



Innovating
our sustainable
tomorrow

Innovating our sustainable tomorrow

Innovative Material Science





01. Company Overview



Company Overview

Innovating Our sustainable tomorrow

GCR develops and produces high -performance and sustainable plastic solutions, serving brand owners and plastic processors looking for [recycled and recyclable plastics](#) and [mineral-based compounds](#).

We unlock value for our partners, enabling their [growth](#) and enhancing their market position thanks to our firm commitment to [innovation](#) and [cutting-edge technology](#).

As a result, our materials are more environmentally friendly , [lowering carbon footprint](#) and [reducing virgin plastic use](#) without giving up the features and performance expected from first-use plastic.





Partnering across the value chain

BRAND OWNERS & PROCESSORS



WE ARE CO-CREATORS WITH A HOLISTIC VISION

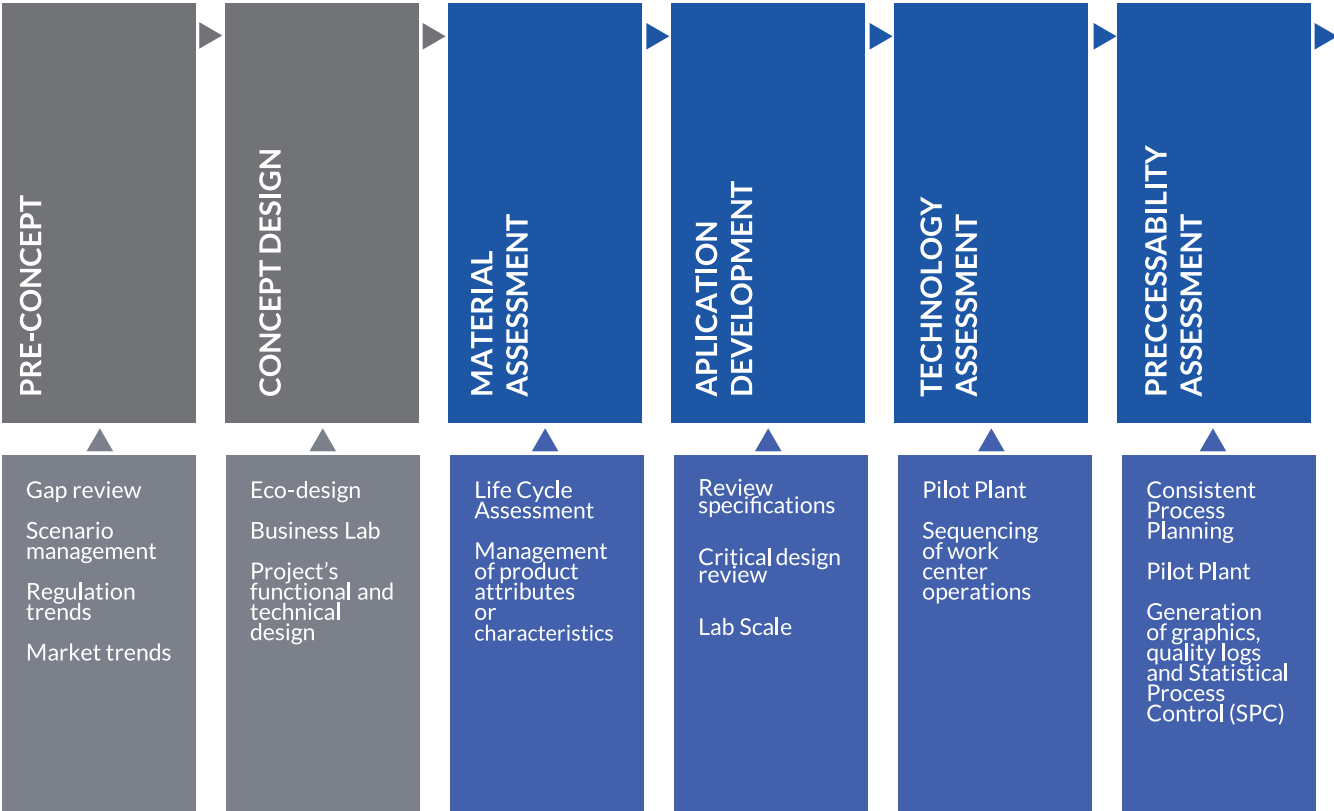
Our innovation hub is a co-creation space to develop precisely the solution you need with exacting specifications.

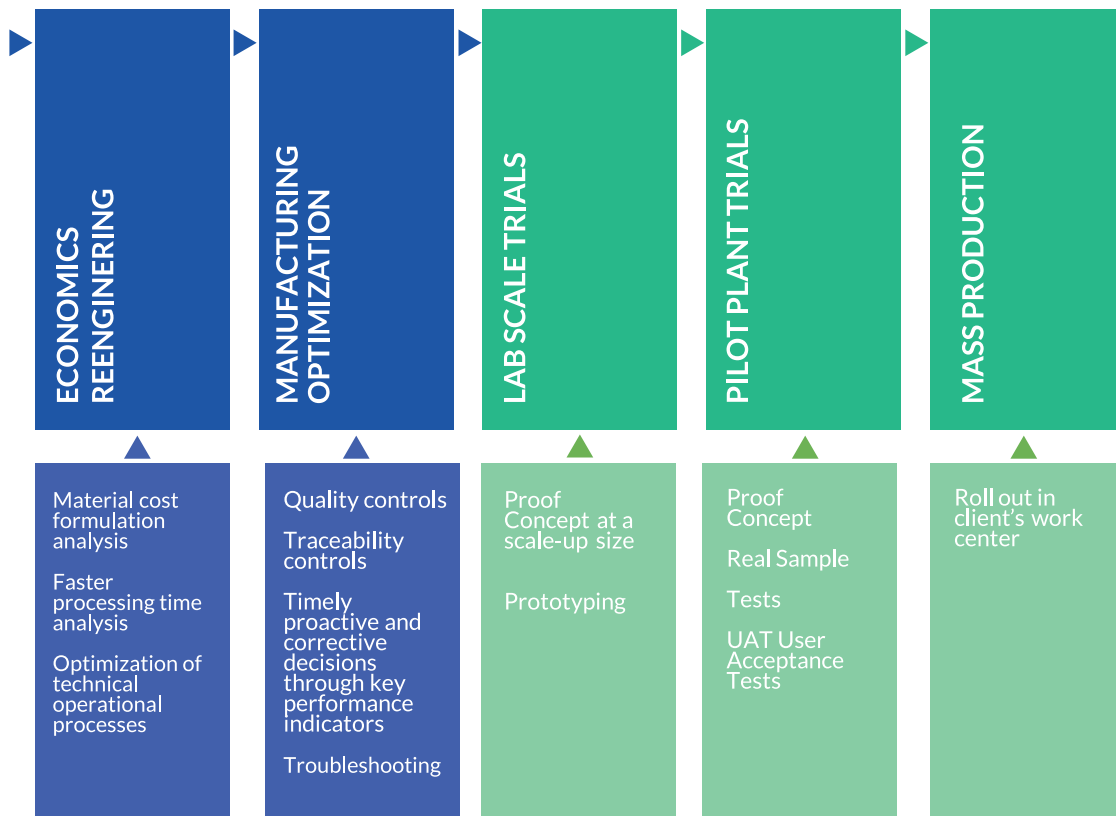
PREMIUM ALTERNATIVE TO VIRGIN PLASTICS

Our sustainable plastics can replace 100% of your virgin plastics, meeting similar quality and reliability metrics you would expect from first-use plastics.

Our innovation roadmap

END-TO-END SOLUTIONS





Our Deliverables

- Co-creation space
- Discover new ideas
- Accelerate Action to Circularity
- Services for industry 4.0
- Turnkey Projects
- Recyclability Consultancy Services

Innovation Hub

CO-CREATION SPACE

Innovation Hub: 2000 m2 of co-creation space.

A technological division dedicated to innovating, developing, and delivering new solutions with less environmental impact while improving material performance.

Our facilities host an R&D dedicated center where our customers and partners benefit from the company's know-how, equipment, and capabilities.

Our innovation hub offers development opportunities to our partners at any step of their process, **from the idea concept to the mass production of their products or solutions.**





Innovation Hub

AREAS OF EXPERTISE

We use our unparalleled knowledge, resources, and global connections to create game-changing innovations every day.

Some of our areas of expertise are:

- New designs for recyclable solutions
- PCR Upcycling
 - Innovative compatibilizer technology
 - Neatly blending technology creates enhanced performance
 - Odorless technology captures or blocks odor-causing bacteria
- Light weighting
- Recyclability assessment
- Polymer science
- Biobased and biodegradable solutions
- Carbon footprint reduction and LCA improvement



Innovation Hub

EQUIPMENT

Testing

- Universal Testing Machine
- Tensile, Flexural & Compression
- COF & Puncture
- Izod & Charpy Impact Test
- Heat Deflection Temperature
- Test Resistance
- Test Resistance
- Dart Drop Impact
- Moisture Analyzer
- Optical Microscopy
- Sealing Machine
- FTIR spectroscopy

Processing

- Mono & Coex Blown Film Lines
- Cast Lines
- Blow Molding
- Injection Molding
- Brabender Mixer
- Filter Tester





Production capacity

EXPANSION 2023

GCR continues investment with new recycling plant to support circular economy enhancing the group's capability to serve increased global demand for its CICLIC range of recycled polyolefins (R - polyolefins).

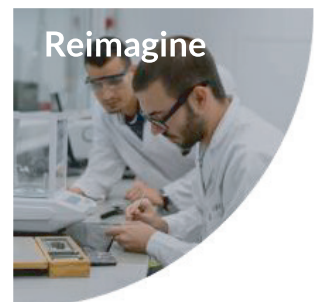
- New dedicated recycling plant in Castellet i la Gornal, Barcelona
- 200K MT production capacity extension
- Reindustrialization Project
- Expected to be in operation by 2023



End Markets

OUR MATERIAL SOLUTIONS COVER A WIDE VARIETY OF APPLICATIONS

Dedicated end market resources.
Specialized material science and know-how.
End Market-specific regulation knowledge.





02. Material Solutions

Granic

INSPIRED BY NATURE

What is Granic?

Granic is a high-performance mineral-based concentrate product line. Calcium carbonate, talc, silica, or other specialized minerals are utilized in conjunction with high-quality carrier resin, primarily PE, PP, PS, or recycled resin from world-leading suppliers.

The addition can account for up to 85% of the final plastic content, significantly lowering the polymers' content while enhancing the final application's mechanical properties.

Get to know our complete product range:

- Granic
- BIOGranic
- RGranic



Granic

INSPIRED BY NATURE

Why Granic is best-in-class material:

Excellent material properties:

- Excellent uniformity thanks to our unique optimal dispersion technology
- Improves mechanical properties by thoroughly selecting highly compatible materials enabling high-performance synergies
- Matte finishing options

Processability efficiencies:

- Reduces energy consumption
- Improves productivity through cycle time reduction thanks to higher thermoconductivity from minerals
- Allows automatic dosage and faster cleaning
- WAC Water Absorption Capacity

Carbon Footprint reduction and LCA improvement of the final product

Food Contact Approved



Typical End Markets:



Flexible Packaging



Consumer Goods



Industrial



Agriculture



Home & Garden



Building & Construction

BIOGranic

THE BIO MINERAL MASTERBATCH

What is BIOGranic?

BIOGranic is a mineral-based concentrate combined with a biodegradable or bio-based resin. The minerals used are calcium carbonate, talc, silica, or other specialty minerals combined with high-quality carrier resin (mainly PBAT or PLA).

BIOGranic is a sustainable and environmentally friendly product line. It improves the performance and processing capabilities of compostable bioplastics. BIOGranic is compatible with all bio-compostable carriers.



RGranic

THE RECYCLED BASED MASTERBATCH

What is RGranic?

RGranic is a high-sustainable mineral-based concentrate product line combined with a recycled carrier resin, mainly PP and PE -based. The minerals used are calcium carbonate, talc, silica, or other specialty minerals.

RGranic formulation includes water absorption agents that offer similar performance properties to virgin polymer carriers.

Typical end markets:



Flexible
Packaging



Consumer
Goods



Industrial



Agriculture



Ciclic

GIVING A NEW LIFE TO PLASTICS

What is Ciclic?

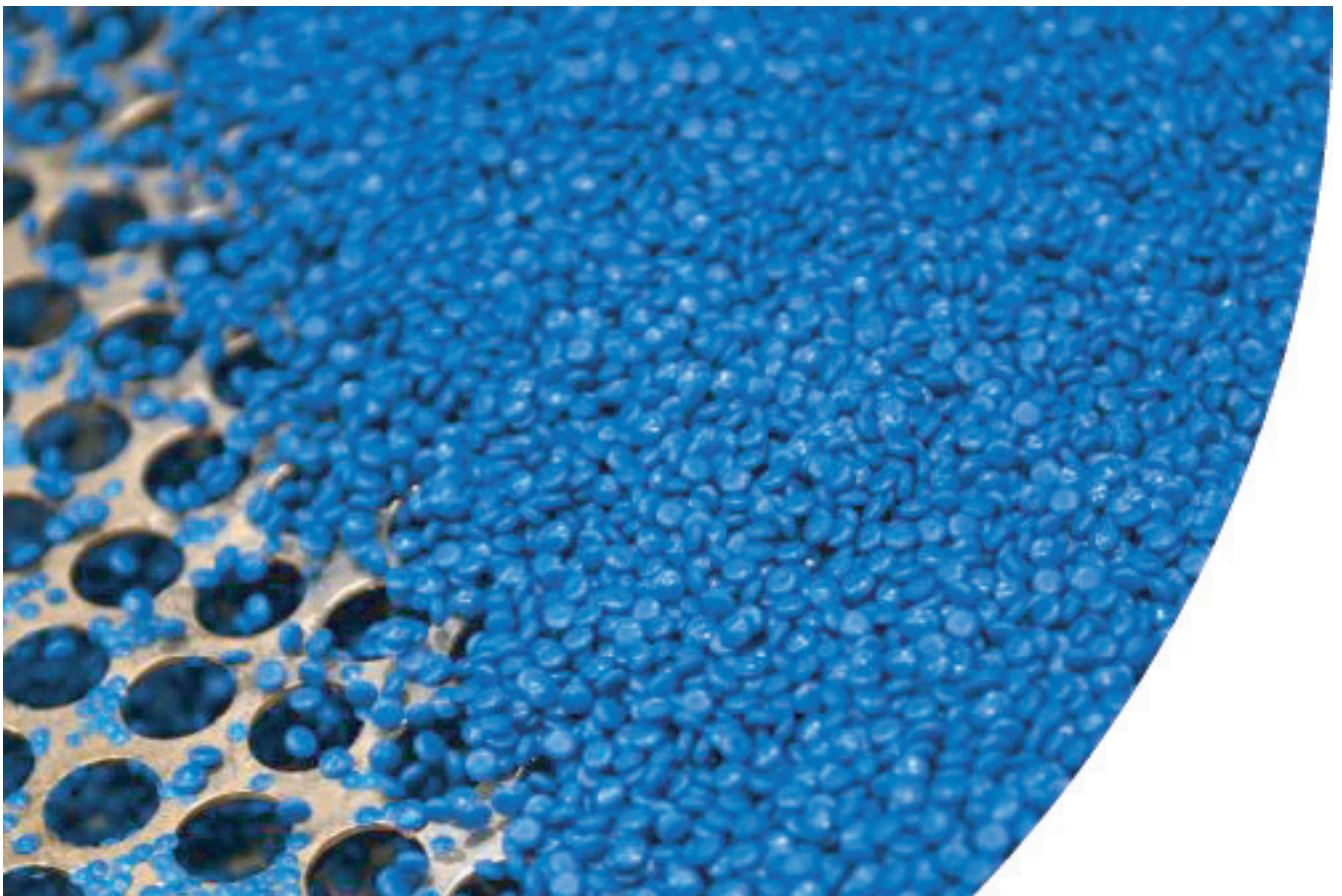
Ciclic is a high-quality recycled and recyclable polyolefins product line.

Our range of environmentally friendly and premium plastic pellets of rPP, rHDPE, rLDPE, and rLLDPE result from upcycling waste to value-added materials keeping similar material properties as virgin plastic.

Post-consumer and Post-industrial source capabilities.



EuCertPlast



Ciclic

WHY CICLIC IS THE BEST -IN-CLASS RECYCLED MATERIAL

Highest consistent quality for demanding, high-performance applications

Meeting narrow specifications

Thorough raw material pre-sorting

Advanced recycling technology enabling impurity-free materials

Full traceability of material sources

Facts

- Carbon Footprint certification is more than 80% lower than conventional virgin polymers
- **100% recyclable**
- **Post-consumer and Post-industrial or source capabilities.**

Solving industry challenges

- Transparency
- **Anti-slip**
- **Anti-UV**

Food contact

Certified for toll manufacturing



End markets



Rigid Packaging



Flexible Packaging



Automotive



Building & Construction



Home & Garden

Ciclic

VALUE STREAMS IN A CIRCULAR ECONOMY

BACKGROUND

- 20 years of recycling expertise
- Material science
- Reliable source streams
- State-of-the-art technology

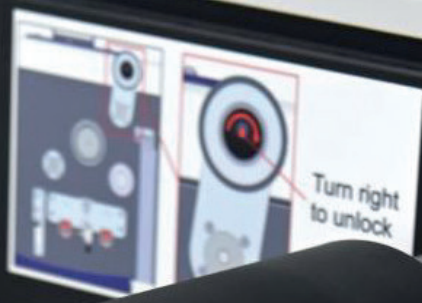


CAPABILITIES

- Deep formulation know-how
- Material properties
- Chemical enhancement capabilities
- Consistent supply
- High-Quality standards
- Material traceability

CIRCULAR ECONOMY





03. How we operate

ATTENTION
BEARING
ROLL
REPAIR/LOAD

ATTENTION
BEARING
ROLL
REPAIR/LOAD

MFA-CR



How We Operate

Social Responsibility

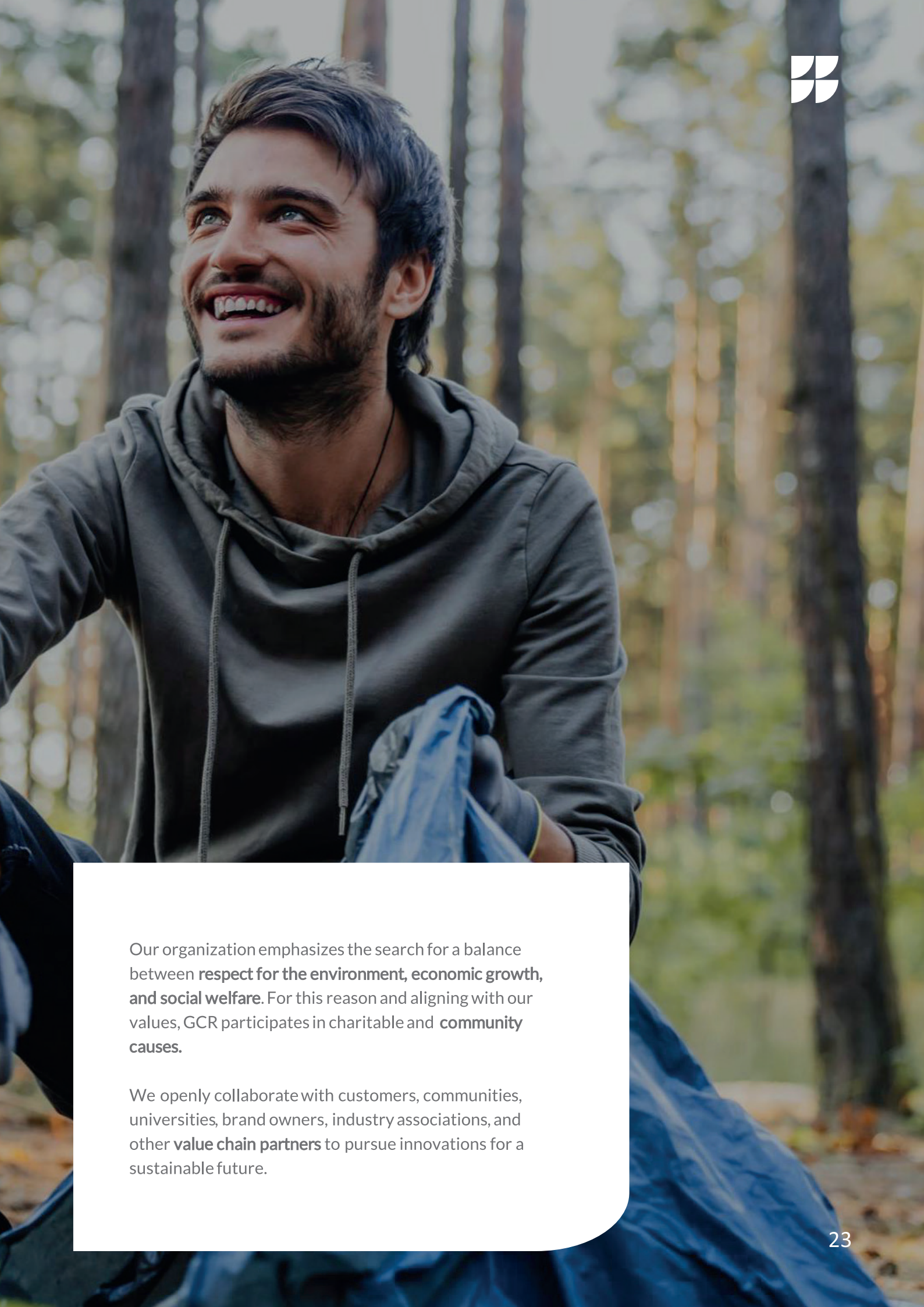
OUR ACTIONS DEFINE US

**“WE DON’T CHANGE THINGS ONLY BY INTENTIONS,
IT’S ALL ABOUT THE ACTIONS”**

At GCR, we believe that **diversity** breeds excellence: more diverse teams mean a broader range of perspectives, which leads to better and more robust results.

GCR employs **24 different nationalities** and recognizes **gender** and **age diversity** by recruiting and retaining a mix of Young, middle -aged, and senior talent.

We embrace diversity because, together, we are better.



Our organization emphasizes the search for a balance between **respect for the environment, economic growth, and social welfare**. For this reason and aligning with our values, GCR participates in charitable and **community causes**.

We openly collaborate with customers, communities, universities, brand owners, industry associations, and other **value chain partners** to pursue innovations for a sustainable future.

A lush green tea plantation with rows of tea bushes stretching into the distance under a soft, hazy sky. The focus is on the foreground leaves, which are slightly blurred, creating a sense of depth.

GCR



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