

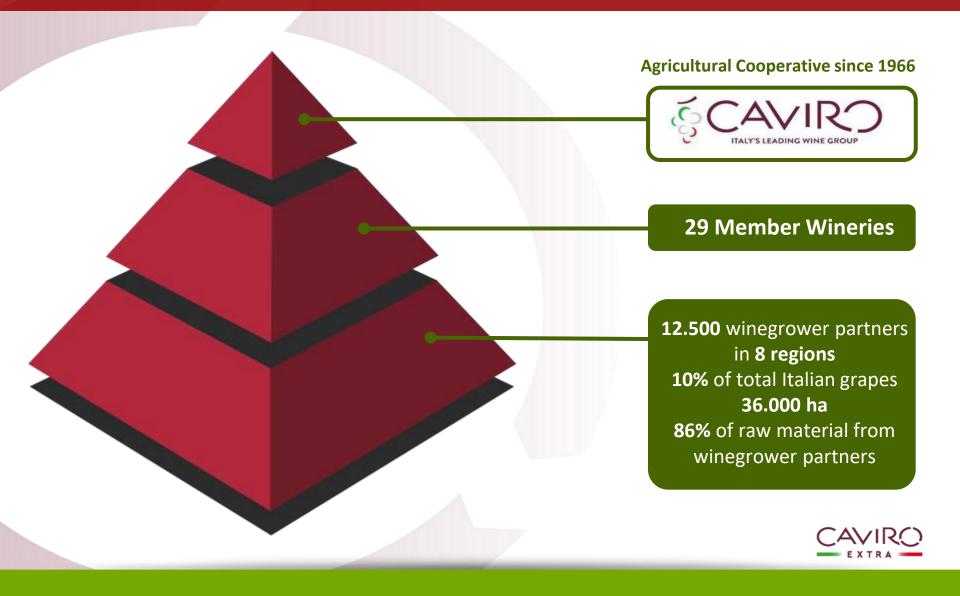
#### **Caviro Extra:** Supply chain, Sustainability, Circular Economy and Innovation

www.caviroextra.it

# The Group and the Supply Chain



#### The largest Italian wine production chain









## BOTTEBUONA

## BRUMALE







ODENESI CANTINA DAL 1968



Ceonardo de Vincj

CANTINE LEONARDO DA VINC





VINI D'ITALIA

## **Caviro Group**



#### **Caviro Extra: Mission & Vision**

## NATURAL INGREDIENTS, RENEWABLE ENERGY, SUSTAINABLE INNOVATION

Caviro Extra leads innovation in the research and development of quality ingredients and high added value products deriving from the enhancement of waste products from the Italian agri-food industry.



#### **Caviro Extra - Business Units**

# EXTRA Alcoli

ethyl alcohol of agricultural origin

# EXTRA Mosti ed Estratti &

MCT e MCR, grape juices, pips, oenocyanin

# EXTRA Tartarica

natural tartaric acid

# EXTRA Eco-Energia

purification, biomethane, natural fertilizers

# EXTRA Alcoli

ethyl alcohol of agricultural origin

The quality of **Caviro Extra alcohol**, which is **100% bio-based**, derives from its vinous origin, linked to **Gruppo Caviro's wine-making industry** 

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FOOD

#### Neutral Alcohol (min 96°) alcoholic beverages,

flavourings, essences, baking

PHARMACEUTICAL

#### **Ethyl Alchool**

Excipient, denaturant, solvent and etherifier.



COSMETICS

#### **Ethyl Alchool** Perfumes, hair lacquer, mouth washes, and

generic cosmetics.



**INDUSTRIAL CHEMISTRY** 

#### **Ethyl Alchool** solvent for grease, resins, esters, organic substances, varnishes for the preparation of inks



DOMESTIC USE

common usage in

Denatured

Alcohol

domestic

detergents.



ENERGY

#### Bioethanol

natural heating fuel for bio-stoves , fuel for the transport sector

# EXTRA Mosti ed Estratti &

MCT e MCR, grape juices, pips, oenocyanin

All the ingredients for a **high-quality industry** from **grape pressing** 



FOOD

#### Mosto Concentrato Rettificato and Oenocyanin (E163) yoghurt, ice cream, desserts, drinks, fruit juices, baking

products



**OENOLOGY VINEGARS** 

Mosto Concentrato Tradizionale Mosto Cotto production of high quality still and sparkling wines Balsamic vinegar Modena IGP



PARAPHARMACEUTICALS COSMETICS

#### **Polyphenols**

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From a selection of fresh **unfermented marc**, the seeds are extracted, so that they can then be used to extract **polyphenols**, **which are natural antioxidants**, used in many sectors as fundamental ingredients of innovative products.



## EXTRA Tartarica

natural tartaric acid

TARTARICA TREVISO Natural Tartaric Acid: from baby food to its use in the construction industry through caviro's direct production chain



FOOD

Acidifying substance and natural preservative, emulsifier in industrial baking products

#### PHARMACEUTICAL

Excipient and adjuvant of the active substances, used in syrups, capsules, effervescent powders...



#### CHEMICALS

It is used in cosmetics, for the production of cremes, powders, production of surfactants, electronic devices, and used in printing.



#### CONSTRUCTION

For the production of plaster and cements for renderings.



#### The excellences of Caviro Extra



## **Denatured Alcohol 99.9%** for pharmaceutical use



## **Biobased Natural Tartaric Acid** suitable for baby food production



#### The excellences of Caviro Extra



**Grape seeds for polyphenols** parapharmaceutical and nutraceutical use



**Oenocyanin** natural red food colouring



## EXTRA Eco-Energia

purification, biomethane, natural fertilizers



Renewable Energy and Advanced Biomethane for the transport industry



**AGRI-FOOD LIQUID** WASTE RECOVERY

Leader in Italy for the recovery of waste water from agri-food industry



**ENERGY FROM RENEWABLE SOURCES** 

Xo-generated power supply system producing 109.000.000 KWh Thermal: 114.000 MWh



**BIOGAS** 

**Produced Biogas** 

15.500.000 Nm3



**BIOMETHANE** 

**FERTILIZER** 

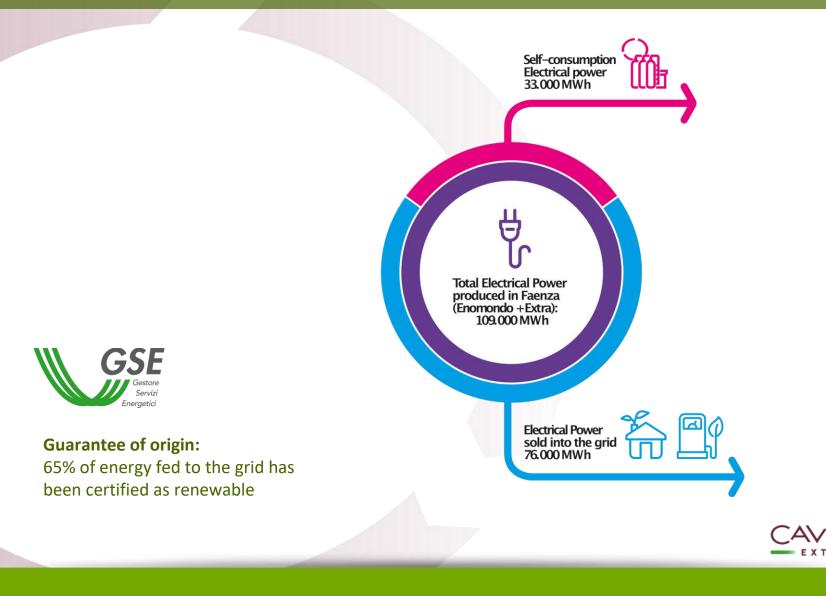
Production capacity 12.000.000 Nm3 corresponding to fuel for 18.000 vehicles per year \*

18.400 t Fertilizer production

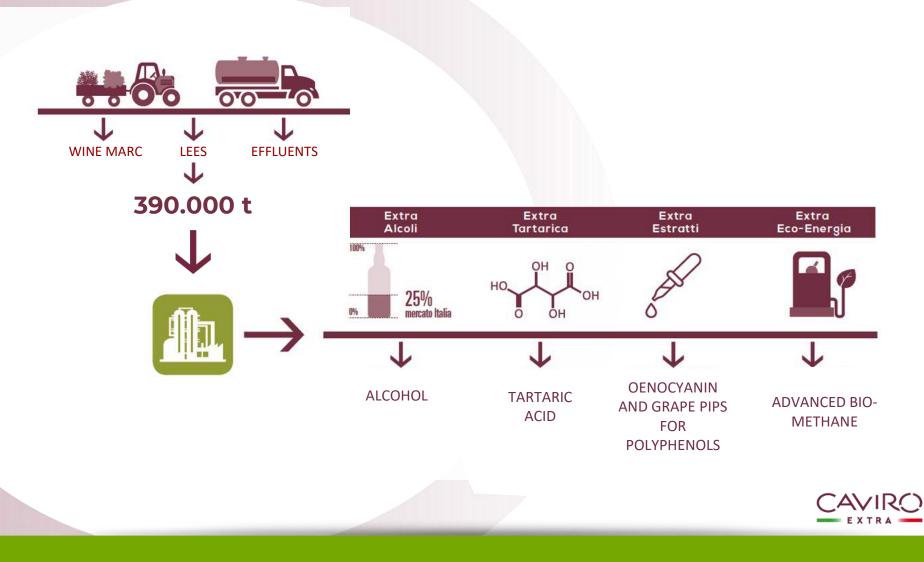
\*small car (1.400cc) consumption 1 mc = 17 km Source QUATTRORUOTE 11.200 km/year Source Facile.it



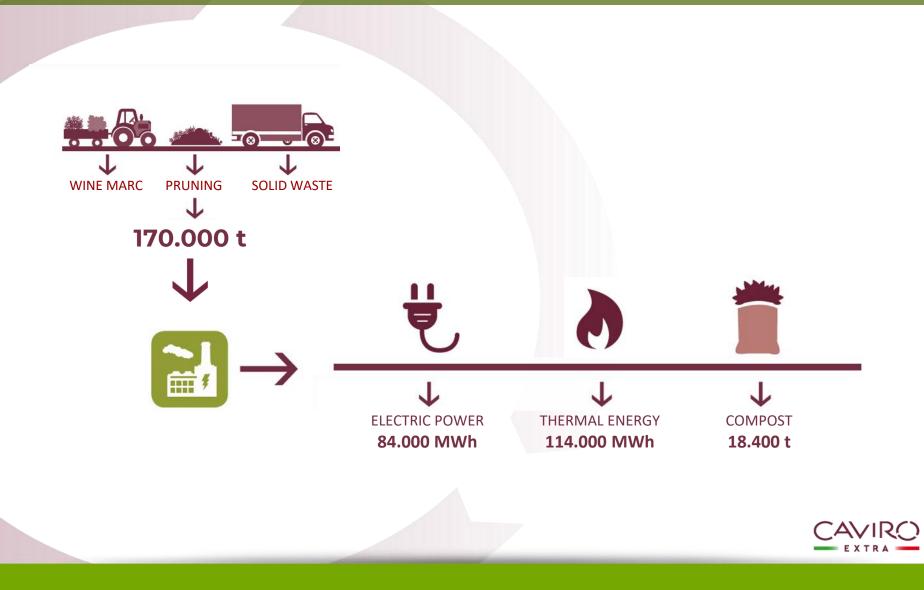
#### Value from waste: electric energy



#### **Caviro Extra in summary**



## Enomondo in summary



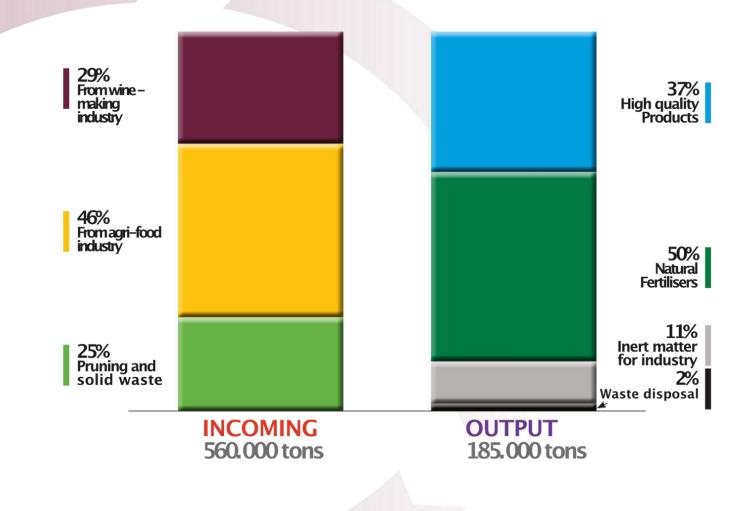








#### Caviro Extra and Enomondo 2018: generate value from waste



# Innovation



#### **Caviro Extra and continuous innovation**

Innovation is the specific instrument of entrepreneurship. The act that endows resources with a new capacity to create wealth.

PETER FERDINAND DRUCKER



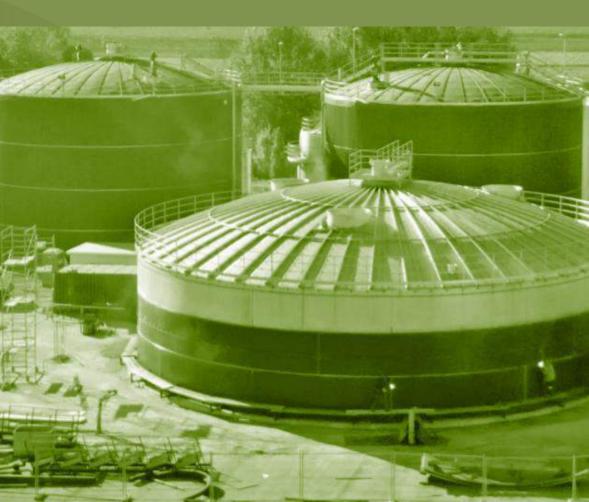
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#### **Advanced Bio-Methane and Bio fuels**



#### BIOMETHANE

Production capacity **12.000.000 Nm3** advanced biomethane, without fossil hydrocarbons





### **ACF / Sludge project**



### ACF / Sludge

The objective is the constant increase in the amount of organic substance returned to the soil in the form of compost and fertilizers



#### Water footprint reduction

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#### Water Footprint

Reduction of groundwater use thanks to cutting-edge technologies in water recovery from industrial cycle



# **Cooperation's strength**



## Scale Economy – big volumes of materials

## 100.000 t/y Marc 30.000 t/y lees



## Scale Economy – big and efficient plants





#### Scale Economy – know how

H





### Community





## Cooperation + Circular economy $\rightarrow$ Resiliency



# Nothing is destroyed everything is transformed



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