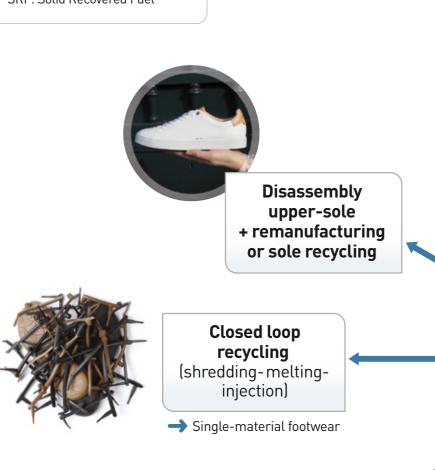


R&D projects or trials in progress

PROJECT

Projects supported by Refashion within the Innovation Challenge

*SRF: Solid Recovered Fuel



Industrial composting

Biodegradable materials that degrade when composted

A vast majority of collected footwear can be reused 1st SORTING A small fraction of collected footwear cannot be reused and therefore must be recycled Manual AND/OR automatical sorting of non-reusable footwear Slicing of sports footwear: separation of the shoe upper from the sole Sorting then shredding into 3 types of granules: **RUBBER, FOAM AND FIBRES** → Flooring surfaces, outsoles

of foam insoles allow one tennis court to be built



of rubber outsoles. 300m² of children's playgrounds



SHREDDING CHALLENGES: Limit intra-material pollution, Reduce

Complete shredding of footwear

and homogenize particle size

Coarse shredding (about 2 cm²). All types of footwear

SRF*,

Energy recovery or

incineration/landfilling

Shredding/ compressing

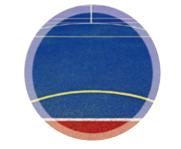
Delamination then densimetric separation of materials

RUBBERS

(NATURAL AND SYNTHETIC ELASTOMER), FOAM, PVC, PU, ETC.

FROM SOLES

Hard or bouncing floorings, thick mats, outsoles



- → Mixed in with wood fibres to produce acoustic panels
- → Integration into compressed wood panels
- → Thermal recovery



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