

Local fibres. Printable materials. Circular value.
From waste to worth: building a regional value chain for 3D-printing feedstock.

WHY IT MATTERS

12.2%

of materials used in the EU came from recycled sources in 2024. Across the NPA region, many natural-fibre side streams remain undervalued, dispersed or discarded.



BIO-2-PRINT combines local fibres with recycled plastics or concrete to develop printable composite feedstock for construction and manufacturing.

FROM REGIONAL SIDE STREAMS...

Examples under investigation: hemp/flax shives • inner bark • wool • seaweed/kelp • industrial wood side streams



SIDE STREAM



PREPARED FIBRE



PELLETS

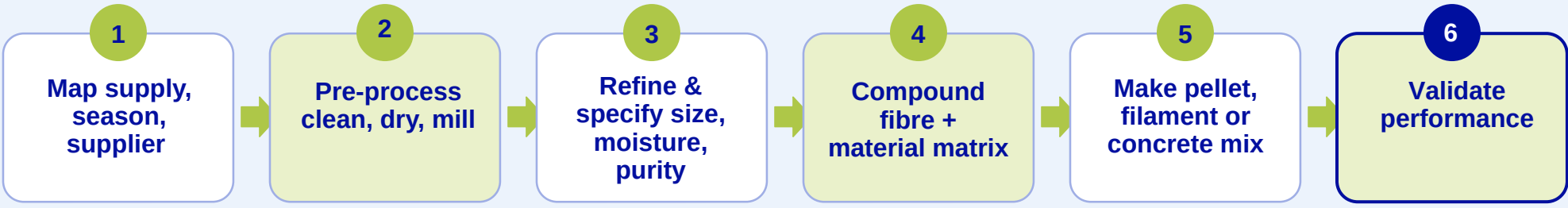


POLYMER PRINT



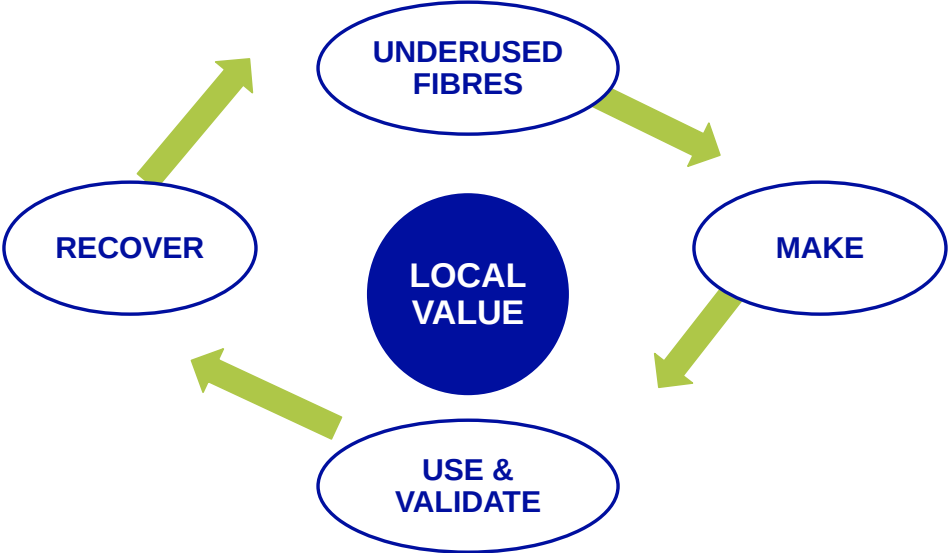
CONCRETE PRINT

VALUE CHAIN DEVELOPMENT



TRACEABILITY + QUALITY CHECKS + FEEDBACK AT EVERY STAGE

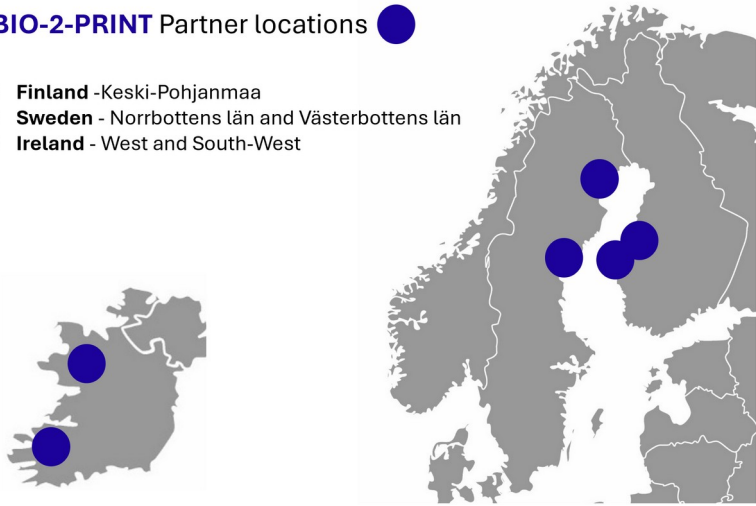
LOCAL CIRCULAR VALUE



Keep material, knowledge and opportunity circulating in the NPA region.

BIO-2-PRINT Partner locations

- Finland - Keski-Pohjanmaa
- Sweden - Norrbottens län and Västerbottens län
- Ireland - West and South-West



6 PARTNERS • FINLAND • IRELAND • SWEDEN

WHAT SUCCESS LOOKS LIKE

1

MATERIAL
Traceable, repeatable feedstock and demonstrators that support proof of function (TRL4).

2

REGION
Cross-sector local value chains connecting suppliers, processors, researchers, makers and end-users.

3

POLICY
Supports Interreg NPA Objective 2.3, the EU Circular Economy Act and the EU Bioeconomy Strategy.

12.2%: Eurostat circular material use rate, EU-27, 2024. Project materials and impacts are under development.