Trash-2-Cash

Project ID: 646226
Funded under: H2020-EU.2.1.3.4. - Materials for a sustainable, resource-efficient and low-emission industry
H2020-EU.2.1.3.5. - Materials for creative industries, including heritage

Trash-2-Cash: Designed high-value products from zero-value waste textiles and fibres via design driven technologies

From 2015-06-01 to 2018-11-30 | Trash-2-Cash Website

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>EU contribution:</th>
</tr>
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<tbody>
<tr>
<td>EUR 8 890 559,80</td>
<td>EUR 7 933 461</td>
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<table>
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<tr>
<th>Topic(s):</th>
<th>Funding scheme:</th>
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| Coordinated in: | Sweden |

Objective

Within Trash-2-Cash, growing problems with paper fibre waste from the paper industry and textile fibre waste, originating from a continuously increasing textile consumption, will be solved through design-driven innovation. This will be performed by using the wastes to regenerate fibres that will be included into fashion, interior and other products. The cotton production suffers from non-sustainable environmental and socio-economical issues and the polyester fibre manufacture produces waste that to date has no viable deposition. Designers will lead the recycling initiative, defining the material properties, and will feed the material scientists to evaluate newly developed eco-efficient cotton fibre regeneration and polyester recycling techniques. The future exploitation will be ascertained through a two-sided exchange between the designers and the end-product manufacturers, also taking into account the consumer-related product needs, and prototypes will be produced in a realistic test production environment.

The objectives are to:
- Integrate design, business and technology to a coherent discipline to establish new creative industries
- Develop new material and product opportunities via creative design from waste or process by-product
- Reduce the utilization of virgin materials; improve material efficiency; decrease landfill volumes and energy consumption
- Use design for recycling with the vision of closing the material loop
- Create new business opportunities by adding the return loop of the discarded goods to be reused into attractive products
- Promote development of the creative sector by providing technological solutions for exploitation of waste streams

Europe’s creative industry will be strengthened through Trash-2-Cash taking the lead worldwide in the design for recycled materials area. Moreover, Trash-2-Cash will support a better waste utilization and contribute to reduction of landfill area needs.

Related information

<table>
<thead>
<tr>
<th>Report Summaries</th>
<th>Events</th>
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</thead>
<tbody>
<tr>
<td>Periodic Reporting for period 2 - Trash-2-Cash (Trash-2-Cash: Designed high-value products from zero-value waste textiles and fibres via design driven technologies)</td>
<td>New materials from the Trash-2-Cash project to be shown for the first time at Dutch Design Week 2018</td>
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</tbody>
</table>
Dutch Design Week 2018

New materials from the Trash-2-Cash project to be shown for the first time at Dutch Design Week 2018

Coordinator
RISE RESEARCH INSTITUTES OF SWEDEN AB
BRINELLGATAN 4
501 15 BORAS
Sweden
EU contribution: EUR 1 136 844,71

Activity type: Research Organisations
Contact the organisation

Participants
Teknologian tutkimuskeskus VTT Oy
VUORIMIEHENTIE 3
02150 Espoo
Finland
EU contribution: EUR 632 187,50

Activity type: Research Organisations
Contact the organisation

RISE IVF AB
ARGONGATAN 30
431 53 MOLNDAL
Sweden
EU contribution: EUR 463 190

Activity type: Other
Contact the organisation

AALTO KORKEAKOULUSAATIO SR
OTAKAARI 1
02150 ESPOO
Finland
EU contribution: EUR 1 396 512,50

Activity type: Higher or Secondary Education Establishments
Contact the organisation
FUNDACION CIDETEC
PASEO MIRAMON 196 PARQUE TECNOLOGICO DE MIRAMON
20014 SAN SEBASTIAN
Spain
EU contribution: EUR 551,250
See on map

Activity type: Research Organisations
Contact the organisation

THE UNIVERSITY OF THE ARTS LONDON
272 HIGH HOLBURN
WC1V 7EY LONDON
United Kingdom
EU contribution: EUR 810,750
See on map

Activity type: Higher or Secondary Education Establishments
Contact the organisation

COPENHAGEN BUSINESS SCHOOL
SOLBJERG PLADS 3
2000 FREDERIKSBERG
Denmark
EU contribution: EUR 455,161
See on map

Activity type: Higher or Secondary Education Establishments
Contact the organisation

GRADO ZERO INNOVATION SRL
VIA NOVE 2A
50056 MONTELUPO FIORENTINO FI
Italy
EU contribution: EUR 547,576.75
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

MATERIAL CONNEXION ITALIA SRL
Via del Conservatorio 17
20121 MILANO
Italy
EU contribution: EUR 564,298
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation
TEKSTINA TEKSTILNA INDUSTRIJA DOO
TOVARNISKA 15
5270 AJDOVSCINA
Slovenia
EU contribution: EUR 311 324
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

VANBERLO BV
ZWAANSTRAAT 31A
5651 CA EINDHOVEN
Netherlands
EU contribution: EUR 107 837,97
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

MAIER SCOOP
POLIGONO INDUSTRIAL ARABIETA S/N
48320 AJANGIZ
Spain
EU contribution: EUR 439 864
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

SO.F.TER. SRL
VIA MASTRO GIORGIO 1
47122 FORLI
Italy
EU contribution: EUR 283 996,17
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

SOKTAS DOKUMA ISLETMELERI SANAYI VE TICARET ANONIM SIRKETI
Islam Kerimov cad. 16, Sunucu is Merkezi B Block Kat 8
35530 BAYRAKLI/IZMIR
Turkey
EU contribution: EUR 25 275,25
See on map

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation
REIMA OY
KARHUMAENTIE 3
01530 VANTAA
Finland
See on map

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

SOEX TEXTIL-VERMARKTUNGSGESELLSCHAFT MBH
AN DER STRUSBEK 19
22926 AHRENSBURG
Germany
See on map

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

SCA OBBOLA AB
VASTERBOTTENS LAN
91380 OBBOLA UMEA
Sweden
See on map

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

TEKO, SVERIGES TEXTIL- OCH MODEFORETAG I
STORGATAN 5
114 85 STOCKHOLM
Sweden
See on map

**Activity type:** Other

Contact the organisation

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