

Biogospodarstvo: nova razvojna in poslovna priložnost v agroživilstvu



Potenciali biomaterialov v agroživilstvu - od opada do embalaže

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INŠTITUT ZA
CELULOZO IN PAPIR
Innovative Cellulose Products



Idej je ogromno - preboj je težak!



MARINA TEX
(odpadek predelave
rib + alge)



SCOBY PACKAGING
(odpadek fermentacije kisa
/ali reja kombuče)



MANGO MATERIALS
(prehrambeni odpadek
/sladkorji v PHA)

BIO-LUTIONS
(agro ostanki v suho
prešanje vlakninskih materialov)



Lokalno do lokalnega (Local2local)

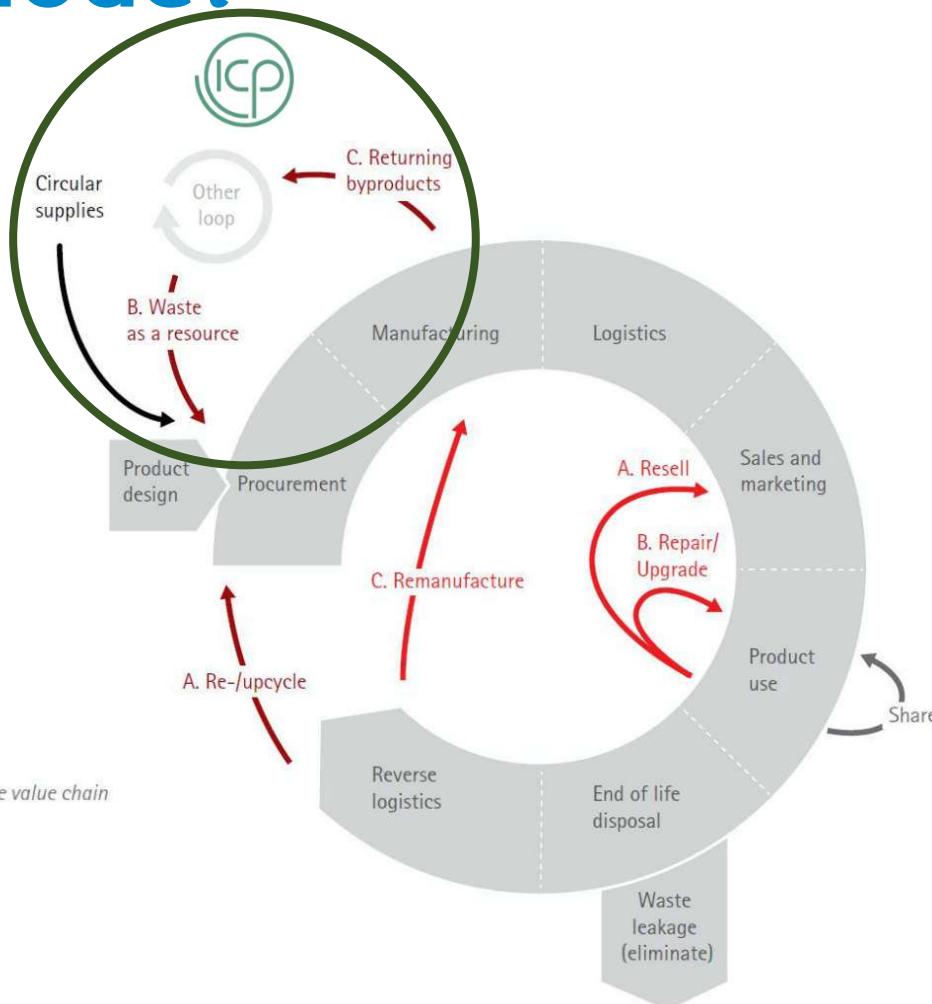


Okrevanje virov kot krožni poslovni model

Business Models

- Circular Supplies: Provide renewable energy, bio based- or fully recyclable input material to replace single-lifecycle inputs
- Resource Recovery: Recover useful resources/energy out of disposed products or by-products
- Product Life Extension: Extend working lifecycle of products and components by repairing, upgrading and reselling
- Sharing Platforms: Enable increased utilization rate of products by making possible shared use/access/ownership
- Product as a Service*: Offer product access and retain ownership to internalise benefits of circular resource productivity

*Can be applied to product flows in any part of the value chain



Ali je še kaj možno ponovno uporabiti? Seveda možnosti so neskončne!

- Biorafinerijski koncept predelave odpadne biomase/agro ostankov odpadkov

Celuloza
(vlakna)

Hemi celuloza

Lignin

Ekstraktivi

Bio osnovani
filterski in drugi
Tenki
Kompoziti
Baterijski
separatorji

Premazi
Papirji in
kartoni,
embalaža

Zelene
kemikalije
Premazi
Smole
Lepila

Encimi
Biološka
obdelava
odpadkov
Reuporaba v
drugih panogah

Višja dodana vrednost kot bio-plin!

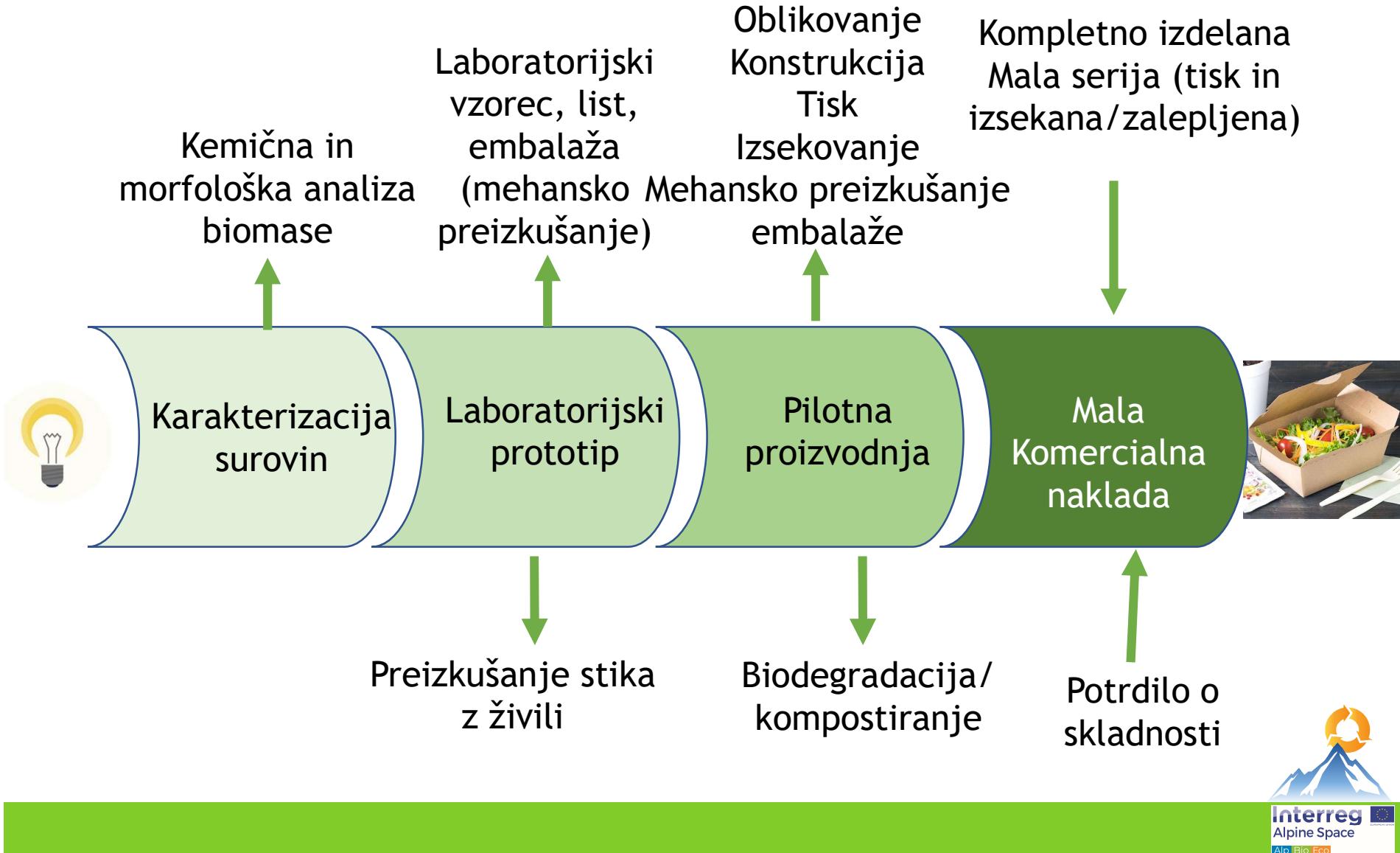
Od kje pridobivamo vlakna?



Zgodbe z našimi partnerji



Naš kreativni zeleni lijak



Naša infrastruktura

- „One stop shop“ - akreditiran laboratorij po ISO 17025:2017



Krožno je možno (Circular is possible!)

- Linija naših lastnih izdelkov pod blagovno znamko CiP (2021)



A promotional poster for the 2nd Circular Packaging Conference. The background is a dark teal color with a faint globe pattern. Several white, recyclable packaging items (milk cartons, boxes, cups, and pouches) are scattered across the surface. The text "September 9-10, 2021" is at the bottom left. In the center, a large white dotted circle contains the text "2 CIRCULAR PACKAGING CONFERENCE". At the bottom left, there's a logo for "FTPO Faculty of Polymer Technology" with three red dots above the letters. The bottom right features the "SVP CIRCULAR ECONOMY" logo, which includes a green leaf icon and the text "Slovenj Gradec (Slovenia) +online". The bottom center contains the logo for "PULP AND PAPER INSTITUTE, LJUBLJANA Innovative Cellulose Products" with its acronym "IIP".

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