



ilsap

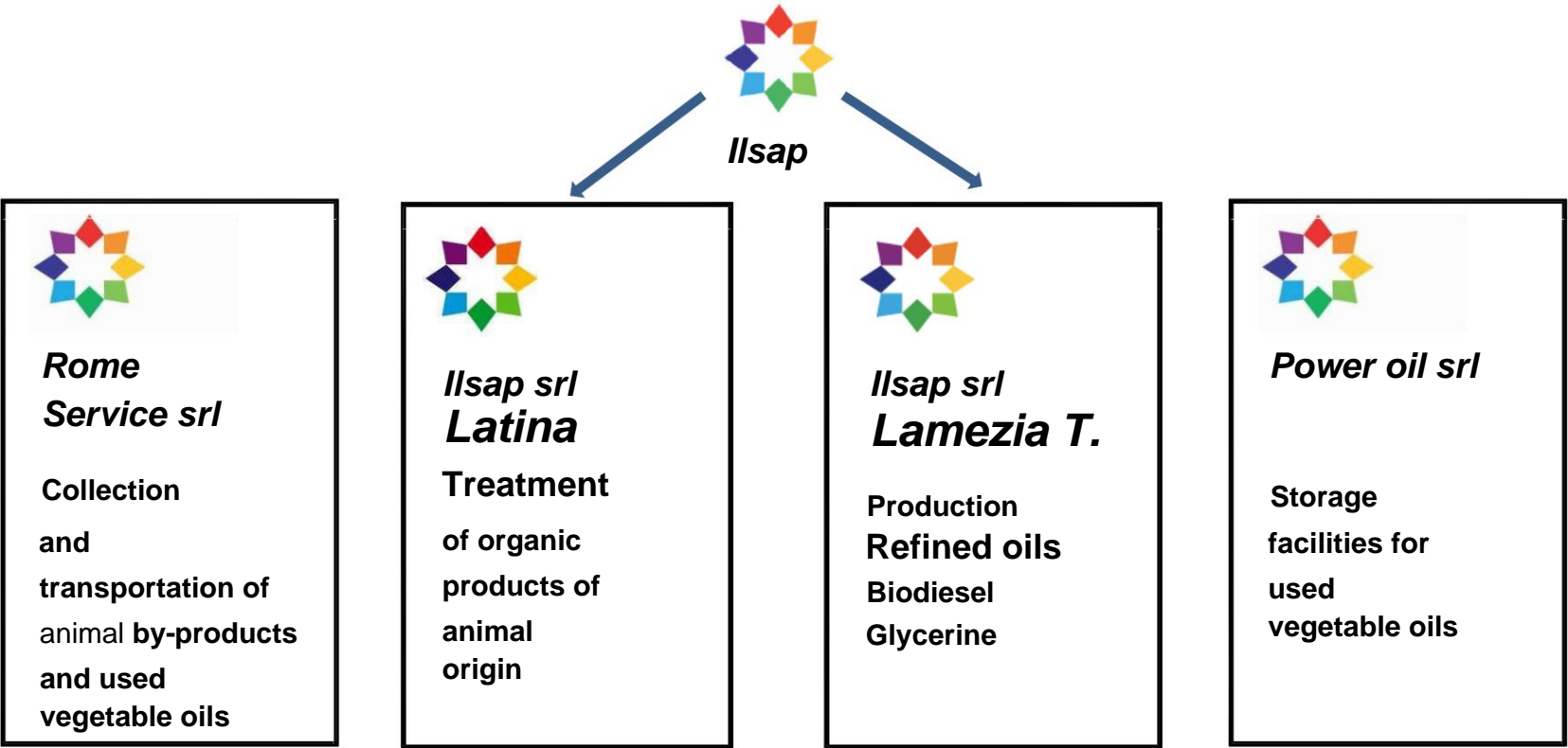
“ Il futuro appartiene a chi sa immaginarlo ”

Enrico Mattei



The Ilsap Group

A supply chain at the service of the environment,
which transforms products at the end of their resource use cycle . in new





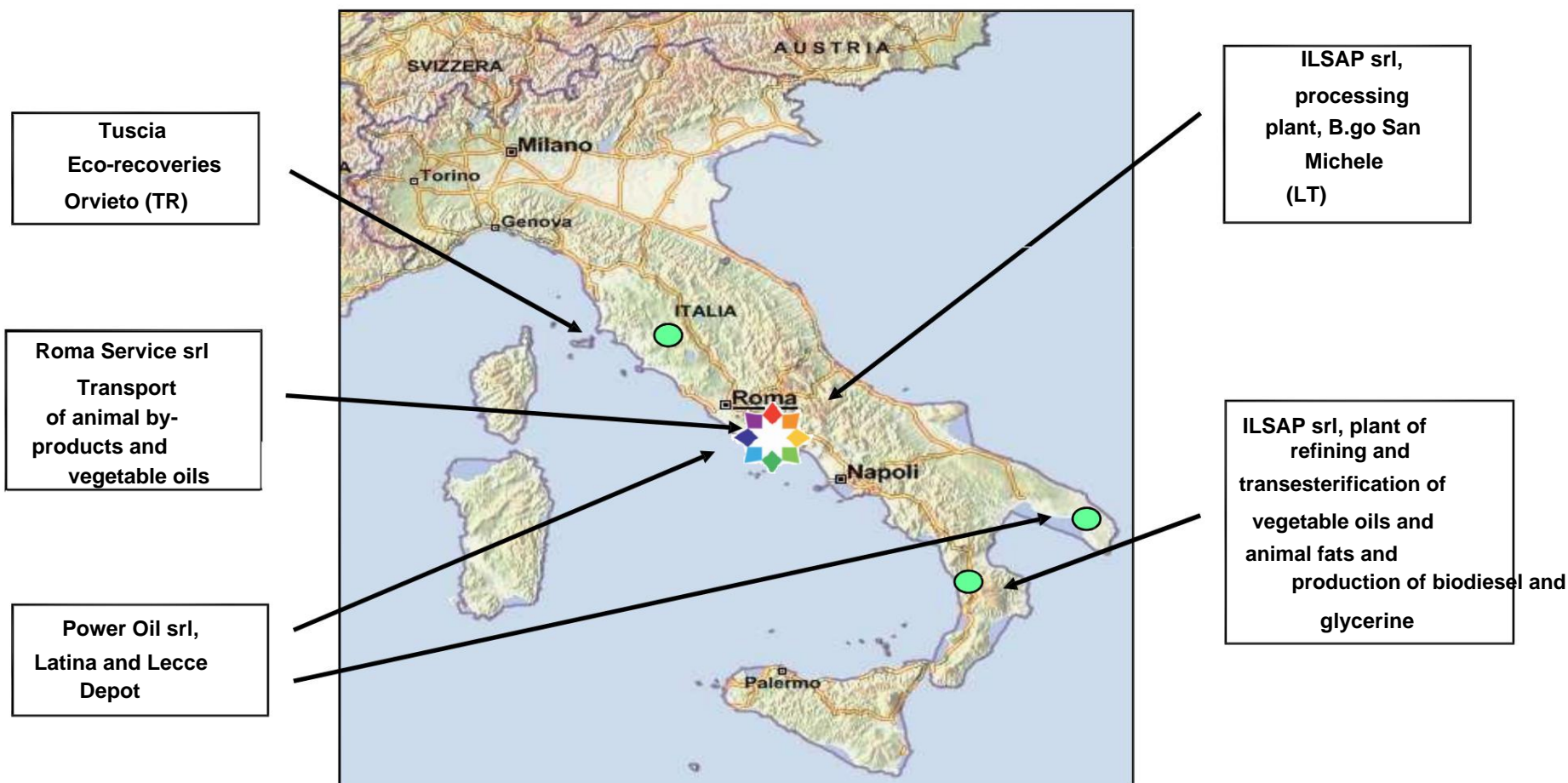
The Ilsap Group

**A supply chain at the service of the environment
which consists of:**

- Collection;**
- Transport;**
- Deposit;**
- Transformation;**
- Recovery and valorization of:**
 - Animal by-products: slaughter waste, carcasses
animals, kitchen and catering waste;**
 - Used vegetable oils: domestic and commercial users, municipalities.**



The IISAP Group is present throughout the territory national and operates in the field of treatment and waste recovery.





THE STAFF

The ILSAP group currently has 85 employees

divided into different sectors:

- **Production,**
- **Administration,**
- **Transportation.**

And distributed in the various locations:

- **Rome, •**
- Latina, •**
- Lamezia Terme, •**
- Latina and Lecce for Power Oil.**

It is also essential to take into account the number of people who cooperate with the Group: consultants, suppliers, transporters.

The company's ongoing research into new technologies and markets allows it to be considered expanding and at the forefront of the industry.



ILSAP Presentation

ILSAP Srl was founded in 1986 with its registered office in Rome (RM) at Via Muzio Scevola 60 and its administrative and operational headquarters in Borgo San Michele (LT) at Via Capograssa 996, and is currently the only CATEGORY 1 plant in the Lazio Region.

Authorized by the Ministry of Health in accordance with current regulations, it carries out the collection, transport and processing of animal by-products collected from slaughterhouses, cutting plants, warehouses, butcher shops and fishmongers. It also manages any epizootic diseases and sanitary seizures.

All the goods are processed and transformed at the B.go S. Michele plant, located on an area of approximately 56,000 m², into products, flours and fats, which, until 1999, were used in the livestock market.

In 2000, Italy was forced to address the BSE emergency. Therefore, ILSAP, while maintaining its operations, aligns itself with the provisions of EC Regulation 2777/00 and thus becomes, among the few in Italy, an authorized pre-treatment facility capable of receiving all specific high-risk and high-risk material. During that period, approximately 90,000 head of cattle over 24 months of age were destroyed.



The derived products, fats and flours, no longer being able to be used for livestock farming, had to find use in a new market.

Both flours and fats have found use in energy recovery.

It became necessary for ILSAP to expand its structure by creating a supply chain based on the use and recovery of the biomass produced.

Analyzing market needs, with particular attention to environmental issues, it was seen that animal fats, together with used vegetable oils, are considered renewable sources for the production of biofuel.



Roma Service srl

Group company specialized in the collection and transport of:

- Animal by-products •

Rendered animal fats

- Used vegetable oils •
- Biodiesel
- Glycerin
- PEI – Distillation residues



The company has a fleet of vehicles consisting of:

- 15 articulated trucks with tankers

- 30 Semi-trailers
- 70 roll-off containers
- 30 Refrigerated containers – For the storage of waste at the farms • 40 Vehicles for the micro-collection of oils and fats

The company operates throughout the country and guarantees 24/7 availability.

All vehicles are strictly compliant with current environmental regulations





Latina Plant - By-product Processing

Plant potential

- Transformation of 10 tons/h of by-products of origin animal, ability that allows within 24 hours of process 240 tons of raw material and produce 70 tons of solid fraction (animal meal) and 40 tons of liquid fraction (animal fat);
- Double production lines, to avoid plant sudden arrests downtime and always guarantee service;
- Internal chemical laboratory for the process control and for monitoring environmental parameters.





Latina Plant - By-product Processing

Plant potential

- Animal storage of the solid fraction (flour capacity) of 1000 tons;
- Animal storage capacity) of the fraction liquid (fat of 300 tons.





Latina Plant – Electricity Production

Plant potential

- **Plant powered by renewable energy (animal fat) capable of producing 0.992 MWh of electricity.**
- **Fully automated plant capable of transforming 2,000 tons/year of IIsap-produced animal fat into 8,000 MW/year of electrical energy.**





Power oil srl

**Company owning the storage depots for used vegetable oils
in Latina and Lecce**

The Company includes:

- **8,000 customers served on a scheduled basis according to the
more stringent environmental standards;**
- **Service carried out in collaboration and on behalf of various companies
Municipalized companies located throughout the country;**
- **Training and awareness programs implemented
in various educational institutions on environmental issues;**
- **Recognition according to the ISCC EU International Scheme for the
Sustainability of Bioliquids.**



**Lamezia Terme (CZ) plant
Biodiesel Production Listed
among the strategic installations Law 35/2012 art. 57
and 57 bis**

Biodiesel is a natural *product* that can be used as a motor fuel and as a heating fuel, with the characteristics indicated in the UNI 14214 standard.

- **It is renewable, as it can be obtained from the cultivation of widely distributed oilseed plants, but above all from the recovery of animal fats and exhausted vegetable oils (UCO).**
- **It is biodegradable, that is, if dispersed it dissolves quickly.**
- **It guarantees energy efficiency equal to that of fuels and mineral fuels and excellent reliability in the performance of vehicles and heating systems.**



Lamezia Terme (CZ) plant Biodiesel Production

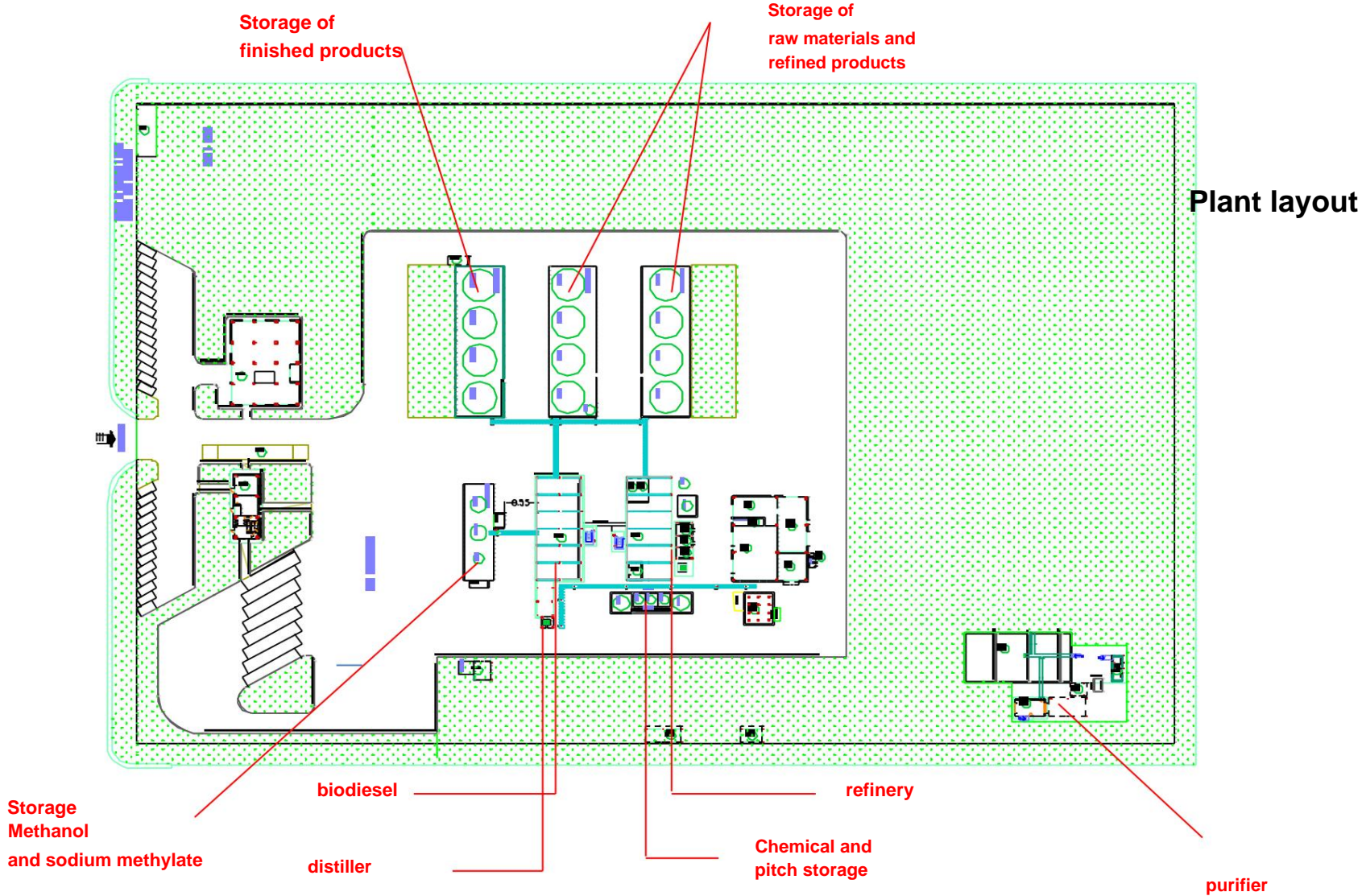
Biodiesel is a renewable energy source, particularly when produced from animal fats, which eliminate the need for animal feed, and when produced from used vegetable oils, collected in a widespread and differentiated manner from domestic and commercial users, which prevent them from being dispersed into the environment and causing environmental pollution.

This biodiesel produced from waste allows fertile land not to be taken away from agriculture, this peculiarity means that the biofuel produced by IIsap is included among the second-generation biodiesels that benefit from double counting.



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Lamezia Terme plant Biodiesel production





Lamezia Terme (CZ) plant

It combines a refining plant and a transesterification plant.

**Refine animal fats, waste oils, non-food vegetables, and
Transforms refined oils into glycerin and biodiesel.**

» a project based on

> Respect for the environment

> Flexibility,

> Versatility,

> Efficiency,

> Quality.





Ilsap is Respect for the Environment

**For the production of Refined Oils we favor the use of
Waste Oils, Animal Fats, Non- Food Vegetable Fats.**

**No precious resources are taken away from
human and animal nutrition**





Flexibility and versatility are the basis of the
Ilsap project

The Ilsap plant combines two plants
Autonomous and coordinated.



Refining



Transesterification

They can work in the supply chain or independently.



The IISAP refining plant

It refines used oils, animal fats, and non-food vegetable fats, transforming them into refined oils and biomass, destined for transesterification, the chemical industry, and the production of electricity from biomass.





The IIsap transesterification plant

Transforms refined oils into biodiesel and glycerin for to the chemical, pharmaceutical, and petrochemical industries. It can process refined oil produced by its sister plant or purchased on the market.





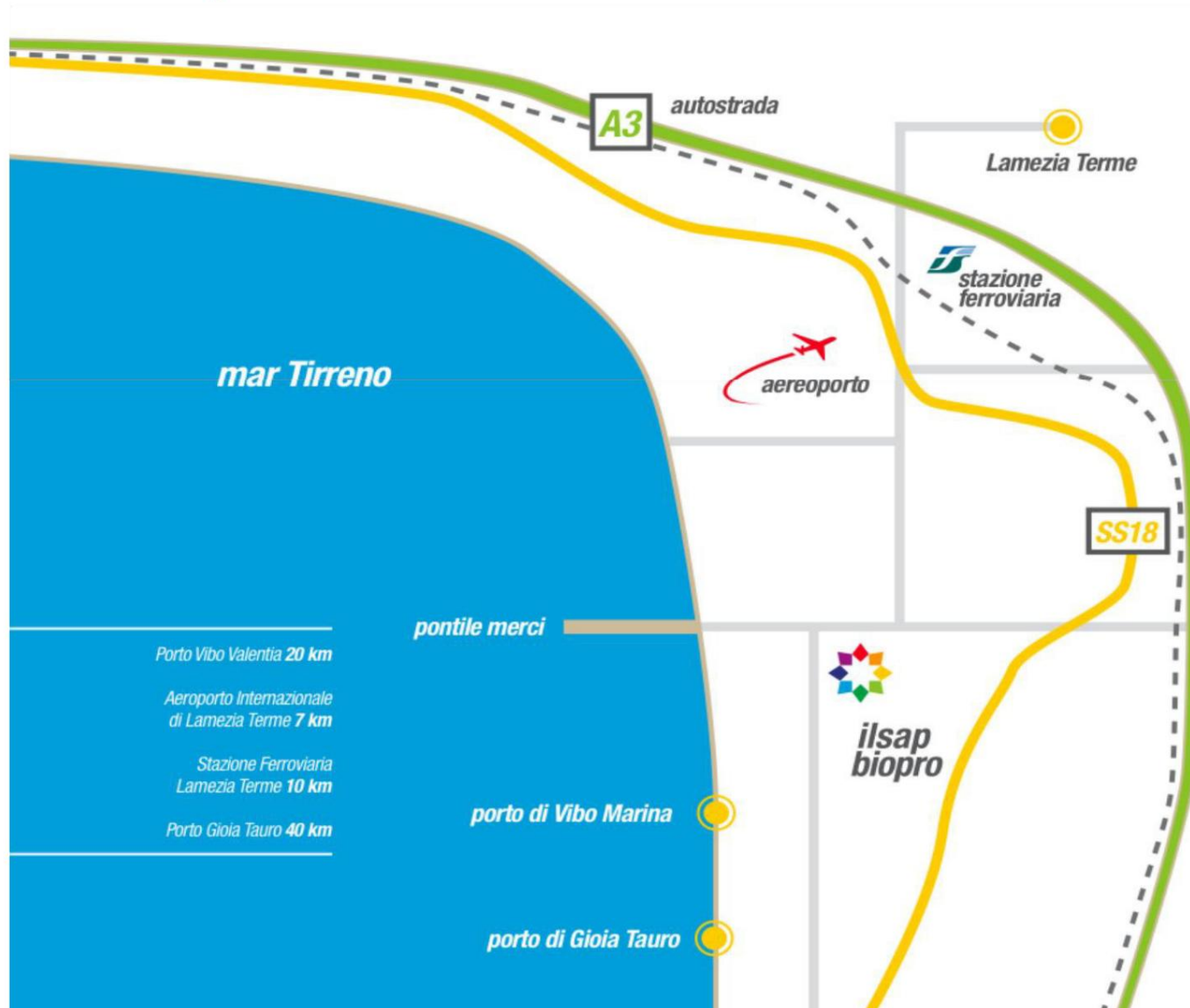
Ilsap: **Logistically Efficient**

The storage facilities have a capacity of 5,000 tons divided between raw materials and finished products.





Ilsap: Easy to reach



The system can be easily reached by sea, road and rail.



Ilsap: Quality

**Every day the following
are
produced: 200 tons of
refined
oils, 200 tons of
biodiesel, 20 tons of glycerin.**

**The plant is active
continuously, 7 days a week.**

**Biodiesel complies with
the EN 14214 standard.**



**The internal laboratory checks compliance
with standards and specifications and can
manage customized formulations.**



ilsap srl

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Ilsap srl

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