

Sustainability Analysis of Olive Oil PDOs in Catalonia, an application of the SAFA method.

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Food Quality Scheme



Impact

- Economic
- Social
- Environmental
- Governance

Monitoring the impact



- Holistic perspective
- Secondary database sources
- Replicability
- Easy for interpretation

SSI-IG

SAFA

- 116 indicators
- 26 economic
 - 19 social
 - 52 environmental
 - 19 governance

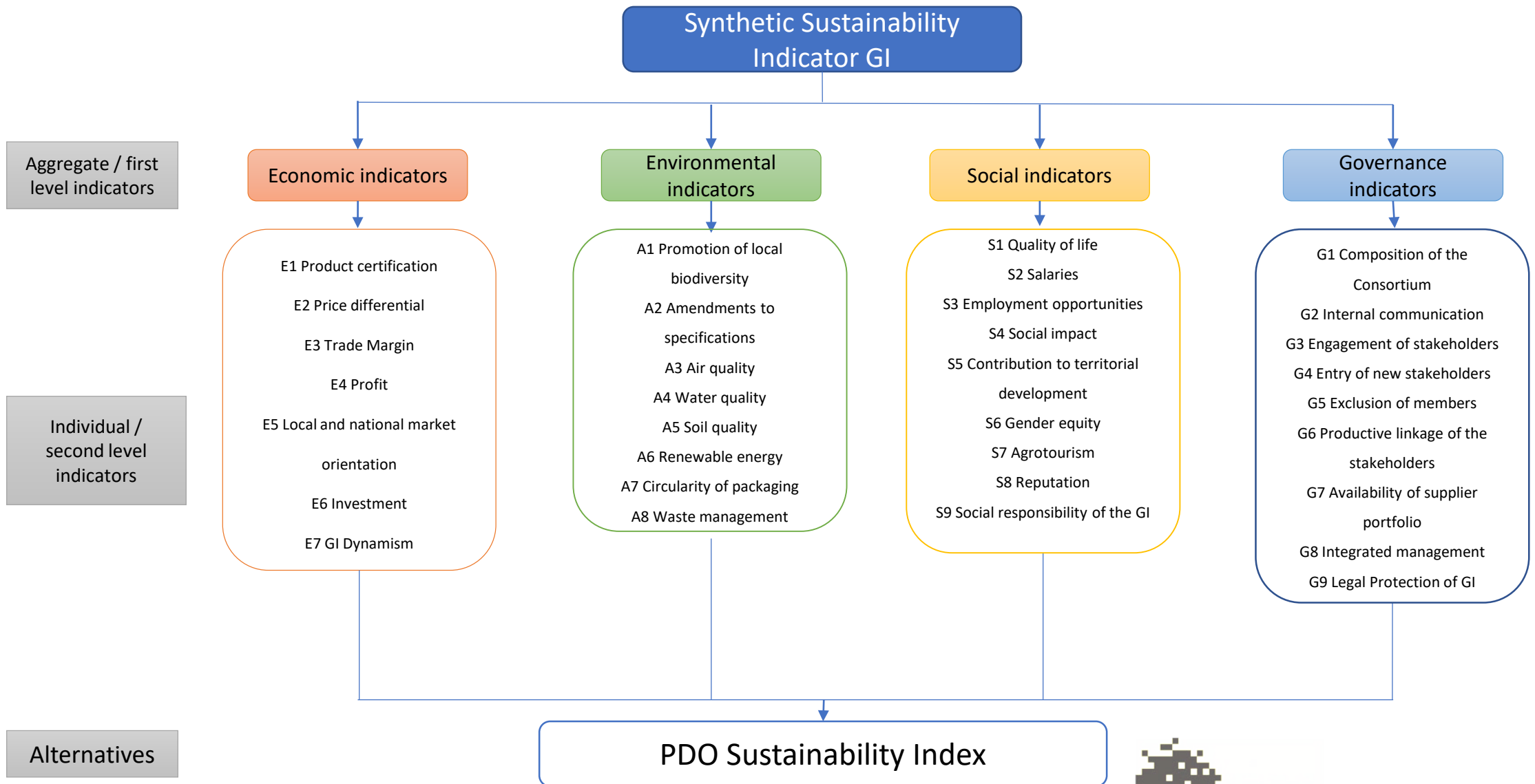
- 35 indicators
- 7 economic
 - 9 social
 - 8 environmental
 - 11 governance

Fuzzy AHP

- Flexibility
- development of synthetic indicators
- Participatory tool
- Weighting of indicators
- Considers vagueness and imprecision
- Sample size

secondary databases

- Spanish Ministry of Agriculture
- Catalan Department of Agriculture
- Iberian Balance Sheet Analysis System (SABI)
- Catalan Register of Cooperatives
- Catalan Institute of Statistics (IDESCAT)
- Survey

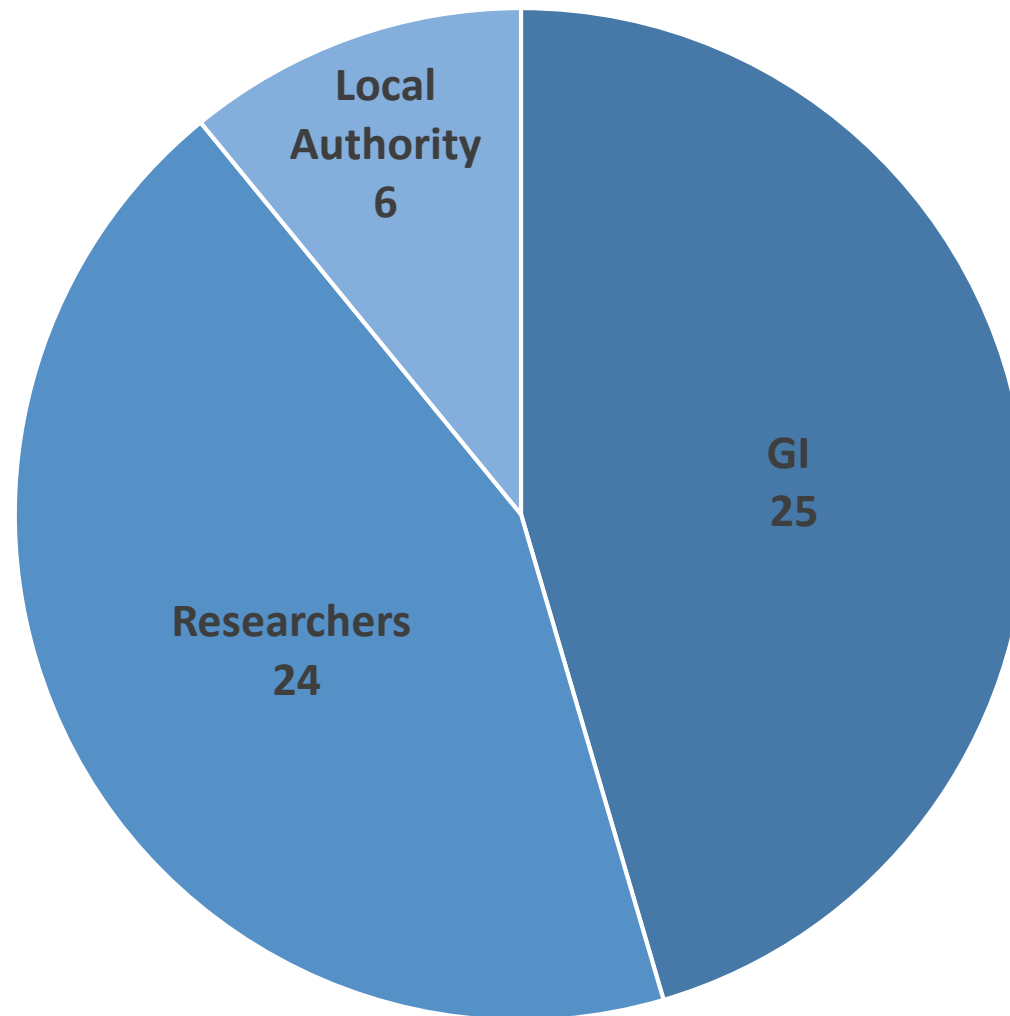


Aggregate / first level indicators

Individual / second level indicators

Alternatives

PDO Sustainability Index

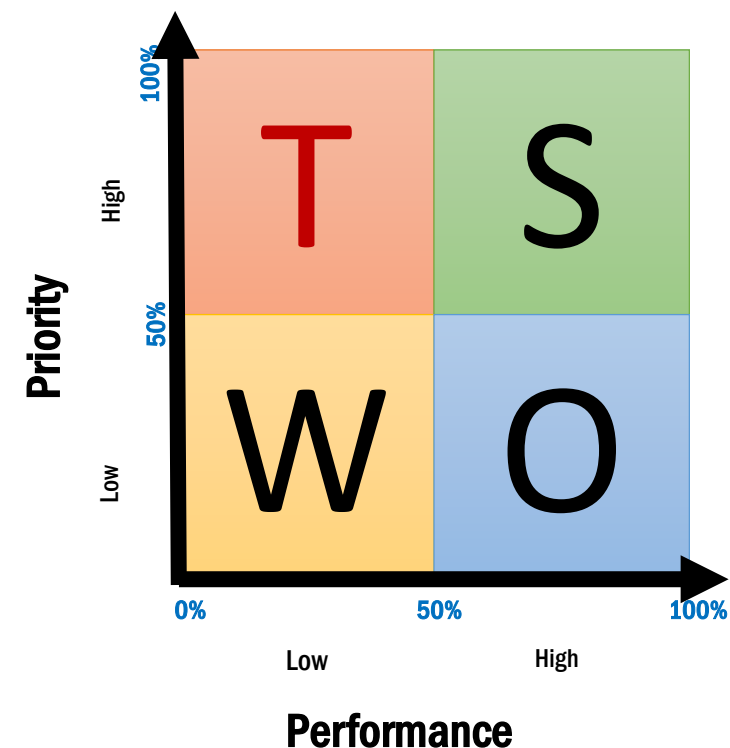


Economic Pillar	40,88%
Social Pillar	21,37%
Environmental Pillar	20,07%
Governance Pillar	17,68%

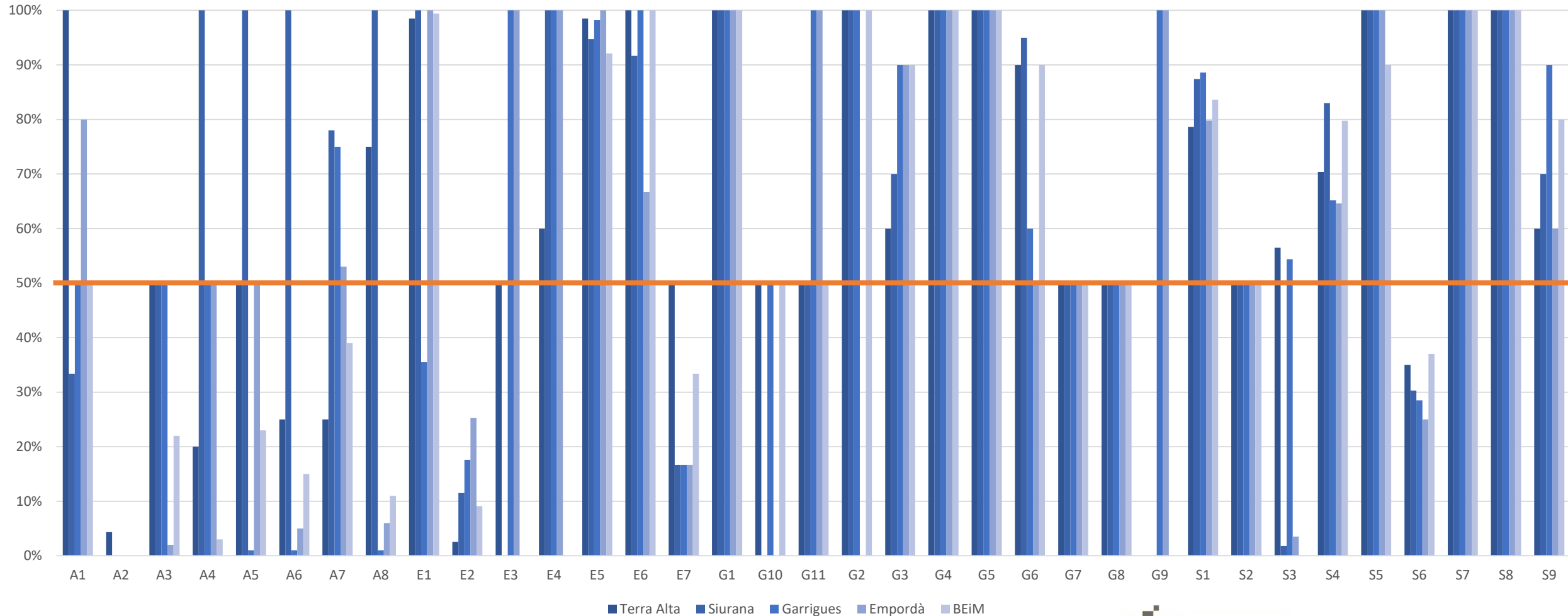
SSI-IG

E5 Local and national market orientation	10,00%
E3 Trade Margin	9,10%
E2 Price differential	6,43%
E1 Product certification	5,60%
E4 Profit	4,74%
A1 Promotion of local biodiversity	4,46%
S1 Quality of life	3,88%
G9 Legal Protection of GI	3,67%
S8 Reputation	3,47%
S9 Social responsibility of the GI	3,37%
S3 Employment opportunities	3,34%
A2 Amendments to specifications	3,27%
A8 Waste management	3,15%
A4 Water quality	3,11%
G3 Engagement of stakeholders	3,11%
E7 GI Dynamism	2,97%
A5 Soil quality	2,25%

G2 Internal communication	2,22%
S5 Contribution to territorial development	2,22%
G10 Integration and training of the registered members	2,08%
E6 Investment	2,04%
A7 Circularity of packaging	1,98%
G1 Composition of the Consortium	1,93%
G8 Integrated management	1,89%
S2 Salaries	1,74%
S7 Agrotourism	1,49%
S4 Social impact	1,28%
A3 Air quality	0,95%
A6 Renewable energy	0,90%
G11 Vulnerability Management of the Consortium	0,75%
G5 Exclusion of members	0,71%
G4 Entry of new stakeholders	0,64%
S6 Gender equity	0,58%
G6 Productive linkage of the stakeholders	0,52%
G7 Availability of supplier portfolio	0,15%



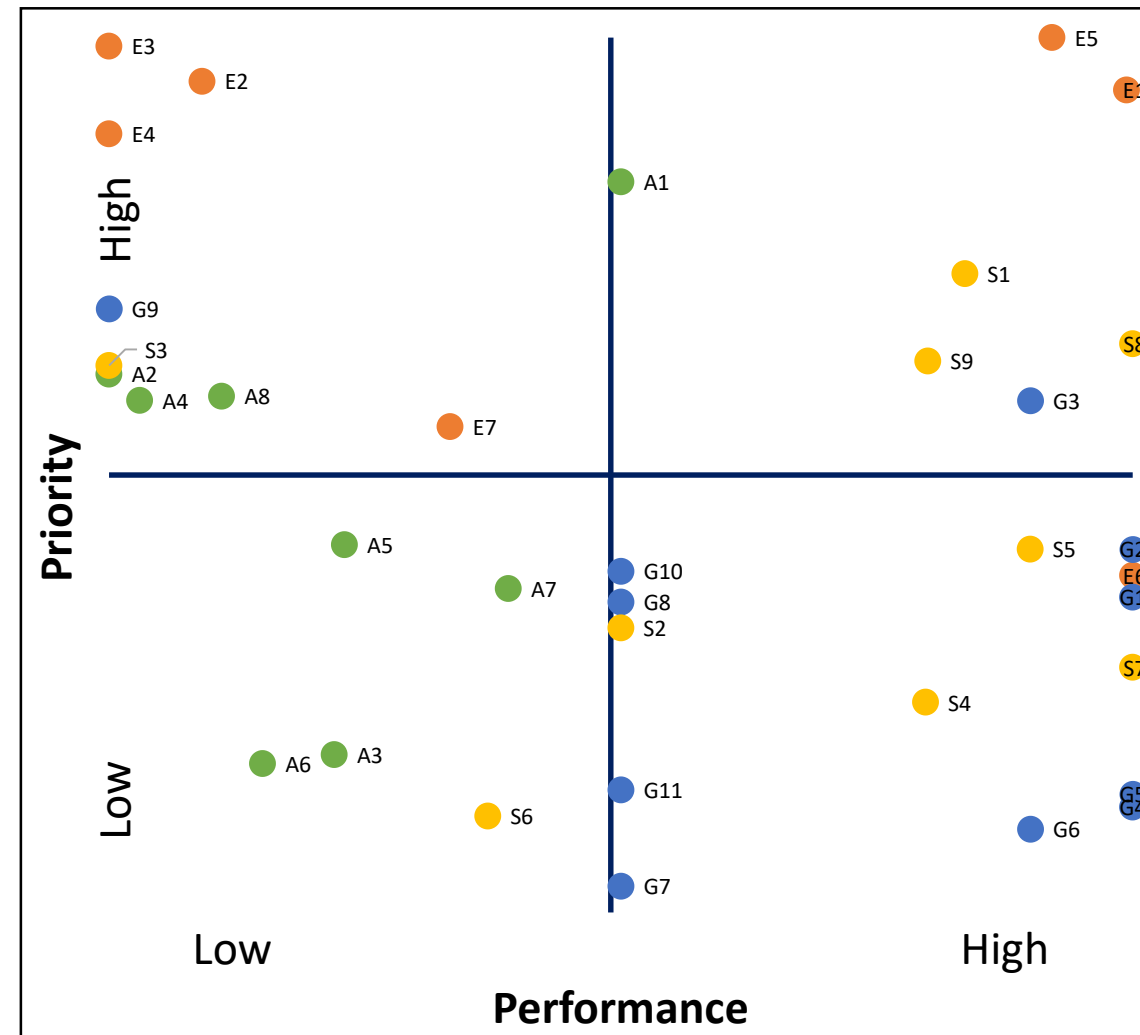
Results. Performance



PDO Baix Ebre i Montsià SSI 48,90

Economic Pillar	37,61%
Social Pillar	30,68%
Governance Pillar	22,91%
Environmental Pillar	8,80%

E5 Local and national market orientation	9,21%	G5 Exclusion of members	0,71%
E1 Product certification	5,57%	G4 Entry of new stakeholders	0,64%
S8 Reputation	3,47%	E2 Price differential	0,58%
S1 Quality of life	3,24%	A5 Soil quality	0,52%
G3 Engagement of stakeholders	2,80%	G6 Productive linkage of the stakeholders	0,47%
S9 Social responsibility of the GI	2,70%	G11 Vulnerability Management of the Consortium	0,38%
A1 Promotion of local biodiversity	2,23%	A8 Waste management	0,35%
G2 Internal communication	2,22%	S6 Gender equity	0,21%
E6 Investment	2,04%	A3 Air quality	0,21%
S5 Contribution to territorial development	2,00%	A6 Renewable energy	0,14%
G1 Composition of the Consortium	1,93%	A4 Water quality	0,09%
S7 Agrotourism	1,49%	G7 Availability of supplier portfolio	0,08%
G10 Integration and training of the registered members	1,04%	A2 Amendments to specifications	0,00%
S4 Social impact	1,02%	E3 Trade Margin	0,00%
E7 GI Dynamism	0,99%	E4 Profit	0,00%
G8 Integrated management	0,95%	G9 Legal Protection of GI	0,00%
S2 Salaries	0,87%	S3 Employment opportunities	0,00%
A7 Circularity of packaging	0,77%		

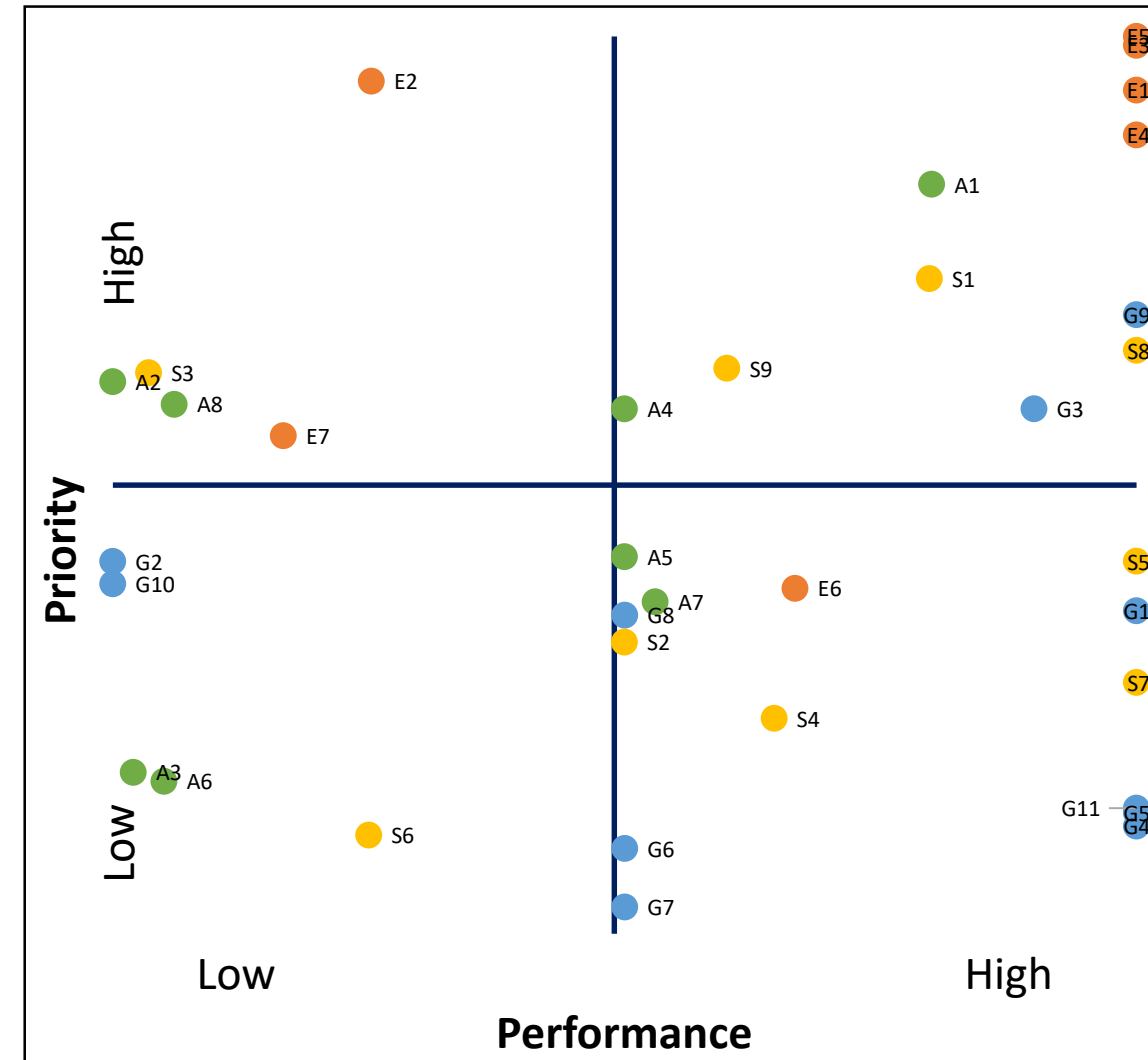


PDO Empordà

SSI 66,51

Economic Pillar	49,50%
Social Pillar	21,44%
Governance Pillar	17,71%
Environmental Pillar	11,35%

E5 Local and national market orientation	10,00%	G8 Integrated management	0,95%
E3 Trade Margin	9,10%	S2 Salaries	0,87%
E1 Product certification	5,60%	S4 Social impact	0,83%
E4 Profit	4,74%	G11 Vulnerability Management of the Consortium	0,75%
G9 Legal Protection of GI	3,67%	G5 Exclusion of members	0,71%
A1 Promotion of local biodiversity	3,57%	G4 Entry of new stakeholders	0,64%
S8 Reputation	3,47%	E7 GI Dynamism	0,50%
S1 Quality of life	3,10%	G6 Productive linkage of the stakeholders	0,26%
G3 Engagement of stakeholders	2,80%	A8 Waste management	0,19%
S5 Contribution to territorial development	2,22%	S6 Gender equity	0,15%
S9 Social responsibility of the GI	2,02%	S3 Employment opportunities	0,12%
G1 Composition of the Consortium	1,93%	G7 Availability of supplier portfolio	0,08%
E2 Price differential	1,62%	A6 Renewable energy	0,05%
A4 Water quality	1,56%	A3 Air quality	0,02%
S7 Agrotourism	1,49%	A2 Amendments to specifications	0,00%
E6 Investment	1,36%	G10 Integration and training of the registered members	0,00%
A5 Soil quality	1,13%	G2 Internal communication	0,00%
A7 Circularity of packaging	1,05%		

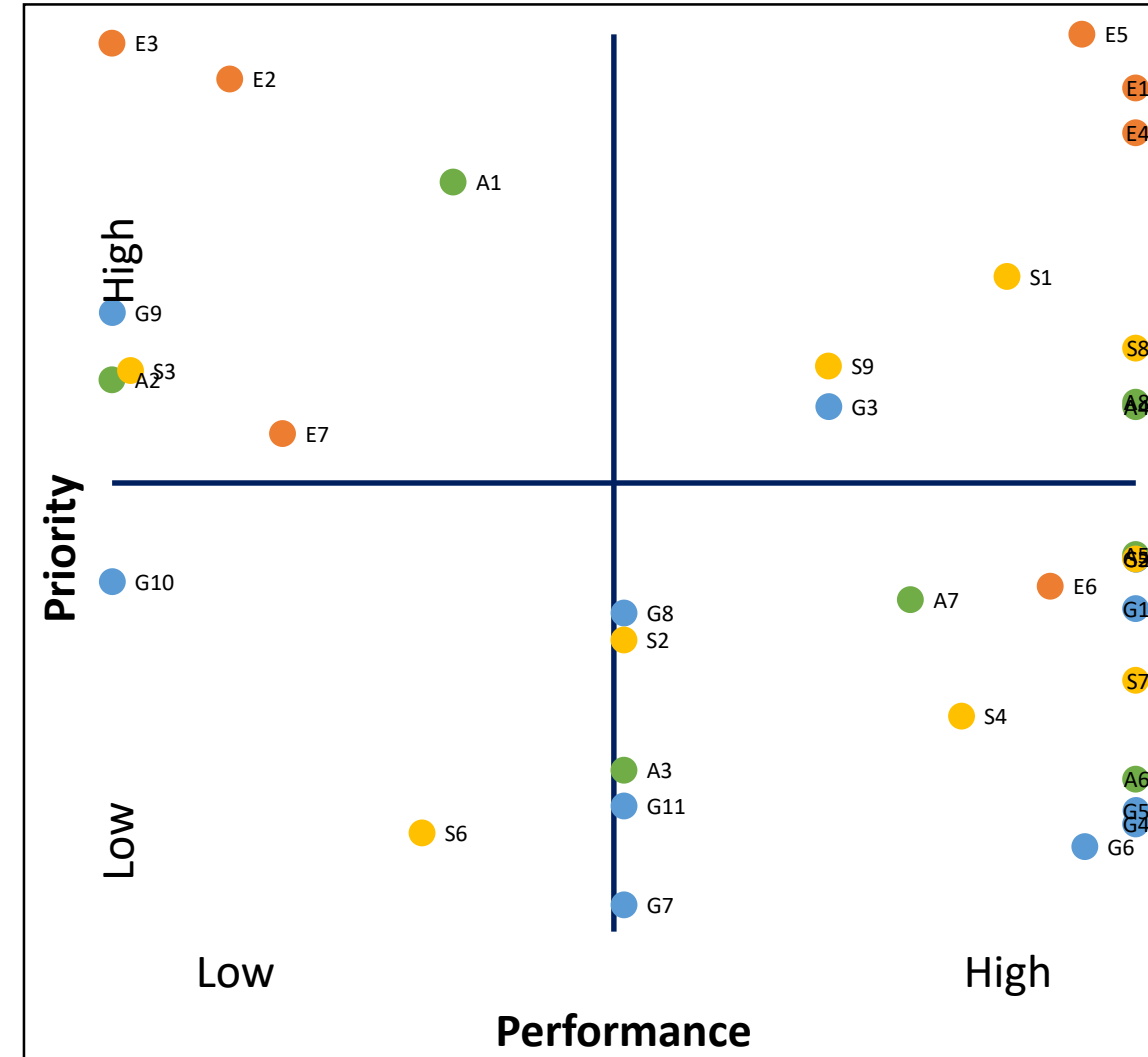


PDO Siurana

SSI 60,50

Economic Pillar	37,88%
Social Pillar	24,96%
Environmental Pillar	21,35%
Governance Pillar	15,81%

E5 Local and national market orientation	9,47%	G8 Integrated management	0,95%
E1 Product certification	5,60%	A6 Renewable energy	0,90%
E4 Profit	4,74%	S2 Salaries	0,87%
S8 Reputation	3,47%	E2 Price differential	0,74%
S1 Quality of life	3,39%	G5 Exclusion of members	0,71%
A8 Waste management	3,15%	G4 Entry of new stakeholders	0,64%
A4 Water quality	3,11%	E7 GI Dynamism	0,50%
S9 Social responsibility of the GI	2,36%	G6 Productive linkage of the stakeholders	0,49%
A5 Soil quality	2,25%	A3 Air quality	0,48%
G2 Internal communication	2,22%	G11 Vulnerability Management of the Consortium	0,38%
S5 Contribution to territorial development	2,22%	S6 Gender equity	0,18%
G3 Engagement of stakeholders	2,18%	G7 Availability of supplier portfolio	0,08%
G1 Composition of the Consortium	1,93%	S3 Employment opportunities	0,06%
E6 Investment	1,87%	A2 Amendments to specifications	0,00%
A7 Circularity of packaging	1,54%	E3 Trade Margin	0,00%
S7 Agrotourism	1,49%	G10 Integration and training of the registered members	0,00%
A1 Promotion of local biodiversity	1,49%	G9 Legal Protection of GI	0,00%
S4 Social impact	1,06%		

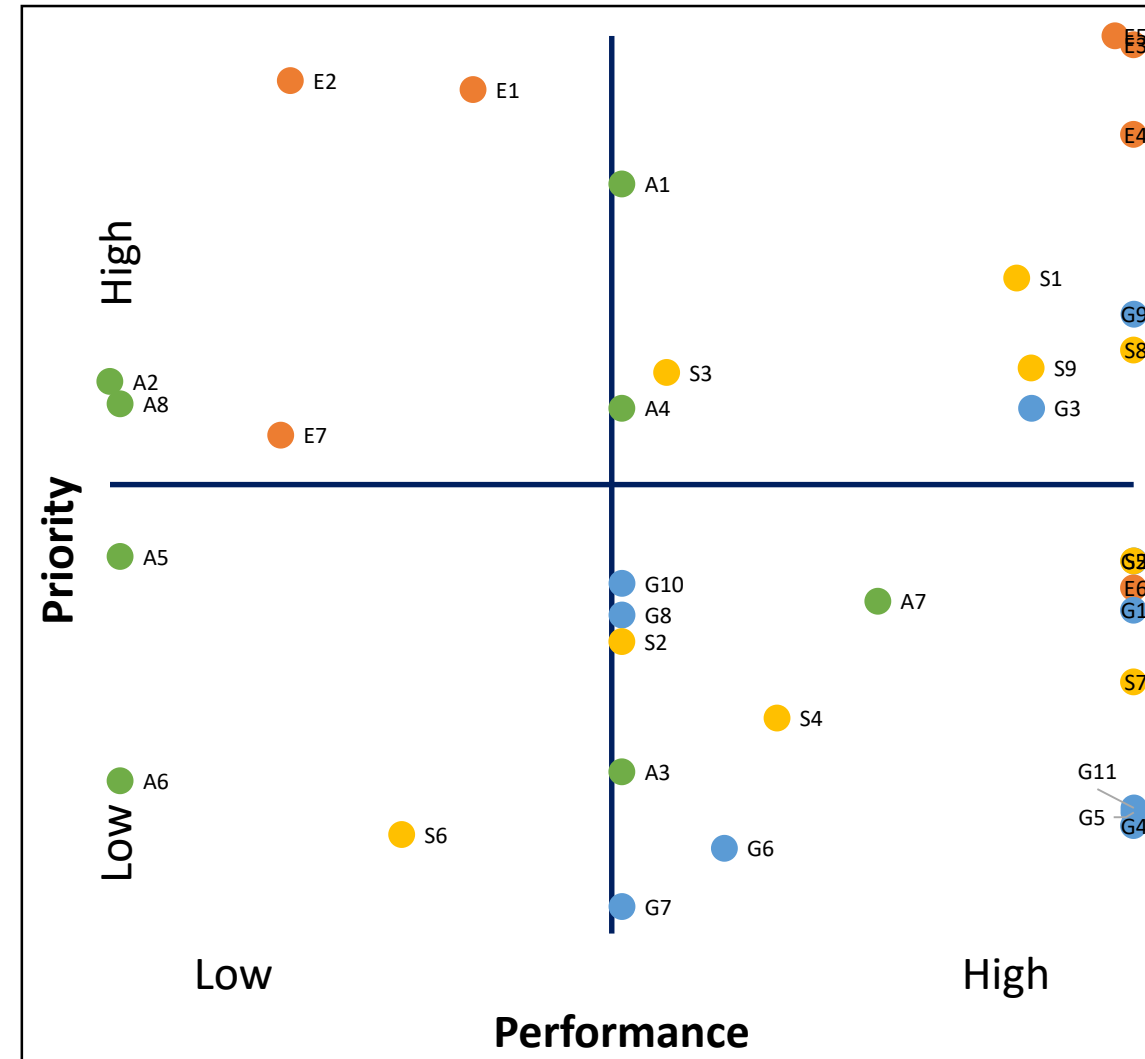


PDO Garrigues

SSI 67,55

Economic Pillar	43,40%
Social Pillar	25,67%
Governance Pillar	22,34%
Environmental Pillar	8,60%

E5 Local and national market orientation	9,82%	E2 Price differential	1,13%
E3 Trade Margin	9,10%	G10 Integration and training of the registered members	1,04%
E4 Profit	4,74%	G8 Integrated management	0,95%
G9 Legal Protection of GI	3,67%	S2 Salaries	0,87%
S8 Reputation	3,47%	S4 Social impact	0,83%
S1 Quality of life	3,44%	G11 Vulnerability Management of the Consortium	0,75%
S9 Social responsibility of the GI	3,03%	G5 Exclusion of members	0,71%
G3 Engagement of stakeholders	2,80%	G4 Entry of new stakeholders	0,64%
A1 Promotion of local biodiversity	2,23%	E7 GI Dynamism	0,50%
G2 Internal communication	2,22%	A3 Air quality	0,48%
S5 Contribution to territorial development	2,22%	G6 Productive linkage of the stakeholders	0,31%
E6 Investment	2,04%	S6 Gender equity	0,17%
E1 Product certification	1,99%	G7 Availability of supplier portfolio	0,08%
G1 Composition of the Consortium	1,93%	A8 Waste management	0,03%
S3 Employment opportunities	1,82%	A5 Soil quality	0,02%
A4 Water quality	1,56%	A6 Renewable energy	0,01%
S7 Agrotourism	1,49%	A2 Amendments to specifications	0,00%
A7 Circularity of packaging	1,49%		

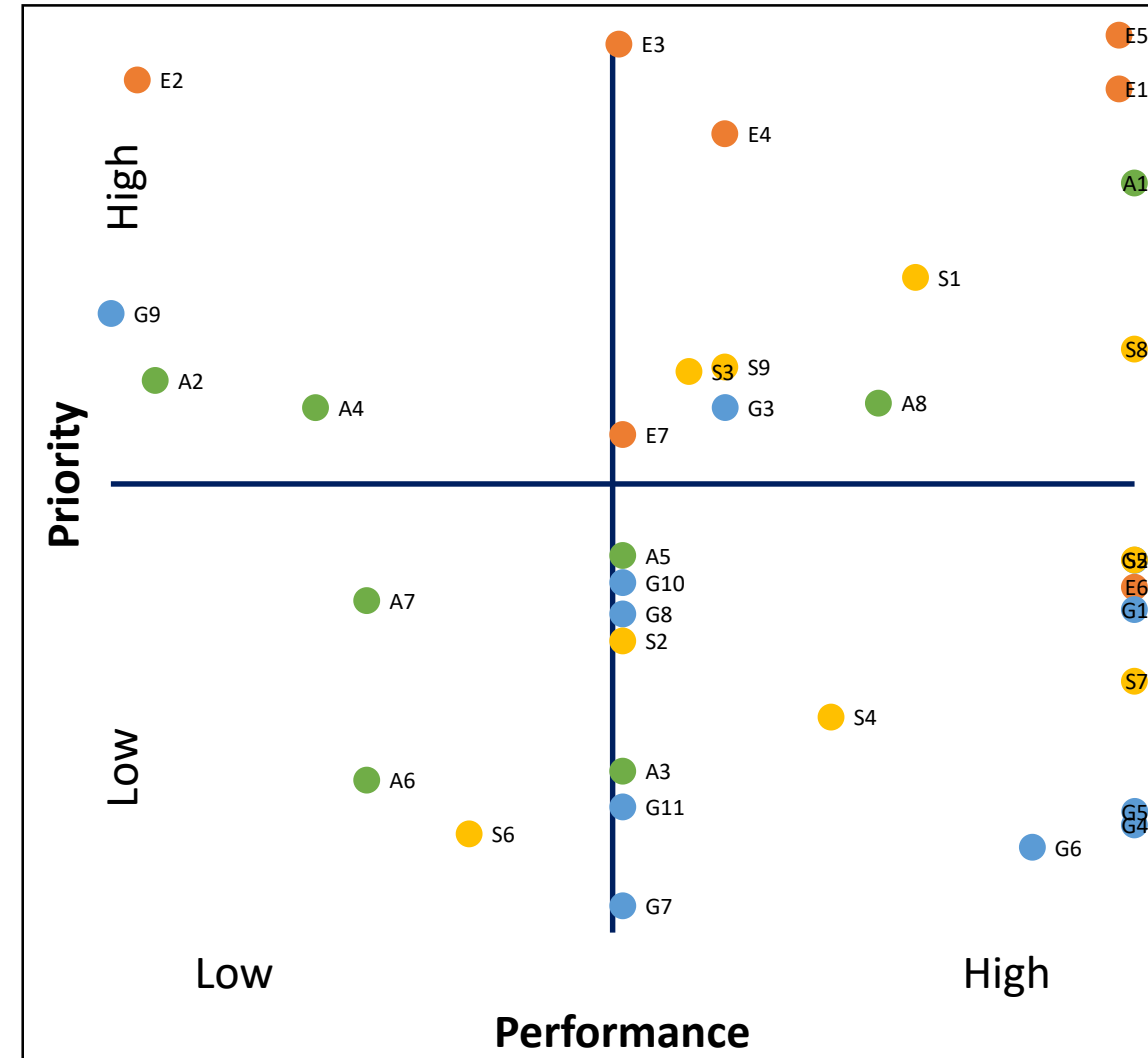


PDO Terra Alta

SSI 62,70

Economic Pillar	42,13%
Social Pillar	25,70%
Governance Pillar	16,38%
Environmental Pillar	15,80%

E5 Local and national market orientation	9,85%	G10 Integration and training of the registered members	1,04%
E1 Product certification	5,52%	G8 Integrated management	0,95%
E3 Trade Margin	4,52%	S4 Social impact	0,90%
A1 Promotion of local biodiversity	4,46%	S2 Salaries	0,87%
S8 Reputation	3,47%	G5 Exclusion of members	0,71%
S1 Quality of life	3,05%	G4 Entry of new stakeholders	0,64%
E4 Profit	2,84%	A4 Water quality	0,62%
A8 Waste management	2,36%	A7 Circularity of packaging	0,50%
G2 Internal communication	2,22%	A3 Air quality	0,48%
S5 Contribution to territorial development	2,22%	G6 Productive linkage of the stakeholders	0,47%
E6 Investment	2,04%	G11 Vulnerability Management of the Consortium	0,38%
S9 Social responsibility of the GI	2,02%	A6 Renewable energy	0,23%
G1 Composition of the Consortium	1,93%	S6 Gender equity	0,20%
S3 Employment opportunities	1,89%	E2 Price differential	0,17%
G3 Engagement of stakeholders	1,87%	A2 Amendments to specifications	0,14%
S7 Agrotourism	1,49%	G7 Availability of supplier portfolio	0,08%
E7 GI Dynamism	1,49%	G9 Legal Protection of GI	0,00%
A5 Soil quality	1,13%		



Conclusions

- We offer a flexible, simple, and replicable approach.
- It uses in the collection of secondary information and consortia.
- Easy monitoring
- A tool that allows monitoring the evolution of each indicator.
- Holistic sustainability analysis with an institutional perspective.

Thank you for your attention!