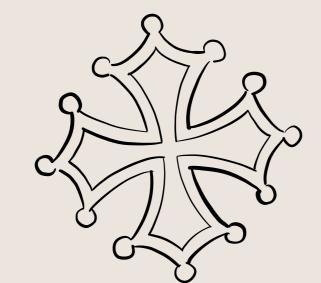
Comunità di Montagna Comunità Occitane



The natural beauty and unique qualities of each Po Valley community give the region its personality, drawing people wishing to escape the busy urban landscape. This diversity of cultures, resources, and knowledge has a great opportunity for sustainable innovation and growth. Cooperative project planning at a valley scale would allow for better exchange both within the Valley and throughout the region, fostering new business opportunities. By focusing on collective and sustainable business, energy systems, and transportation, the unique identities will continue to flourish while creating a greater feeling of independence valley-wide.

## Community

**Cooperatives lead to:** 



# Many voices, one valley

**New economic opportunities** Cheaper bulk goods and services

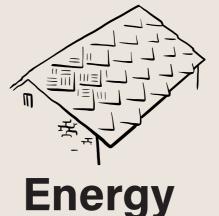
One strong voice





Sustainable development Climate protection

Monte Viso - 3841m



Local, sustainable energy production meets the villages energy demand. Increased self-sustainment leads to more resilience in future. The benfits lie not only in sustainability but also in finances.

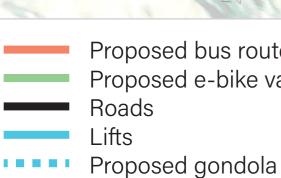
Crissolo		
Hours	kWh/m²	
5	70	
9	200	
4	50	
7	120	

Oncino Hours | kWh/m<sup>2</sup> 70 210

Ostana			
	Hours	kWh/m²	
	3.5	60	
	8	240	
	6	95	
	12	150	



Reduction in global CO<sub>2</sub> emissions can reduce hazardous weather events in future.



Proposed bus route Proposed e-bike valley loop

Refugio

Proposed 4G transceivers

**700** kg CO<sub>2</sub> eq. 460 € **122** kg CO<sub>2</sub> eq.

80€

00

Family house annual consumption: 2000 kWh **Installed solar panel:** 10 m<sup>2</sup> Pannel efficiency: 16 % **Earth warming potential of grid** energy: 350 g CO<sub>2</sub>eq/kWh **Energy price:** 0.23 €/kWh

**Consumed from grid** 10 m<sup>2</sup> solar panel



### **Mobility**

Buses reduce traffic and therefore road maintenance, pollution, noise & commute times. Lifts provide potential for only one, central bus service line and two stops. Tolls for tourist cars on summer weekends subsidises the expense of buses / lifts.



# **Business**

Circular economy for sustainable development at local and regional scale. Quantitative data on implemented pilot projects

**COBOLA** 

foster scalability.



#### **Bus Frequency Analysis**

Number of buses: 3 Bus model: Karsan Jest Electric Max. bus Capacity: 22 ppl/bus Average Frequency: 3,79 bus/hr Average headway: 15,83 min Root Capacity: 83,37 ppl/hr

#### E Bike loop

The E Bike loop aims to connect all towns in the region using as little road and hiking infrastructure as possible. This allows fast tourists access to all the unique activities and culture within each

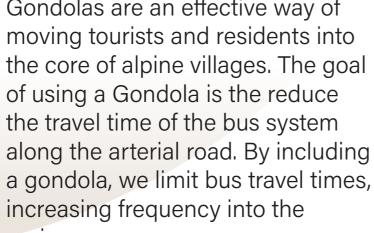
Length: 30 km

town.

#### Toll on tourist car traffic

**Toll period:** only summer weekends % leaving cars behind: 20% of total Toll on road for cars: €10/car **Estimated payback:** 15 years

#### Gondola



#### Wood and supply chain collaboration for high quality products

**Goal:** Create a local supply net with 100% Piedmont wood and reduced processing waste

Focus: Better integration of local primary producers in the wood supply chain through quality regimes, local markets, and short supply chains

Period: 2018-2020 (24 months) **EU contribution:** € 159.891,52

**Total costs:** € 199.864,40 **Starting plot:** 4 ha of forest

**Final product:** Few hundreds m<sup>2</sup> of parquet

Who is involved: 18 local enterprises: local entities, forestry companies, first and second wood processing enterprises, wood products dealers, private clients

#### Regenerative design, smart thinking

**Example:** Borgata Ambornetti

Goal: A smallest as possible environmental impact touristic area of 3400 m2 with hotel, restaurant, wellness center, touristic residences, co-working places, and farm.

Focus: Experimenting new technologies in collaboration with the Politecnico di Torino, recovery and valorization of historic and landscape heritage, local supply chain enhancement.

**Total costs:** Estimated € 5 000 000

Who is involved: Young Piedmont entrepreneurs, Politecnico di Torino, local artisans

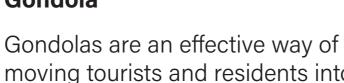
Other example:

MonViso Institute (Ostana, CN)



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region

Length: 930 m