

Specific Prevention and Management Plan for packaging and packaging waste

November 2021



FOREWORD

The Specific Prevention and Management Plan for packaging and packaging waste (or PSP) has been **drafted by CONAI** as required by Article 225, Section 3, of the Consolidated Environmental Act.

Its **objective** is to provide a clear and effective overview of the work carried out and the results expected in the area of packaging and packaging waste management, with a two-year 2021-2022 horizon.

The PSP is founded on the **institutional documents** that the Material Consortia and Autonomous Systems have sent to CONAI in accordance with current legislation.







CONAI: WHOWEAREAND WHATWEDO

THE FIRST EPR SYSTEM IN ITALY DEDICATED TO PACKAGING

CONAI – Consorzio Nazionale
Imballaggi (National Packaging
Consostium) – consists of over **750,000**businesses that produce and use packaging.

We are a **non-profit** consortium established by law to implement the

Extended Producer Responsibility (EPR) principle for producers/users of packaging. The law tasks CONAI with important **assignments**.



Ensure that **targets are met** for packaging waste recovery and recycling as established by law, and oversee cooperation between the Consortia and other economic actors.



Operate according to the principle of subsidiarity, taking the place of waste collection service managers in the event that waste collection services run by public administrations are inadequate, in order to meet recovery and recycling



Incentivise recycling and recovery of secondary raw materials by promoting the market for their use.



Acquire data on the flow of packaging in and out of the country and the data of relevant economic actors, and provide data and information requested by the Ministry of Ecological Transition.



Ensure **compliance** with the "**polluter pays**" principle for producers and users by calculating the CONAI Environmental Contribution (CAC).



Reduce packaging waste sent to landfills by promoting methods for its recovery.



Organise information, training and awareness-raising campaigns targeting users of packaging and consumers in particular.



Promote and coordinate separate collection initiatives for packaging waste, according to efficiency, effectiveness and cost-effectiveness criteria.



Set out a framework programme agreement at the national level with the Association of Italian Municipalities (ANCI), the Union of Italian Provinces (UPO) or with local authorities, to guarantee application of the principle of shared management responsibility between producers, users and public administrations (authorities).



Facilitate prevention of the environmental impact of packaging and packaging waste, through studies and research to produce environmentally-friendly, reusable and recyclable packaging.

EPR packaging waste management systems: CONAI Material Consortia and Autonomous Systems

















CONAI directs the activities of **7 private and non-profit** Material Consortia that work to collect and recycle/recover various packaging waste materials throughout the country, in accordance with the principle of subsidiarity to the market.







There are currently 3 Autonomous Consortia working to recover specific types of plastic packaging through recycling.

The BACKGROUND CONTEXT

GLOBAL MACROECONOMIC CONTEXT

2021 is showing positive signs for manufacturing and global trade. Global GDP growth is expected to recoup the losses sustained last year due to the pandemic.

GROSS DOMESTIC PRODUCT -	annual % change at c	onstant prices				
	2009	2020	2021	2022	2023	
GLOBAL GDP	-0.4	-3.2	5.9	4.1	3.6	
USA	-2.5	-3.4	6.0	4.1	2.5	
EMU	-4.5	-6.5	5.0	4.2	2.6	
Germany	-5.6	-4.9	2.4	4.2	2.7	
China	9.2	2.1	8.4	4.7	5.1	
GLOBAL TRADE	-12.3	-5.3	8.5	6.1	4.4	







SOURCE: Prometeia, Forecast Report, September 2021

ITALY MACROECONOMIC CONTEXT

- Expected recovery in household consumption, driven by the vaccination campaign and reopenings, though hampered by inflationary tensions.
- Expected increases in public and private investment also in 2022 with the implementation of the PNRR (National Recovery and Resilience Plan).

	2020	2021	2022	2023
GDP	9.0	6.0 △	3.8 ▼	2.8
Domestic consumption *	-11.7	4.2	4.4 ▼	3.0 ▼
Investments in mach. & equip.	-11.2	11.2 ▼	9.4	6.2 △
Investments in construction	-7.0	21.6	8.0	7.1
Exports	-14.7	12.6	9.2	5.8 △
Imports	-13.4	13.2 ▼	11.9	7.2 △
Consumer prices	-0.1	1.8	1.5	1.4

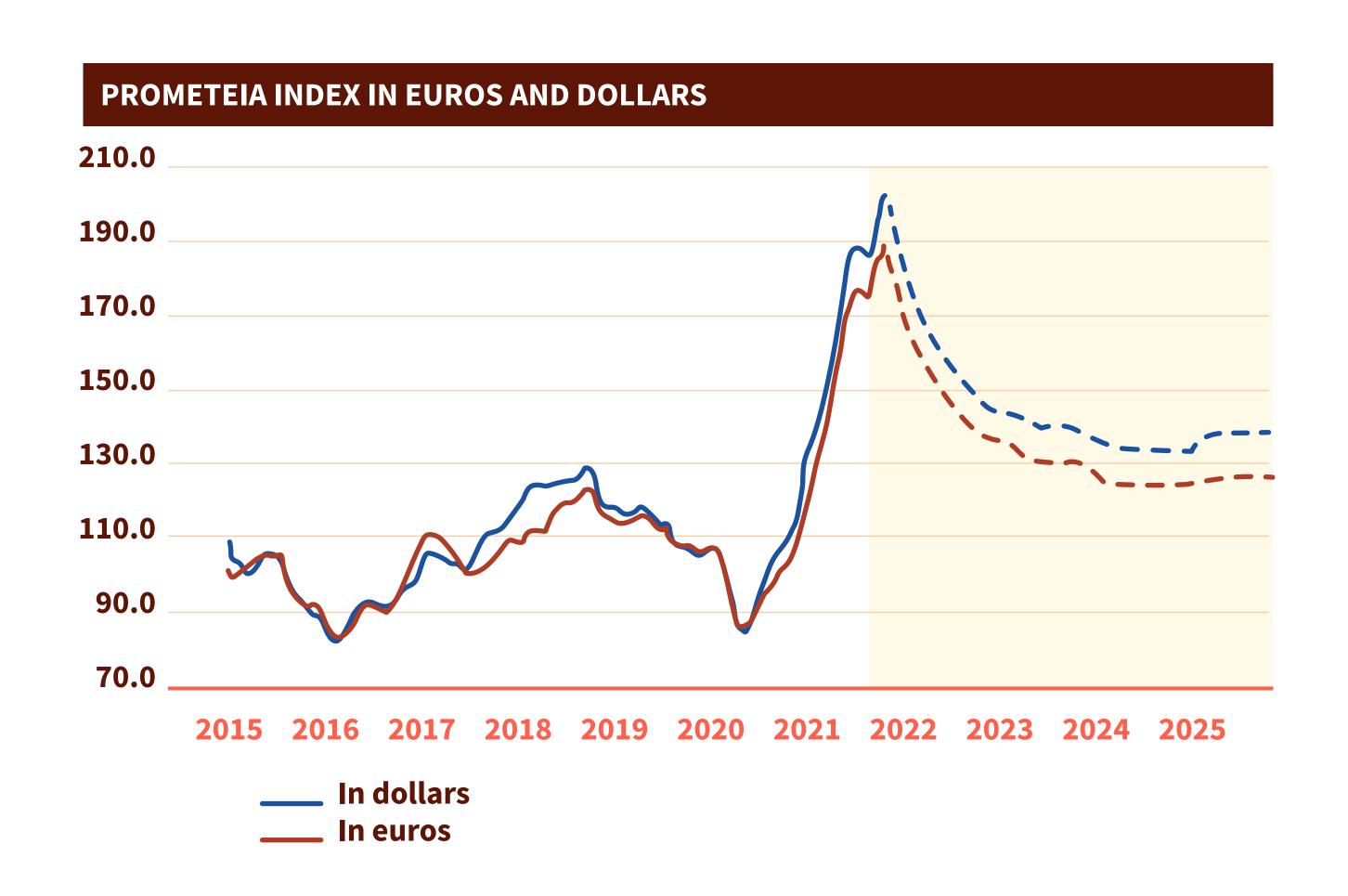
^{*} Consumption by Italian households and foreign tourists in Italy

SOURCE: Prometeia, September 2021 scenario

THE MADDENING UNKNOWN: THE PRICE OF COMMODITIES

There was a sharp rise in the first months of the year, which then stabilised over the summer, followed by a renewed increase in September fuelled primarily by rising energy prices.

Double-digit rises are expected for almost all raw materials, with easing only expected from 2022.



THE SITUATION FOR PACKAGING COMMODITIES

For 2021, prices of all packaging commodities are expected to rise consistently:













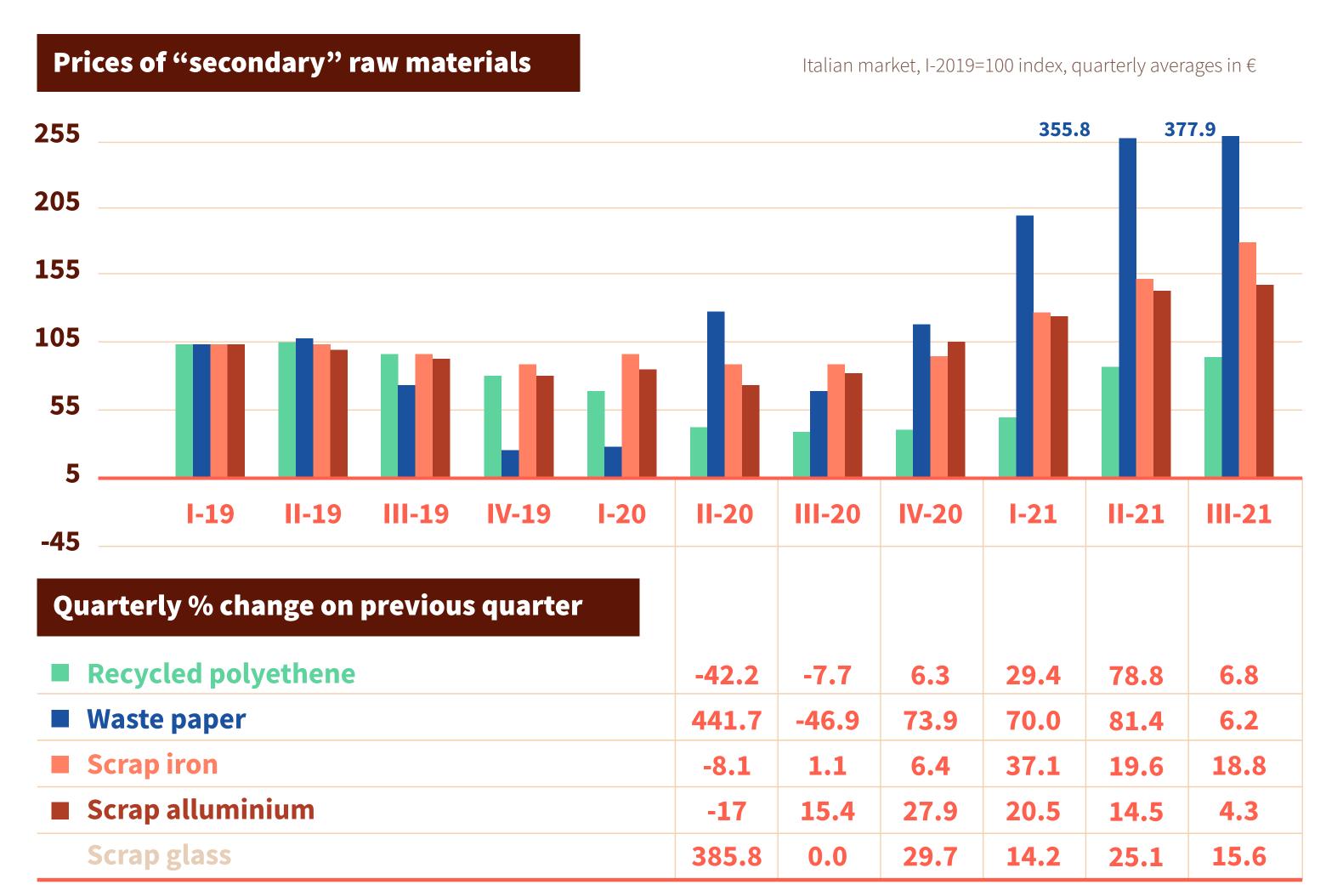
PRICES OF COMMODITIES - % change, in euros				
	2021	2022		
Timber	58.1 △	-34.4		
Plastics	74.6 	-24.1		
Steel	105.8	-26.7 V		
Aluminium	41.9	9.6		
Cellulose	38.9	- 12.6		
Silica (glass)	3.5	- 5.4		

SOURCE: Prometeia

AND ITS IMPACT ON SECONDARY RAW MATERIALS

Further increases are expected for secondary raw materials in late 2021:

- Increasing prices for waste paper.
- Relatively stable prices for recycled polymers, although they continue to fluctuate at the higher end.
- Increases for scrap aluminium remain modest.
- Sharp price increases for scrap iron and scrap glass.



Scrap glass not included on the graph due to scale

NATIONAL LAW 1/2

Ministry of Ecological Transition memorandum of 12 April 2021 on the transposition of the Circular Economy Package

■ Definition of limits for delivery of municipal waste by non-domestic users.

SUP Directive - Directive on reducing the impact of certain plastic products on the environment: draft transposition decree.

- 5 August 2021 preliminarily approved by the Council of Ministers.
- 22 September notification to the European Commission.

Legislative Decree Simplifications

■ Establishment of deposit return systems for glass, plastic and metal packaging containing liquid foodstuffs.

"Plastic-eater" experimental programme

 Contribution to Municipalities for installing machinery for separate collection of PET drinks bottles which can selectively recognise PET bottles and reduce their volume, encouraging recycling.

NATIONAL LAW 2/2

PNRR (National Recovery and Resilience Plan)

- National strategy for the circular economy public consultation.
- 29 September 2021 publication of decrees defining the recipients of economic resources and the relevant allocation procedures:
 - Improvement and mechanisation of the separate waste collection network and modernisation and construction of new treatment/recycling plants for municipal waste originating from separate collection.
 - Modernisation and construction of new plants to improve recycling, logistics and recycling of waste paper and cardboard, and construction of new plants for recycling plastic waste.

2020 Budget Law - Plastic tax

■ The "2022 Budget Plan" document postponed the implementation of the tax to 2023.

EUROPEAN LAW

HOT TOPICS

- Review of the Packaging Directive 94/62/EC, with the hypothesis of turning the Directive into a Regulation (postponed to 2022).
- Start of the harmonisation processes at the EU level for separate waste collection of municipal waste and labelling of packaging.
- **High quality recycling** and new definition of recycling.

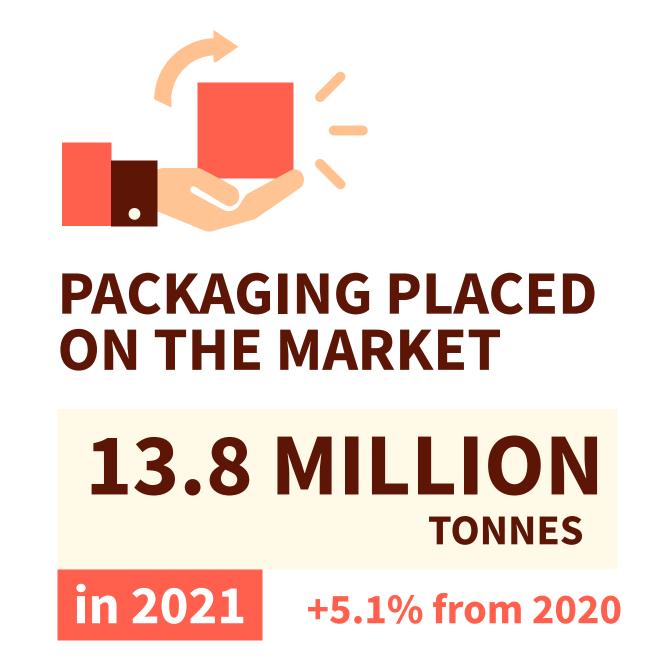
- Pursuit of development of additional European end-of-waste criteria and identification of by-products.
- Revision of the Waste Shipment Regulation to improve the traceability of intra-EU waste trade and stop hazardous waste from being exported to third countries.

EXPECTED

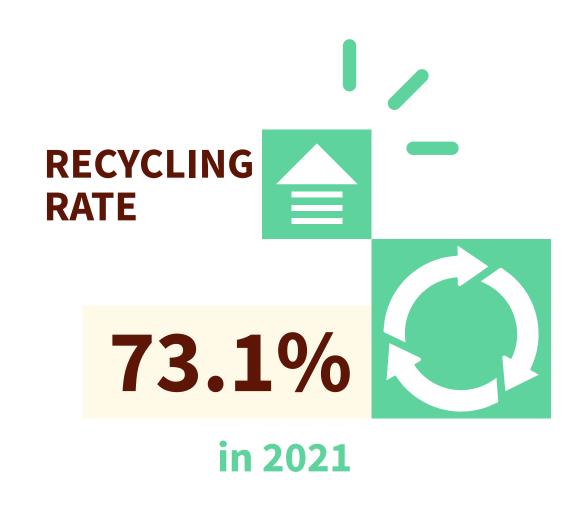
RESULTS

2021 FORECASTS

Following the acute year of crisis and the subsequent recovery in products placed on the market, there is now **renewed vitality in overall recycling**, which is growing at a faster pace than the amount placed on the market.









The data does not yet account for modifications introduced by the Decision concerning the procedures for calculating the results of plastic recycling and recovery, which will mainly affect the results for plastic packaging waste, which will see an estimated decrease of 10%.

2022 FORECASTS

Further improvements expected in 2022.



in 2022

+3.5% from 2021

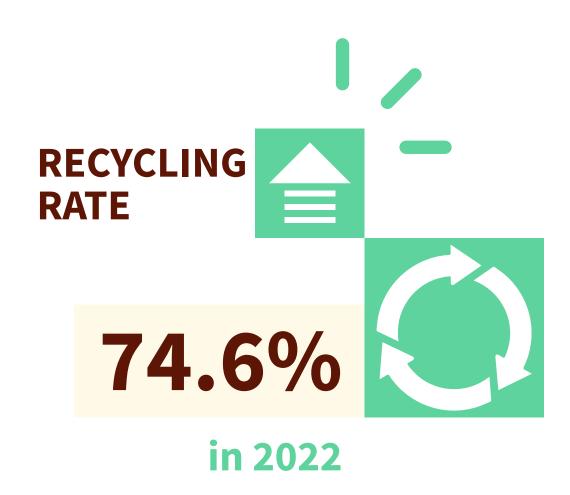
TONNES

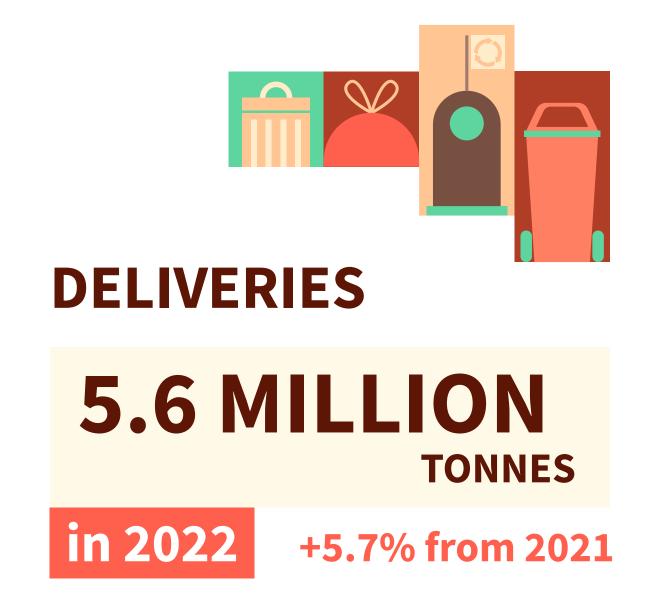


10.6 MILLION TONNES

in 2022

+5.7% from 2021

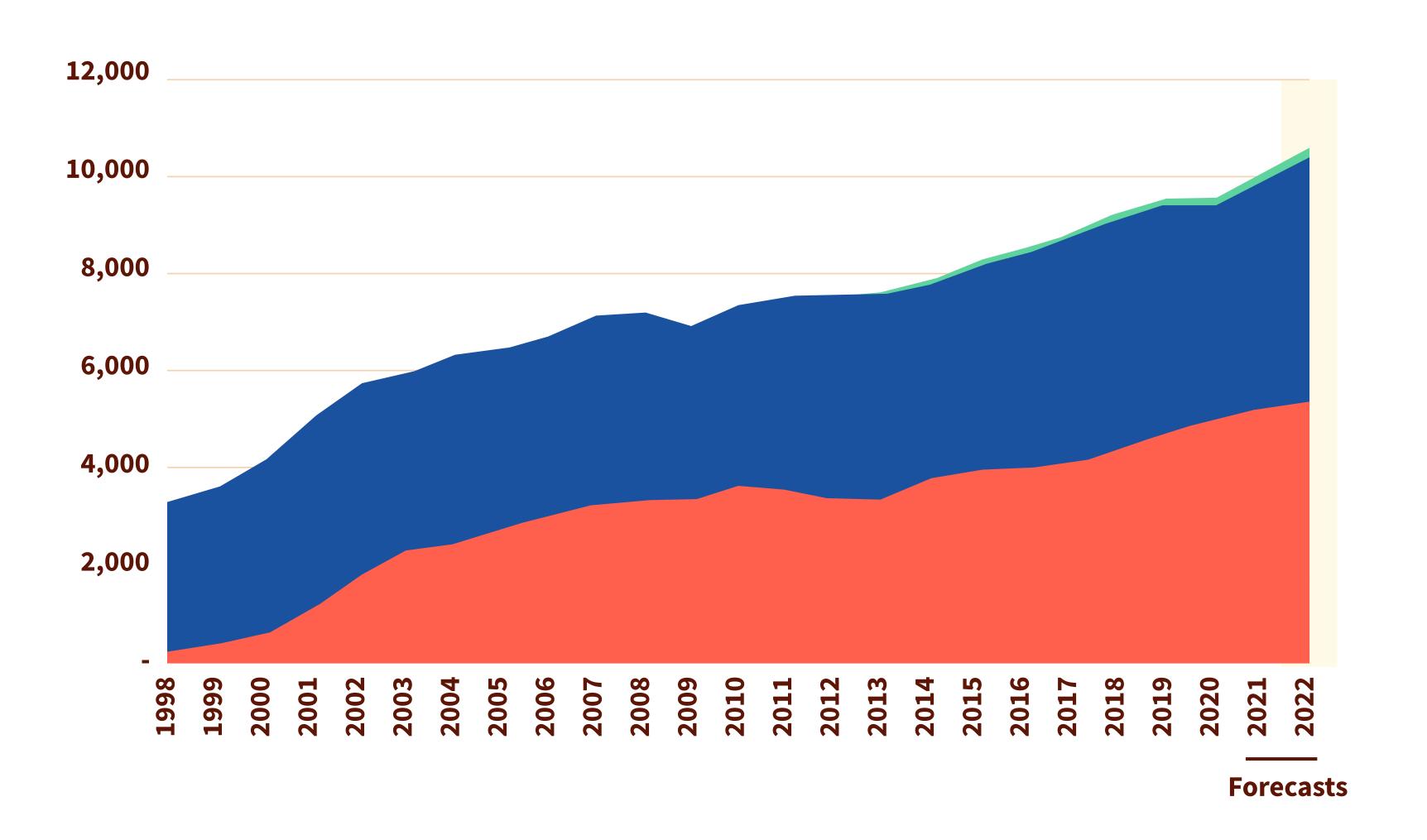




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CONTRIBUTION TO NATIONAL RECYCLING

BY MATERIAL CONSORTIA, AUTONOMOUS SYSTEMS AND MARKET



In line with the expansionary phases of the economy and the role of subsidiarity to the market, the contribution of the Consortia management system on recycling is expected to decrease.

- AUTONOMOUS SYSTEMS in 2022 \longrightarrow 2%
- INDEPENDENT (market)

in 2022 ---> 47%

CONSORTIA MANAGEMENT

in 2021 ---> 52%



in 2022 ---> 51%





REPORTING

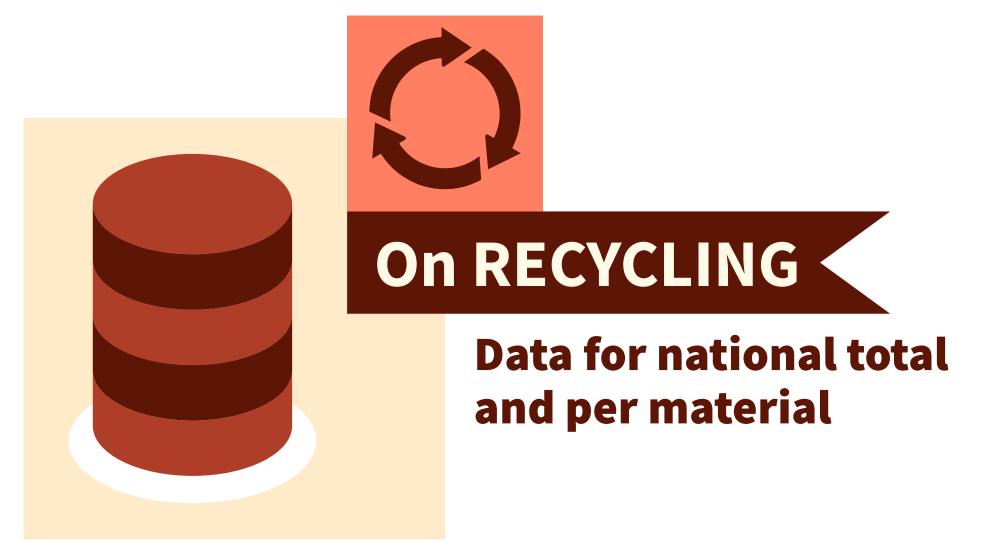
- Traceability of data and the procedures used to gather, manage and analyse this data.
- Standardised data reporting methods.

"OBIETTIVO RICICLO" PROJECT

Successfully concluded verification and approval of the procedures used to produce the 2019 data for products placed on the market, recycling and recovery, by a third-party certification body.

SINGLE DATA ASSET

CONAI has a single data asset for data on packaging and packaging waste, consisting as follows:



SOURCES

CONAI Material Consortia Autonomous systems Market



SOURCES

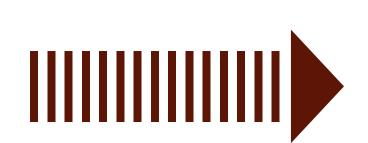
CONAI Material Consortia

GOAL: make the best possible use the Consortium's data and information assets.

The INSTRUMENTS

ANCI-CONAI AGREEMENT







ANCI-CONAI FRAMEWORK PROGRAMME AGREEMENT

General matters

+

Technical annexes for materials

NEW FRAMEWORK PROGRAMME AGREEMENT

General matters

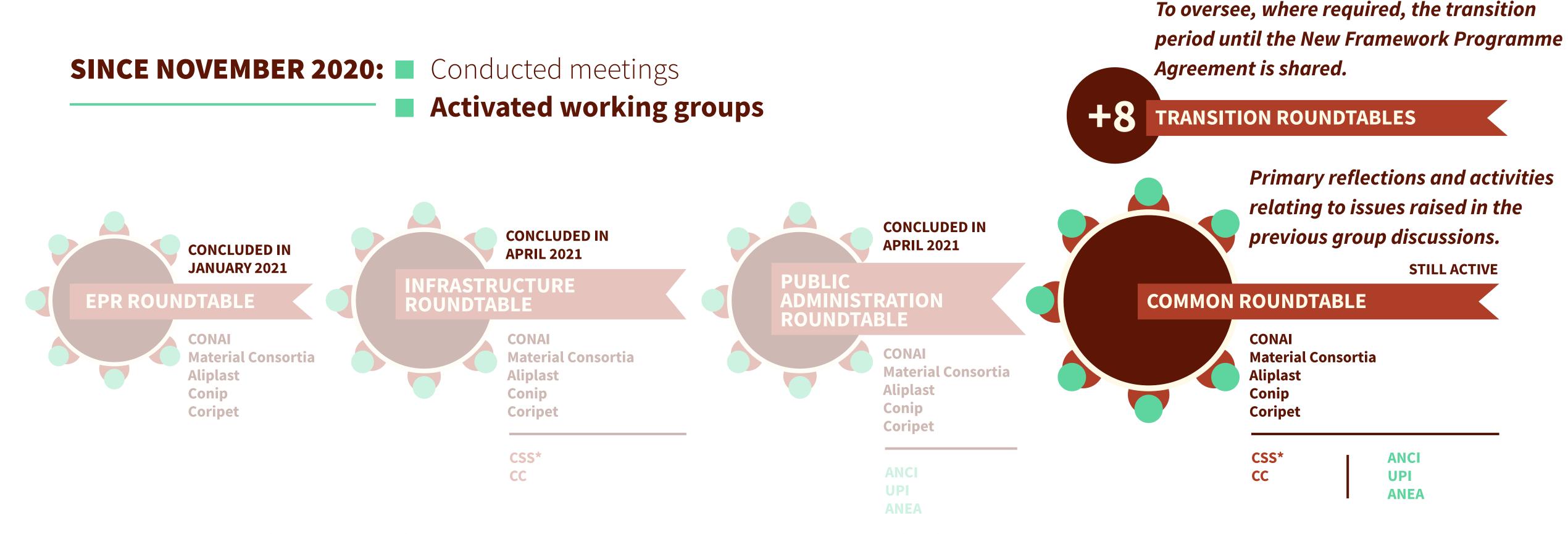
+

Sectoral technical annexes * for materials

★ The reference sector is the one for the material that the packaging is made of (reference sector = technical annex)

NEW ANCI-CONAI AGREMENT

CONAI and the autonomous systems promote a Framework Programme Agreement on a national basis with the Association of Italian Municipalities (ANCI), the Union of Italian Provinces (UPI) and local environmental authorities.



^{*} N.B. The Competition Bill (DDL Concorrenza) contains an amendment to the Consolidated Environmental Act (TUA) which was not in force at the date this document was compiled, which does not include the CSS among the signatories of the Framework Programme Agreement.

ANCI-BIOREPACK TECHNICAL ANNEX

The ANCI-BIOREPACK technical annex constitutes the technical annex of the new Material Consortium expands the CONAI – Material Consortia system to include collection of the organic portion of municipal solid waste.



SCOPE

Covering the costs of collection, transport and treatment of biodegradable and compostable plastic packaging waste and its delivery in the collection of the organic portion of municipal waste.

PAYMENTS

Based on the proportion of biodegradable plastic packaging waste in the organic collection according to its quality, defined based on the content of non-compostable material.

ENTERED INTO FORCE

Retroactivity of the effects of the convention from 1 January 2021

PARTNERSHIP FRAMEWORK AS OF 31 DECEMBER 2021

The prevalence of agreements entered into with municipalities/managers is testament to the effectiveness of the Framework Agreement as an instrument for supporting and assisting the municipalities.

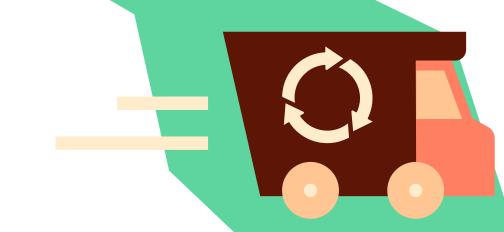
	RESIDENTS COVERED	% POPULATION COVERED	MUNIP SERVED	% MUNIP SERVED
Material	million	%	No.	%
Steel	52	87	5,980	76
Aluminium	46.7	79	5,568	70
Paper	57.6	94	7,112	87
Wood	42.4	72	4,498	57
Plastic	57.2	97	7,485	95
Glass	58.4	97	7,548	96



PACKAGING WASTE DELIVERED TO PARTNERS

	2020	2021 FORECAST	2022 FORECAST	
Material	Kt	Kt	Kt	
Steel	209	170	215	
Aluminium	17.8	16.8	17.4	
Paper	1,439	1,531	1,444	
Wood*	130	23	142	
Plastic	1,305	1,337	1,390	
Glass	2,104	2,190	2,359	
TOTAL	5,204	5,268	5,567	

^{*} The 2021 figure for wood packaging waste is for the months of January and February only, as negotiations to conclude the new Technical Annex are still in progress.



5,268 kt

Packaging waste delivered to partners

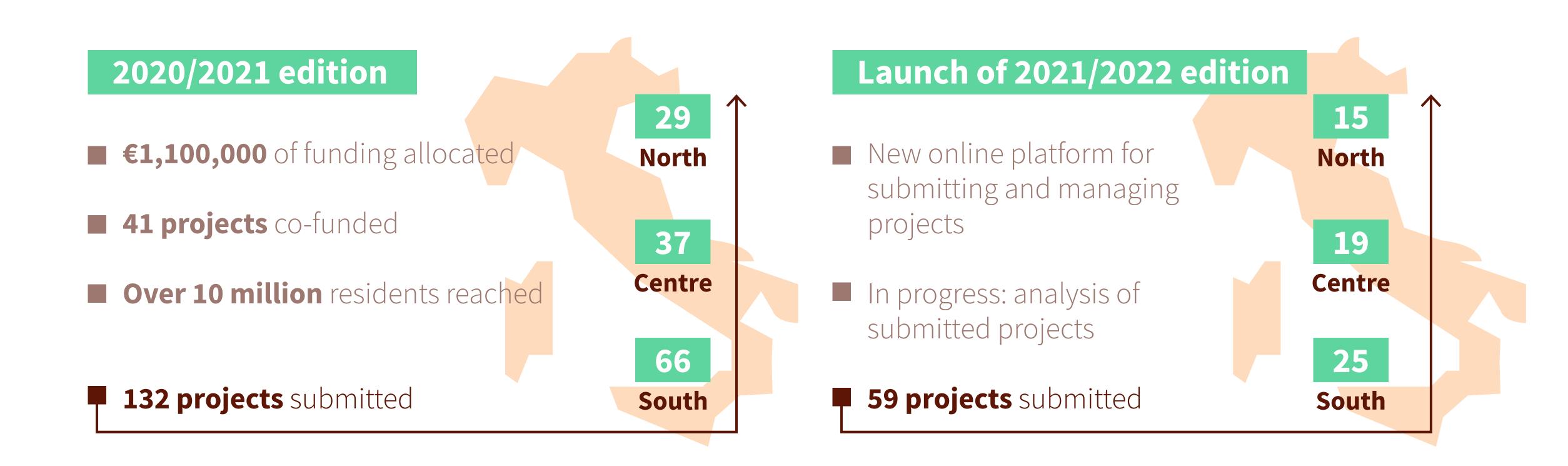
+ 1.2 %

from 2020



ANCI-CONAI TENDER for local communication

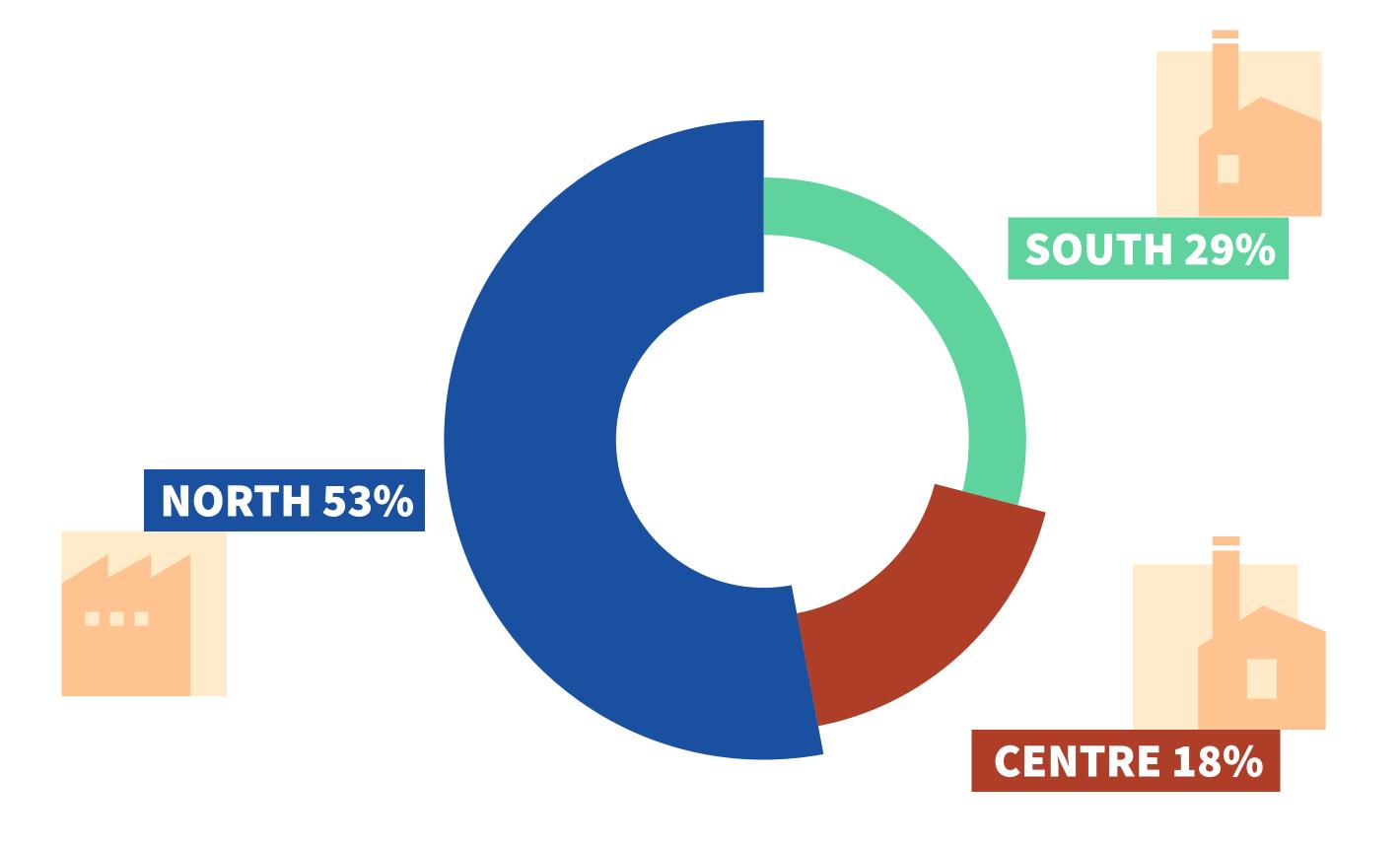
Goal: raise local awareness about separate collection for packaging waste



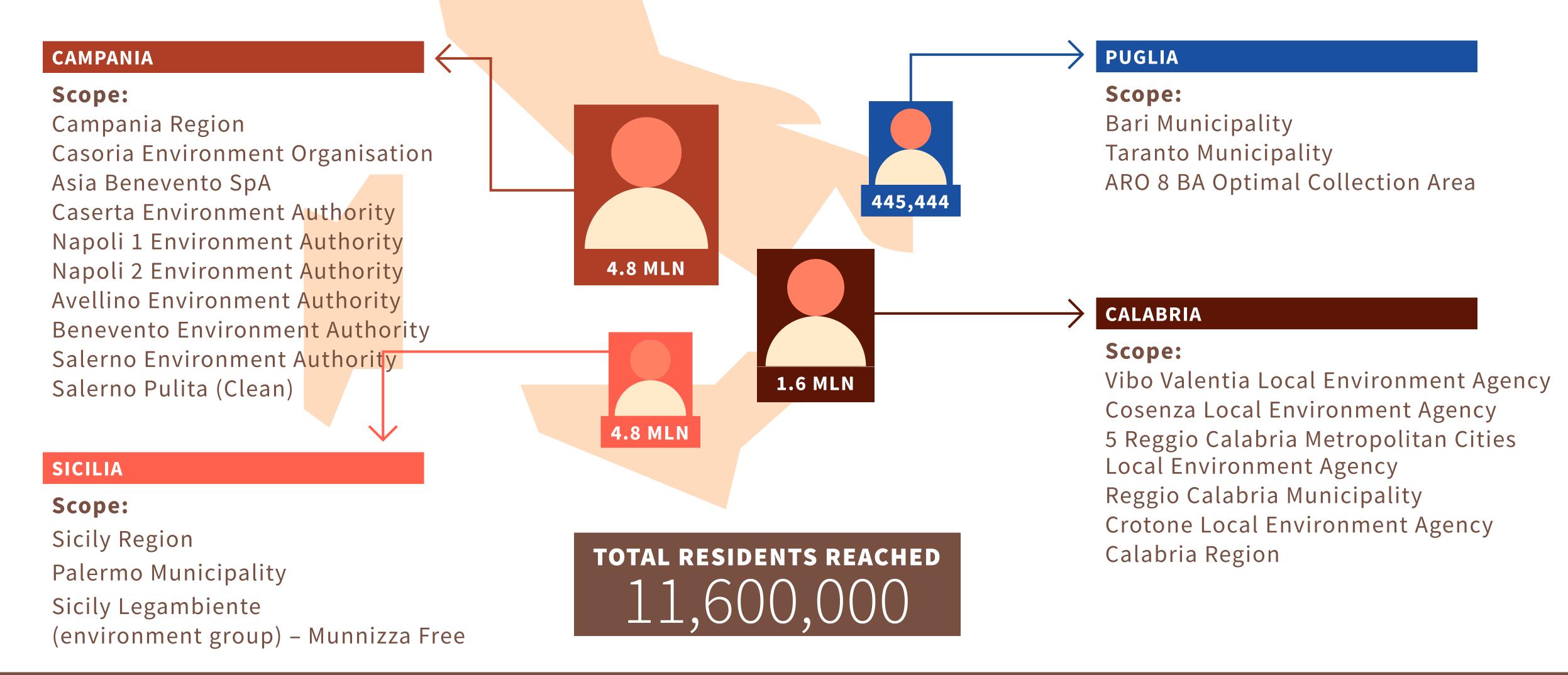
THE NETWORK OF PLATFORMS FOR INDUSTRIAL AND COMMERCIAL PACKAGING WASTE

Over 580 platforms have been set up across the country for delivering secondary and tertiary packaging waste, for which the consortia platform assumes the costs of sorting and recovery.

The activity of the platforms so far has proven to be significant, particularly for secondary and tertiary packaging made from **wood material** (estimated at **over 905,000 tonnes in 2021**), and to a lesser extent for other materials.



SUPPORT FOR AREAS THAT ARE BEHIND

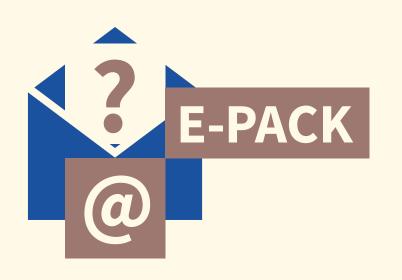


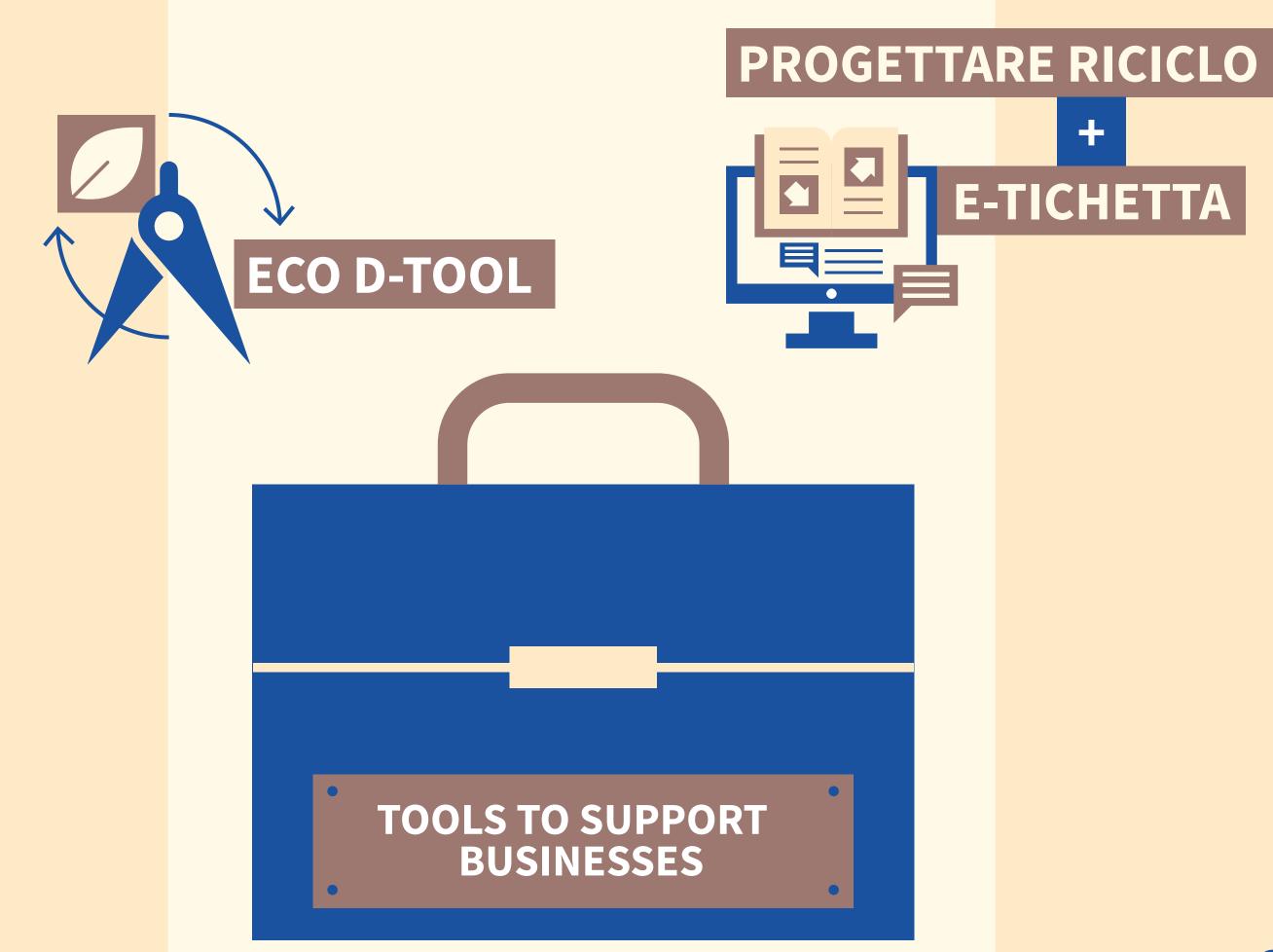
PENSARE FUTURO

("IMAGINING THE FUTURE")

Eco-design for increasingly sustainable and recyclable packaging.









LABELLING The response from CONAI



- Guidelines for environmental labelling of packaging
- Guidelines for voluntary labelling of packaging



Guidelines by sector with Associations and consortia



Database of collection systems and monitoring board for labelling



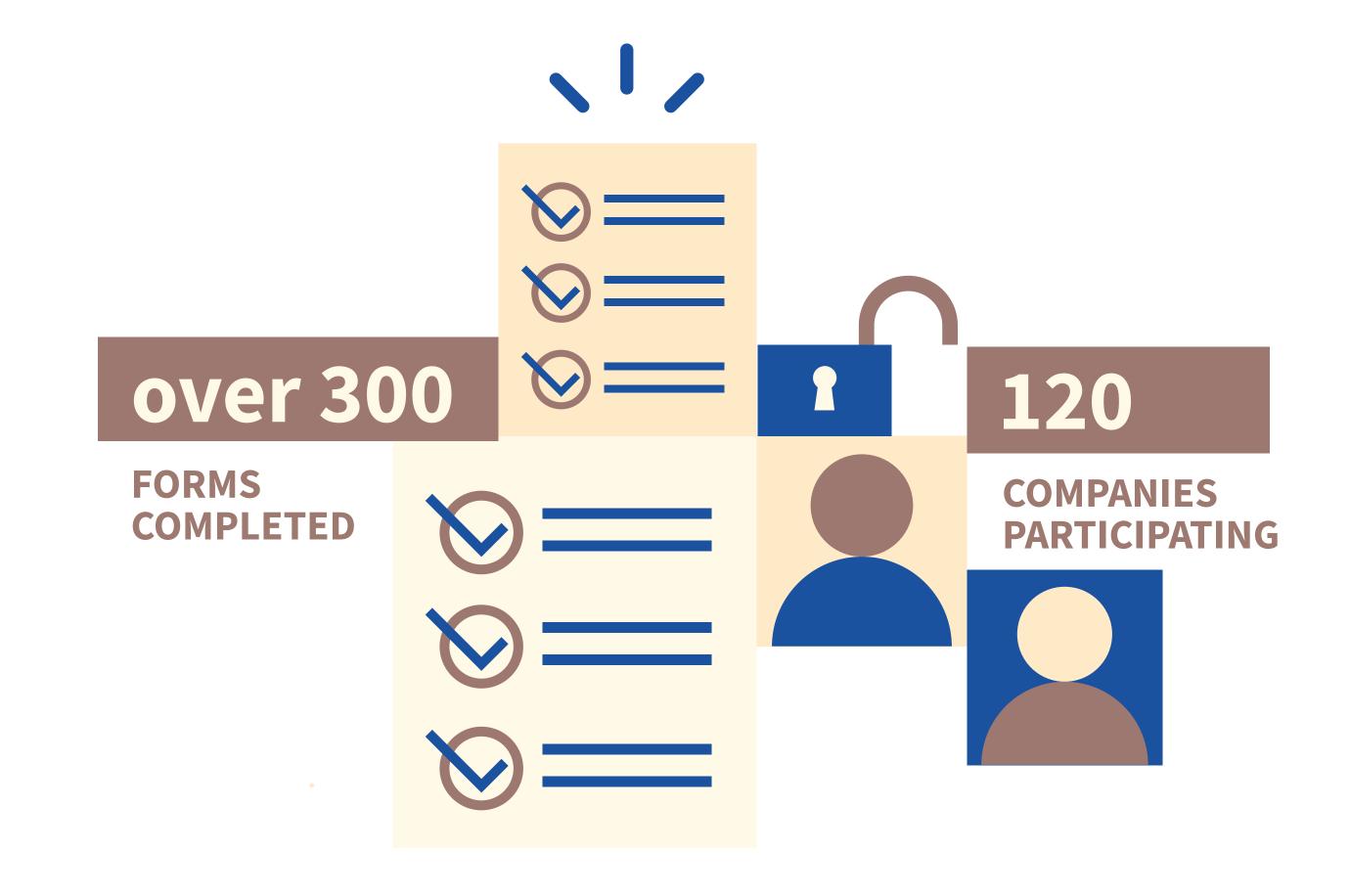
etichetta-conai.com **MULTILINGUAL**

- "E-tichetta" online labelling tool
- CONAl Academy webinars
- Courses for labelling experts with TuttoAmbiente – sold out
- CONAl Academy Week: 1 week of sectoral webinars
- Call for Good Ideas to reward virtuous labels



Simplified LCA and eco-design tool for packaging.

- Perform an environmental check-up of the packaging.
- Suggest possible eco-design improvements.
- Compare packaging re-design plans.





In 2022 the tool will be upgraded to enhance existing indicators and improve accessibility.

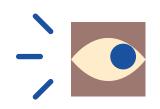


BANDO CONAI AWARDS FOR ECODESIGN

Recognition for the most sustainable packaging solutions.



2021 edition



This initiative represents a unique vantage point for staying up to date with the latest innovations from companies in the packaging world.

326 studies submitted

+13%

- **109 winning** companies
- **185 projects** incentivised

+16%

compared to 2020

- Utilisation of recycled material has doubled
- Raw material savings have decreased
- Reuse has tripled
- Legambiente has given a special mention to one of the five winners for circular innovation

The ranking of the 185 winning studies is available on the conai.org website together with the verification statement from the DNV of the analysis and evaluation procedures.



BANDO CONAI AWARDS FOR ECODESIGN

Recognition for the most sustainable packaging solutions.

Extended technical committee consisting of:

IUAV University of Venice

Laura Badalucco

Polytechnic University of Milan

Barbara Del Curto

Altroconsumo

Claudia Chiozzotto

University of Bologna

Clara Giardina

Legambiente

Daniele Faverzani

ItaliaImballaggio

Stefano Lavorini

Polytechnic University of Turin

Silvia Barbero







davines

CILENTO

The

winning

companies



CasaModena

STATALOGIC

Covena

figuli

aSaponaria

ce.or.

accardo

MartinoRossi

POLOPICAST PACKAGING

CARTRISA

Colussi ECCLIANA DAL 1911















| PROVENZALI





Barilla









Haier Europe























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Sacchital
GROUP
R-EVOLUTION IN PACKACING



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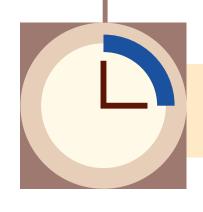


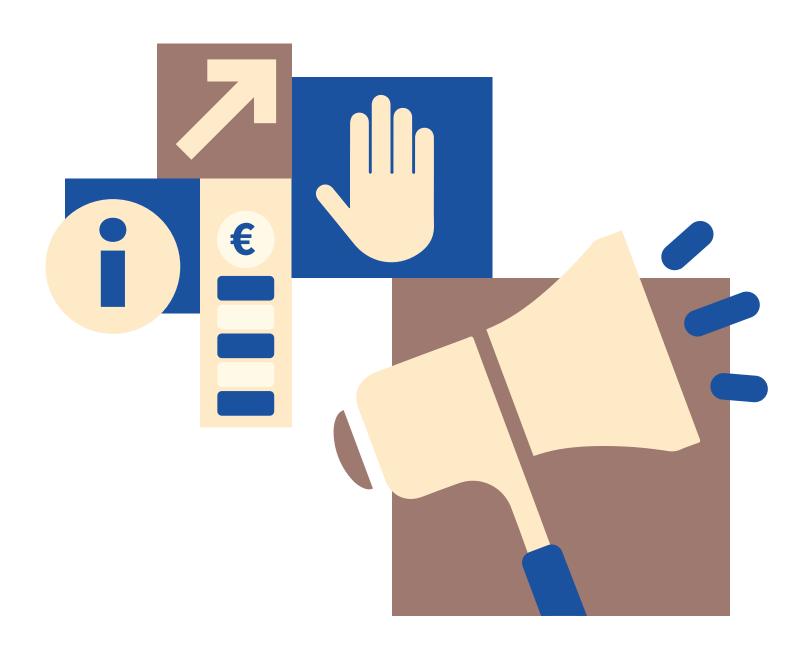


PROTECTING COMPETITION

CONAl protects fair competition among manufacturers and users of packaging, and is committed to making the system ever more accessible to businesses and vice versa.

- Specific measures to combat tax evasion and avoidance in the different industrial, manufacturing and distribution sectors
 - Information and awareness campaigns

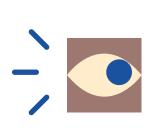




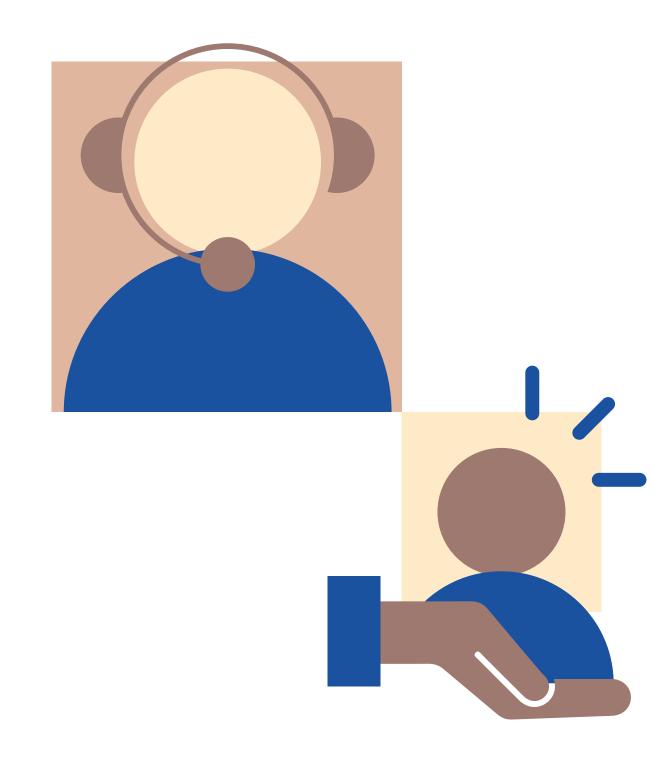


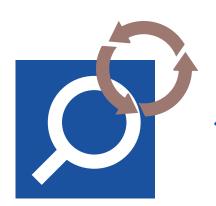
SUPPORT FOR CONSORTIUM MEMBERS

- Free consultancy programme on managing packaging flows and declarations and exemptions from the contribution.
- **Facilitations:** "black annealed wire", wood pallets returned to the market and small packaging.



In 2022: additional facilitations, simplifications and exemptions for regular exporters, self-producers and businesses that manage minimal packaging flows.





STUDIES AND RESEARCH

For developing and promoting the circular economy as a strategic lever for the various actors in the supply chain.



BUSINESSES

Promoting awareness of GPP among businesses, to boost participation in public tenders.



CITIES

Develop interventions to improve waste management at the local level.



CONSUMERS

Encourage increasingly positive behaviour through labelling.

UNIVERSITY TRAINING PROJECTS

Aiming to develop skills in waste packaging recycling.



TRAINING PROJECT FOR GREEN JOBS

- Training courses for developing technical and regulatory skills within the circular economy.
- Participation of the Campania Region - partnership with the Promos Ricerche consortium.
- Centre/South: the main area involved.



MASTER'S DEGREE IN WASTE MANAGEMENT AND THE CIRCULAR ECONOMY

University of Basilicata



PARTNERSHIP WITH ENEA

Degree awards and internships at ENEA research centres.

UNIVERSITY TRAINING PROJECTS



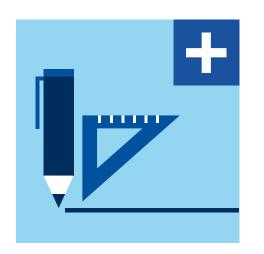
CIRCULAR SOUTH - In partnership with Dock3

Bolstering project planning and entrepreneurship in the circular economy among university students and recent graduates from universities in Southern Italy.



UNIVERSITY OF TUSCIA

Academic initiatives focusing on eco-design and recycling, recognition for degree theses and co-funding for research.



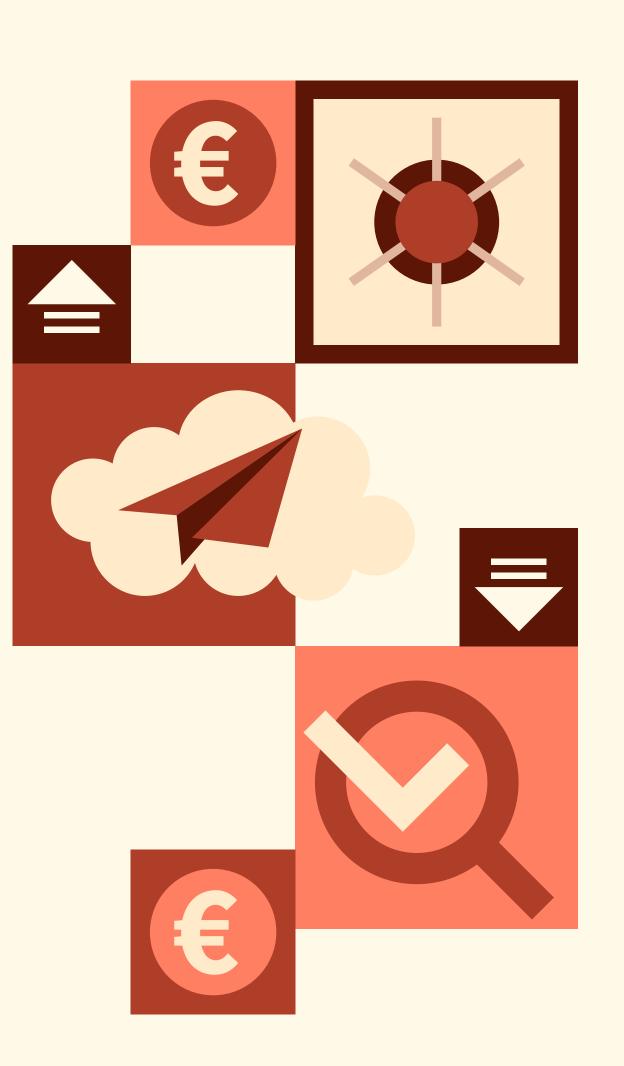
MATERIALS MATTER WORKSHOP - School of Design of the Polytechnic University of Milan

Creating projects and design objects that represent sustainability and circular economy concepts.

CONAI ENVIRONMENTAL CONTRIBUTION (CAC)

Improved monitoring of changes to the value of the reference CAC, with the aim to **react** more promptly to alter the contribution amounts based on evolutions in the background context, in order to ensure that Material Consortia have the required resources to pay the fees relating to the ANCI-CONAI Framework agreement, and to cover additional costs for treating and managing the recycling and recovery of packaging waste.

In 2021 changes were made to the CAC unit values for certain materials. At this time of high volatility in the prices of secondary raw materials, **periodic checks are planned** (approximately on a quarterly basis) to ensure the CAC values are appropriate to the relevant management costs.



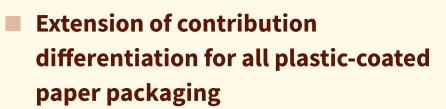
CAC: EVOLUTION OF CONTRIBUTION DIFFERENTIATION

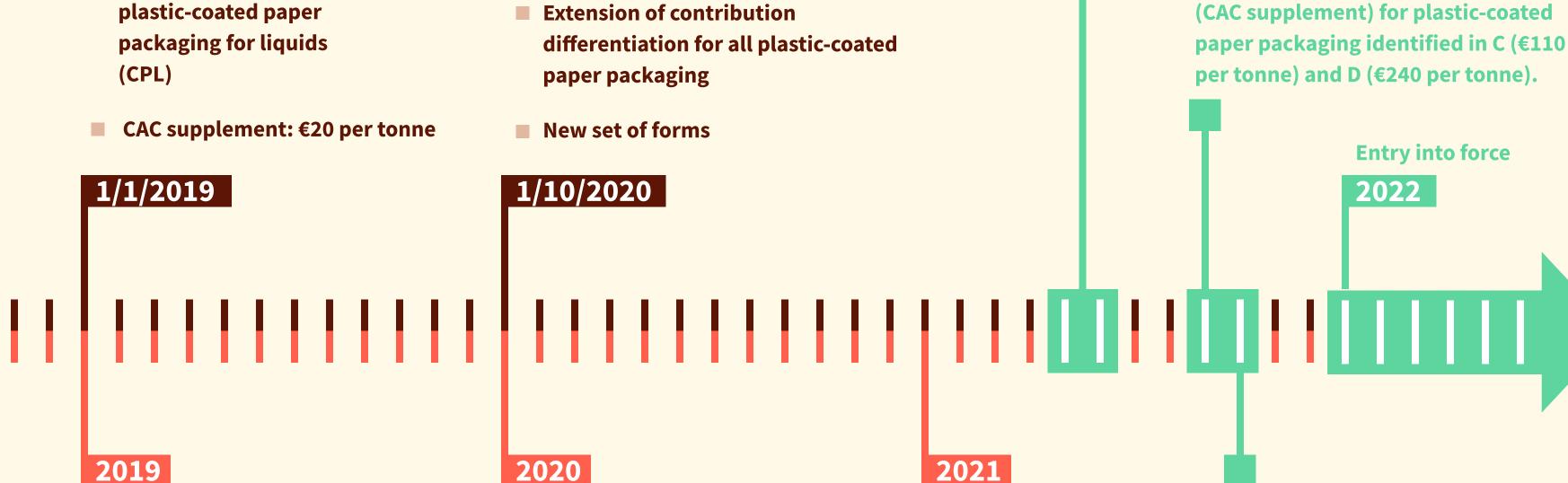


Start of contribution differentiation for plastic-coated paper packaging for liquids (CPL)

1/1/2019

■ CAC supplement: €20 per tonne







2018

Start of contribution differentiation in 3 bands

- A €179 per tonne
- **■** B €208 per tonne
- C €228 per tonne

based on sorting, recycling and the predominant destination channel

2019

Distinction between packaging solutions which are sorted and recycled and those which are currently not: band B divided into B1 and B2

Aggregation criteria met by flow or type, and start of experimentation with recycling in the context of differentiation

Updated contribution amounts:

- **■** Band A: €150 per tonne
- **■** Band B1: €208 per tonne

Consultation

MAY - JUNE

- Band B2: €560 per tonne
- **■** Band C: €660 per tonne

Resolution on plastic differentiation:

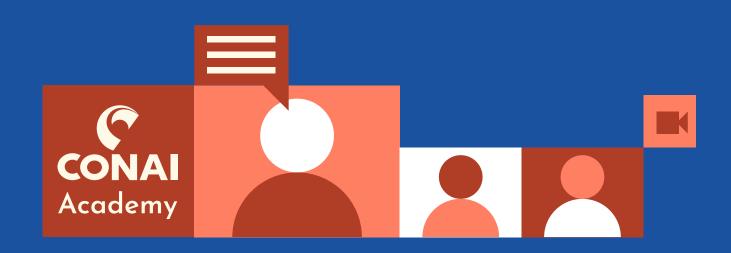
■ Band A1: €140 per tonne

Resolution on different CAC amounts

- **■** Band A2: €150 per tonne
 - (€160 per tonne from 1/07/2022)
- **■** Band B1: €149 per tonne
- **■** Band B2: €520 per tonne
- **■** Band C: €642 per tonne

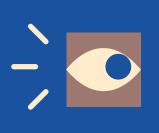
★ NEW

COMMUNICATION



CONAI Academy

Online platform for providing information and updates



Single-Sign-On: one login for all CONAI platforms and websites (in progress)

- Webinar for businesses
- Creating a community with stakeholders



Media partnership

to promote topics that matter to businesses

- Corriere della Sera
- La Repubblica
- Il Sole 24 Ore

Attendance at fairs, events and exhibitions

- Meeting di Rimini
- Ecomondo

Awareness-raising and education in schools with dedicated projects

COMMUNICATION / MEDIA RELATIONS

PRESS OFFICE

Disseminating data and results, and consolidating CONAI's image as an interlocutor for packaging recycling/recovery, waste management at the national level, and environmental sustainability.

SOCIAL MEDIA

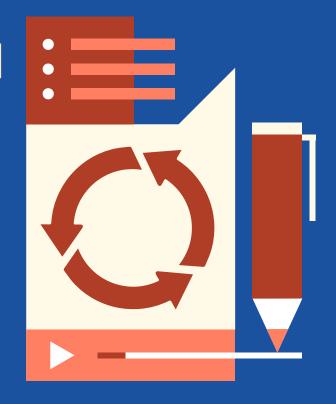
VOGUE TALENTS

The Upcycling Challenge: in partnership with Vogue to support creatives in sustainable fashion.



CONTEST FOR YOUNG ENVIRONMENTAL JOURNALISM

Awards for articles or radio/TV services focusing on the circular economy and recycling, for journalists under 40.



COMMUNICATION / CONAI 25 Recognising 25 years of action



"25" BOOK

To retrace the history and actions of CONAI and Italy's progressive move towards sustainability and the circular economy.

A SCIENTIFIC MANUAL

Explaining through sustainability and circularity how CONAI has been – and will continue to be – a key player in the country's future.

WEBSITE CUSTOMISATION

Graphics, special in-depth features and historical archive.

DOCUMENTARY

with CONAI catalogue/archive footage and interviews recorded for the occasion.

25th anniversary logo and iconic **award** in partnership with PoliDesign in Milan.



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www.conai.org

