





**LIFE16-CCA IT 000011** 

# Commercial plan Spain: Jara (*Cistus ladanifer*)

**Appendix to the Action C7-3** 







DESERT ADAPT, LIFE16-CCA IT 000011

2022



## **LIFE Project Number**: LIFE16-CCA IT 000011 LIFE Project name: DESERT ADAPT

**Data Project** 

Project location:	Italy, Portugal and Spain	
Project start date:	01/09/2017	
Project end date:	01/09/2022 Extension date: : 01/09/2023	
Total budget:	€ 4.075.040	
EU contribution: € 2.439.761		
(%) of eligible costs:	60%	

### **Data Beneficiary**

" (IT)
(11)

### Report information

Name	Commercial plan: Jara ( <i>Cistus ladanifer</i> )	
Related action	C7-3	
Produced by	FSG	
Original delivery time	31-12-2022	
Actual delivery time	31-12-2022	
Version number	1	





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This commercial plan is one in a range of similar documents. List of commercial plans available:

Spain	Italy	Portugal
L5/L6*: <b>Aromatics</b> , <b>Jara</b> (all uses, including oil), <b>Honey</b> .	L1: Aromatics L2/11: <b>Honey</b> +	L8: Tourism. L9: <b>Carob tree</b> . (maybe
L7: Nuts ( <b>Pistachio</b> ), <b>Turism</b> (Bulls & cows)	beekeeping in general (selling/buying bee colonies & queens), Wild asperges, Pistachio  L4: Sumac (Rhus Coriaria), Prickly pear (all products like Fibre, (frozen) juice, fruits etc).	Organic sheep meat, first check on general market outlook before full study).  L10: Strawberry tree. Hunting (link with national hunting orgs, photo hunting options).

<sup>\*</sup> L numbers are the landowners in Life Desert-Adapt project that sell these products.





## 2 Type of product or service

Jara, or laudanum/rock rose (*Cistus ladanifer*) is a typical shrub growing in abundance in Southern Europe and is often seen as a weed. This dominant plant of the Mediterranean area is highly resistant to seasonal dryness and conditions of high solar exposition, and it is well adapted to poor and degraded soils. Moreover, it is considered a pyrophytic species and it colonises large areas as pure dense stands due to its ability to inhibit the growth of other plants by releasing allelochemicals compounds. This shrub secretes through the young leaves and stems a particular exudate, called labdanum, widely used by the perfume industry as a natural fixative. In fact, Spain is the main labdanum gum-producing country, which it is obtained from harvesting wild *C. ladanifer* plants. In addition to the labdanum gum, other odoriferous products also appreciated by the perfume and cosmetic industry can be obtained from this plant, such as EO and hydrolate (byproduct).

Traditionally there are many purposes.

- You can ground the leaves into a powder and use it with cereal flours in making cakes and breads.
- Stems can be eaten raw or used as a commercial food flavouring in baked goods, ice cream, chewing gum etc.
- Labdanum gum and its derivatives (labdanum oil, resinoid, concrete and absolute). This resin is rich in valuable compounds, and has been traditionally extracted in countries such as France, Spain and Portugal, to be used mainly in the perfume industry due to its excellent aromatic and fixative properties. In addition, some labdanum compounds constitute an important alternative to ambergris, which is a rather rare and highly valued product in perfumery obtained from a protected animal source (sperm whale). These *C. ladanifer* products have potential uses as antimicrobials, antioxidants, antitumorals, analgesics and neuroprotectants.
- The essential oil is obtained mainly by hydrodistillation or steam distillation of the young aerial
  parts (leaves and stems). Currently, the essential oil is mainly used by the perfume and
  cosmetic industry, but it could also be used to produce fungicides, bactericides or herbicides
  in biological control.
- Hydrolates are a by-product of the oil distillation process and corresponds to the aqueous
  fraction obtained after the separation of essential oil during the process. Hydrolates usually
  contain less than 1 g L-1 of water soluble aromatic compounds from essential oil. The
  hydrolates can provide advantages over Essential oils, such as higher production, lower cost
  and better applicability through spraying or irrigation methods to control pathogens or weeds
  in organic farming.
- Rockroses are producers of high quality monofloral bee pollen. Bee pollen is an important natural source of proteins, carbohydrates, vitamins and minerals, and therefore considered an excellent dietary supplement with biostimulant action.
- The specie is also connected to various mushrooms that will grow in combinations with Jara.
- In the past liquor was distilled from the specie as well.
- Tea can be made from the herbs/ leaves or simply sold as herbs.







## **3 Potential uses of the product or service, and prices.** The following are the most interesting uses of this specie.

#### International market

international market		
Type of use	Explain what it means	
Essential oil	Essential oil for a wide variety of purposes and very valuable.  Steam distillation of the young twigs produces the traditional quality essential oil of Spanish cistus. The distillation yield is very low, only around 0,1% of the fresh plant. There can be around 40 m3 of cistus per ha, or maybe 13 ton wet, or 2t dry/ha useable. 13 000 kg wet * 0,1% dry material is thus 13 litre/ha. For the moment we assume that around 5000 kg/ha wet can be harvested in the wild. We do not aim for a plantation. That is thus 5 000 kg = 5 liter/ha. UNEX/ADPM information: 3.793 EUR/litre consumer price. Producer price (40% of consumer price, standard factor). Producer prices of 600 €/Litre in 2021 and 800 €/Litre in 2022 are mentioned in the market (data provided by Biolandes and Jarpil).  Between 1-10 t of essential jara oil are produced worldwide.	





Jara herbs.	Dried leaves as herbs, or for tea.
	Jara certified organic herbs 1Kg a 57 Euro/kg consumers price. Maybe 23 Euro/kg producer price (40% of consumer price, standard factor).
Labdanum gum.	Industrially and traditionally, this resin is usually extracted from young plant material (leaves and stems) with alkaline water followed by acid neutralization. In turn, the Labdanum oil is obtained by distillation of the gum and the resinoid by alcoholic extraction. The yield of ladano gum is about 13% of the total dry weight of the plant (average resin extraction of 370 Kg/Ha) and the annual production of this product is estimated between 200 and 600 t/year (Biolandes). 360-450 €/Kg of gum consumer price (Magic herbs).

Local national or regional market

Local, national or regional market		
Type of use	Explain what it means	
Bee pollen	Bee pollen as a commercial product employed in food (for direct consumption with juices, milk or yogurts), cosmetics and therapeutics (apitherapy).  For their harvesting, the so-called pollen traps are used, which are placed at the entrance of the beehive. The pollen is removed from the beehives daily and dehydrated by drying afterwards. Rockrose pollen is collected in Extremadura during a period of 15-20 days in spring and an average production of 4-5 kg of pollen per beehive and year can be obtained. Such products are about 20 Euro/Kg. Maybe 8 Euro/Kg producer price (40% of consumer price, standard factor).	
Mushrooms	Mushrooms for consumption.  Mushrooms in KG. 11 Euro/kg. 10 kg/ha 110 Euro/ha. Harvest in year 9. Mushrooms have a low prices and with extensive farming production is low.	
Hydrolates	Hydrolats can be used in the food industry for flavoring, aromatherapy and cosmetics, as well as in organic agriculture. Hydrolates are a by-product of the oil distillation process and corresponds to the aqueous fraction obtained after the separation of essential oil during the process. Such products are about 36 Euro/litres. Maybe 14,4 Euro/litre producer price (40% of consumer price, standard factor).	

#### Used literature:

- Life Desert-Adapt species database.

  Estimation of above-ground biomass in shrubland ecosystems of southern Spain (Jara biomass/ha)
- Nabia Cistus Ladanifer (one of the biggest producers of Cistus products). ResearchGate, about Cistus management and mushrooms.
- Aromaweb (with info about 130 essential oils). Pfaf database of species.





## 4 Target customers, markets and competitors

International market

Market types			
Name of solution, product or service	Best target customers for each product: Explain your preferred target groups; consumers, retailers (shops), distributors, other landowners, wholesales, catering industry	Best target market for each product: Local, regional, national, international	Include basic information about the competitors. How big are they? Where are they located?
Essential oil	Production companies that use Jara essential oils for medicinally, soaps, perfumery or fumigation purpose. Consumers, & retailers, through online sales platforms, ready made products.		Not many. The use of Jara for this purpose is just starting. Hardly any real plantations in place.
Jara herbs.	Consumers, & retailers, through online sales platforms.	International (because product is not yet well known best to aim a bit bigger).	Small companies from Southern EU are stepping in this market right now.

Market types	Market types				
Name of solution, product or service	Best target customers for each product: Explain your preferred target groups; consumers, retailers (shops), distributors, other landowners, wholesales, catering industry	Best target market for each product: Local, regional, national, international	Include basic information about the competitors. How big are they? Where are they located?		
Bee pollen	Consumers, & retailers, direct sales in stores or through online platforms.	•	A significant number of small/medium-sized companies located mainly in western and southern Spain.		





Mushrooms	Consumers, & retailers, direct sales mainly to restaurants.	Regional o local Short-lived product with relatively low prices	Not many and quite localized in specific areas.
Hydrolate	Large companies that use rockrose hydrolate to develop high value-added products such as medicines, soaps, perfumes, bioherbicides or biofungicides.  Consumers and retailers, direct sales in stores or through online platforms of readymade products.	National By-product with low price and need of large volumes (therefore high export costs).	A few producers located in southern spain.

#### Used literature:

- Experience Essential Oils (about various oils available)
  Pharmaplant. Retailer & producer.
- El Jarpil (Various Cistus products).
- Biolandes (various Cistus products)
  Marketnews USDA (mushrooms)
- Nursery Viveros Fuenteamarga (partner in Life Desert-Adapt project).





## **5** Market forecast

#### International market

Market fore	cast		
Name of solution, product or service	market conditions.	Demand. What do you expect? What information is it based on?	Price development. What do you expect? What information is it based on? Provide numbers on current sales prices (for landowners in the chain).
Essential oil	This is a currently small, but steady growing emerging market. Trade figures are not available. There are maybe up to 20 small/medium companies offering Cistus products.	We expect a continue growing market for the years to come. 2 reasons: 1) landowners in Southern Europe will push because they have so many, not used, Cistus. 2) And because customers start to realize this product can be used for many purposes.	Current prices are high, and will remain high. There is not that many production and it remains a lot of work to produce 1 litre of oil. Maybe in the future, after potential mechanisation and investment the price can be lower (5-10 years from now).
Jara herbs.	This is a currently small, but slowly growing emerging market. Trade figures are not available. There are maybe up to 20 small/medium companies offering Cistus products.	The demand will not grow much. There are many herbs on the market thus clear competition.	Prices will remain the same as they will be compared with other herbs. This is a niche market and have to be sold like this (unique product with a good story). In this the story is more important as the product.

Local, national of regional market				
Market forecast				
Name of solution, product or service	Describe the current market conditions. For example the forecasted growth or for example a regulation with direct influence on the market. Small/medium/big markets.	Demand. What do you expect? What information is it based on?	Price development. What do you expect? What information is it based on? Provide numbers on current sales prices (for landowners in the chain).	
Bee pollen  This is currently a medium-sized and wellestablished market, but has seen a 50% drop in production in recent years		We expect demand to increase, there is a growing interest in the consumption of sustainable natural		





	due to changing climatic conditions. In Spain, the total annual pollen production is approximately 1,117 tons. Furthermore, Extremadura is the region with the highest production of pollen in the world (about 400 Kg), mainly concentrated in Las Hurdes (North of Caceres).	pollen.	
Mushrooms	This is a currently small, but slowly growing emerging market. Trade figures are not available because collection and sale is not professionalized.	low and will likely	Mushrooms have a low prices and with extensive farming production is low.
Hydrolate	This is a currently small, but steady growing emerging market. Trade figures are not available. There are maybe up to 20 small/medium companies offering Cistus products.	We expect strong market development in the next few years due to their condition of an underutilized byproduct which can be used for many novel purposes.	Current prices are low compared to essential oil, but are expected to rise considerably as demand for the product increases.

#### Used literature:

#### Essential oil in the market:

https://www.aromaweb.com/essential-oils/cistus-oil.asp

https://uk.puressentiel.com/blogs/herbarium/cistus-ladaniferous

https://www.edenbotanicals.com/cistus-traditional.html

https://cistus-ladanifer.com/cistus-oil/

https://www.planttherapy.com/cistus-essential-oil

https://www.youngliving.com/en\_EU/products/cistus

https://www.decleor.co.uk/blog-articles/cistus-essential-oil/cistus.html

https://oshadhi.co.uk/cistus-rock-rose-essential-oil/

Farmaline Bio Cistus.

#### Cistus (or Rockrose) Herbs in the market.

Amazon, collection of Cistus products incl tea and herbs!

https://cistus-ladanifer.com/info/cistus-herbs/

https://www.etsy.com/be/market/cistus\_tea

https://tofillo.com/herbs/cistus-tea-benefits/





## 6 Your opportunities & threats, and how to sell it.

International market

Your potential advan	Your potential advantages and threats by selling this				
Name of solution,	Explain opportunities by	Advise what the	What are the current		
product or service	targeting this product or	best ways are to	threats to the market?		
	service.	sell this product			
		<b>or service</b> (the			
		marketing mix).			
		Think about added-			
		values, packaging,			
		web-shops or not			
E		etc			
Essential oil	Good prices and	Direct linking to	Mechanisation.		
	emerging market. Good time to enter it.	producers of	Production is still expensive. When		
	time to enter it.	medicinally, soaps, perfumery or	expensive. When market grows some		
		fumigation purpose.	people will invest in		
		ramigation purpose.	machinery to harvest in		
		Directly to	a more efficient way.		
		consumers or	This will lower		
		retailers	production costs and		
		throughout online	create tough		
		sales platforms.	competition.		
Jara herbs.	Nice herb of which there	Directly to	Direct competition		
	is <b>unlimited and cheap</b>	consumers or	with other herbs. This		
	growing stock!	retailers	is a niche market and		
	Because it is still seen as	throughout online	have to be sold like this		
	a weed. Still <b>somewhat</b>	sales platforms. No	(unique product with a		
	unknown, thus this is	need to sell to	good story). In this the		
	the time to enter.	intermediate chain	story is more important		
		segments.	as the product.		

Local, flational of regional market					
Your potential advantages and threats by selling this					
Name of solution,	Explain opportunities by	Advise what the	What are the current		
product or service	targeting this product or		threats to the market?		
	service.	sell this product			
		<b>or service</b> (the			
		marketing mix).			
		Think about added-			
		values, packaging,			
		web-shops or not			
		etc			
Bee pollen	Natural product of high	Directly to	Agricultural		
	quality (Rich in proteins,	consumers or	intensification and		
	carbohydrates, vitamins	retailers	climate change.		
	and minerals) and	throughout online			
	relatively low cost.	sales platforms o			





		direct sales in stores.	
Mushrooms	Natural resource with a relatively low cost.	Directly to consumers or retailers throughout online sales platforms. No need to sell to intermediate chain segments.	Seasonal and highly variable market, there are wide variations in supply each year. The market needs regulation, overexploitation of the resource can cause extinction of the resource.
Hydrolate	Large volumes, low	Directly to	Mechanisation.
	cost and easy applicability. In addition, emerging market as an alternative to the use of synthetic chemicals.	producers of medicines, soaps, perfumes, bioherbicides or biofungicides.  Directly to consumers or retailers throughout online sales platforms.	expensive. When market grows some people will invest in machinery to harvest in a more efficient way. This will lower production costs and create tough

Used literature:
<a href="https://doi.org/10.2007/j.com/">Amazon, collection of Cistus products</a> incl tea and herbs!





## 7 Potential customers.

List the potential customers for each products. List at least 5 potential customers for each product or service.

International market

International market					
Customers					
Name	of	Name and location	website	Why?	
solution,				,	
product	or				
service					
Essential o	ils (e	ither to producers, or o	nline sales platforms d	irectly, see also below with herbs)	
a)		Decléor	https://www.decleor.co.uk	Perfumery	
b)		Farmaline	https://www.farmaline.be	Medical use	
c)		Puressentiel	https://uk.puressentiel.com	Company in line with 'Nature'	
				values and a good story.	
d)		Eden botanicals	https://www.edenbotanicals.com	Serious trader with much	
				experience.	
e)		Osmanthos	https://osmanthos.com/perfume- ingredients	<sup>e-</sup> Buys ingredients for making	
				your own parfume.	
Jara herbs.	. (as	ssuming direct sales pla		product and check yourself)	
a)		Amazon	https://www.amazon.com	Online sales platform	
b)		Etsy	https://www.etsy.com	Online sales platform	
c)		Tofillo	https://tofillo.com/herbs/cistus- tea-benefits/	Herbs and tea trader.	
d)		Ebay	https://www.ebay.com	Search the specie and see what	
				is online now.	
e)	•	Eko Plaza (in Dutch)	https://www.ekoplaza.nl/	Specially for bio and similar	
				products, direct selling.	

Customers	Customers			
Name of solution, product or service	Name and location	website	Why?	
Bee poller	n:			
a)	Naturitas	https://www.naturitas.es/	Online sales platform with large supply of natural products.	
b)	Etsy	https://www.etsy.com	Online sales platform	
c)	Tienda Extremadura	https://tiendaextremadura.es/	Online sales platform specialized in the trade of products from Extremadura.	
d)	Ventademiel	https://ventademiel.es/	Online sales platform specialized in bee products trading	
e)	Amazon	https://www.amazon.com	Online sales platform	
Mushrooms:				
a)	Sabor a Extremadura	https://www.saboraextremadura.es/tienda/	Online sales platform specialized in the	





			trade of products from Extremadura.
b)	Laumont	https://www.laumont.es/	wholesale market with
,			much experience.
c)	La casa de las setas	https://lacasadelassetas.com/es/	Online sales platform
			specialized in the
			trade of mushrooms.
d)	Antonio de Miguel	https://www.antoniodemiguel.es/	wholesale market with
			much experience and
			located in the north of
		For example https://versatilrural.com/	Extremadura.
e)	Local restaurants in	For example https://versatiirurai.com/	Direct sales to
	Extremadura		restaurants which
			include mushrooms in
<b></b>			their menus.
Hydrola		https://www.amazon.com	T
a)	Amazon		Online sales platform
b)	Bela Vizago	https://www.bidah-chaumel.com/es/	Wholesaler of Oils,
			Extracts and Natural
			Essences for the
			Cosmetic and Food
			Industry.
c)	Tu taller natural	https://www.tutallernatural.com/	Online sales platform
			specialized in cosmetic
			and aromatherapy.
d)	Jabonarium	https://www.jabonariumshop.com/	Online sales platform
			specialized in cosmetic
			products.
e)	Maese Pau	https://maesepau.es/	Online sales platform



