



Faculty of Design

2020

Potential for Circular Autopoietic Economy in High River Po Valley

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M.Sc. in Systemic Design
"Aurelio Peccei"
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HIGH RIVER PO VALLEY

LOCAL ENGAGEMENT FOR A SUSTAINABLE DEVELOPMENT

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ABSTRACT

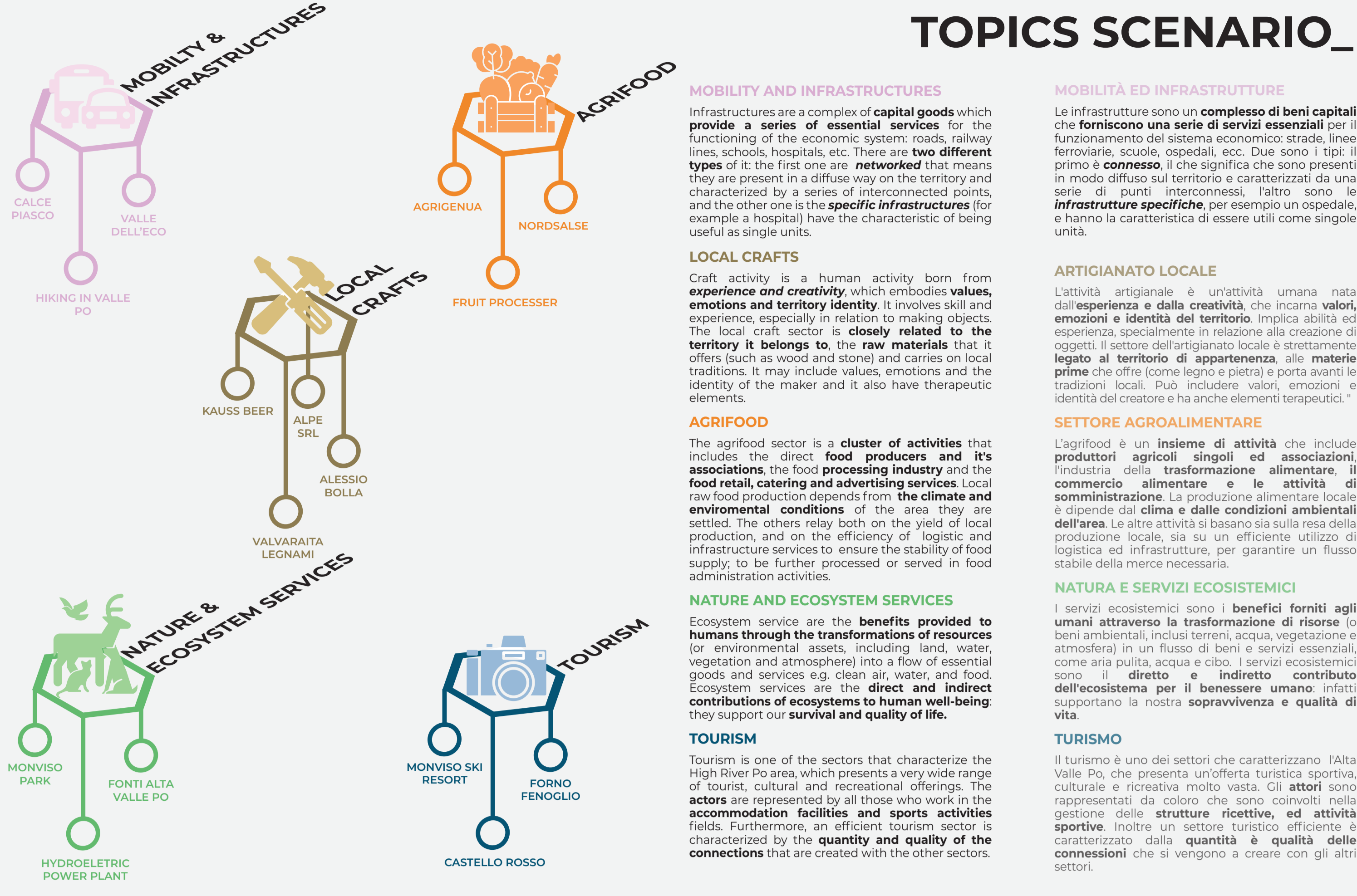
High Po Valley is an area composed by Upper Po Valley, Varaita Valley, Bronda Valley and Infernotto Valley. It's a very peculiar territory for a very peculiar territory for the Monte Viso landmark mountain with its typical flora and fauna, at the source of the Po river. The wood handcraft and the **Luserna stone**, the **Occitan culture** and tradition, the Slow Food movement, the Wines give a strong personality and unique features at this area.

Focusing on **five topics** (agrifood, tourism, mobility and infrastructures, local craft, nature and ecosystem services), we discovered a complex system of interconnections with its roots fixed in the local territory. Through multidisciplinary tools and Systemic Design Approach, we studied in detail the complexity of companies' supply chains (selected per topic), to understand better the critical issues related to the linear approach. Through the five system flows of material, CO₂ emission, water, economic and social, we designed new opportunities, new activities and new potential companies, thinking in a circular and systemic way.

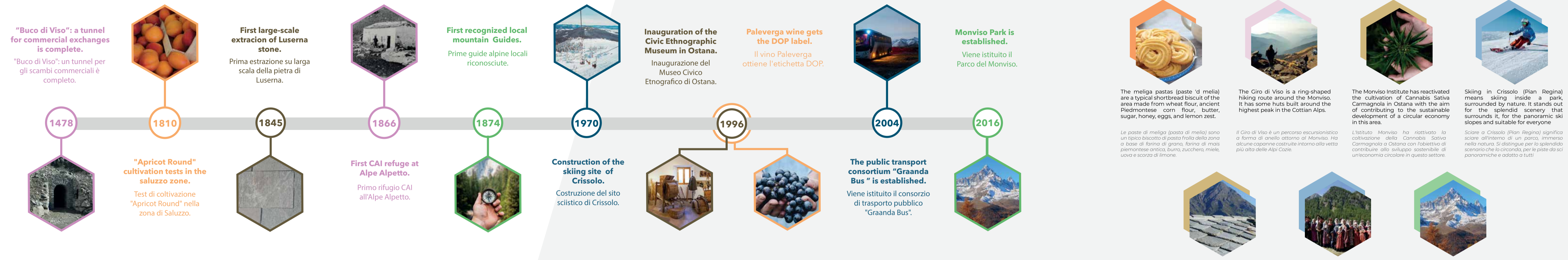
L'Alta Valle Po è un'area composta dalla Valle Po, Valvaraita, Valle Bronda e Valle Infernotto. Il territorio è molto particolare per il Montviso con la sua flora e fauna caratteristica della zona, e dove nasce il fiume Po; il legno e la pietra di Luserna; la cultura e la tradizione Occitana, che dona una forte personalità e caratteristiche uniche a quest'area.

Focalizzando lo studio su **cinque temi** (turismo, settore agroalimentare, mobilità e infrastrutture, artigianato, natura e servizi ecosistemici), abbiamo scoperto un sistema di connessioni complesso, che ha le sue radici nel territorio locale. Attraverso strumenti multidisciplinari e l'approccio del Design Sistemico, abbiamo studiato in dettaglio la complessità delle filiere aziendali (selezionate per ogni tema), per capire meglio le criticità relative all'approccio lineare. Attraverso i cinque flussi del sistema, materico, emissioni di CO₂, acqua, economico e sociale, abbiamo progettato nuove opportunità, nuove attività e nuove potenziali aziende, pensando in modo circolare e sistemico.

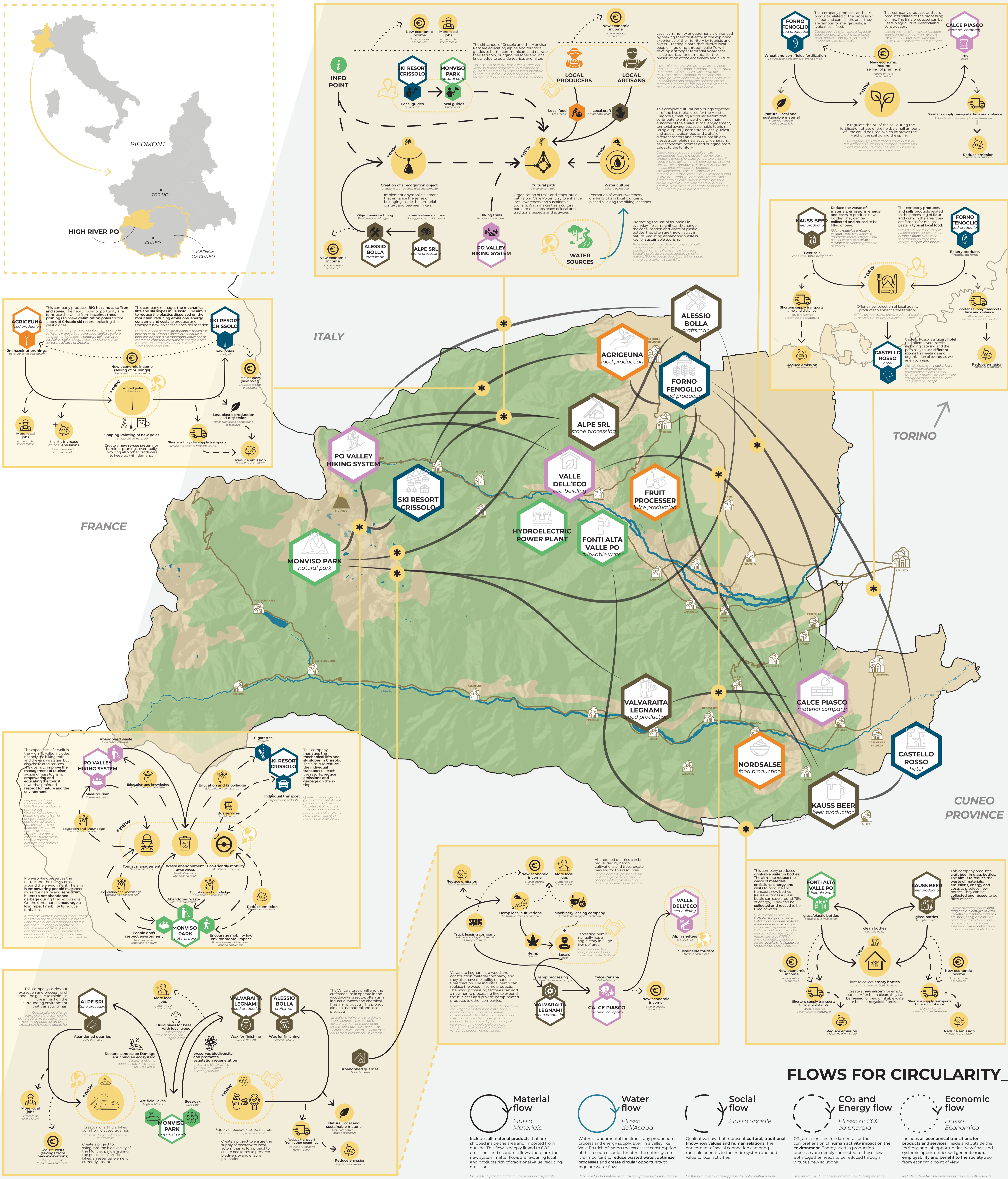
TOPICS SCENARIO



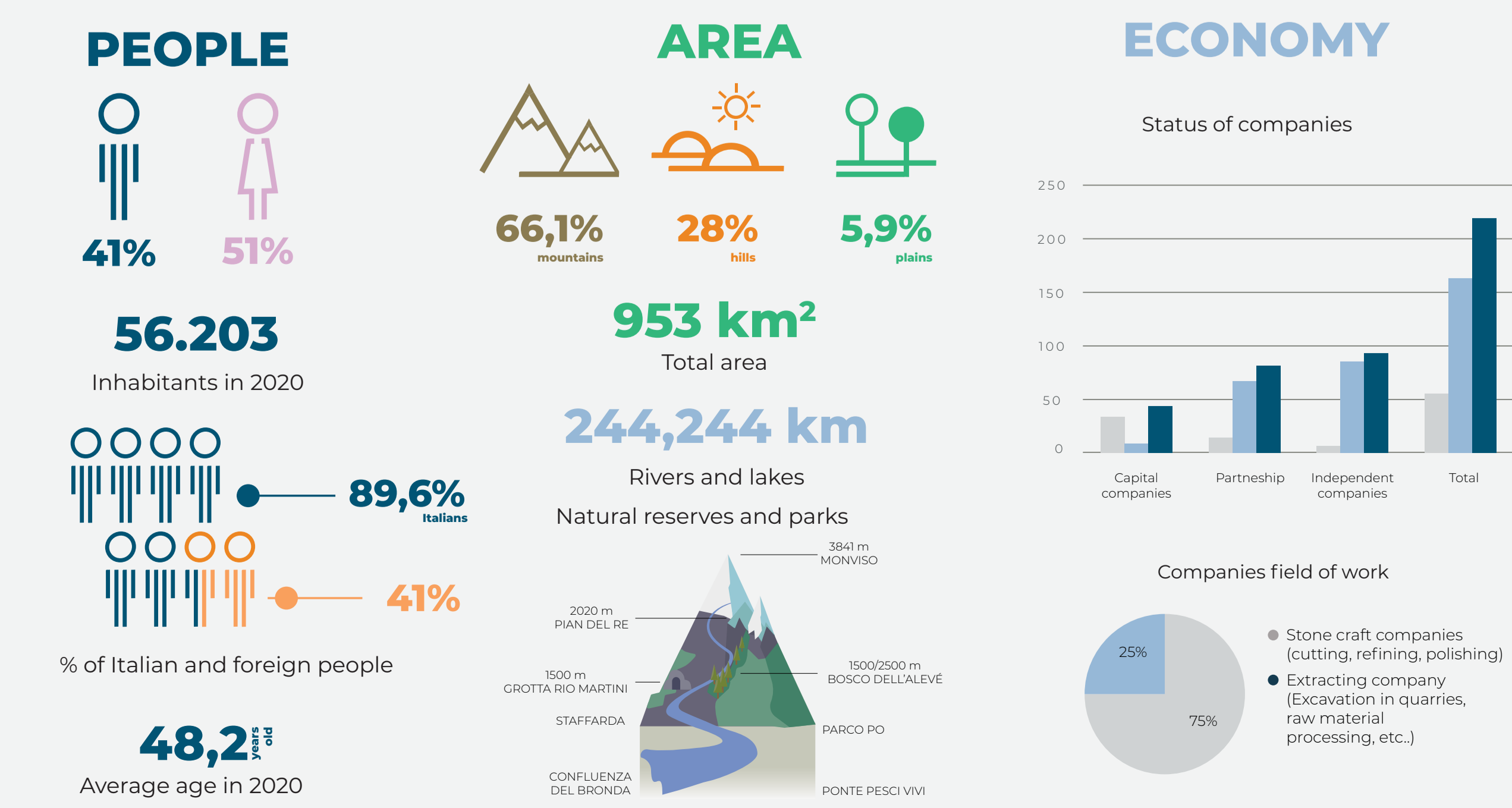
SOME HISTORY ABOUT HIGH VALLEY PO



TERRITORIAL CIRCULAR FLOW MAP



RELEVANT DATA ABOUT HIGH RIVER PO VALLEY



OUTCOMES OF THE CIRCULAR SYSTEM



references