



**Fostering the transition to a Circular
Economy model thanks to Open Data**



Rethink S.r.l.s.

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Who I am



Stefano Esposito

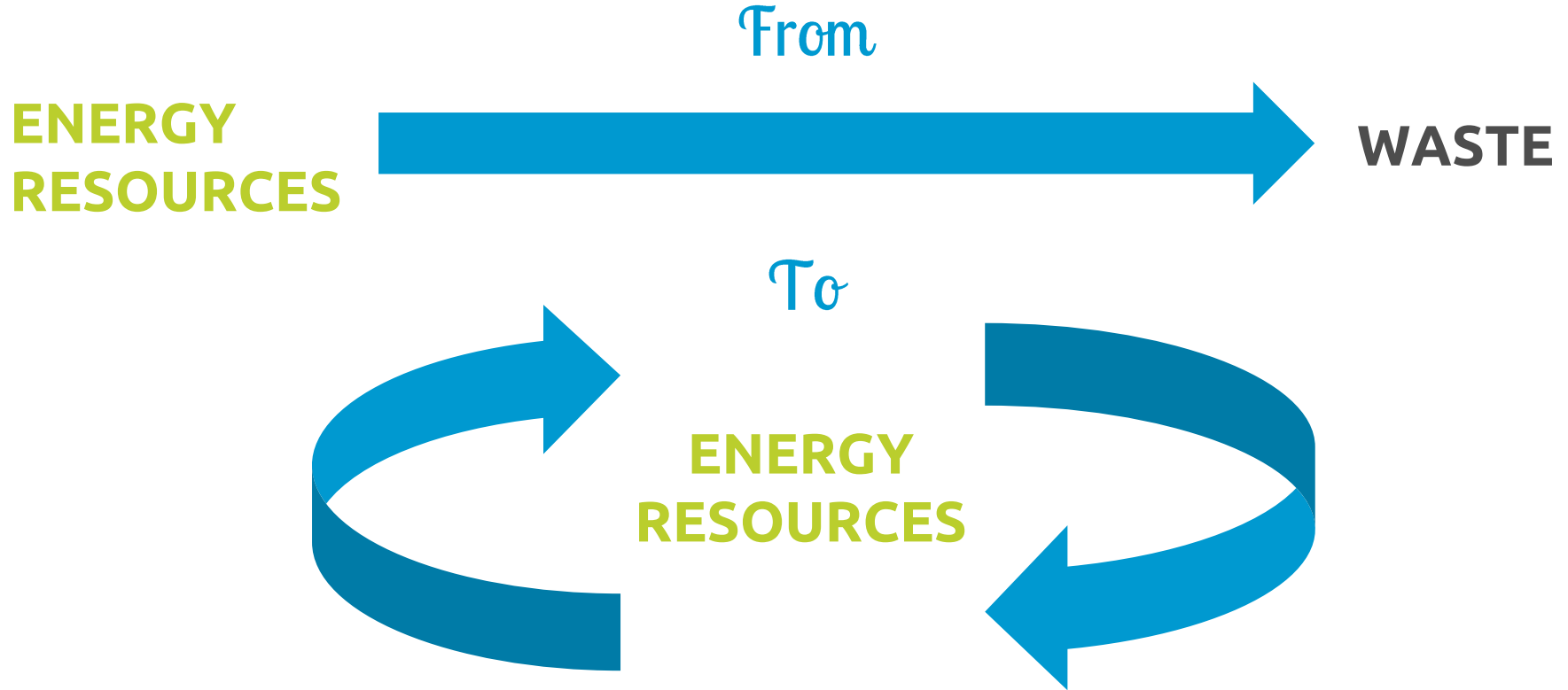
- Environmental Engineer with +8 yrs of experience in the renewable energy and environment;
- Developed and constructed +100MW of renewable energy plants;
- CEO of Rethink – Sustainable Solutions;
- Bass player and startupper;

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We want to foster the transition to a Circular Economy model through the development of innovative solutions in the renewable energy and environment.



+33MIL of tons/year
bio-based wastes in EU
(Eurostat)



The Solution: BioEconomy



Bio-fuels

Bio-chemicals

Bio-Energy

Fibers

Bio-products

Enzymes



Case studies



ORANGE FIBER



FUNGHI ESPRESSO



biochemtex



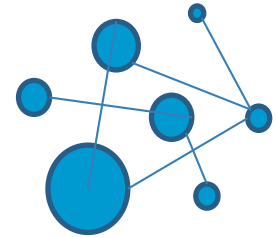
The state of the art



**LACK OF
AWARENESS**

**10011
01101
10101**

**LACK OF
AGGREGATE DATA**



**LACK OF
CHANNELS**



Search Your Material

Material Name

Status

Country

City

District

Material Type

\$ 1,000

\$ 299,000

Search Now

A B2B E-Marketplace for bio-based residues and by-products with bidding processes and analytics



Leaflet | Imagery from GIScience Research Group @ University of Heidelberg – Map data © OpenStreetMap contributors

Features

Exchange



Facilitate the reuse of bio-based residues and by-products

Analytics



Aggregate data and provide insights about the agricultural sector

Benchmarking



Let the users understand better their productive cycle through a benchmarking process based on Life-Cycle Assessment techniques

Open technology



Open and royalty-free middleware platform driven by the EU



Openly licensed map for showing the offers/requests of materials



Open data



European Union Open Data Portal

eurostat 



dati.gov.it

I dati aperti della Pubblica Amministrazione



 **INSYMBIO**

Insights

Results

BIOECONOMY

2 TRI€/year

Value of the EU
Bio-Economy sector

3,7 BIL€

Investments in the sector
by 2020 (Horizon2020)

NACE_R2

13,7MIL

agribusinesses, mostly
concentrated in EU
underdeveloped areas

600MIL€/year

Revenues just in Italy from
the reuse of residues



WHY NOW? *RESOURCE CHALLENGE*

3 BIL more Middle-Class Consumers by 2030.

147% increase in real commodity prices since 2000.

Volatility across resources is at its highest level .

\$1,1 TRIL annually spent on resource subsidy.

McKinsey

Where we are now



Who we are

BUSINESS

PRODUCT DEVELOPMENT

CUSTOMER DEVELOPMENT

LEGAL



S. M. Esposito

Environmental Engineer | **CEO**

1 startup founded. Raised
+115k€



E. Criscuolo

IT Engineer | **CTO**

1 startup
founded.



A. Pastore

Senior Developer

Developed Geecom, an
open source CMS



A. Giuliano

Chemical Engineer

Finishing Phd on
BioEconomy



S. Pane

Environmental Engineer

Master on LCA
techniques



R. Citro

Lawyer

Environmental
Lawyer with +7 yrs
exp.

AWARDS & ACCOMPLISHMENTS



SUNNYREV





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Thank you very much!



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