Rebuilding the EdgeThe Ferrovia dei Parchi

Project Team

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Teaching Team

Liminal MIT Urban Risk Lab

MIT Digital Structures Group

Scale

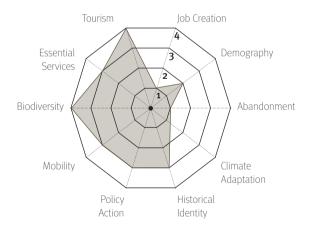
District

Location

Bugnara, Introdacqua, Sulmona Pettorano sul Gizio, Cansano (Abruzzo)



Understanding Natural Potential

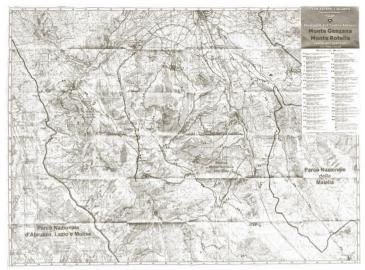


- 1 Not addressed
- 2 Somewhat addressed
- 3 Minor focus area
- 4 Major focus area

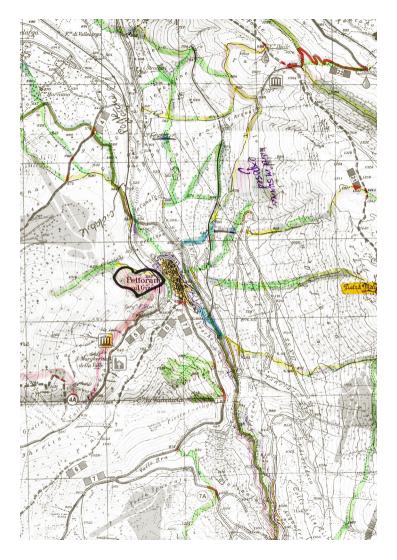
Abruzzo is the largest natural area within Europe, hosting over 75% of all species found across Europe. In its entirety, over 1/3 of the region is designated as a protected natural area, encompassing three national parks, one regional park, and several nature reserves. In doing so, Abruzzo has earned the nickname "The Lungs of Europe."

Although the area of Abruzzo is known for nature as a whole, this group began with one of the more low-receiving eco-tourism areas: the inner region of the Valle Peligna. Access to nature is high in this area spanning 100km², yet tourism remains relatively infrequent. Two of the most significant obstacles hindering increased tourism are a lack of services and a poorly integrated communication and marketing strategy.

Through several hikes, conversations with stakeholders, and analyses of distinct trails, the group ultimately proposes a new integrated path: the Sentiero Juan Carrito. It connects five small towns through a ring-like connection: Bugnara, Introdacqua, Pettorano sul Gizio, Cansano, and the regional center, Sulmona. Ultimately, the proposal to link services between and across these towns aims to embrace local communities, support the local economy, further protect the environment, and promote responsible travel.



The project began by stepping outside and exploring the Valle Peligna in many different ways, including hikes, e-bike rides and walking. Along the way, the group highlighted the various routes traveled on a physical map of the territory and categorized them according to type.



Hiking Across Towns

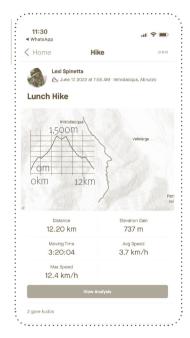
As part of their fieldwork, the group spoke with the Club Alpino Italiano (CAI), the oldest and largest mountaineering society within Italy. They hiked together and charted an unmapped trail in the area critical for the proposed loop.





fieldwork

One of the many other hikes was with Antonio, a local from Pettorano sul Gizio who they met at the town bar. With him, the group hiked roughly three hours from Introdacqua to Pettorano through lesser advertised and maintained trails.





We love the spirit of this place. Everything you are seeing now are a product of people's relationship to the landscape here. Our main challenge is that we lack a complete marketing strategy, because without a clearly outlined offer, it's hard to sell the territory to travelers.

-Mario Cipollone Cooperativa Valleluna



Through these hikes, the group discovered a variety of conditions that neighbor the trails, which would ultimately be harnessed in the final proposal.

Vistas to nearby towns from trails



Proximity of trails to dense forests



Small scale agricultural cultivations abutting trails

Analyzing Trail Features



Historic rural architecture



Clearly worn trail



Directional signs



Thorny overgrowth



Pettorano sul Gizio



Following the several hikes and excursions, the group began analyzing several conditions and services along different trails. The aim was to better understand the missing services and potential opportunities, as shown here for the Pettorano-Cansano trail.



Landscape with anthropic transhumance features

Visible markers

Barbed wire







Legend

Asset

Shortcoming

★ Point of Interest

How can we classify successful, existing trail features and what could be added to increase demand and use?

Analysis of Next Steps Needed for Expanded Trail Eco-Tourism

Need	Specific Actions
Completing the Loop	Missing trail establishment and long-term maintenance strategy Sulmona-Bugnara and Sulmona-Introdacqua connection
Aiding Navigation	 Distinct signage on trails and in towns Educational signage along routes and at interest points
Adding Services	Expansion of accommodation options Luggage shuttle service for town-to-town hikers
Curating & Distributing Information	 Stand-alone guide and map with trails and interest points Marketing plan to expand reach to target national and international audience

Stakeholders CAI, volunteer org.,

regional bus, on-call shuttle or e-bike

CAI or individual municipalities

Property owners or (new) on-call luggage transfer service

CAI, new org. or regional body assisted by marketing agency

Trail Quality Inquiry Asset •

Path is clearly directional Well-kept trail





analysis



Signage Inquiry
Asset Un-town periphery signs to indicate available trails







Educational Activity Inquiry Asset •

Clearly indicated educational moments



ShortcomingSmall, difficult to see educational moments



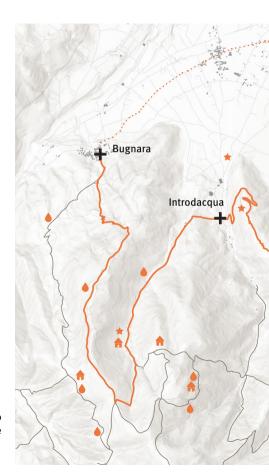
How can we classify the target audience for an inter-connected trail network and understand their relative economic and environmental footprint on the territory?

Traveler Type & Estimated Spending	Main Assumptions	Primary Goals	
Full Support Family €1,870	 5 nights 5 people €35/day/person Luggage transfer Excursions 	Authentic vacation with planned schedule, desirable, comfortable accommodations with diverse excursions	
Intermediate Support Family €1,720	↑ 5 nights ↑ 5 people ★ €25/day/person ■ Luggage transfer	Active, authentic vacation with unique destination, desires control & flexibility	
Intermediate Support Couple €1,300	↑ 5 nights 2 people ★ €35/day/person Luggage transfer	Same as above with "romance" factor	
Intermediate Support Individual €850	↑ 5 nights 1 person ★ 35/day/person Luggage transfer	Peace and quiet with space for self-reflection	
Low Support// Backpackers €270	↑ 7 nights 1 person packed €50 total	Surrounded by nature in low-cost manner, sleeps in mountain refuges/along trail	

^{*} Assumptions based on bottom-up estimates from interviews and market research

Proposing the Juan Carrito Trail

Ultimately, the final scheme poses a connection across five towns in the Valle Peligna that surround Sulmona. The trail is named after the famous local bear "Iuan Carrito," who is known for making appearances at human venues. Together, the trail is roughly 50km long, and is expected to be completed anywhere between 2-8 nights of travel.





proposal



Sentiero Sentiero Juan Carrito



Legend

- Fountain/Water Point of Interest
- Hut/Refugio
- ★ Key Town/City
- Juan Carrito Trail
- Other Trails
- Street Segment (Potential Biking) Ferrovia dei Parchi

o km 2 km



▲ 580m // Bugnara

Accessibility Attractions Activities Services











Key improvement area: Accommodation options

- **■** indicates present
- indicates absent



Rifugio Ponte della Montagna



Lago di Scanno





▲ 642m // Introdacqua

Accessibility Attractions Activities Services









Key improvement area: Town to trail head link





Monte Genzana



Riserva Naturale Regionale Monte Genzana Alto Gizio

_ 14.0km -



▲ 625m // Pettorano sul Gizio

Accessibility
Attractions
Activities
Services

Key improvement area: Train to town connection



Colle Mitra



Pietra Maggiore



____ 10.0km -



▲ 825m // Cansano

Accessibility Attractions Activities

Services





Key improvement area: Improve essential services









Marco's Saffron Farm

_ 11.0km -



▲ 405m // Sulmona

Accessibility Attractions Activities

<u>₽</u> & ==



Services



Key improvement area: Agriculture and trail links



Moving Forward



- Develop regional funding strategy for towns connected by trails
- Set priorities for implementation of plan; begin refurbishing huts & essential services along trails
- 3. Execute an international marketing and advertising strategy



Critical Measures & Suggestions















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cultural	excursions, an	d an allowance	ř	(1,870
4	11	(1200	1,720	C1,070













in a secluded destination	
mountains or along traits	

















Moving Towards Integrated Sustainable Travel
Over the course of three weeks, this group
used exploratory tracking, photography, and
interviews to gain an understanding of trails
around the Sulmona Valley. Following extensive
documentation and analysis, the final proposal
developed into the Sentiero Juan Carrito—a 50km
trail that runs through five towns within the region.

While the trail presented may be perceived as "new," the reality is that so much of the work to create this trail is already complete. The majority of these trails already exist. As such, one of the greatest strengths of this project is that the feasibility of implementation is high. The main work to render this vision a reality rests in 1) improving a few essential services across each trail and 2) packaging the trail as a unified loop for tourists.

By combining analysis with feasibility studies, the overarching methodology manages to link economic and environmental initiatives closely together. On the one hand, the trail's expected economic footprint (see analysis section) presents an economic opportunity for many smaller municipalities such as Pettorano sul Gizio and Cansano. Simultaneously, the possibility to link historical features, agricultural destinations. and educational opportunities presents a holistic opportunity for building greater environmental awareness. Together, the trail is much more than just gravel along a path. Its unifying nature creates the opportunity to produce a comprehensive tourist experience for increased rural resilience across multiple towns, activities, and individuals in the Valle Peligna region.

Workshop

Liminal, Associazione di Promozione Sociale

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Typefaces Meta Pro

Century Gothic

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