



PolyUrethane Recycling Towards  
a Smart Circular Economy

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## Conclusion

Dissemination workshop  
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Team effort !! A big thanks to all partners and persons who contributed

Smart design: develop a covalent adaptable PU

- Steps in the right direction to improve recyclability of PU
- Still a long road for industrialization

Smart sorting:

- Development of a sorting technique that enables better PU chemical recycling

Smart chemolysis:

- Extremely good recover and re-use at high % of r-polyols and r-TDI
- Opportunity for long-lasting circular economy for flexible foams

Exploring the barriers for scale-up PUSmart/chemolyse recycling, reveal that despite some uncertainties, a fundamental shift in market demand/legislation is expected making this an excellent opportunity to increase circularity

Positive contribution of PUSmart on social and environmental impacts



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The road until now:

- a long journey – with as result a nice outlook/view on the top

The road to come

- the path is made, towards a circular economy for flexible foams
- but expect some rough cornering, and hurdles to take
  - European economical situation – energy pricing – inflation – Russian/Ukraine conflict

Questions



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