

Closing the loop: ETICS on track towards circular economy?

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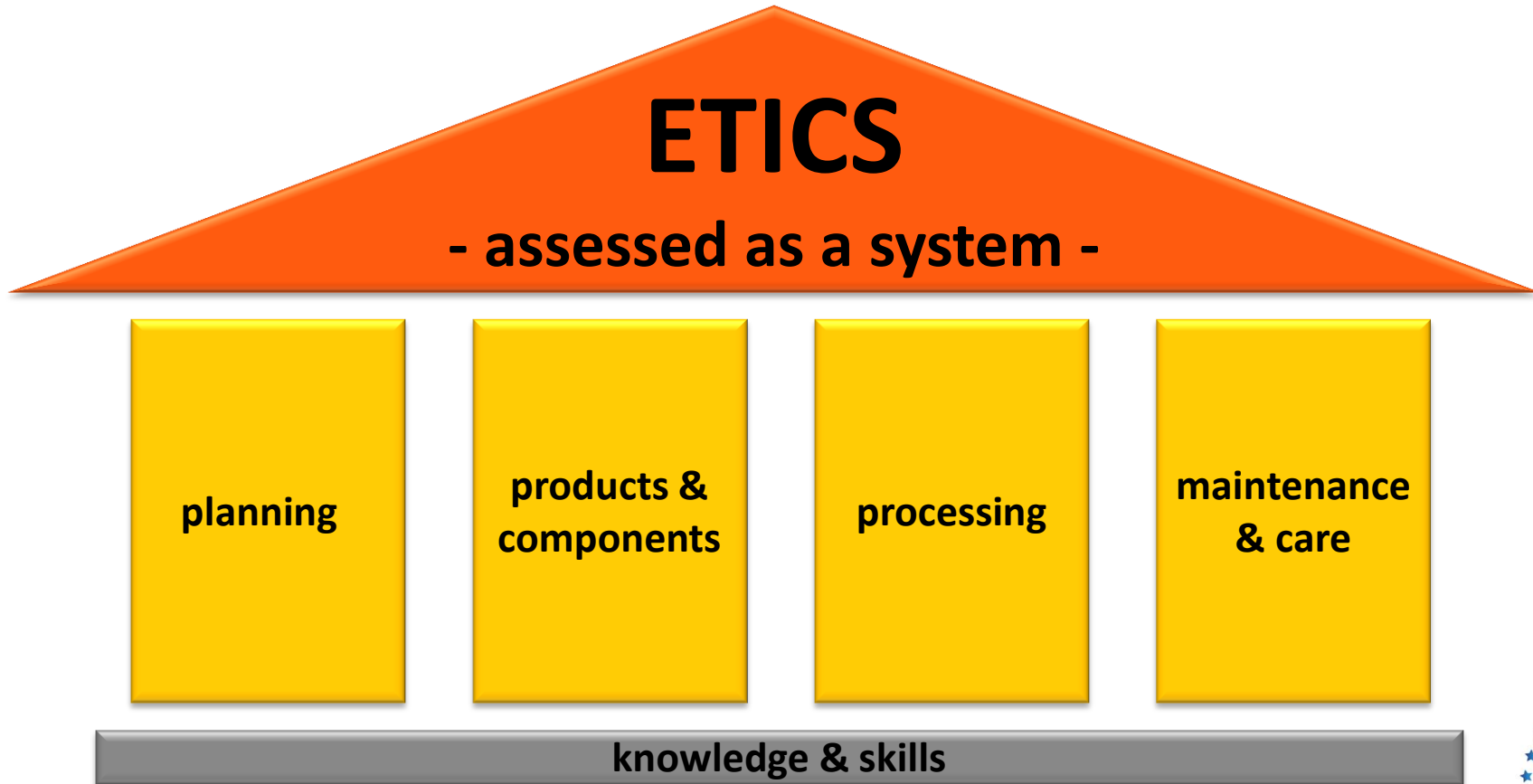
EAE board member Technical Affairs

ARGE Qualitätsgruppe Wärmedämmsysteme, ÖSTERREICH/AUSTRIA

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our traditional holistic approach already included the life-cycle of ETICS

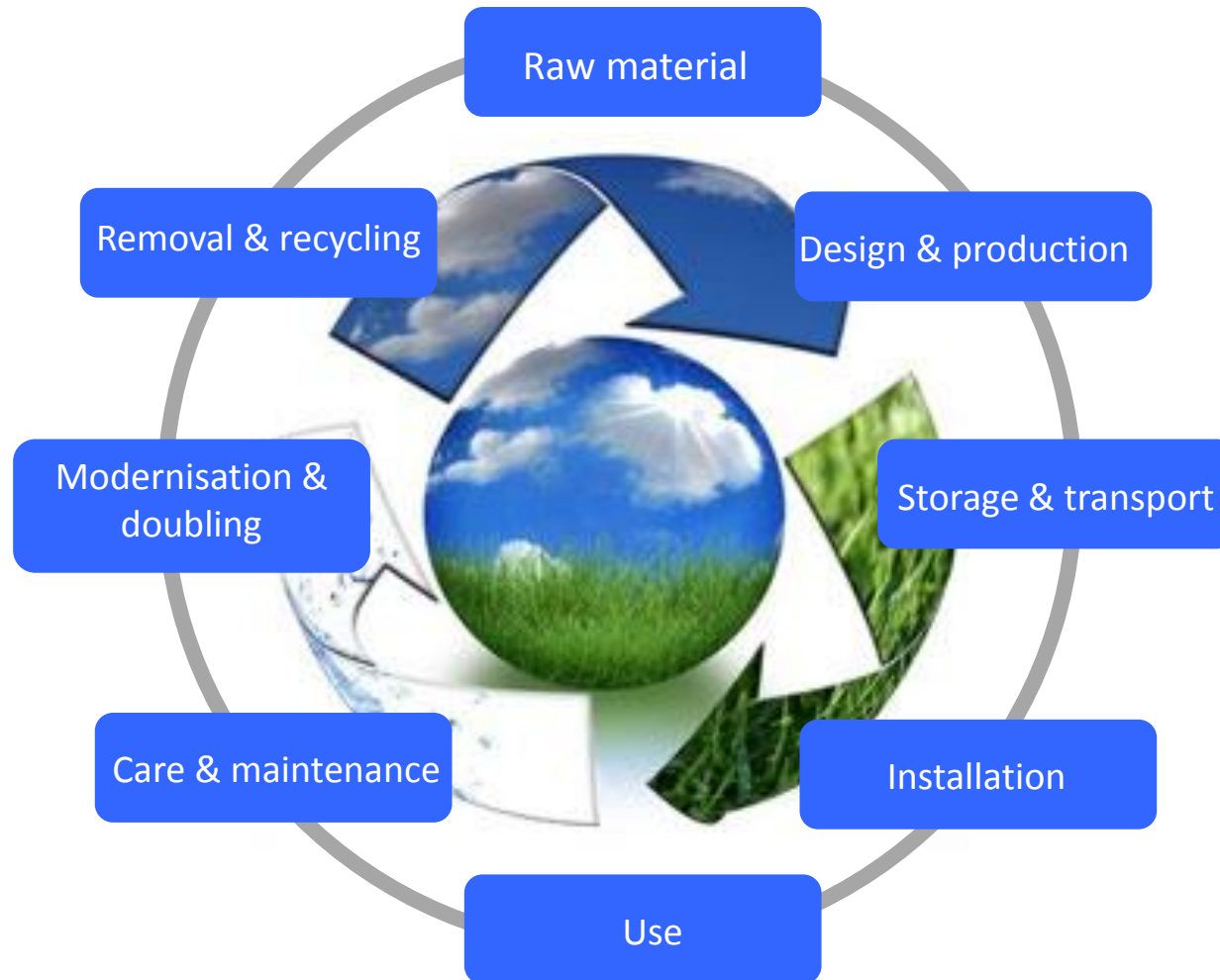


To be future proof a broader view is required

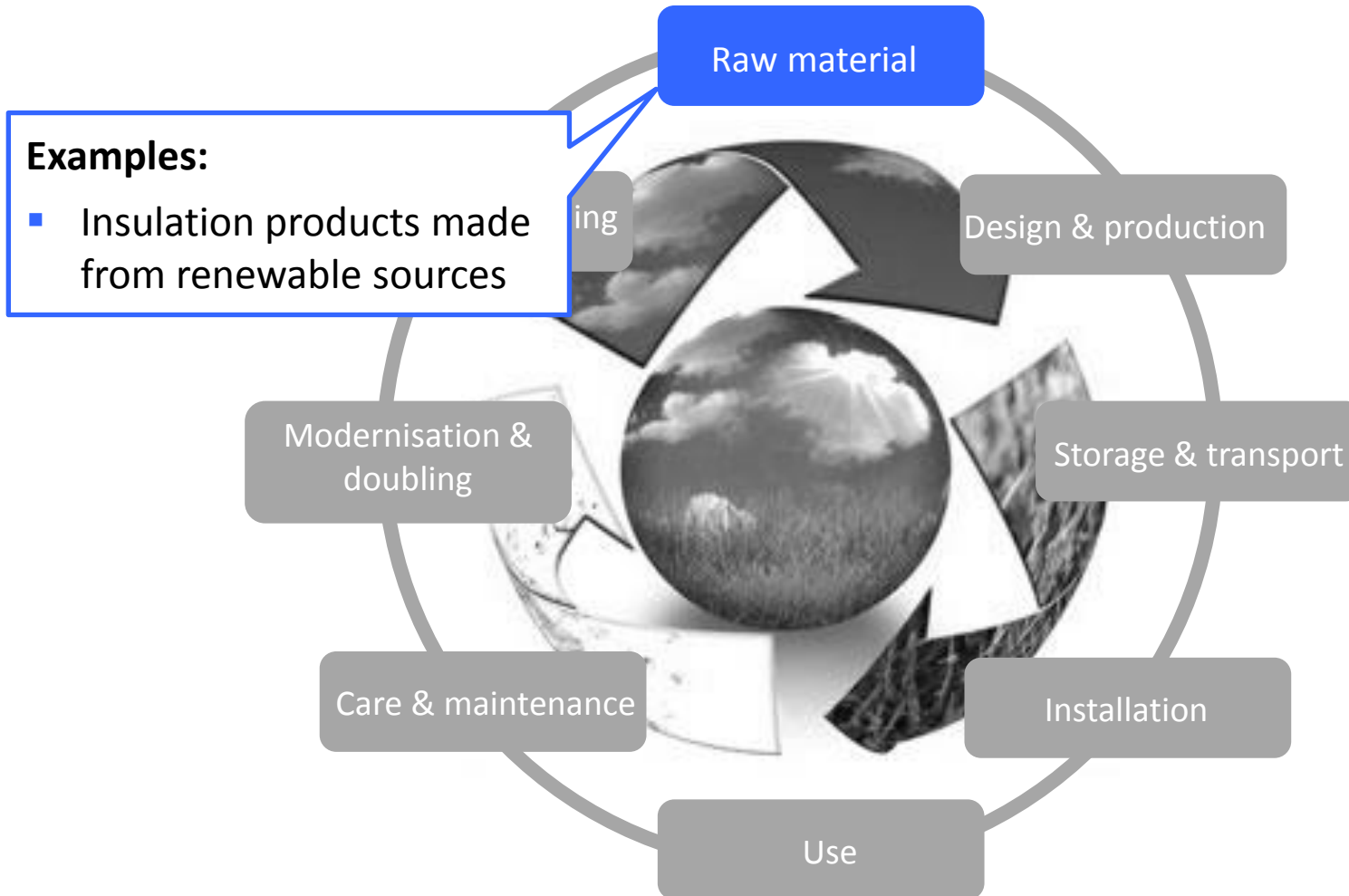
- Proclaiming, with ETICS we contribute to a brighter future for the world, means: we also have to take responsibility for the end-of-life – and beyond!
- Recycling of construction and demolition waste will become more relevant in the near future
- Sustainability assessments of buildings will include this aspect.
- Therefore, designers will have to consider the environmental impact of construction products.

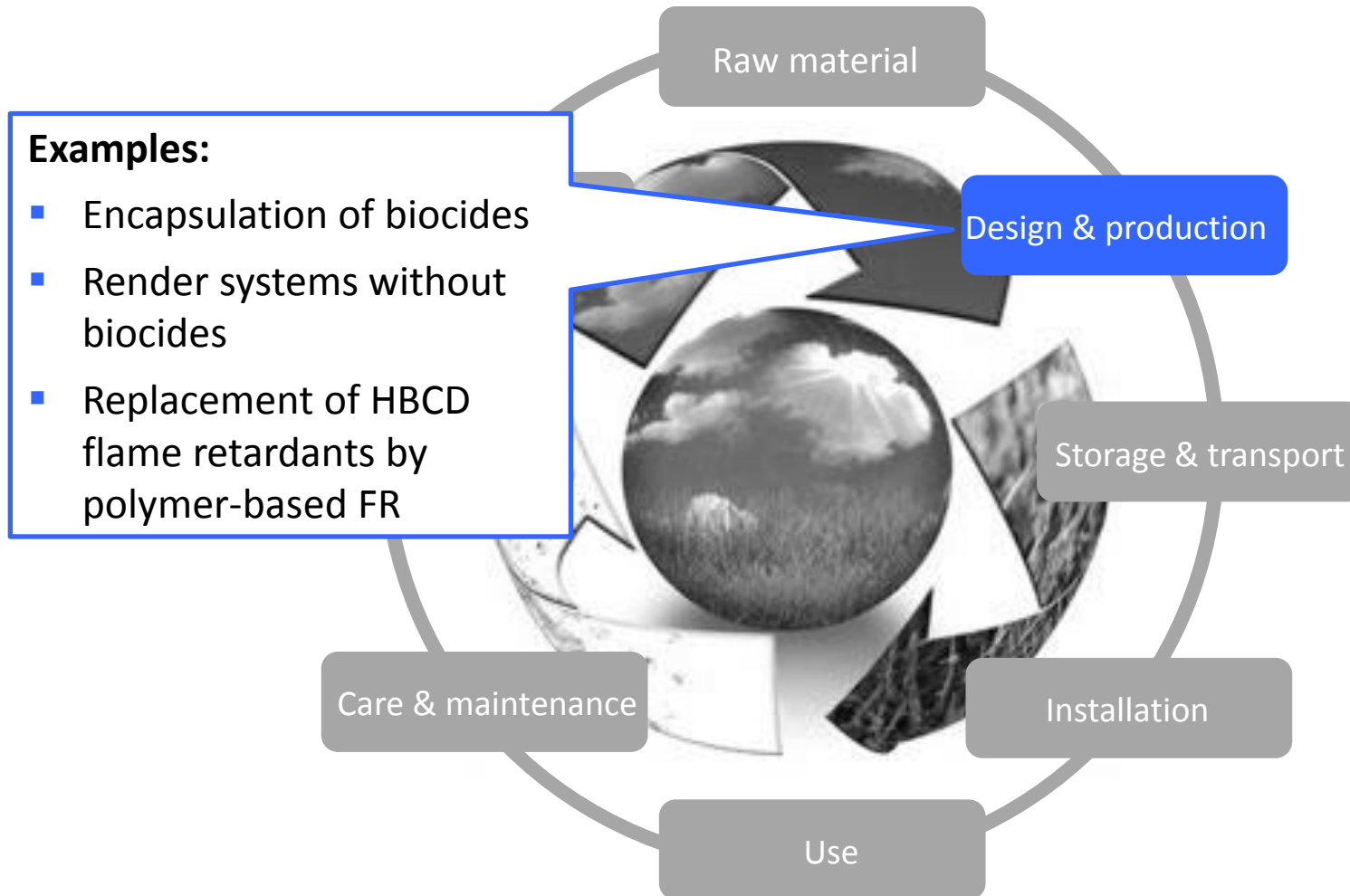
Is the ETICS industry ready to
close the loop?

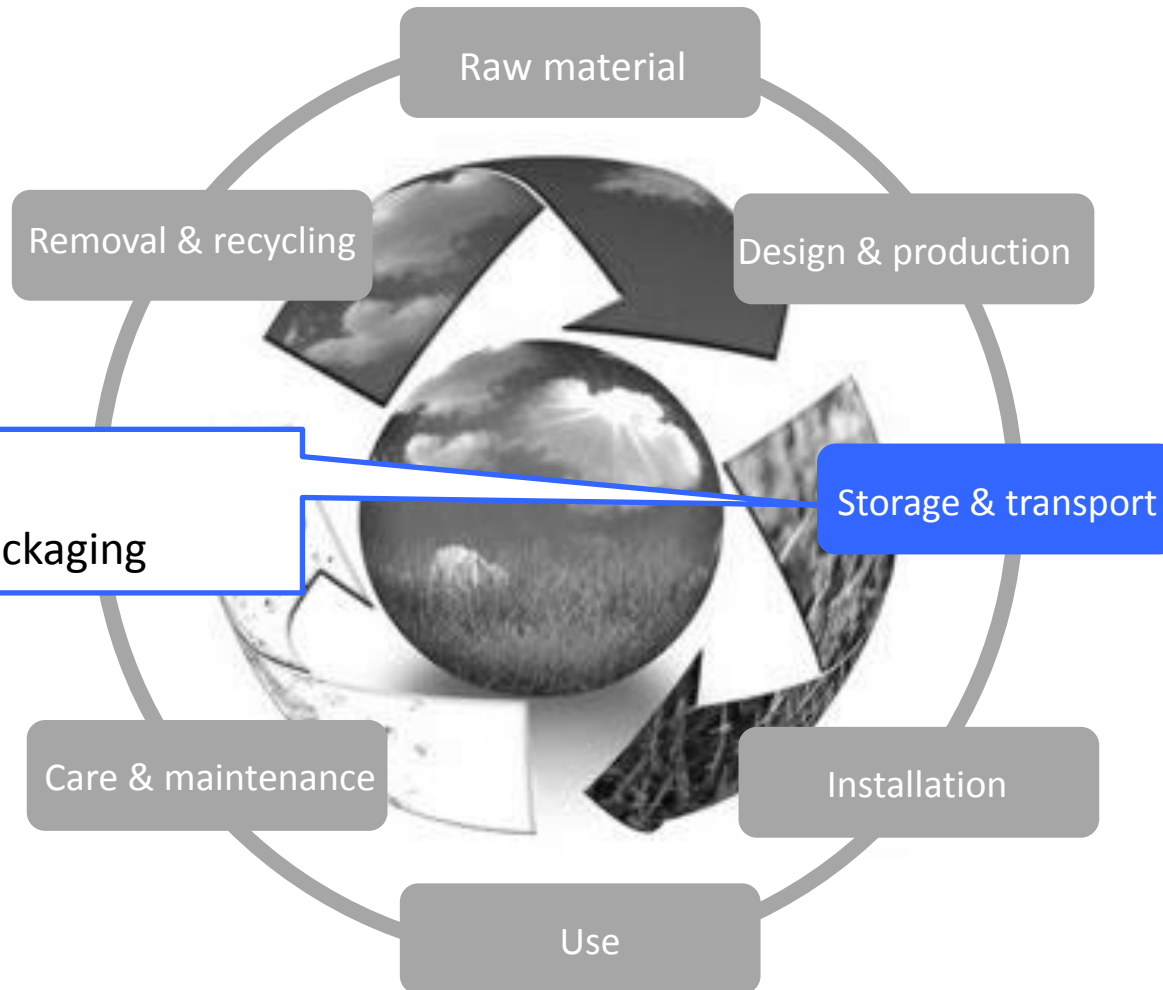


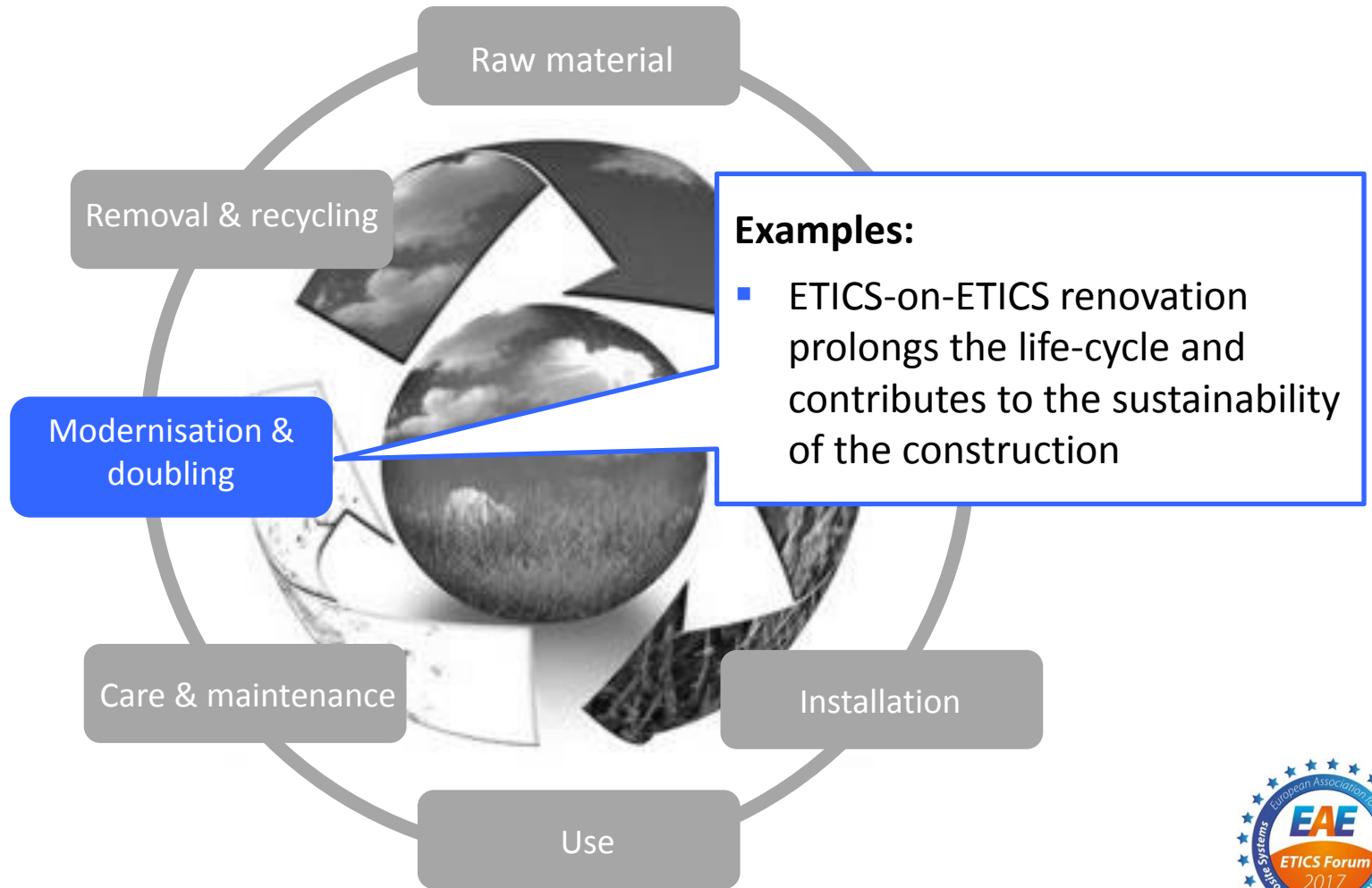


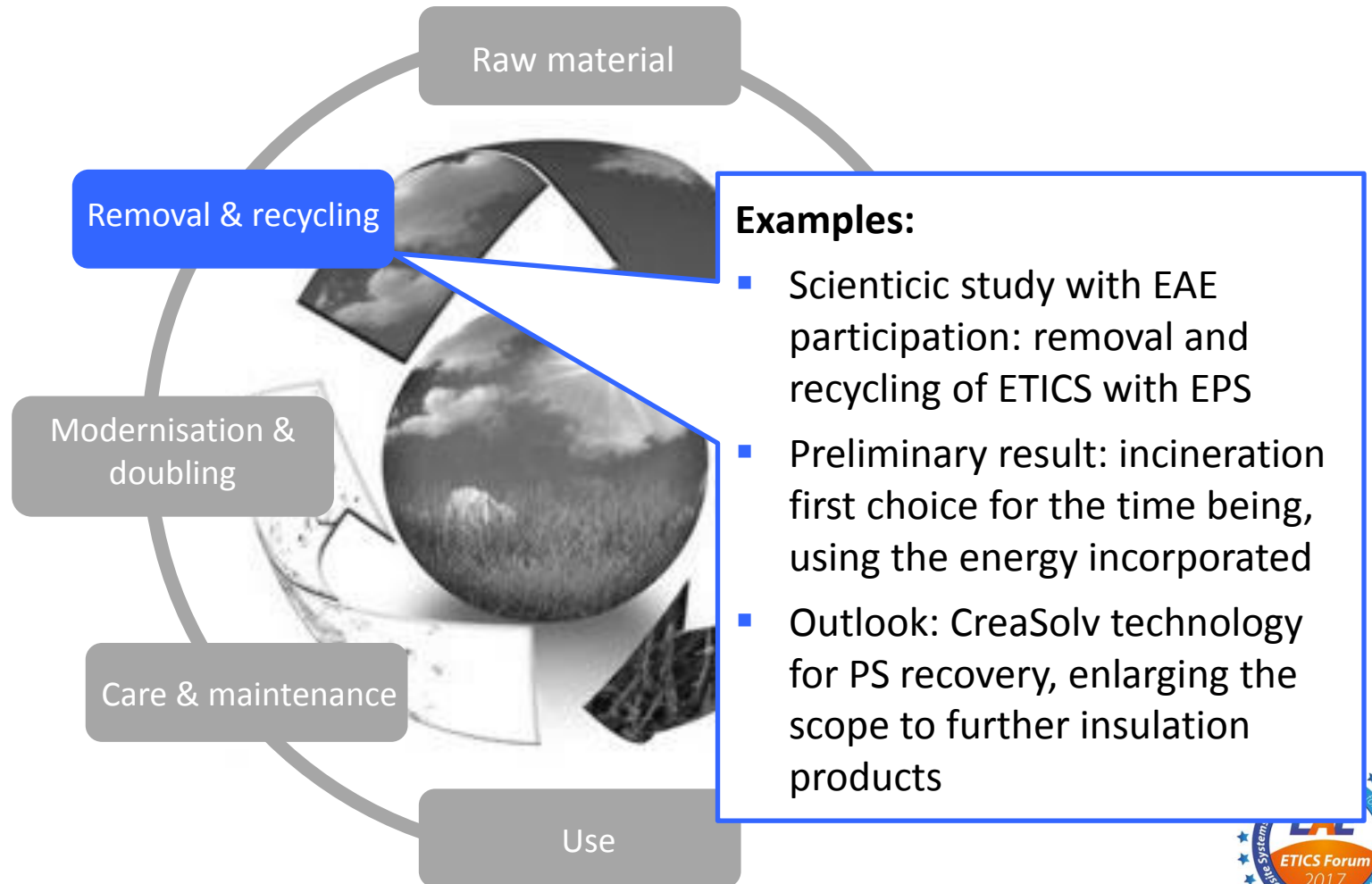






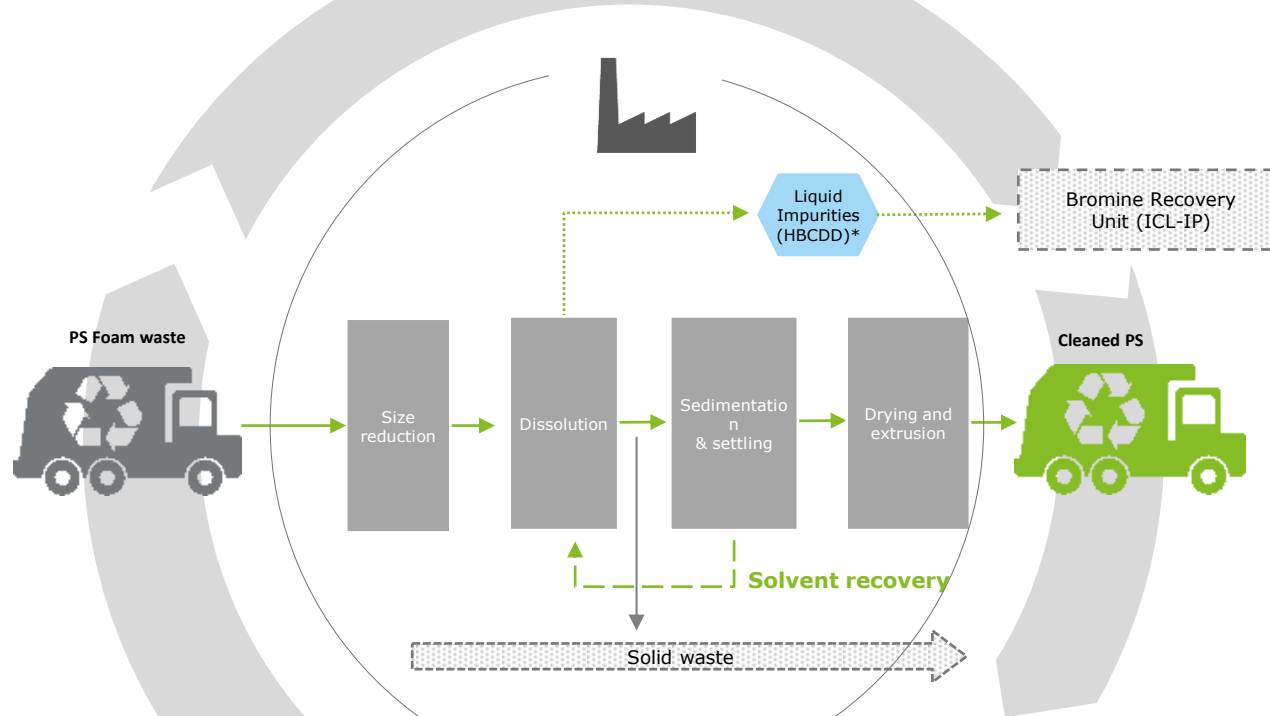






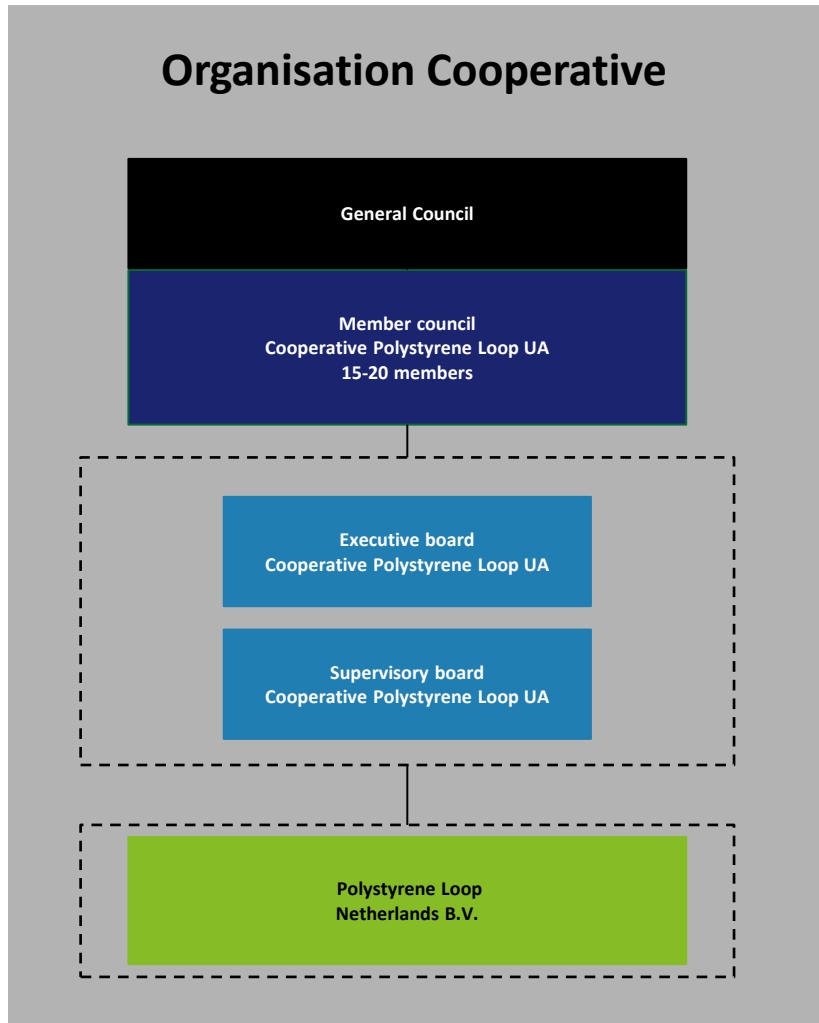


PolyStyrene Loop to test CreaSolv technology at large scale



- Pilot plant aiming to demonstrate economic and technical viability of closed-loop recycling of polystyrene foam waste, and
- collecting experience for further improvements

Organisation Cooperative




PolyStyreneLoop



- Pilot plant will start production in Q3/2018 in Terneuzen (NL)
- With financial contribution of EAE, several EAE member associations and companies

Key features

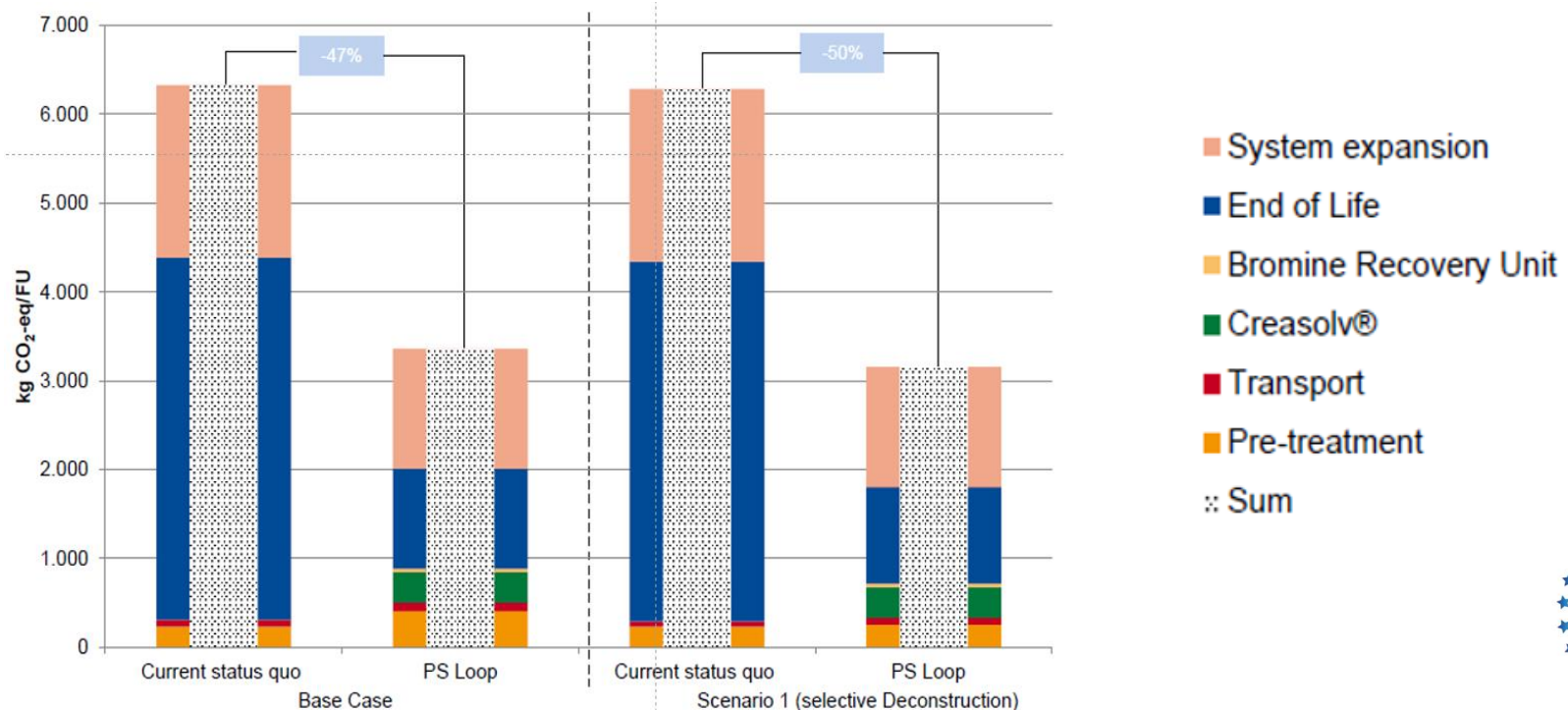
- Ensuring the sustainable market place for PS foam products in the next decades.
- Unique dissolution process for plastics with POPs based on the CreaSolv® process.
- Upcycling of recycling material.
- An innovative organisational approach of the whole polystyrene value chain.
- Strong support from national and EU authorities given the circular economy agenda.
- With lessons learned concept can be rolled-out.



YES, the ETICS industry and its partners are **on the way**
to close the loop!

Environmental Benefits (preliminary assessment)

Graph shows preliminary findings of the Life-Cycle Assessment (March 2017), showing a key improvement in carbon footprint, amounting to 50% lower carbon footprint compared to incineration



NO, the ETICS industry has **not** closed the loop yet!

But next steps are already planned:

- “Handbook” for removal and recycling of ETICS with different insulation products and surfaces
 - Including recycling options for mineral wool, polyurethane, phenolic foams, ...
 - Improvements of the recycling process, e.g. tools, compression prior to transportation, etc.
 - Providing guidance for all parties involved along the value chain regarding environmentally responsible removal, waste treatment, avoiding disposal, and maximum recyclability



YES, we take **responsibility**. We are **on track towards** circular economy, still having some challenges ahead of us!

**Thank you for your
kind attention!**