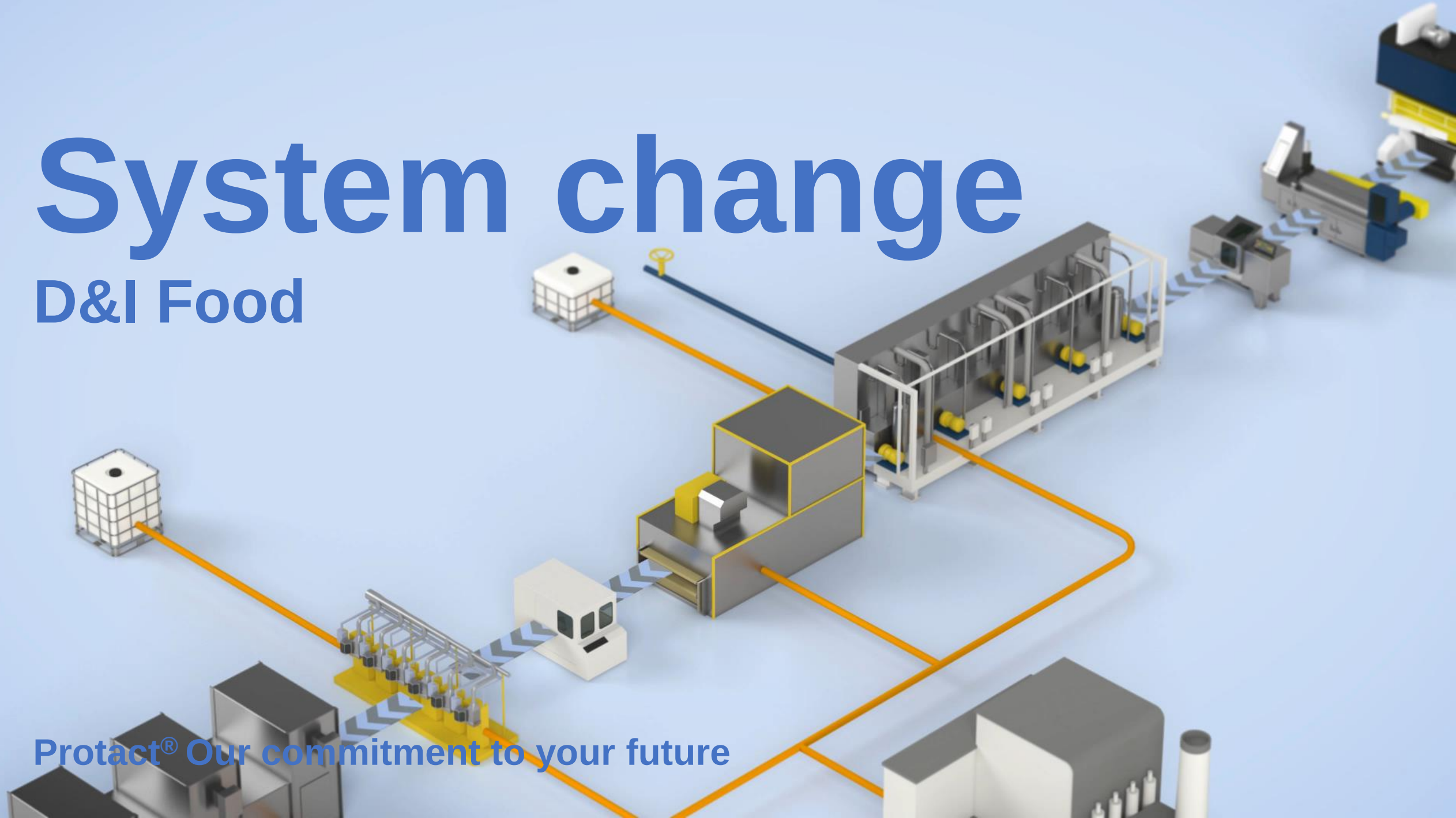
Substrate
Packaging steel substrate

Surface layer
Optimised for forming performance or content release

Adhesion layer
Optimised for sterilisation

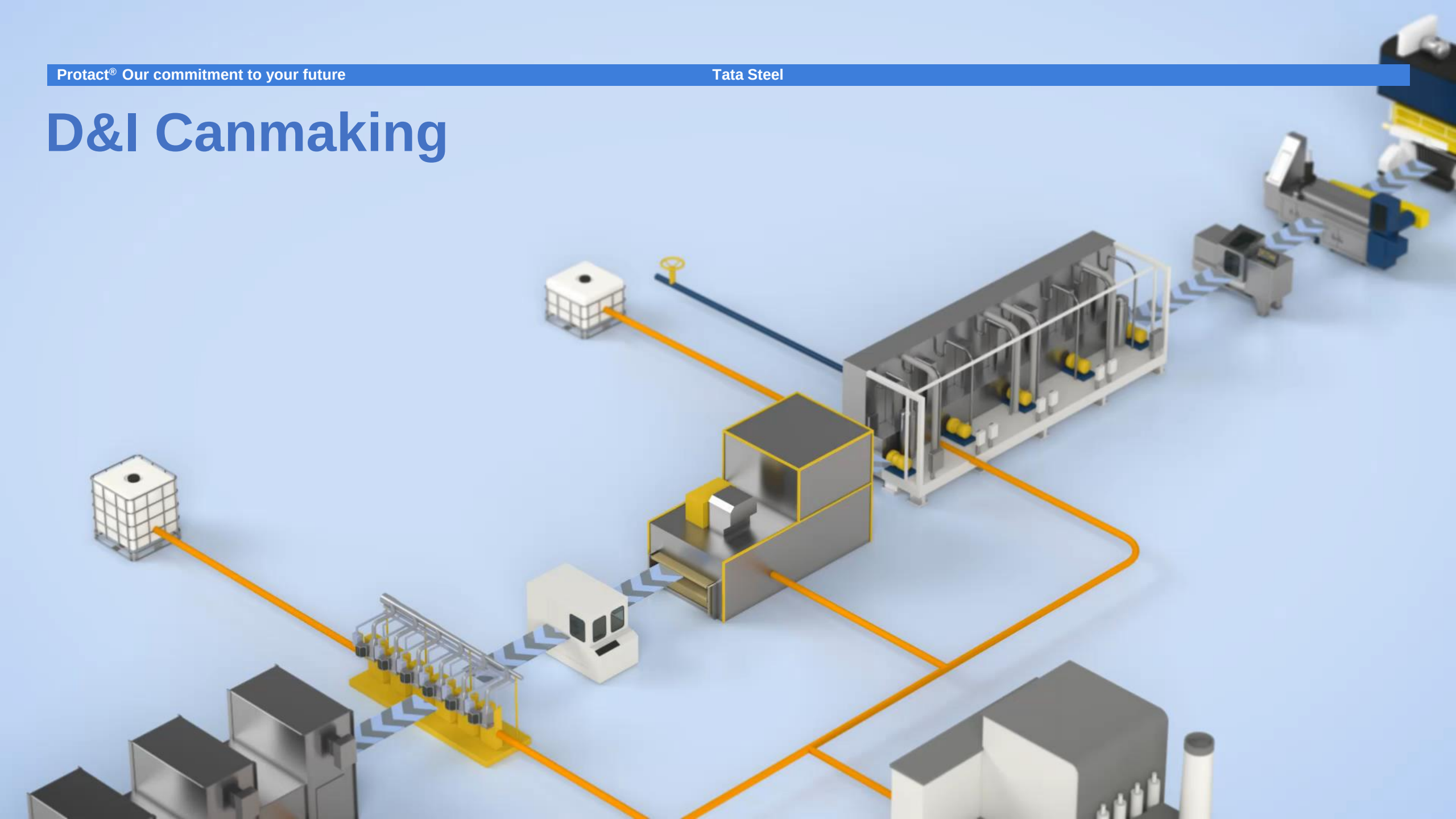
System change

D&I Food

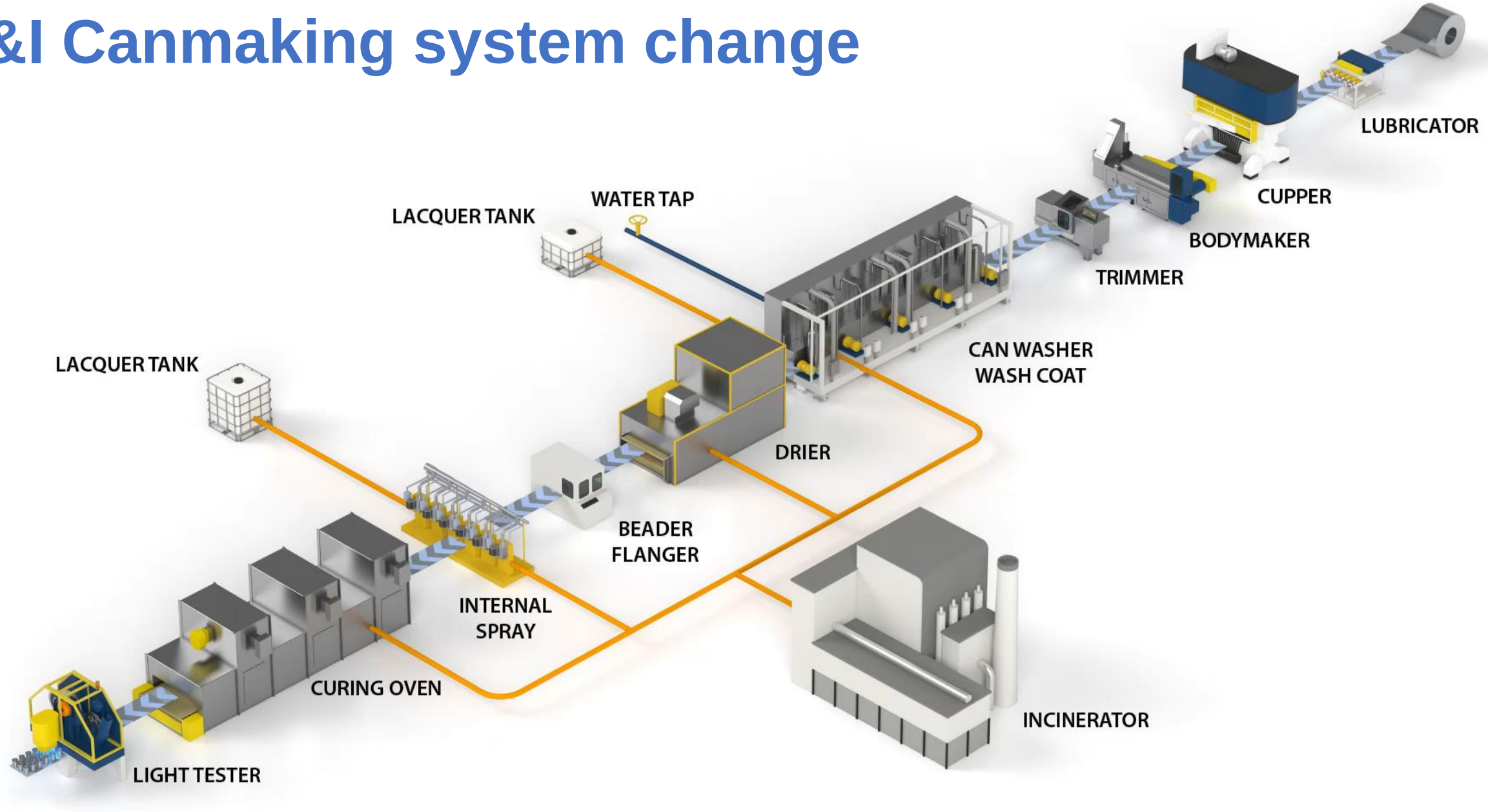


Protact® Our commitment to your future

D&I Canmaking



D&I Canmaking system change

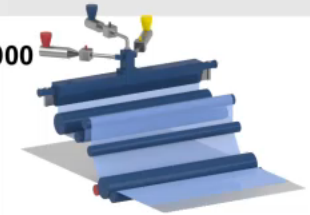


Special coatings for special applications

Technology leader investing to meet demand

600
300
100
0

1985 2000 2015 2030 >



1992 Investment
Film lamination line
Trostre, South Wales

2000 Investment
Co-extrusion coating line
Duffel, Belgium

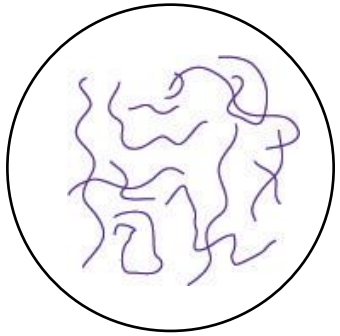
1996 Investment
Pilot line for three layer co-extruded coatings

Cooperation
CARNAUDMETALBOX

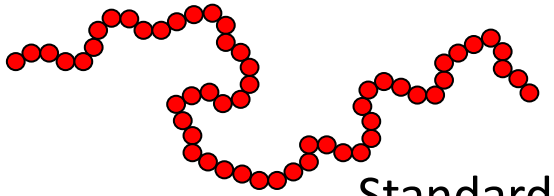
Cooperation
EASTMAN

Protact: Optimised film performance

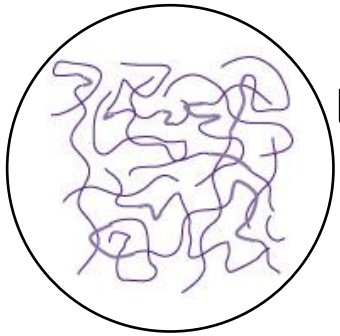
Coating compositions and chemistries fit for purpose



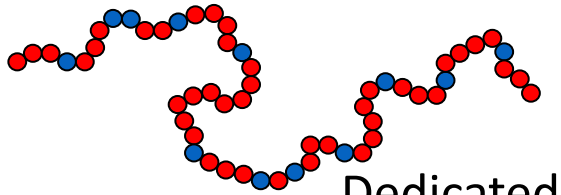
Short-chains limit coating formability



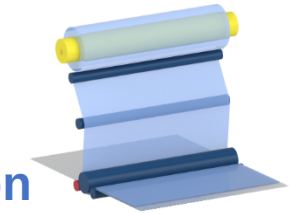
Standard chemistry



Long-chains more formable coatings



Dedicated chemistry

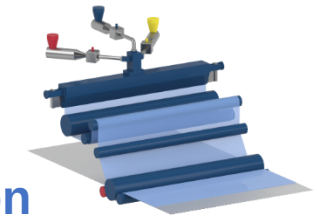


Conventional lamination

Short-chain polyester grades

Limited formability

Standard chemistry

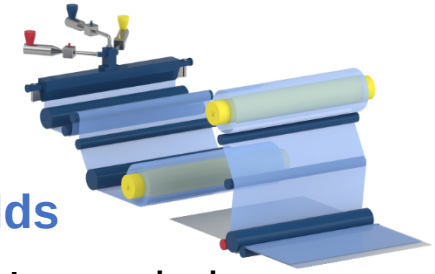


Direct extrusion

Long-chain polyester grades

Improved formability

Dedicated chemistry



Best of both worlds

Flexibility: Short & Long-chain

Tailored formability

Dedicated chemistry

Today’s opportunity

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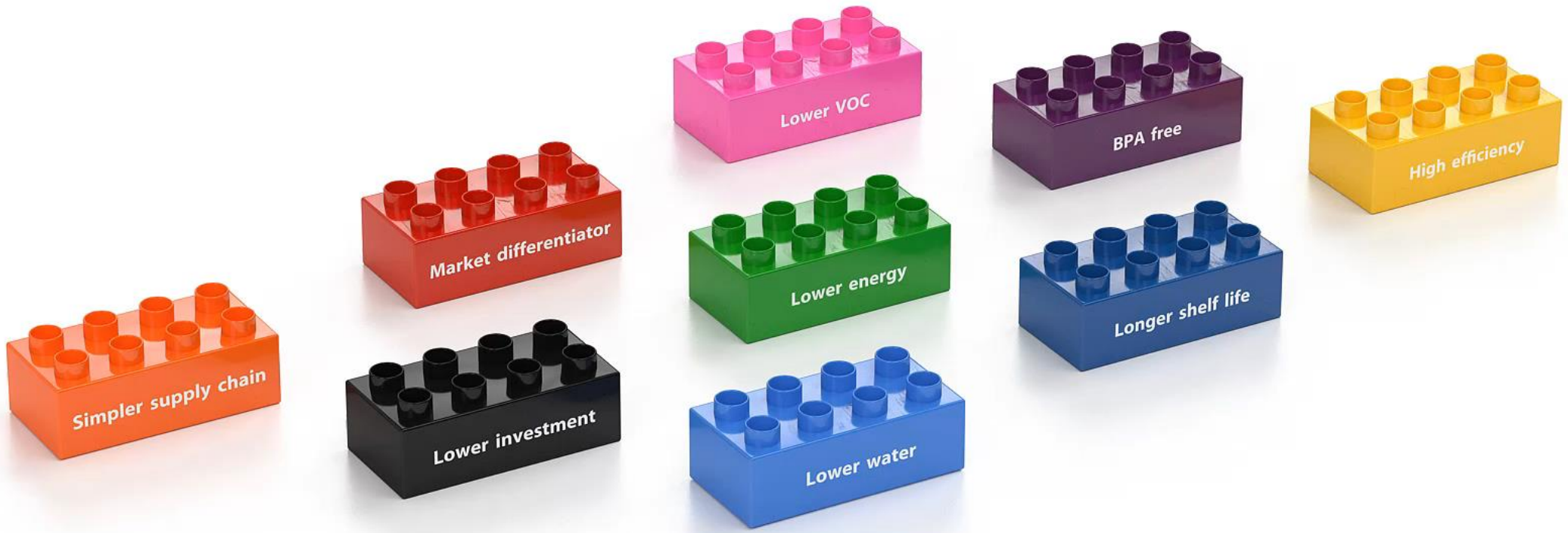
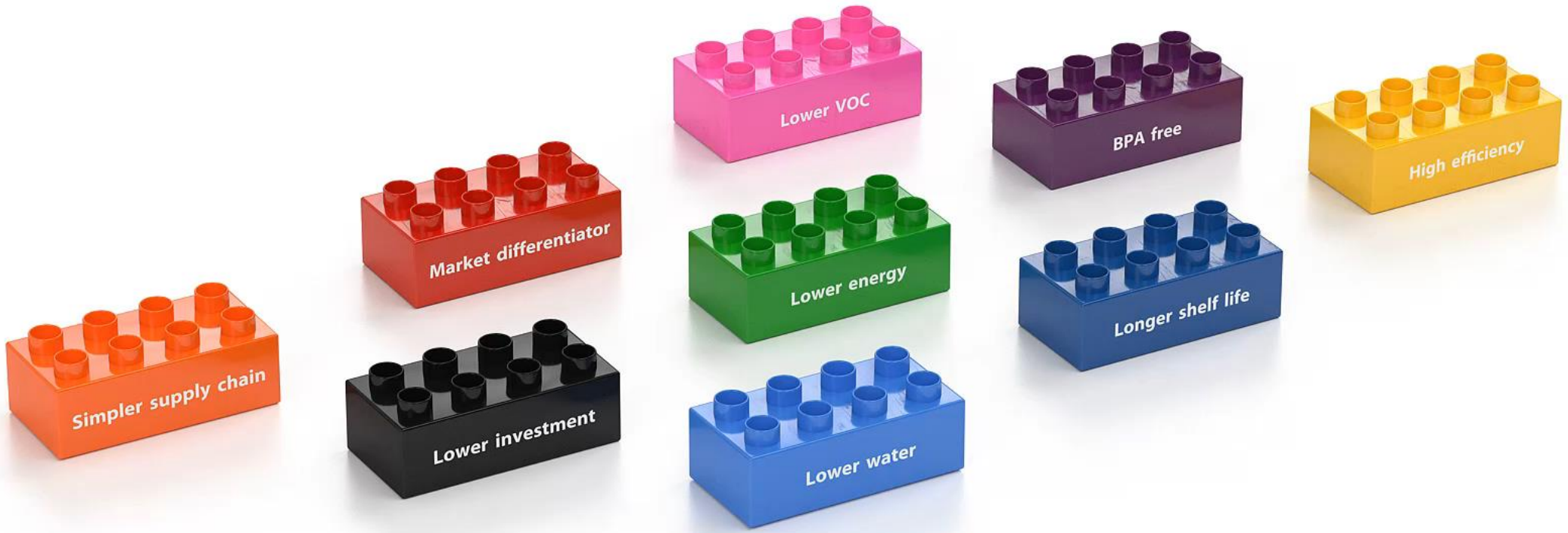
Advantages

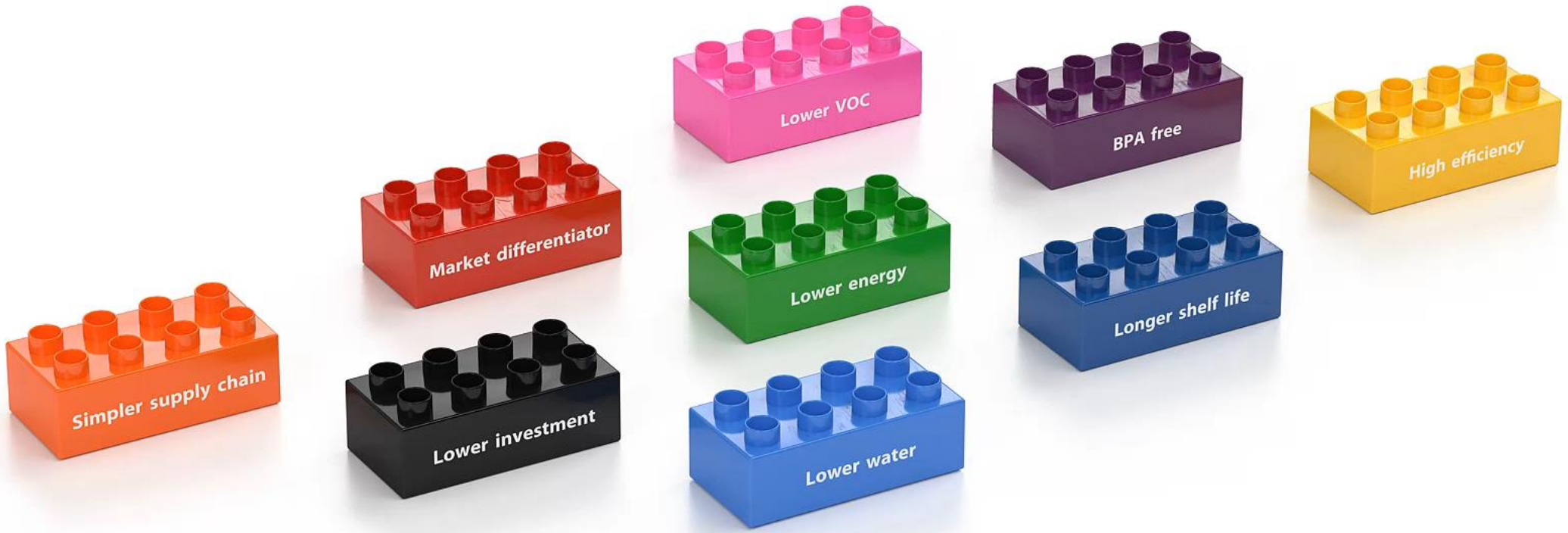
France BPA free



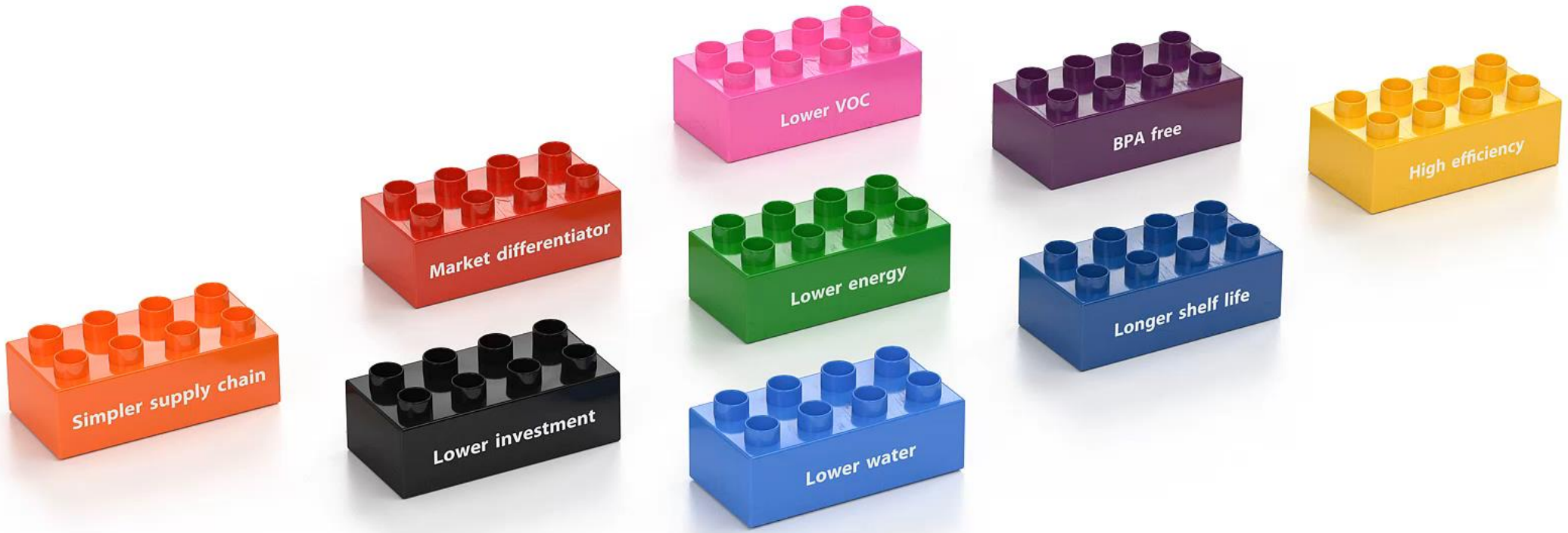
Africa Lower water



California Lower VOC



South America Simpler Supply Chain



Protact®

Our commitment to your future

Together we make the difference