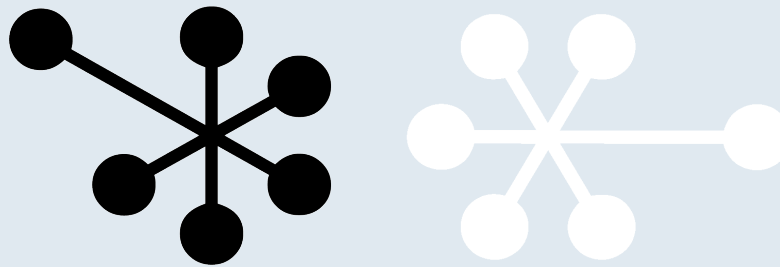


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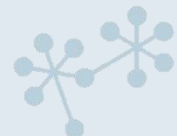


Working on hazardous substances in the waste treatment and recycling sector



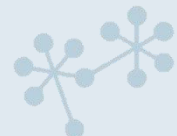
Overview

- What we intend to work on and what not
- Intervention points in the waste chain to generate cleaner secondary materials
- Possible approaches per waste treatment chains



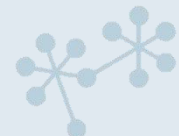
Scope of work

- Post-consumer wastes
 - Composition normally unknown
 - Circular economy includes solutions for waste separation; FFR2 can help with knowledge
- Prioritised Waste streams
 - Waste electrical and electronic equipment (WEEE)
 - Waste plastics,
 - Waste textiles and
 - Construction waste.
- Production wastes – may but no focus



Overall idea

- Increase compliance on hazardous substances along the waste treatment chain and in secondary materials
- Identify (and potentially implement) options to improve
 - The efficiency and effectiveness with which hazardous substances are separated from waste streams
 - The quality of (knowledge on) secondary materials regarding hazardous substances
 - Workers and environmental protection from hazardous substances in wastes
 - Identify and leverage markets for cleaner or better defined secondary materials

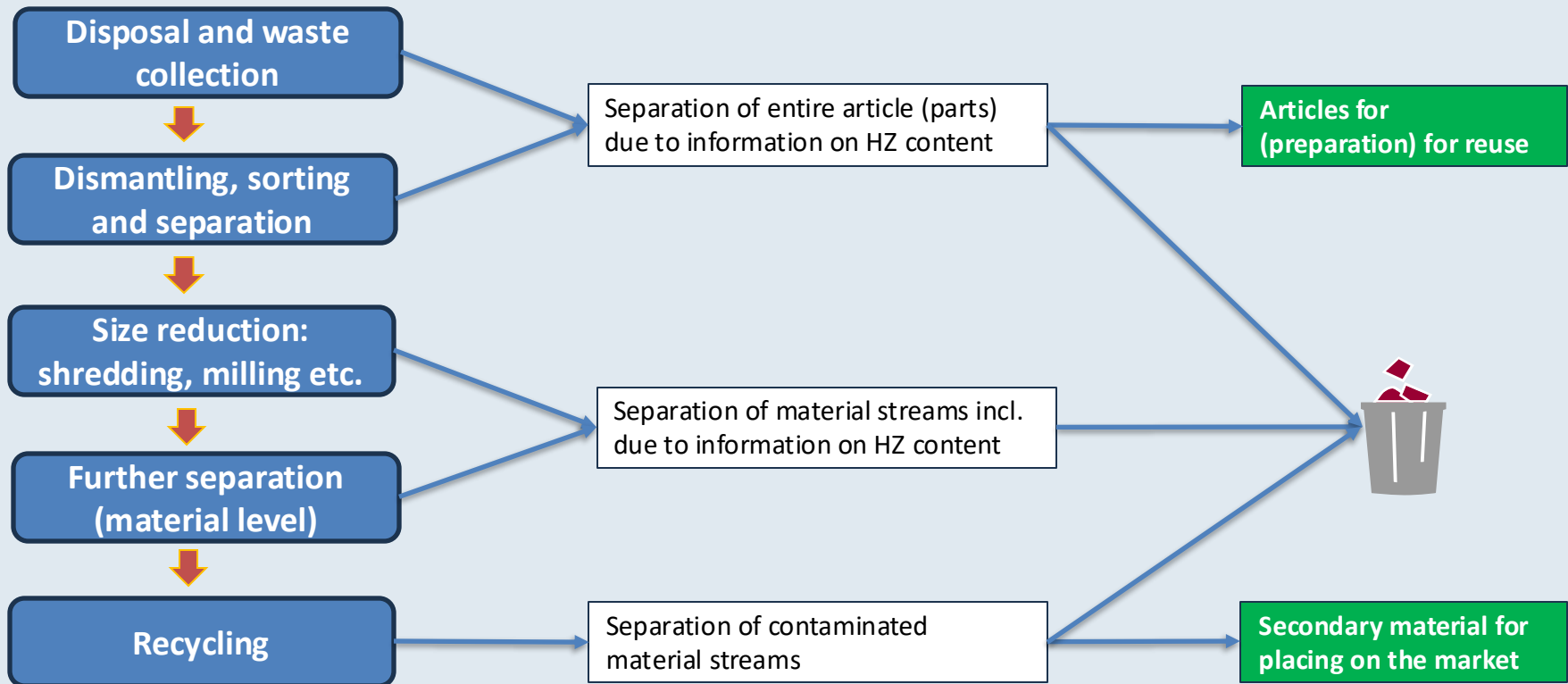


What issues are relevant for what actors?

Waste
treatment chain

Separating HS from
waste stream(s)

Articles and materials
for further use

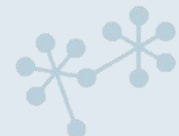


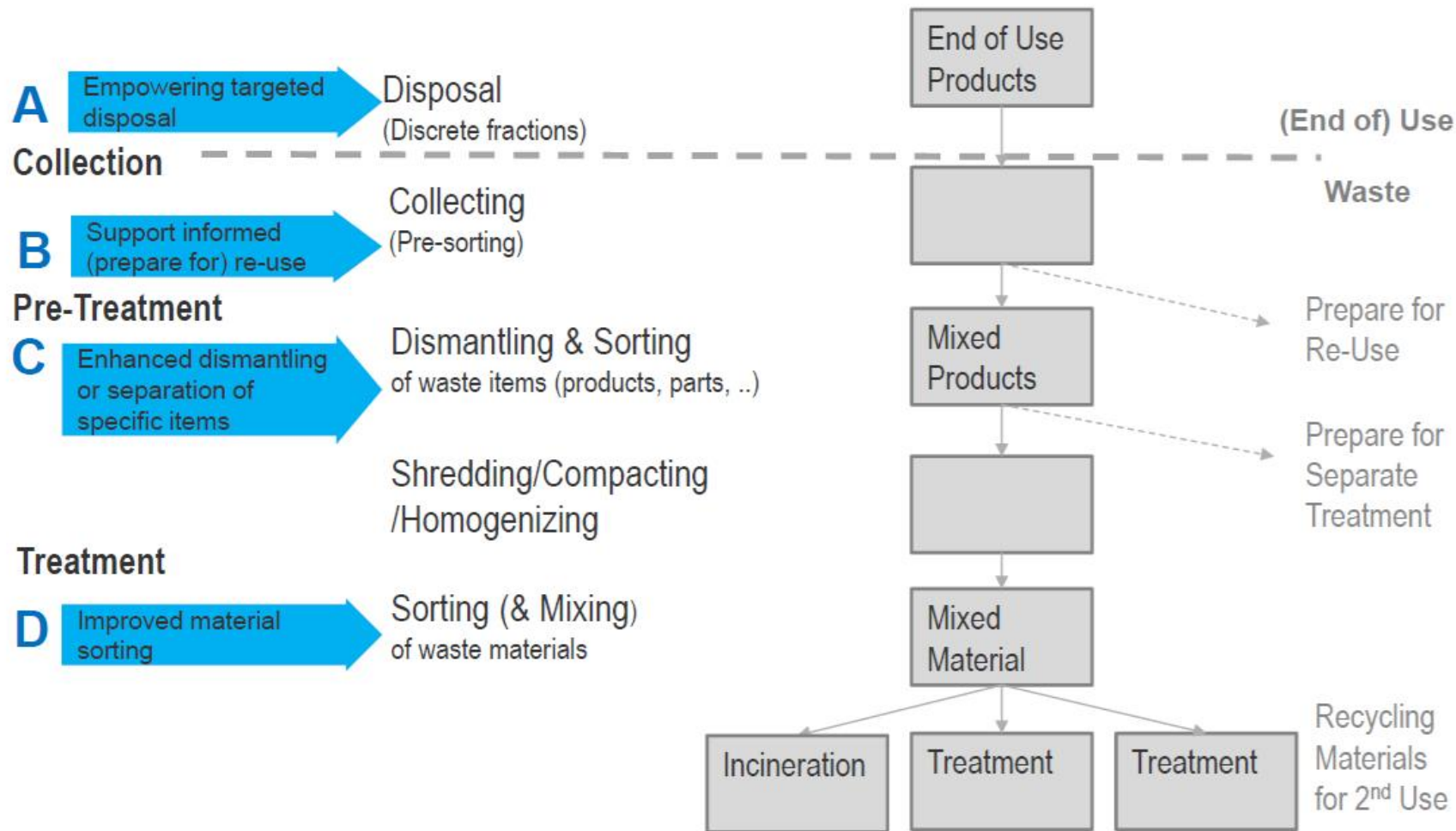
Source: INFORMATION FLOWS ON SUBSTANCES OF CONCERN IN PRODUCTS FROM SUPPLY CHAINS TO WASTE OPERATORS
<https://op.europa.eu/en/publication-detail/-/publication/59d9b462-a9f6-11ea-bb7a-01aa75ed71a1/language-en>



Projektu "Baltijas pilotpasākumi bīstamo ķīmisko vielu emisiju samazināšanai, izmantojot aizvietošanu un resursu efektivitāti" (LIFE Fit for REACH, Projekta Nr. LIFE14 ENV/LV/000174) līdzfinansē Eiropas Savienības LIFE programma un Valsts reģionālās attīstības aģentūra

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Source: Ökopol (2020): INFORMATION FLOWS ON SUBSTANCES OF CONCERN IN PRODUCTS FROM SUPPLY CHAINS TO WASTE OPERATORS



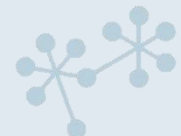
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Treatment step	Specific actor(s)	Initial ideas for questions for work on
Disposal and collection	Municipal waste collection	Anything particular on HS ?
Sorting and separation	Waste sorting installations (packaging)	<p>How are HS considered in the sorting process? Which options exist that are not yet implemented?</p> <p>What are expected advantages from better sorted plastic articles?</p> <p>What material streams are generated from the sorting process?</p> <p>Are there market opportunities for better sorted materials, including (guaranteed) knowledge on the content of hazardous substances?</p>

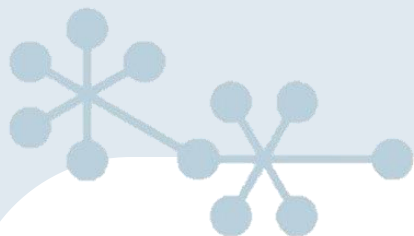
Treatment step	Specific actor(s)	Initial ideas for questions for work on
Size reduction, shredding	Shredder	<p>Are input streams mixed, e.g. packaging waste and WEEE?</p> <p>What is known about the hazardous substances content?</p> <p>What would change if info on HS-content was known?</p> <p>What plastic fractions are generated? For what uses?</p>
Further separation	Separator	<p>How are plastic flakes further separated? Are HS considered?</p> <p>Do (technical) separation options for contaminated plastics exist?</p> <p>What are customer demands regarding HS in pre-treated waste?</p>
Production of secondary material(s)	Recycler	<p>How is the input selected; what role do HS play?</p> <p>(How) does contamination influence the output quality and thereby market opportunities?</p> <p>How could secondary materials be decontaminated?</p> <p>What information is needed, what changes would be triggered?</p>



What FFR can do

- Support assessing status quo and potential sources of HS in input wastes
- Contribute to compliance assessment regarding HS in waste and secondary materials
- Help identifying options to act
- Provide information, expertise, the „outside view“





Thank you

