

1 **Exploring barriers arising from coopetition: A case study in the**
2 **Brazilian wine tourism industry**

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4 Jefferson Marlon Monticelli¹, Tatiane Pellin Cislighi², Kettrin Farias Bem Maracajá³
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7

8 ¹ Unisinos, Business School, Porto Alegre/Rio Grande do Sul – Brazil, 274, Belgica St. –
9 Canoas, RS. Brazil, Email: jmmonticelli@unisinos.br
10

11 ² Business Department, Federal Institute of Education Science and Technology of Rio Grande
12 do Sul, Bento Gonçalves, Brazil, Email: tatiane.cislighi@bento.ifrs.edu.br
13

14 ³ Federal University of Rio Grande do Norte, Brazil, Email: kettrin.farias@uaac.ufcg.edu.br
15
16

17 Correspondence concerning this article should be addressed to Jefferson Marlon Monticelli,
18 Unisinos, Business School, Porto Alegre/Rio Grande do Sul – Brazil, 274, Belgica St. –
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39 **Abstract**

40 In this study, we aim to understand how cooepetition can create barriers to real-estate projects
41 through a focus on the collective interests that seek to preserve the identity of a geographical
42 indication (GI). A qualitative longitudinal study that analyses a Brazilian wine industry,
43 specifically the Vale dos Vinhedos (a GI region), because it provides examples of cooepetition
44 leveraged to develop the region. The study was conducted over ten years (2012-2022),
45 collecting primary data from representatives of the Brazilian wine industry in 36 semi-
46 structured interviews. The study found that wineries and formal institution agents established
47 a cooepetition strategy to stop uncontrolled expansion in the form of real-estate development,
48 blocking the entry of new ventures such as hotels and timeshares that could distort the region's
49 character. Our study highlights the relevance of exploring the relationship between
50 environmental, social, and governance performance in cooepetition studies to understand how
51 cooepetition can support sustainable development. However, we found evidence that contrasts
52 the perspective of cooepetition as a strategy for developing a wine destination.

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55 **Keywords:** Coopetition. Geographical indication. Brazilian wine industry

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61 **1 Introduction**

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63 In today's intricate business environment, firms often employ cooepetition – a strategy
64 of concurrently pursuing cooperation and competition – to navigate uncertainties stemming
65 from emerging markets, rapid technological changes, and intensified global competition[1]. As
66 a well-developed theory, cooepetition attracts attention from researchers and practitioners
67 exploring its role in value creation and capture and in competitive strategies influenced by
68 institutions[2, 3].

69

70 Coopetitive relationships can offer insights into development of tourism destinations
71 amidst complexity [4]. Local products, crucial in tourism, gain greater significance with
72 Geographical Indications (GIs), such as Champagne in France or Port in Portugal, emphasizing
the geographical essence of cooepetition manifesting in varying degrees of competition and

73 collaboration [5]. The same is true of the case of the Vale dos Vinhedos (literally, the Valley
74 of the Vineyards) in Brazil.

75 By 2023, Brazil had 109 Geographical Indications (GIs), a 60% increase since 2019,
76 with more regions likely to receive accreditation [6]. The Vale dos Vinhedos, Brazil's first GI,
77 marked a significant shift in wine tourism, driving job creation, attracting tourists, boosting
78 local product consumption, and fostering socio-territorial revitalization [7]. In this region, the
79 wine industry thrives on a mix of competition and cooperation among producers and managers
80 [8]. Wine tourism contributes directly to job creation, increased tourist visits, local product
81 consumption, new investments, and business opportunities, all of which support broader social
82 and territorial development [9]. For winemakers, wine tourism extends the wine business,
83 offering diversification and greater value-added production [10].

84 Coopetitive strategies in this emerging market, heavily influenced by government
85 actions [11], have evolved beyond financial gains and strategic positioning to address new
86 tourism industry entrants [4, 12]. However, coopetition also has a "dark side," with potential
87 negative impacts on firms and tourism development from a barrier to the advance of hotel and
88 real estate megaprojects. It can create barriers by emphasizing collective interests aimed at
89 preserving the identity of a Geographical Indication (GI) [13]. This led us to define the research
90 question: How does coopetition create barriers to tourism through a focus on preserving a GI's
91 identity? The study aims to explore the dynamics of coopetition and its effects on tourism when
92 centered on GI preservation.

93 To fill this critical gap, we conducted a ten-year qualitative longitudinal study (2012-
94 2022) focused on the Brazilian wine industry in Vale dos Vinhedos, a Geographical Indication
95 (GI) region, as it demonstrates the role of coopetition in regional development. Our study builds
96 on Miná and Dagnino [14] and Chim-Miki and Batista-Canino [15], who emphasized the
97 importance of examining the interplay of environmental, social, and governance factors in
98 coopetition to support sustainable development.

99

100 *1.1 Coopetition in Wine Tourism: Institutional Dynamics and the Case of Vale dos Vinhedos*

101 Coopetition, combining cooperation and competition, is context-dependent and acts as
102 a strategic tool for increasing value in tourism destinations [1, 16]. It enables stakeholders to
103 collaborate while maintaining competitive dynamics, addressing economic, political, and
104 social challenges, and fostering value creation [17]. This has been examined in settings such
105 as Italian opera houses and theme parks in Finland and Italy [18, 19]. Researchers generally
106 adopt two institutional perspectives: informal, which considers the influence of culture and

107 ethics on coopetition, as explored by Klimas [20] and Knein et al. [21]; and formal, which
108 focuses on regulations, intellectual property, and competitive advantage [22, 23]. Most studies
109 are set in developed nations, where institutional frameworks facilitate business strategies [26,
110 25].

111 However, coopetition also has a "dark side," where value can be destroyed rather than
112 created [13, 26]. This typically occurs when tensions between firms lead to suspicion and
113 conflict, increasing risks and costs [27]. In tourism, geographical overlap exacerbates these
114 challenges, as businesses compete for the same customer base, making cooperation more
115 complex [28, 29]. Moreover, the opportunistic behavior of players who seek to capture value
116 without having participated in the value creation stage can damage the relationship between
117 the players who participate in wine tourism enterprises[30]

118 For instance, tensions and social conflicts arising from coopetition in wine regions can
119 significantly impact their long-term business sustainability. These conflicts often stem from
120 competing economic interests, environmental concerns, and sociocultural dynamics, which can
121 undermine cooperative efforts essential for sustainable practices[31]. In the Prosecco region,
122 social conflicts are intertwined with environmental concerns, as local communities demand
123 greater attention to social values and equitable resource distribution[32]. Furthermore, the case
124 of the AOC Saint-Émilion illustrates how crises can alter coopetition dynamics, leading to
125 conflicts that hinder value creation and sustainability efforts[33]. Similarly, research in Spain
126 has highlighted tensions arising from the competing interests of wine tourism, heritage
127 preservation, and local communities' housing or infrastructure needs. In this context, while
128 Priorat has used detailed terroir zoning to strengthen community cohesion and revitalize rural
129 residency, regions such as Penedés show how weaker regulation leaves room for urban pressure
130 and potential social friction[34]. Thus, while coopetition can foster collaboration among wine
131 producers, the inherent tensions and conflicts can jeopardize the long-term business
132 sustainability of these regions, necessitating careful management and regulation to balance
133 competing interests.

134 In wine tourism, coopetition is evident as wineries and related entities work together to
135 enhance visitor experiences while maintaining competition [13, 35]. This strategy drives
136 innovation by encouraging shared research, sustainable practices, and improved viticulture
137 techniques, benefiting both individual wineries and the broader industry [36, 37]. It also
138 includes collaboration with hotels and tour operators to create comprehensive packages that
139 enrich the visitor experience. However, achieving a balance is crucial, as too much competition
140 or cooperation can result in fragmented experiences and shorter visitor stays [23, 24].

141 The Vale dos Vinhedos in southern Brazil illustrates the role of coepetition in wine
142 tourism. Known for its grape and wine production, the region comprises 37 municipalities,
143 managed by the Serra Tourism Association (Atuaserra), which oversees regional tourism
144 efforts [8]. In 2015, the region attracted about 400,000 visitors, gradually becoming Brazil's
145 leading wine tourism destination [Formal Institution Agent 8, 2024]. The cooperative
146 environment has enabled family wineries to expand beyond local markets, reaching national
147 and international audiences [8].

148 The region, historically linked to Italian immigration since 1875, encompasses Bento
149 Gonçalves, Garibaldi, and Monte Belo do Sul. It currently hosts 22 wineries, 40 employees,
150 and has a designation of origin seal for its products [Formal Institution Agent 8, 2024]. The
151 establishment of Formal Institution Agent 8 led to infrastructure improvements, job growth,
152 and increased acceptance of local wines, as noted by Zanini and Rocha [40,41] and Valduga
153 and Minasse [43]. Klinger et al.[42] further emphasize that coepetition benefits both
154 established and emerging wineries along the 35-kilometer wine tourism route.

155 Despite these successes, the region also faces coepetition challenges. Tensions among
156 firms can lead to negative outcomes, underscoring the need for strategic balance [18, 19, 20].
157 Wineries must maintain their brand identity while contributing to the destination's appeal [18,
158 19]. Achieving this delicate balance is crucial to ensuring a cohesive and attractive tourist
159 experience [38].

160

161 **2 Methodology**

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163 The Vale dos Vinhedos epitomizes the historical, cultural, and gastronomic legacy of
164 Italian immigrants who began to arrive in Brazil in 1875 and has become a focal point for
165 competitive strategies in the Brazilian wine industry [46]. The region's industry association,
166 Formal Institution Agent 8, was founded in 1995 and plays a pivotal role in orchestrating
167 competitive endeavors targeting sustainable development through wine tourism. The region
168 attracted approximately 300,000 visitors in 2022, consolidating its status as Brazil's premier
169 wine tourism destination [47].

170 We used a data analysis process employing an inductive method to offer a strategy for
171 constructing theories [48]. Processual research requires examination of phenomena over time
172 with scrutiny of individual case studies to understand the flow of activities, demanding
173 comprehensive longitudinal data [49]. We registered in detail and analyzed the evolution of a
174 geographical location over time, exploring its response to new opportunities and conflicts,

175 mainly focused on the dilemma of steering between promotion and development of tourism in
 176 the region and protecting and preserving the identity of the Vale dos Vinhedos GI.

177 For data collection, in this study we employed a combination of semi-structured
 178 interviews, observation, and document analysis. This multifaceted approach enables the
 179 essential triangulation of data, as recommended for qualitative research objectives [50].

180 A ten-year longitudinal study (2012-2022) collected primary data from the Brazilian
 181 wine industry through 36 semi-structured interviews with executives, managers, and
 182 consultants from wineries and formal institution agents involved in the development of the
 183 Vale dos Vinhedos' Geographical Indication (GI) status. The initial phase (2012-2013)
 184 included 18 interviews with winery representatives and formal agents, along with three follow-
 185 up interviews with the same participants. The second phase in 2017 featured six interviews,
 186 including four repeat participants and two new ones. The third phase in 2022 added nine
 187 interviews with formal institution agents representatives new to the study (Table 1). The
 188 process was mapped to identify key events and establish a timeline that captured the evolving
 189 discourse on tourism and GI in the region.

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Table 1. General information about the interviewees

<i>No.</i>	<i>Organization</i>	<i>Position</i>	<i>Interview Dates</i>
-		<i>First Phase</i>	<i>2012-2013</i>
1	Formal Institution Agent 1	Technical Director	01/2012
2	Formal Institution Agent 2	Export Manager	01/2012
3	Winery 1	Export Supervisor	01/2012
4	Winery 2	Export Coordinator	01/2012
5	Winery 3	International Relationship Manager	02/2012
6	Winery 4	Export Manager	02/2012
7	Formal Institution Agent 3	Researcher	01/2013
8	Winery 3	International Relationship Manager	01/2013
9	Winery 5	Sales Manager	01/2013
10	Winery 6	Sales Manager	01/2013
11	Formal Institution Agent 4	Business Promotion Director	01/2013
12	Formal Institution Agent 5	Brazilian Companies Relationship Manager	01/2013
13	Formal Institution Agent 7	Executive Manager	01/2013
14	Formal Institution Agent 2	Export Manager	03/2013
15	Formal Institution Agent 6	International Relationship Manager	03/2013
16	Winery 2	Export Coordinator	04/2013
17	Winery 7	Winemaker	06/2013
18	Specialist	Researcher and winemaker	06/2013
19	Winery 8	Winemaker	06/2013
20	Winery 9	Foreign Trade Manager	06/2013

21	Formal Institution Agent 8	President	07/2013
-	<i>Second Phase</i>		<i>2017</i>
22	Formal Institution Agent 2	Promotion Department Manager	05/2017
23	Winery 1	Import and Export Assistant	05/2017
24	Winery 3	Export Manager	06/2017
25	Formal Institution Agent 3	Researcher	06/2017
26	Specialist	Researcher	06/2017
27	Winery 10	Export Manager	06/2017
-	<i>Third Phase</i>		<i>2022</i>
28	Educational Institution 1	Researcher and Professor	04/2022
29	Formal Institution Agent 8	Executive Director	04/2022
30	Winery 11	Winemaker	05/2022
31	Formal Institution Agent 8	Technical Advisor	05/2022
32	Educational Institution 2	Researcher and Professor	05/2022
33	Educational Institution 2	Researcher and Professor	08/2022
34	Vale dos Vinhedos Planning District Council	Architect and Member of the Municipal Planning Council	08/2022
35	Winery 12 and Formal Institution Agent 8	Owner and Vice-president of the Superior Council and Fiscal Council	08/2022
36	Subprefecture of Vale dos Vinhedos	President of the Vale dos Vinhedos District Planning Council / President of the residents and community of Vale dos Vinhedos	08/2022

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193 Data were triangulated to strengthen both validity and reliability. Primary data was
194 collected at different points in time, from multiple sources, and using varied instruments, in
195 order to build a more comprehensive set of findings. We compared similarities and differences
196 across the data to ensure diverse perspectives were captured, incorporating verbatim quotations
197 from participants to reinforce the results [51]. Secondary data were obtained from companies
198 and formal institution agents, serving both to complement and to contrast with the interview
199 material. In addition, bibliographic sources such as websites, reports, magazines, and books
200 were included. We took care to fulfill specific criteria of reliability, as detailed in Table 2 [51].
201

202 **Table 2.** Reliability Criteria

<i>Reliability Criterion</i>	<i>What we did</i>
Validity	To ensure the validity of both the process described and the data analyzed, we triangulated the evidence across multiple respondents and secondary sources.
Reliability	We sought to guarantee reliability by carefully examining the soundness of researchers' decisions, involving an independent researcher to evaluate comparable findings and reduce potential biases linked to researchers' philosophical stances, experiences, or perspectives.
Generalizability	To allow other researchers and practitioners to transfer the findings to their own contexts, we described in detail the organizational field that shaped each decision-making process. This expanded the understanding of the trajectory under analysis. We also detailed contextual phenomena to support application of the findings in other settings.
Consistency	We provided a transparent account of the research process, from the initial outline through methodological development and presentation of findings. Emerging issues were openly debated with team members experienced in qualitative research, enabling assumptions to be challenged and consensus reached.
Dependability	We safeguarded the confidentiality of firms and institutional representatives by assigning them codes with numbers. Interviews were conducted by two researchers, who also contributed to the design of composite visual maps integrating various data sources. This allowed for auditing of the data and ensured that the narrative reflected respondents' shared meaning, not just researchers' interpretations. We also used NVivo 14 to assign open, axial, and selective codes, and included interview excerpts in the paper.
Confirmability	All interviews were recorded and transcribed verbatim. Two researchers conducted interviews with representatives from different organizations, while one simultaneously took notes. The full inventory of secondary data was accessible online.

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Data analysis was carried out in three sequential phases: (i) data reduction; (ii) data display; and (iii) drawing and verifying conclusions [52]. A template analysis approach was applied to develop a hierarchical coding system, striking a balance between a predefined structure for analyzing texts and an iterative process to capture emerging codes [54]. We used the main quotes to present the case analysis. The analysis involved a systematic comparison of interview topics, a visual map, and individual cases, facilitating definition and validation of constructs. Throughout this process, "in vivo" codes were employed, aligning with the language and terms used by key informants, as recommended by Langley and Abdallah [50].

The first phase involved selecting, discarding, and organizing data according to the research design and predefined categories. Interview excerpts were examined to identify elements contributing to the debate on how cooperation can hinder tourism by prioritizing collective interests that preserve the identity of a geographical indication. Primary data from interviews and secondary sources from print and digital materials were processed, producing summaries that highlighted key aspects.

219 The second phase focused on linking codes with data sources. Two researchers
 220 independently coded the material, organizing the summaries according to categories that
 221 emerged during analysis (a posteriori categories). Relationships were established by mapping
 222 each interview excerpt (coding references) to analytical categories defined in the first phase,
 223 generating coded items. Data summaries were then cross-referenced using NVivo 14.0.

224 In the final phase, the coded output provided the foundation for interpretation. Codes
 225 were classified in line with existing literature, covering different dimensions of the
 226 phenomenon and consolidated into a research map [54]. Two researchers worked
 227 independently to refine codes, merging or separating them as appropriate, before comparing
 228 results to reach consensus (Table 3). Ultimately, the observed phenomena were explained and
 229 grouped under three central categories, which are presented in the following section.

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Table 3. Analytical categories used for the interview script

Categories	Guiding concepts	Theoretical background
Introduction	History; role and influence of the firm or formal institutions agents; relevance of the firms or formal institution agents in the industry; influence of formal institutions to develop the industry and region; characteristics of the industry	Characterization of the firm or formal institution agent in the industry
Business strategies	Firms share or compete for the same resources; firms work alone or together with my competitors; firms cooperate in some areas/markets and compete in other areas; strategy of coopetition; interests of the firms and the formal institution agents for the coopetition to be successful.	Cooperation, competition, and coopetition
Role and influence of formal institution agents	Main formal institution agents in this industry and their roles; the role of the formal institution agents in the industry; influence (intervention) of government in this industry; the role of trade associations, industrial agencies, tax bureaus, state banks, commercial administration bureaus, and universities, the influence of GI in the industry	Decision-making of firms and institutions from the political and economic perspective of the Neo-institutional theory
The Role of Coopetition in Value Dynamics within Tourism Destinations	Coopetition, Value Creation, Value Capture, Value Destruction, Formal Institutions, Informal Institutions, Institutional Interplay, Collective Branding, Asymmetric Gains, Sustainable Tourism Development.	When laws and policies conflict, the value dynamics in tourism are affected, which can result in the destruction of value for the destination.

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3 Results

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3.1 Establishment of the Vale dos Vinhedos: Coopetition and Institutional Dynamics

236

237

The Vale dos Vinhedos was established in the 1990s when Brazil's shift towards a more open economy facilitated global market integration. Six wineries initiated discussions to

238 implement a Geographical Indication (GI) for the region, supported by the Brazilian
239 Agricultural Research Corporation's grape and wine department (Formal Institution Agent 3).
240 Due to a crisis in the cooperative model, they chose to create the Vale dos Vinhedos Fine Wine
241 Producers Association [Formal Institution Agent 8], formally established in 1995 as described
242 below:

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244 *"Aprovale is an organization that was set up with the main aim of bringing together*
245 *the companies here in the Vale dos Vinhedos region, which later became a GI. With the aim of*
246 *organizing, especially these small companies that were springing up here at the time. And*
247 *winemaking was in its infancy here at the time, in the 1990s. What we had was viticulture, in*
248 *other words, we didn't make wine, we produced grapes, but what we did was supply this raw*
249 *material to other larger companies in the sector. The creation of Aprovale was then to*
250 *strengthen these companies that were springing up, to promote joint work between them, to be*
251 *able to organize the purchase of inputs with better conditions, the marketing of the product*
252 *also at fairs and external events, in São Paulo, Rio de Janeiro, they participated together at*
253 *the beginning, and also, to do, and this is still one of the main objectives, to evolve the product.*
254 *Imagine a small winery that started twenty years ago, the technology was very simple and well,*
255 *you had to compete in an increasingly competitive market, with quality. So that was the most*
256 *important step we took, seeking support mainly from Embrapa, Sebrae and universities."*
257 (Formal Institution Agent 8, 2013)

258

259 In 1995, facing a crisis in the cooperative model, the group established the Vale dos
260 Vinhedos Association of Fine Wine Producers [Formal Institution Agent 8] instead of a
261 cooperative. A pivotal moment for regional cooperation was a visit to Napa Valley, where local
262 entrepreneurs considered creating a wine tourism route in Vale dos Vinhedos. This sparked
263 discussions that led to the simultaneous launch of the wine tourism project and the
264 Geographical Indication (GI) process. As a winemaker from Winery 11 noted: "The members
265 were meeting to create a wine tourism route, inspired by Napa Valley... But it seems that this
266 initial conversation provoked a further step—why not have a GI?" [Winery 11, Winemaker,
267 2022]. The initiative was driven by shared cultural identity and trust, reinforcing the GI's
268 foundation.

269 Formal Institution Agent 8 aims to promote sustainable development in the Vale dos
270 Vinhedos through wine tourism, member integration, and community engagement. It oversees

271 the Geographical Indication (GI) and the products protected by it. Since the 2000s, efforts to
272 expand both domestic and international markets have increased, boosting wine tourism, earning
273 awards for regional wines, and attracting more tourists [Formal Institution Agent 8, 2024].

274 *“So, if the association worked to promote the local products and wine tourism, and the*
275 *regional crafts as well, as a consequence it also managed to promote Brazilian wine in general.*
276 *Nowadays, Brazilian wine benefits from Vale dos Vinhedos’ recognition even in the European*
277 *Union, since 2007. We have a level of recognition that we would have struggled to achieve if*
278 *we didn’t have this region and the work that was done specifically focused on its identity, its*
279 *products, and their recognition.”* [Executive Director, Formal Institution Agent 8, 2022].

280

281 In 2002, wines adhering to the standards set by Formal Institution Agent 8 and Formal
282 Institution Agent 3 received the Indication of Origin (IO) seal, covering grape varieties,
283 cultivation, and winemaking [Formal Institution Agent 8, 2024]. In 2012, this recognition
284 advanced to Geographical Indication (GI) status, reserved for wines meeting specific technical
285 criteria. This upgrade enhanced the product's value, consumer confidence, and media visibility
286 for Vale dos Vinhedos. As Brazil's first product to earn this designation, the IO seal was also
287 recognized by the European Union, benefiting grape growers, wineries, and consumers through
288 higher product quality and spontaneous marketing. An interviewee from Formal Institution
289 Agent 3 noted that this recognition improves the region’s business landscape, particularly in
290 tourism, creating a favorable environment for wine enterprises:

291 *“So, if the association did a job promoting the local product, or products, because wine*
292 *tourism too, the region's handicrafts too, it consequently managed to promote the national wine*
293 *too. Today, national wine has the recognition of the Vale dos Vinhedos even in the European*
294 *Union, which was done back in two thousand and seven. You have a situation of recognition*
295 *that we would hardly have had if we didn't have a region with a strong focus on its identity, its*
296 *product and recognition.”* (Formal Institution Agent 3, 2017)

297 Strategies of cooperation among competitors are evident in the learning gains and
298 expanded networks through interactions among wineries, formal institution agents, and
299 traditional events. This reflects the co-competition model, where wineries of all sizes collaborate
300 and compete in areas like marketing, foreign commerce, and sales. The goal was to create value
301 collectively, establishing an identity for Brazilian wine centered on the Geographical Indication
302 (GI). This approach involved sharing resources and knowledge, leading to greater outcomes

303 than what individual efforts could achieve, particularly in expanding both domestic and
304 international market shares.

305

306 *3.2 Expansion of tourism and real estate development*

307 At the beginning of the 21st century, South Brazil's winemaking region achieved
308 Geographical Indication (GI) accreditation, prompting significant developments, particularly
309 accelerated urbanization. The Vale dos Vinhedos Denomination of Origin (DO) spans 72 km²,
310 distributed across Bento Gonçalves (61%), Garibaldi (34%), and Monte Belo do Sul (5%). The
311 region's wine label, "Vale dos Vinhedos," comes from a grape-intensive area within Bento
312 Gonçalves, home to most winemakers [57].

313 Following GI recognition, a Regulatory Board was established in 2001 to manage,
314 maintain, and preserve the GI. This self-regulating body, approved by association members,
315 ensures the origin and quality of Vale dos Vinhedos wines. It introduced the Vale dos Vinhedos
316 Seal of Quality, awarded to still and sparkling wines made with local grapes and bottled at
317 origin. These wines undergo rigorous testing by experts from Formal Institution Agent 3 and
318 Formal Institution Agent 8. Each seal is uniquely numbered for control, setting these wines
319 apart from competitors [Formal Institution Agent 8, 2024]. This perspective is reinforced by
320 representative from Formal Institution Agent 1:

321

322 *"Our first geographical indication was the indication of origin, in 2002. And in this*
323 *year (2012) we were recognized as an appellation of origin. Which is another stage. You can't*
324 *compare the two. The first was the introduction of the Vale dos Vinhedos, and the denomination*
325 *is, in a way, the recognition that what is made here really is linked to our conditions, to our*
326 *terroir. The denomination, as well as being a geographical indication like the indication of*
327 *origin, which links the product to its origin, needs to approve that the product does have a link*
328 *to what is made here. So, as long as we have approved a product that we have made here, it is*
329 *linked to our geographical and physical conditions, our people, our varieties, in short, to our*
330 *terroir."* (Formal Institution Agent 1, 2012)

331

332 The recognition of Vale dos Vinhedos as a Geographical Indication (GI) was a
333 milestone with significant impacts on the region's sustainable economic development. The GI
334 not only adds value to the wine products but also benefits winemakers, the working
335 environment, and rural properties. It enhances winemakers' involvement in national and
336 international sales, promotes investment in new vineyards and technology, encourages family

337 succession, preserves the region's cultural heritage, supports quality control, and boosts
338 consumer trust. Additionally, it fosters the expansion of wine tourism [Formal Institution Agent
339 8, 2024].

340 Wine tourism expansion in Vale dos Vinhedos began in 1999, marked by increased
341 hotel construction [Architect, Complan, 2022]. At the same time, wineries have begun to
342 explore wine tourism in order to add value to their products and services. The winemaker at
343 winery 8 explains:

344

345 *“Our focus has been on markets with higher returns, adding value with wine tourism*
346 *activities, such as customer visits to the winery, the winery's theme park, tasting events, an*
347 *enoteca, a restaurant and a wine museum. It has also focused its efforts on individual customers*
348 *who are wine connoisseurs and connoisseurs, through active telemarketing, using limited*
349 *batch production.”* (Winery 8, 2013).

350

351 However, real estate speculation, with property values rising up to 500% in recent years
352 due to the GI's creation, threatens the region's wine landscape. This underscored the need for
353 regulated land use, formalized by the Cities Statute (Law 10.257) in 2001, which mandates
354 Town Plans for municipalities with over 20,000 residents, identifying tourism-focused and
355 environmentally significant areas.

356 The Bento Gonçalves Town Plan created conflicts, as it often dominated planning
357 decisions in the Vale dos Vinhedos, despite the region spanning three municipalities [Architect,
358 Complan, 2022]. As the area's popularity and infrastructure investments grew, with new
359 restaurants, bed and breakfasts, and retail outlets, Vale dos Vinhedos became Brazil's leading
360 wine tourism destination. This attracted real estate developers and the construction industry
361 seeking to invest within the demarcated region.

362 By 2010, rising property values led landowners and winemakers to sell land for
363 residential development, threatening vineyards and the Geographical Indication (GI) status
364 [Architect, Complan, 2022]. Real estate pressures escalated after Denomination of Origin (DO)
365 status was granted in 2012, with developments often prioritizing profit over community
366 interests. Formal Institution Agent 8 remarked, *“The Vale is easy to sell, because it is the best*
367 *wine tourism route in Brazil”* [Formal Institution Agent 8, Executive Director, 2022]. In
368 response, a collaborative effort by Formal Institution Agent 8 and local stakeholders secured
369 recognition of Vale dos Vinhedos as Historic and Cultural Heritage of Rio Grande do Sul, with
370 interventions from the Public Prosecutor to curb unregulated growth [Winery 11, 2022].

371 Despite these efforts, internal conflicts emerged within Formal Institution Agent 8 from
372 2014 onward. Differences in firm size, unclear common goals, inconsistent GI promotion, and
373 rising land prices contributed to tensions. Consequently, some members disengaged from the
374 association, shifting focus to other business ventures unrelated to wine production [Vice-
375 president of the Senior Board and Financial Board, Formal Institution Agent 8, 2022].

376

377 *3.3 Coopetition as a barrier to the advance real estate projects*

378 Recently, new conflicts have emerged over construction and real estate developments
379 in the Vale dos Vinhedos. In 2021 and 2022, large projects like resorts began occupying
380 winemaking lands with Denomination of Origin (DO) status. Political interests, linked to
381 election campaigns and economic gains, fueled these developments. The longstanding issue of
382 conflicting Town Plans among Bento Gonçalves, Garibaldi, and Monte Belo do Sul persisted,
383 enabling ongoing approval of unsuitable constructions in Garibaldi and Monte Belo do Sul
384 [President of the Vale dos Vinhedos District Planning Council/Residents and Community,
385 2022].

386 In response, Formal Institution Agent 8 issued an open letter to the community, warning
387 that the region's sustainable development was at risk. The letter emphasized that expanding
388 hospitality capacity alone does not justify new developments, as it threatens the vineyard
389 landscape and impacts wine tourism. Formal Institution Agent 8 stressed that the region's
390 appeal lies in its natural beauty, tranquility, and preservation of wine culture, free from
391 overcrowding [Formal Institution Agent 8, 2022].

392 Intellectual property and the Denomination of Origin (DO) are major concerns, as
393 highlighted in Formal Institution Agent 8's Open Letter. According to article 178 of Law 9.279,
394 GIs are recognized based on the unique qualities of wines derived from their geographical
395 context, including natural and human factors [57]. If these factors are compromised, the DO
396 status is at risk. To prevent this, a reevaluation and planning process is needed, involving
397 entrepreneurs, producers, public administrators, and the community, to understand the negative
398 impacts of real estate developments. Such developments could not only lead to the loss of DO
399 status but also threaten the sustainable development and international reputation of Vale dos
400 Vinhedos as a wine tourism destination [Formal Institution Agent 8, 2022].

401 The District Planning Council representative expressed concerns about large-scale
402 developments, citing issues with mobility, public transportation, sanitation, water, daycare, and
403 healthcare. He stated, "*All of this growth does not fit in the Valley*" [President of the District
404 Planning Council/Residents and Community, 2022]. For example, two urban projects proposed

405 in 2021 and 2022 would require 2,500 workers commuting daily over six years, doubling the
406 current population of 2,300 and overwhelming infrastructure like water, electricity, roads,
407 sewage, and waste management. The region's insufficient labor force suggests that workers
408 would likely relocate with families, further straining healthcare, education, and housing
409 resources that the area cannot support [President of the Vale dos Vinhedos District Planning
410 Council/Residents and Community, 2022].

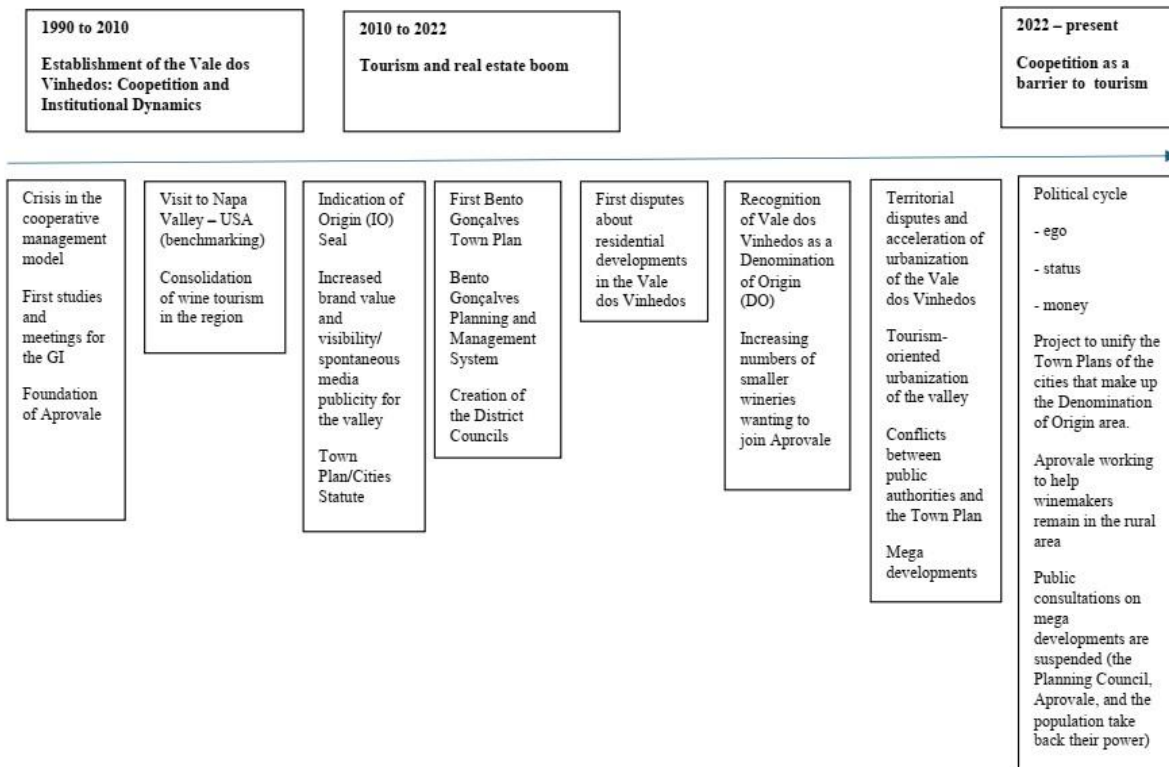
411 In response to local concerns, a public meeting led to the removal of a project that
412 proposed altering the Bento Gonçalves Town Plan to allow mega developments within the DO
413 area. City Hall also introduced a Vale dos Vinhedos Landscape Management and Development
414 Plan, which involves Bento Gonçalves, Garibaldi, and Monte Belo do Sul [Formal Institution
415 Agent 8, 2024]. Winery 12's owner emphasized, "*We're not against progress or development,
416 but it must be in context... The Vale's identity was built on vineyards, wine, fine dining, and
417 tourism, and this character must be preserved.*" (Winery 12, 2022).

418 Formal Institution Agent 8 resumed efforts to unite wineries, suppliers, educational
419 institutions, and the community. Joint purchasing of supplies has helped winemakers sustain
420 their operations, while group negotiations for machinery and equipment have delivered shared
421 benefits. As noted by the President of Formal Institution Agent 8, "*The Association's
422 contribution to the Valley is to help producers retain their ownership*" [President of Formal
423 Institution Agent 8, 2022].

424 Over time, the Geographical Indication (GI) has become central to the region's
425 economic, social, and environmental development (Figure 1). This is evident in increased wine
426 production linked to tourism, fine dining, hospitality, input production, and cultural heritage.
427 Public and private representatives stress the need for infrastructure investment and fostering a
428 sense of belonging to the GI territory, pointing to the enhanced value of both tangible and
429 intangible assets.

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431 **Figure 1.** Timeline of Brazilian wine industry



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The representative from Formal Institution Agent 8 described the region's shift toward collaboration: “[...] *here, an entity tried to join forces. Initially, there was fierce competitiveness—wineries would even criticize each other's wines. But now, they've realized the power of working as a group. However, competition still exists, as wineries compete for space on restaurant wine lists and in shops*” [President of Formal Institution Agent 8, 2013]. This evolution over the past decade illustrates how Vale dos Vinhedos has grown not only as a center for wine production and tourism but also as a community that embraced cooperation to expand its strategic opportunities.

In these terms, several formal institution agents acted to prevent the de-characterization of the Vale dos Vinhedos. “Embrapa, for example, played an important role in identifying the most suitable regions for growing certain grape varieties, taking into account environmental factors (topography, soil, climate, rainfall). Aprovale coordinated actions between different participants in the wine chain. Ibravin acted on behalf of the wineries.” (Specialist, 2017). This coordination between different formal institutional agents was relevant in dealing with another challenge, the drop in tourist numbers due to the COVID-19 pandemic. For example, in 2019, the Vale dos Vinhedos received around 450,000 tourists, while in 2020 this number fell to 229,000 tourists[58,59]. The drop in tourist arrivals has led to multi-scalar cooperation: Aprovale as the local coordinator, the City Council as the executor of public policies, the State and Federal Governments as providers of credit and campaigns, and Sebrae/Embratur as promoters of innovation and marketing. This institutional network made it possible to reduce the impact of the crisis and speed up the recovery from 2021 onwards.

Therefore, on the one hand, cooperation has played an important role in the development of the wine tourism destination. On the other hand, it has contributed to constraining opportunistic behavior by establishing barriers to real estate speculation and large-scale hotel projects. These dynamics illustrate the paradoxical nature of cooperation, not only with regard to the interplay between competition and cooperation, but also in terms of its outcomes, which simultaneously foster tourism development while discouraging initiatives that could undermine the cultural and territorial identity of the region. In this way, the collective efforts of decades have been preserved.

4 Discussion

466 Coopetition has proven to be a relevant response to institutional threats and challenges,
467 particularly those arising from divergent interpretations of the benefits associated with the Vale
468 dos Vinhedos Geographical Indication. Wineries in the region engage in cooperative and
469 competitive behaviors simultaneously, although in distinct domains, in order to achieve
470 outcomes that would be unattainable individually, both in terms of market positioning and the
471 development of wine tourism. This collective strategy also produces positive externalities that
472 extend to other actors along the winemaking value chain. Evidence from Vale dos Vinhedos
473 thus supports the perspective advanced by [15], which frames coopetition not simply as a
474 deliberate managerial choice, but as a structural condition intrinsic to tourism destinations. As
475 emphasized in the tourism coopetition literature (e.g. [31,34], the shared use of resources,
476 destination reputation, and infrastructure renders cooperation unavoidable, even as competitive
477 dynamics in the marketplace persist. Nevertheless, wineries continue to display strongly
478 individualistic behavior, characterized by intense competition in the domestic market [11].
479 Such dynamics result in asymmetries between individual contributions and the benefits
480 captured by each winery, a pattern that may be partly explained by industry-specific cultural
481 traits that favor individual action [10]. Even so, there remains a broadly shared understanding
482 among stakeholders that collective initiatives generate greater long-term advantages than
483 isolated efforts, particularly in safeguarding the GI from pressures linked to real estate
484 development.

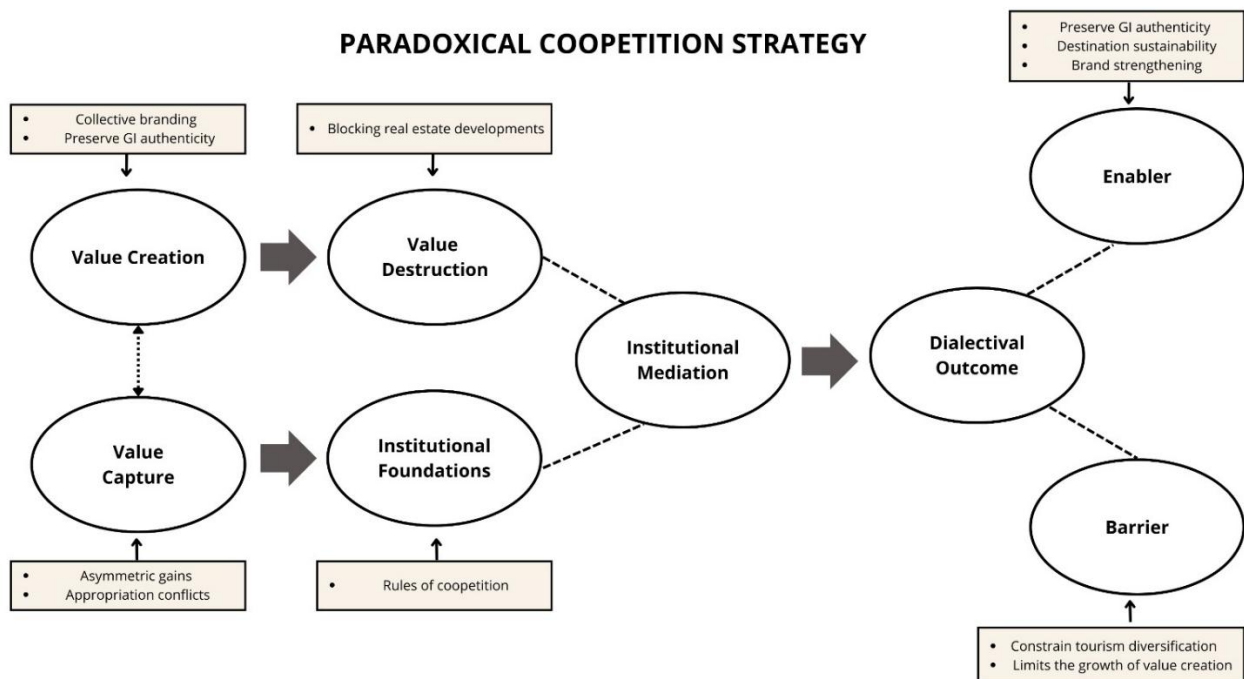
485 This study traced the collaborative efforts over the years to establish the GI, involving
486 wineries, sectoral organizations, universities, research centers, public administration, and
487 groups rooted in Italian ethnicity. The culmination of these efforts was the creation of the Vale
488 dos Vinhedos Indication of Origin, ensuring quality assurance [42]. However, the region now
489 faces a decision: maintaining its winemaking and tourism achievements or allowing further
490 development focused on real estate. This situation aligns with findings by Duarte Alonso et
491 al.[59], who highlighted the sustainable development potential of wine tourism.

492 The proposed framework (Figure 2) serves to analyse the paradoxical and dynamic
493 form that cooperative competition) scene presents in a tourism destination managed by GI. The
494 basic formation of collective branding by the actors, to assure the singularity and identity of a
495 quality product (dimension of value creation) that integrates a degree of specificity that
496 characterizes GI. But the other side of this cooperation would be value capture such as
497 asymmetric gains and appropriation conflict among some actors rather than most. And the
498 strategy may involve some value destruction that could be avoided: opposing real estate
499 developments that would diversify what is left of the local economy. There are three dynamic

500 values that are not linear but intersect each other: and often against, giving the paradoxical
 501 effectiveness of the strategy.

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Figure 2. Paradoxical Coopetition Strategy



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507 This process is structured and intermediated by institutional bases that so-called 'rules
 508 of the game' (both formal and informal). These rules govern the nature of competition and how
 509 costs and benefits of coopetition are shared. The result is dialectical two contradictory forces
 510 are set into play at once. On the one hand, the strategy becomes a facilitator in accurately
 511 maintaining the authenticity of GI and in achieving destination sustainability and enhancement
 512 initiatives for GI. On the other hand, it can be seen as a "breakwater" that controls tourism
 513 diversification and then limits opportunities for value added creation; this causes an intersystem
 514 contradiction between conservation and development.

515 The Vale dos Vinhedos has become a model for other regions, inspiring new
 516 winemaking projects and tourism investments across Brazil. The GI underscores the physical
 517 distinctions among wine regions, based on climate, soil, terrain, grape varieties, cultivation
 518 practices, and cultural factors, similar to traditional winemaking countries. This enhances the
 519 international reputation of Brazilian wines, strengthening their image, confidence, and
 520 recognition [55]. The region's perception of quality is also closely linked to wine tourism
 521 practices that emphasize co-creation of experiences [8, 47].

522

523 **5 Conclusions**

524

525 The objective of this study was to understand how coopetition can create barriers to
526 tourism through coopetition focused on collective interests that seek to preserve the identity of
527 a geographical indication. We found that GI constitutes a central driver of development in the
528 Vale dos Vinhedos, whether economic, social, or environmental, by increasing winemaking
529 activity in conjunction with fine wine dining, with hospitality, with winemaking equipment
530 and supplies, and with the Vale's cultural heritage. However, this movement is also creating a
531 need for increased public and private infrastructure, increasing the feeling of community
532 belonging, and appreciation of the value of the material and immaterial heritage of the
533 territories of the geographical indications.

534 As such, coopetition has played a relevant role while, at the same time, impeding
535 development of tourism through real estate projects. To stop this uncontrolled expansion,
536 wineries and formal institution agents established a coopetition strategy to block the entry of
537 new ventures such as hotels and timeshare resorts that could distort the region's character. For
538 instance, Formal Institution Agent 8 warns that the sustainable development of the region is
539 threatened, both in the sense that increasing the accommodation supply in the Vale dos
540 Vinhedos is an insufficient argument to justify planning approval for new real estate
541 developments, and also in relation to degradation of the vineyard landscape and the impact on
542 wine tourism. Therefore, coopetition has also made it possible to face up to institutional threats
543 and difficulties, mainly those arising from different perspectives based on understanding the
544 gains for association members from the Vale dos Vinhedos GI, but that can slow tourism
545 development in the region.

546 The study showed that coopetition in Vale dos Vinhedos is a paradoxical strategy. On
547 the one hand, it is fundamental to the establishment and maintenance of the Geographical
548 Indication (GI), crucial for promoting economic, social, and environmental development
549 through wine tourism; on the other hand, it also plays a role in reinforcing social identity at the
550 regional level. Thus, this logic also creates obstacles to tourism development, preventing the
551 diversification of demand for new real estate offerings (hotels, resorts), perceived as a threat to
552 the authenticity of the wine landscape. The study shows how "coopetition" protects the GI from
553 institutional threats and unrestricted real estate proliferation (which are likely to lead to
554 overexploitation), while it can further restrict the possibilities for creating added value for the
555 benefit of the tourist destination, leading to a conflict between conservation and development.

556 Despite its contributions, this study does have limitations. First, the investigation took
557 place in a single destination, but as this is the most important wine-producing region in Brazil,
558 the research could be easily expanded in the future to encompass other such regions. Second,
559 it is necessary to collect more perspectives from representatives of real estate developers,
560 hotels, and other tourism businesses to evaluate different perceptions about the challenge of
561 steering between promoting the region's development and preserving the region's
562 characteristics.

563 For future research, we suggest analyzing the dynamics of coopetition in other Brazilian
564 wine regions that have obtained or are seeking a GI, from which management models and
565 balances between conservation and creation values can be inferred. Furthermore, it would be
566 interesting to contribute with research that considers the percentage of agents from the real
567 estate and/or hotel sectors, analyzing how different actors perceive the challenges and growth
568 potential in the region and how coopetition strategies among them could become more
569 inclusive to seek to preserve the GI identity while simultaneously achieving efficient economic
570 diversification.

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