



# Safripol Sustainability Conference 2024

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Pioneering solutions to problematic plastic waste  
streams

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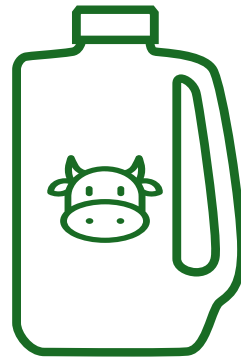




# Certain plastic packaging is currently widely recycled



*Clear PET  
drinks bottles*



*HDPE milk  
bottles*

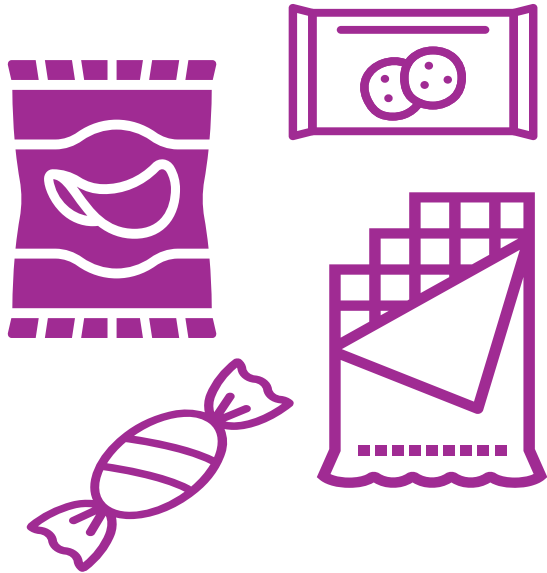


*PP tubs*

However, there are several that are much more challenging to manage



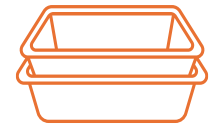
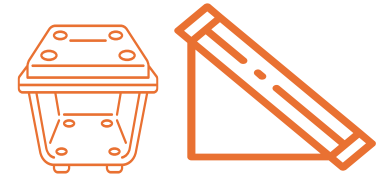
**Snack packaging**



**Multilayer bags & pouches**



**PVC honey & bubble bath bottles**



**Thermoform packaging**

## 3 key issues underly these challenges



Weight of packaging

Contamination

Limited / no end-use for the recyclate

Globally, these materials are also a real challenge, with no meaningful solutions available



*Examples of global attempts to deal with some problematic waste streams*



Incineration\*



Collection pilots – brand owner & retailer-driven



Incorporation into road building materials



Tray-to-tray recycling



Delamination, compatibilisation and selective dissolution



Chemical recycling



***There are almost no mechanical recycling solutions available internationally.***

\* Not PVC.



**S.A. “maak ’n plan”**

# Local player leading the way in designing for circularity



**Master plastics**

- PE solutions to replace multi-material packaging
- Hybrid films that can be recycled with LDPE
- Recyclable vacuum packaging for high barrier applications

Soup pouches – Hot fill / cold shelf

Dried fruit and nuts

Dry foods including noodles

Wraps

Sauces

Confectionary – sweets

Frozen foods – fish, mussels etc.





Boards, roof sheeting,  
decorative boards and housing  
solutions





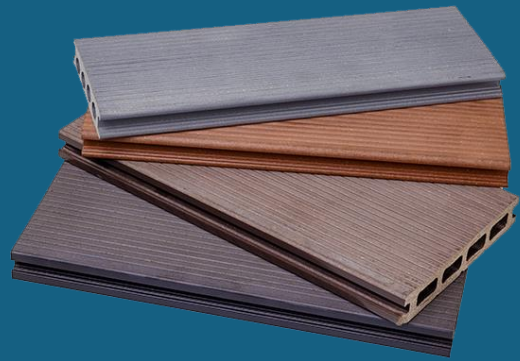


A mature “polyplank” industry  
with design players who  
continue to innovate

“A viable alternative to hardwood”







## PVC wood composites

Using recycled PVC bottles and pipes  
and wood shavings

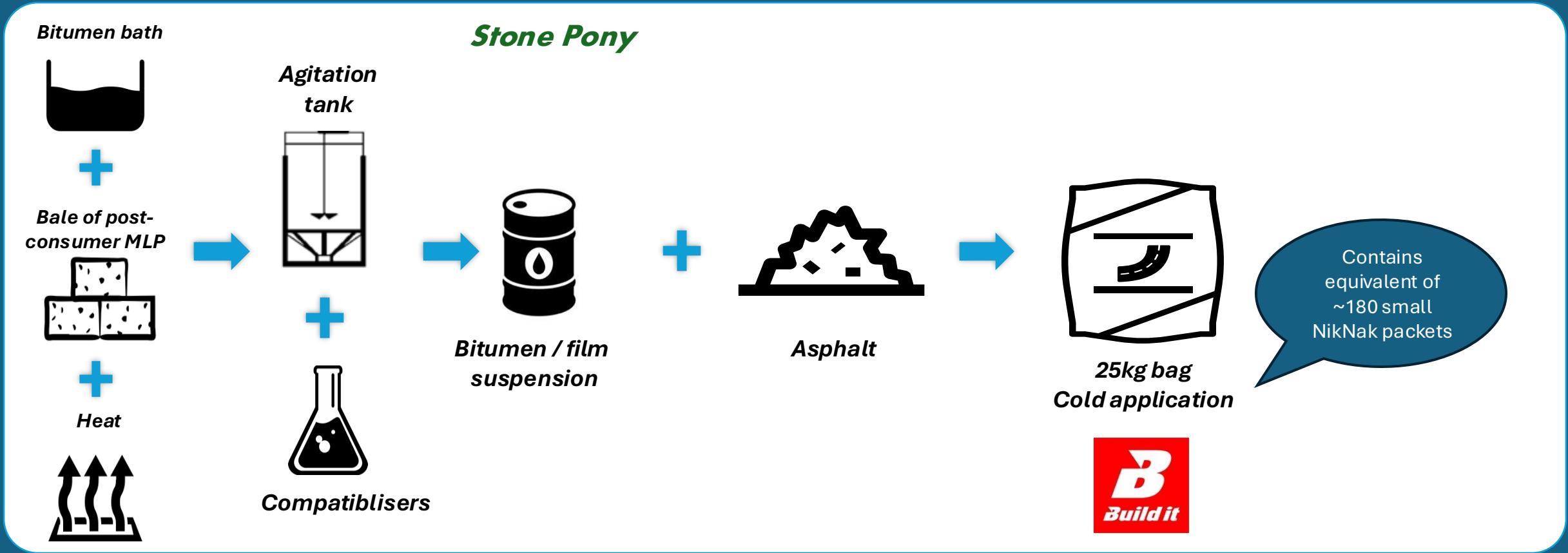
**nøwatech**





# Asphalt binder containing multilayer plastics

For pothole mixes, cold tar roads & private paving projects





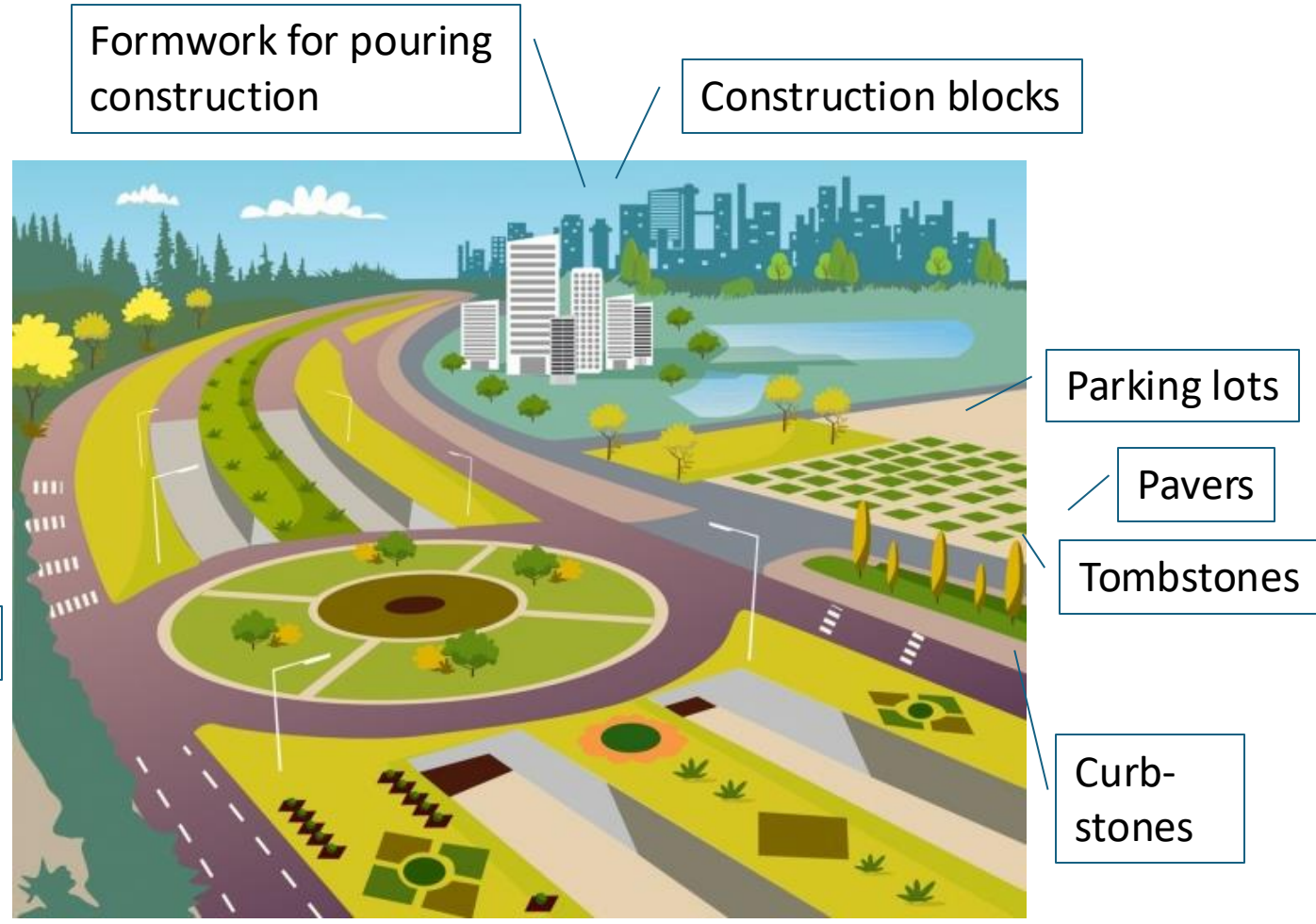
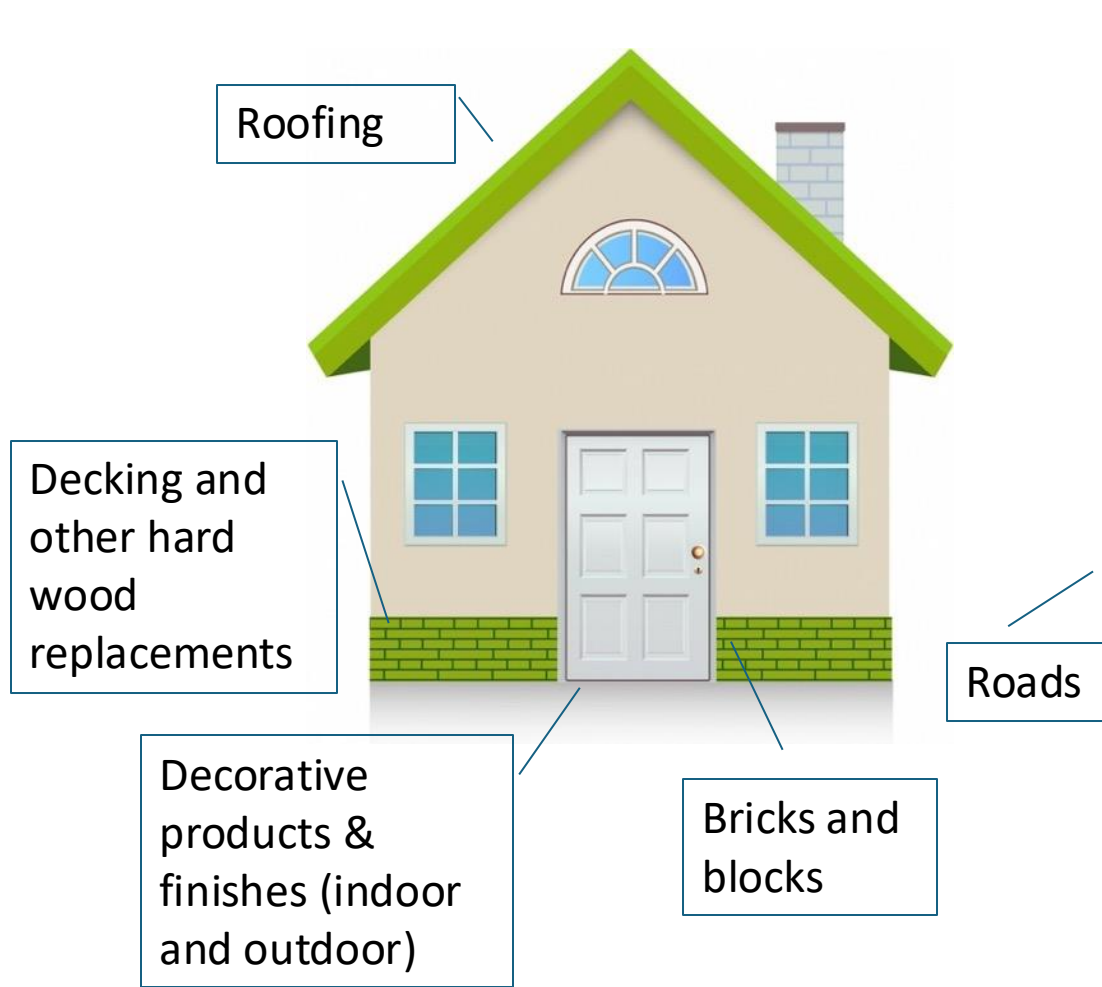


Decorative concrete

Tiles, counter- and  
tabletops, tombstones



# The built environment offers a sizeable opportunity for uptake of problematic plastic waste – and we already have the solutions!





**We Need**

**YOU**



# Thank you

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