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#### Potential for a Circular Autopoietic Economy on Canavese Territory

Agnolio, Nicole, Alcántara Valdés, José Pablo, Allo, Baptiste, Bugnone Suppo, Tommaso, Buonviaggio, Lorenzo, Cipriani, Federica, Ducournau, Sacha, Giesen, Sofia, Helou, Karl El, Heurteux, Jonas, huimin, Cao, Lévrier-Mussat, Camille, Lombardi, Aila, Lu, Hou, Magi, Elisa, Mahieu, Vera, Molina, Elisabetta, Molinari, Leonardo, Moncullo, Ettore, Montañes, Juan Carlos, Oliveri, Anna, Padula, Cecilia, Papeo, Mabel, Piccolo, Bruna, Popkov, David, Quaglia, Francesco, Ryillo, Gianluca, Rosso, Ilaria, Vega, Francisco, Vectirans, Gatis, Versavaud, Dorine, Viornery, Lucien, Yufan, Li and Zhenghong, Zhang

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# CANAVESE

THE POTENTIAL OF A CIRCULAR AUTOPOIETIC NETWORK ON TERRITORY Tobias Luthe, Elena Comino, Giuseppe Pedone, Pier Paolo Peruccio Chiara Battistoni, Maurizio Vrenna, Silvia Pasquettaz Giuliano Sansone, Laura Dominic

Lucien Viornery, Li Yufan, Zhang Zhenghong.

**Anfiteatro Morenico of Ivrea** 

Historical re-enactments

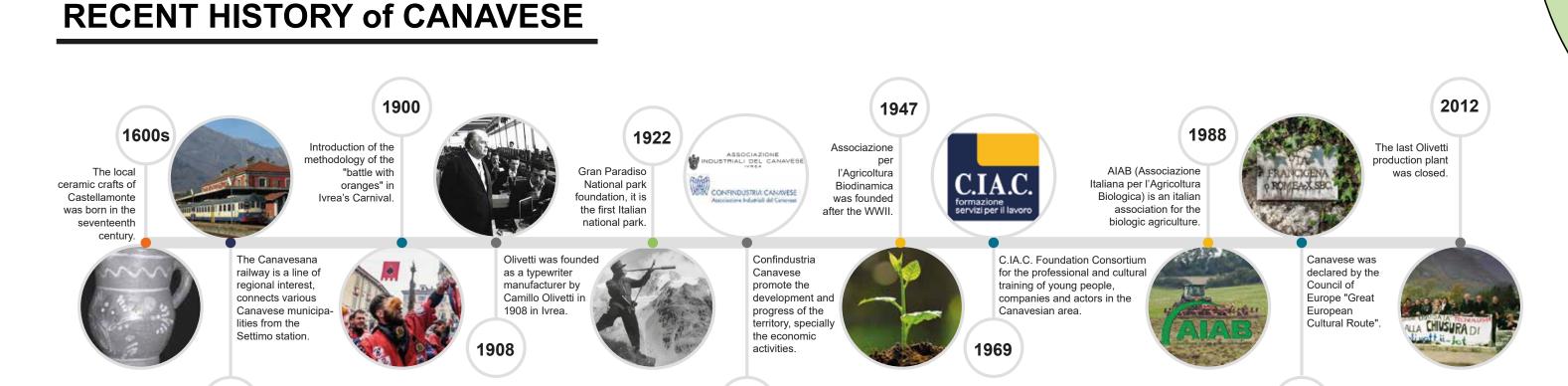
Nicole Agnolio, José Pablo Alcántara Valdés, Baptiste Allo, Federica Cipriani, Tommaso Bugnone Suppo, Lorenzo Buonviaggio, Sacha Ducournau, Sofia Giesen, Karl El Helou, Jonas Heurteux, Cao huimin, Camille Lévrier-Mussat, Aila Lombardi, HouLu, Elisa Magi, Vera Mahieu, Elisabetta Molina, Leonardo Molinari, Ettore Moncullo, Juan Carlos Montañes, Anna Oliveri, Cecilia Padula, Mabel Papeo, Bruna Piccolo, David Popkov, Francesco Quaglia, Gianluca Ryillo, Ilaria Rosso, Francisco Vega, Gatis Vectirans, Dorine Versavaud,

#### **ABOUT the ANALYSIS**

The analysis of the Canavese territory was conducted through the analysis of 5 topics representative of the historical and cultural background of the territory. The analysis was carried out by paying particular attention to the **production sectors** characteristic of the territory and investigating their production lines. The holistic diagnosis has highlighted the existence of several different problems related to the linearity of the above mentioned production processes.

Thanks to the approach deriving from systemic design, it was possible to identify some operational strategies for the creation of new networks of material and immaterial flows aimed at transforming the economy and production processes in the territory from a linear to a circular approach.

The application of these strategies becomes successful if they are rooted in the local cultural and territorial context.



#### **CANAVESE and TOPICS SCENARIO Nature & ecosystem services** An ecosystem is an ecological unit made up of living organisms (plants and animals) able to interact with each other and adapt to the environment in which they live, the benefits derived from the nature of ecosystems are called ecosystem services. They support directly or indirectly our survival and quality of life. Tourism Tourism, the act and process of spending quality time away from home in pursuit of recreation, discoveries, and pleasure, while making use of the commercial provisions of the territorial services. It provides immaterial benefits to the people by an established systems of local actors and the environment is generally insulated from difficulties or dangers.

## Mobility & infrastructure

Mobility and infrastructure are defined according to the category (nature, economy, energy, people) within which goods, materials, people or information are exchanged in a society. Mobility always concerns a movement of resources, physical or digital, while infrastructure, understood as an artificial system, also physical or digital, allows the effective realization of mobility itself.



**Settimo-Pont Canavese railway** 

#### **Local craft activities**

Productive and, in some case, artistic activities organized mainly on an individual or family basis, involving the use of traditionals material and techniques, manual skills and a limited use of machinery, as opposed to mass-production.



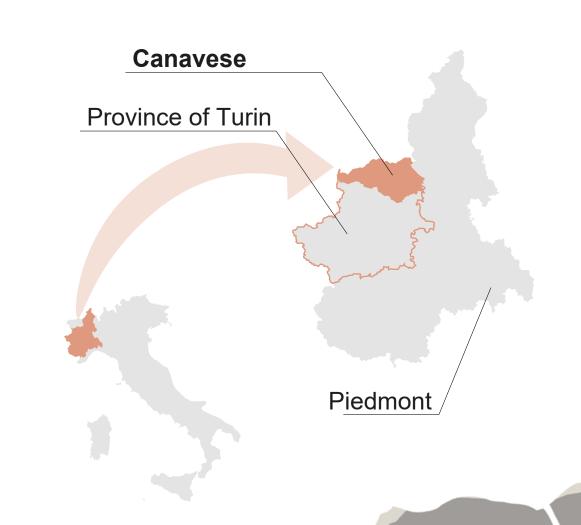
#### Agrifood

Agrifood is an industry that has to do with food production, it is the business of producing food in an agricultural way. fore to methods such as hunting and fishing. Today the agrifood industry is at the center of a very important economic complex that is called "food system", whose purpose is to feed the populations, mostly through a system of market relations. It includes the processing of the food, the retail, catering and advertising services.

> **COOPERATIVA EDILCASA BIELLA** \_Green building company\_



**BIELLA** 





**ENTE PARCO NAZIONALE** 

**GRAN PARADISO** Natural Park manageme



**LOCAL GOVERNMENTS** CANART

SEGHERIA VALLE SACRA

\_Agritourism and canning producer\_

**AOSTA** 



MANIFATTURA PEZZETI

LA CASTELLAMONTE STUFE

CONSORZIO FORESTALE

**COOPERATIVA VALLI** 

UNITE DEL CANAVESE

FRANTOIO LA RUÀ

TOP PROJECT

SORPASSO

IL CANAPÈ

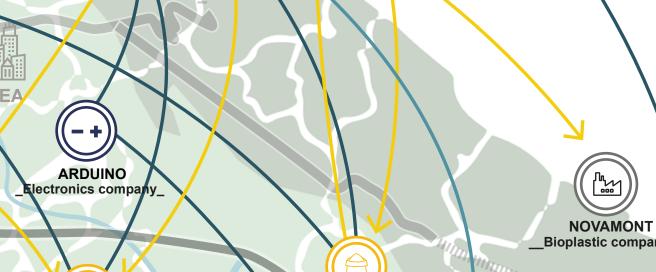
**CANAVESE GOLF AND** COUNTRY CLUB

Golf court and restaurant\_



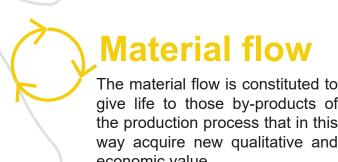
LA CASCINASSA \_Agritourism and cheese producer\_

GHIGGIA INGEGNERIA DI IMPIANTI

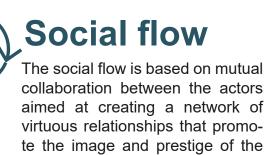


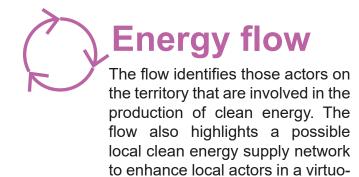
## **FLOWS** for CIRCULARITY

FRANCE



#### give life to those by-products of the production process that in this way acquire new qualitative and economic value.





us network.

actors involved.

# H2O flow

The flow is highlighted to emphasize those actors involved in the processes of use and transformation of water both as an energy resource and as raw material.



#### **Economic flow**

The flow is based on the sharing of technologies and on the realization of projects fincanced by third parties for a valorisation of the

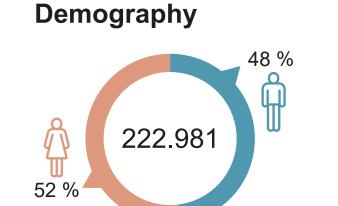


## CO2eq. flow

The flow identifies those actors that provide Co2 storage, it also highlights the possibility of creating relationships to improve and invest in forest management to ensure greater CO2storage.

#### COOPERATIVA PRODUTTORI **ERBALUCE DI CALUSO CARTIERA GIACOSA** \_\_\_Winemaking company\_ \_\_\_Paper mill\_\_\_ I COLORI DELLA TERRA \_\_\_Paints company\_\_\_ \_Clean energy plant construction company\_ \_Fertilizer producer company\_ \_Pencils producer company\_ **TORINO**

#### **SOME DATA ABOUT CANAVESE**

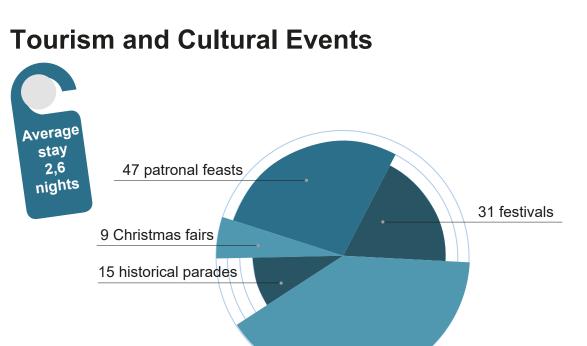


**Population** 

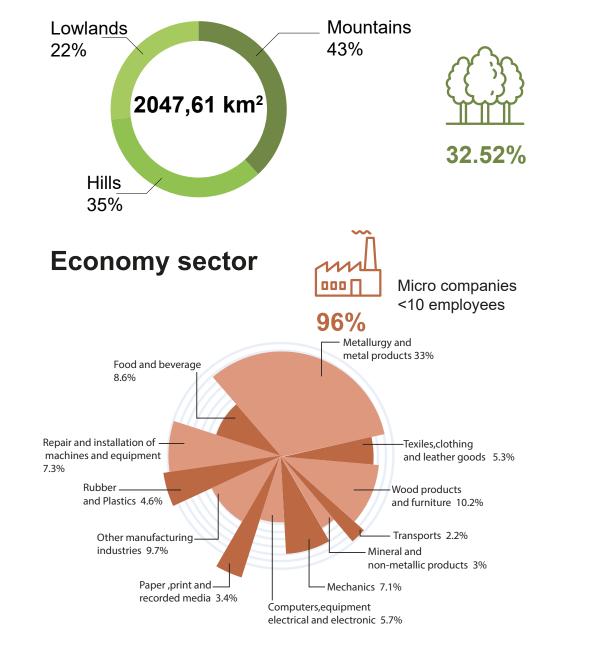
s/2019/10/Pubblicazione\_Canavese\_web.pdf

**Density** 

68 carnivals



#### SOURCES \*Regione Piemonte. (2015). Monitoraggio del Consumo di Suolo in Piemonte. Retrieved from: https://www.regione.piemonte.it/web/sites/default/files/media/documenti/2019-02/monitoraggio\_consumosuolo\_2015.pdf \*ISTAT. (9 October, 2011). La superficie dei Comuni, delle Provincie e delle Regioni italiane. Retrieved from: https://www.istat.it/it/fi $les/\!/2015/04/Superfici-delle-unit\%C3\%A0-amministrative-Testo-integrale.pdf$ \*Agenzia dello Sviluppo del Canavese. (2019). Canavese. Retrieved from: http://www.agenziasviluppocanavese.it/wp-content/upload-



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# Tomino Canavesano

Savoy cabbage of

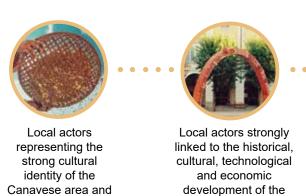
Montaldo Dora

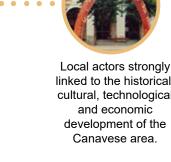
**Agronomist sector** 



Pignoletto rosso

### **LOCAL ACTORS and NEW FLOWS**













structure.



wide national and

international attraction

**EMERGING PROPERTIES** 



aimed at enhancing

the local cultural

heritage.

Development of a strong shared representative cultural identity



**Enhancement of the** experiences lived in the territory related to the local heritage



**Enhancement and** sharing of the local technological heritage