

For further information, please contact our Business Developer



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More info about
Brightlands Materials Center



More info about
TNO and Circular Plastics



Recycling pathways for single-use flexible plastic bags in pharmaceutical applications

Brightlands
Materials Center
Powered by TNO & Brightlands Chemelot Campus

TNO innovation
for life

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Our Goals

- **Turn waste** from single-use flexible plastic bags used in pharmaceutical manufacturing facilities via recycling into commercial packaging
- Bring the **value chain** together, where all parties, from waste supply to final market application, are represented and involved
- Demonstrate that a **recycling pathway** is economically feasible for pharmaceutical waste

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|----------------------------|--|
| 1 Post-use/post-production | 6 Film production |
| 2 Decontamination | 7 Pretreatment |
| 3 Sorting | 8 Creating building blocks |
| 4 Shredding | 9 Upgrading to polymers/coatings |
| 5 Recompounding | 10 New commercial product for the medical and packaging fields |

Value Chain Schematic



Collaborative Partnerships:

Partners already in the consortium:



Project Overview

