

From trash to treasure

www.krilldesign.net contract@krilldesign.net

KRILL DESIGN

Our vision

We want to propose a **Green Economy** model that combines the need to manage the **waste recycling** process in an innovative way and the creation of new products by offering **Circular Economy projects**.

We want to help give new value to organic waste by transforming them, thanks to our Know How, into **eco-design products** with a story to tell.

We believe that **technological innovation** and **creativity** are the right recipe to implement an ecological transition necessary for the good of the planet we live on.



WHO WE ARE Our mission

Krill Design is an innovative start up in Milan, born in 2018 with a specific mission: **to give new value to the organic waste of food industry.**

We give new life to food by-products by trasforming them into **natural and compostable biopolymers** with which we create **functional eco-design products for the needs of your Company**, thanks to the most innovative **3D printing** technologies.

We offer a **tailor made** service accompanying your company in every phase of the project and we manage the entire process adapting it to your needs. we give substance to the sustainability of your company.





Ivan Calimani CEO e founder



Yack H. Di Maio
R&D Director & Co-founder



Martina LampertiProject Manager & Co-founder

And we are not alone! We are able to do all this thanks to our team of 15 people: designers, 3D printing technicians, chemical engineers...



"We create **value** through circular **economy projects**"



HOW Krill Design Formula



1. Research and Development

We identify, analyze and study food waste thanks to our team of Green Chemistry experts





2. The transformation of waste

From what was previously only waste we generate our exclusive Rekrill® biomaterial







3. Product Design

Our team of specialized designers designs products of excellence



Our products become a vehicle for telling a 100% circular story



4. Production

We use our digital manufacturing lab to print products thanks to the most innovative 3D printing technologies

REKRILL®

A new sustainable material

We have patented an innovative material called **Rekrill®: 100% biodegradable and compostable**, Rekrill® is made starting from the by-products of the food chain.

We can transform different types of **homogeneous organic waste** such as **peels**, **shells**, **seeds**, **coffee grounds**.

The products made in Rekrill® become the concrete realization of a new production culture. They embody a history of **circular economy and sustainability**.





dried orange peels



pastazzo



pellet Rekrill[®] orange



filament

DIGITAL MANUFACTURING

Production on demand and tailor made

We create eco-design products **designed ad hoc to meet the needs of your company**.

We use our digital manufacturing hub with over 50 **3D printers** of different sizes, which allows us to produce **on demand**, making our **model flexible and scalable** to meet production demand ranging from a few pieces up to thousands.



WHAT WE OFFER

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From waste to eco-design product





















Promotional campaigns

Exhibitions and Events

Installations

Products that reward

Point of sale furniture

BENEFITS



Circular Economy at the service of the company



Sustainability

Strengthen your **sustainability report** by transforming your waste into **value** for your company, **reducing the impact of CO₂ emissions**



Visibility

The projects we offer have a **great** narrative potential



Innovation

We produce through digital manufacturing technologies, using **3D printers**



Personalization

We design and customize each product to measure, even in small quantities



Tailor made service

We follow **every step of the process**: from the initial need to the final product



World Class Team

We are a **multidisciplinary team** that combines different personalities and skills

WHY CHOOSE KRILL DESIGN?

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In 2021 we were awarded by **Cross the Bridge** and by **Filiere di Economia Circolare**

Since 2021 we have been part of **B Corp Climate**Collective and Learning Leadership for Change

2020 saw us winners of the **Gaetano Marzotto Special Award for Innovation** and **Horizon-2020 Circularity Voucher**

In 2019 Confindustria awarded us as the **Best Performer company in the Circular Economy for services to companies**

















SUSTAINABLE REPORT





REKRILL®, our patented material, can do more with less

REKRILL® is circular in all of its components

REKRILL® is 100% compostable

in all environments



REKRILL® is 100% compostable in marine environments

REKRILL® < 1 year before dissolving in seawater

LDPE 450 years before dissolving in seawater



KRILL DESIGN'S NET

Krill Design is committed to activities with the municipality of Milano, like the Co.ffee Era project, and offers activities for primary and infancy schools, or specialized workshop for design Universities



REKRILL®, a new sustainable material

1,33 kg CO₂ eq/kg REKRILL[®]
3,40 kg CO₂ eq/kg PC
3,75 kg CO₂ eq/kg PMMA

The Ohmie Lamp reduces CO₂ emissions by 91% compared to one of the best-selling PC table lamps



Krill Design's B2B partnerships

- Autogrill

- Sanpellegrino

- Nestlé

- Gruppo Cimbali

- Veuve Clicquot

- Enel

- Arla Foods

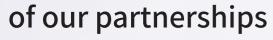
- Officina Naturae

- Caffé Barbone

- Terna

WE ARE PROUD







SanpellegrinoSicily's Revolution



The Need

Create a line of sustainable products by promoting a circular economy process within the company.

The Solution

Use the orange peels of Sanpellegrino soft drinks which become a new resource for the company. Their life cycle does not end, but the skins are transformed into a biomaterial for 3D printing. From the collaboration with the **Seletti** brand, iconic products are born, which preserve the memory of their origin in the colors and textures.



2. Biomaterial

Development of
biomaterial from waste
to Rekrill® Orange

3. 3D PrintingProduction using digital manufacturing technologies

Table lamp, tray, glacette

AutogrillWas Orange

The Need

Create a line of sustainable products by promoting a circular economy process within the company.

The Solution

Transforming orange peel into a biomaterial with which to produce, through 3D printing, furnishing accessories for 4,000 Autogrill stores around the world.



2. Biomaterial

Development of biomaterial from waste to Rekrill® Orange

3. 3D Printing

Production using digital manufacturing technologies

4. Products

Products for Autogrill bars at the service of customers: sugar bags, napkin holders, menu holders (...)

Comune di Milano Co.ffee Era



The Need

Eliminate the costs relating to the management and disposal of organic waste borne by public administrations and the community. Redevelop a Bovisa neighborhood.

The Solution

Transforming coffee waste produced by neighborhood bars and restaurants to create Eco-Design products and furnishings for everyday use, designed with the collaboration of the Design students of the **Politecnico of Milan**.



2. Biomaterial

Development of the Rekrill® Coffee biomaterial from coffee grounds

3. 3D Printing

Production using digital manufacturing technologies

4. Products

Home products, Penne Porta, Lamps, Watches, Subtazza (..)

Cimbali

Coffee products for coffee

The Need

Use the coffee scraps created during the coffee machine tests.

Promote a circular economy model within the Cimbali Group.

The Solution

Transforming the coffee waste produced by Gruppo Cimbali during tests on its machines to create objects-accessories that can be sold and used together with the machines, such as tampers and cup warmers.



1. Coffee products for coffee

Recovery of used coffee used to test coffee machines



2. Biomaterial
Rekrill® Coffee biomaterial
development
exhausted coffee





3. 3D PrintingProduction using digital manufacturing technologies



4. Products

Realization of products to be sold together with coffee machines, such as tampers and warming cups

EnelLight up waste



We do even simple things, from plastic to plastic.

The Need

Give new life to the abandoned counters of the company avoiding they will become refusal.

The Solution

Reuse plastic of abandoned counters to print in 3D furnishing accessories for Enel offices.

Creating events, such as **Focus Live in 2019** at the Museum of Science and Technique-Milan, with Live 3D Printing.



WHAT IS SAID ABOUT US



Press

la Repubblica

"L'eccellenza dell'agricoltura e del design italiani, racchiusi in un unico prodotto, simbolo di un'innovazione sostenibile necessaria."

Forbes

"Can you imagine a lamp printed in 3D made with orange peels? It's hard for anyone to think of this, but that's what the Milanese studio is all about Krill Design He has made"









WHO WE WORKED WITH

Our clients



























" Let's design the future together"







WHERE TO FIND US



Contacts

www.krilldesign.net contract@krilldesign.net

Via Marco D'Agrate 41, 20139, Milano (MI) - Italy office 1

Via Eugenio Colorni 4, 20138, Milano (MI) - Italy office 2