

Maps and Indicators of Rural Development Measures, potentially related to Agroforestry, across the EU (2007-2013)

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Work-package	8: Agroforestry Policy Development
Milestone	Milestone 36 (8.1) Maps and indicators of Rural Development Measures, potentially related to Agroforestry, across the EU (2007-2013)
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AGFORWARD (Grant Agreement N° 613520) is co-funded by the European Commission, Directorate General for Research & Innovation, within the 7th Framework Programme of RTD. The views and opinions expressed in this report are purely those of the writers and may not in any circumstances be regarded as stating an official position of the European Commission.

1 Context

The AGFORWARD research project (January 2014-December 2017), funded by the European Commission, is promoting agroforestry practices in Europe that will advance sustainable rural development. The project has four objectives:

1. to understand the context and extent of agroforestry in Europe;
2. to identify, develop and field-test innovations (through participatory research) to improve the benefits and viability of agroforestry systems in Europe;
3. to evaluate innovative agroforestry designs and practices at a field-, farm- and landscape scale, and
4. to promote the wider adoption of appropriate agroforestry systems in Europe through policy development and dissemination.

This report contributes to the fourth objective in relation to policy development. This document reports the completion of Milestone 36 (8.1) which is a series of maps and indicators of agroforestry policies across the EU.

2 Description of Rural Development Measures

Agroforestry can be promoted in a number of ways. The options for support through the EU Rural Development Programme include Measure 222 which supports the establishment of agroforestry plantations. However support is not limited to Measure 222. In order to provide a foundation for a review of agroforestry policies, a review was undertaken of the full set of rural development measures (Table 1) implemented from 2007 to 2013.

The data for the review was obtained from the national data sheets reported by European Commission (2014). During early 2015, Javier Santiago-Freijanes at the University of Santiago de Compostela produced maps (as .png files) showing the extent of each measures. These maps have been stored on the internal AGFORWARD intranet set under Milestone 38. The data have also been stored as a database using Google maps (Santiago-Freijanes, 2015).

This report briefly presents some of the key maps that have been produced. The maps of the regions and states that budgeted for and implemented each measure are shown in Appendix A. Appendix B shows the proportion of the budgeted expenditure that was implemented for selected measures.

Table 1. There are a wide range of rural development measures

111 Vocational training and information actions
112 Setting up of young farmers
113 Early retirement
114 Use of advisory services
115 Setting up of management, relief and advisory services
121 Modernisation of agricultural holdings
122 Improvement of the economic value of forests
123 Adding value to agricultural and forestry products
124 Cooperation for development of new products, processes and tech
125 Infrastructure related to the development and adaptation of agriculture and forestry
126 Restoring agricultural production potential
131 Meeting standards based on EU legislation
132 Participation of farmers in food quality schemes
133 Information and promotion activities
141 Semi-subsistence farming
142 Producer groups
143 Providing farm advisory and extension services
144 Holdings undergoing restructuring due to a reform of a common market organisation
211 Natural handicap payments to farmers in mountain areas
212 Payments to farmers in areas with handicaps, other than mountain areas
213 Natura 2000 payments and payments linked to Directive 2000_60_EC
214 Agri-environment payments
215 Animal welfare payments
216 Non-productive investments
221 First afforestation of agricultural land
222 First establishment of agroforestry systems on agricultural land
223 First afforestation of non-agricultural land
224 Natura 2000 payments
225 Forest-environment payments
226 Restoring forestry potential and introducing prevention actions
227 Non-productive investments
311 Diversification into non-agricultural activities
312 Support for business creation and development
313 Encouragement of tourism activities
321 Basic services for the economy and rural population
322 Village renewal and development
323 Conservation and upgrading of the rural heritage
331 Training and information
341 Skills-acquisition and animation measure with a view to preparing and implementing a local development strategy
411 Competitiveness
412 Environment/land management
413 Quality of life/diversification
421 Implementing cooperation projects
431 Quality of life/diversification
511 Technical assistance
611 Complimentary direct payments

3 Measures specifically relevant to agroforestry

Measure 222 supports the establishment of agroforestry on agricultural land and, from 2007 to 2013; it was supported in France, Northern Ireland, and Northern Belgium (Figure 1). Measure 323 (Conservation and upgrading of the rural heritage) was used to support agroforestry measures in North West Germany (Figure 1).

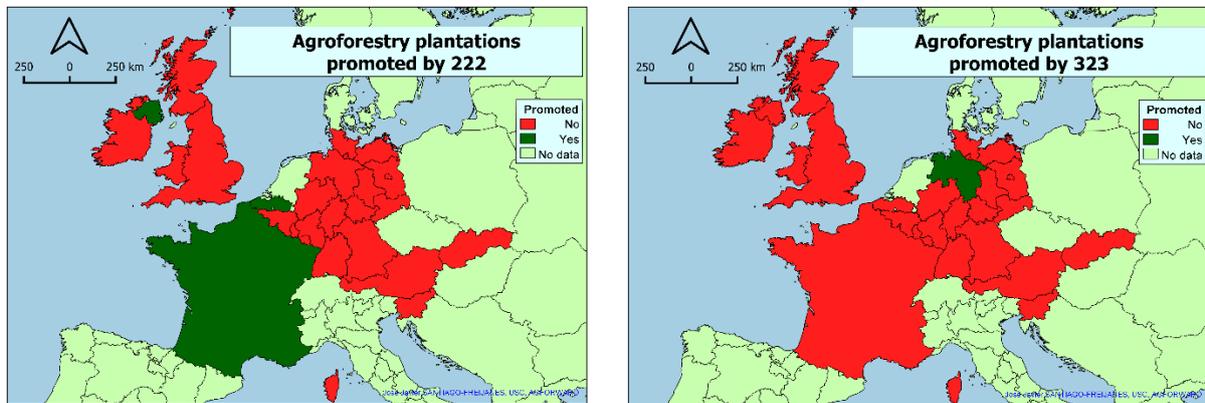


Figure 1. Measures to promote agroforestry through Measures 222 and 323

Agroforestry can also be supported through measures that support apiculture (Figure 2). For example Italy, Portugal and Spain supported apiculture either through the rural development measure 214 or the modernisation of agricultural holdings measure 121.

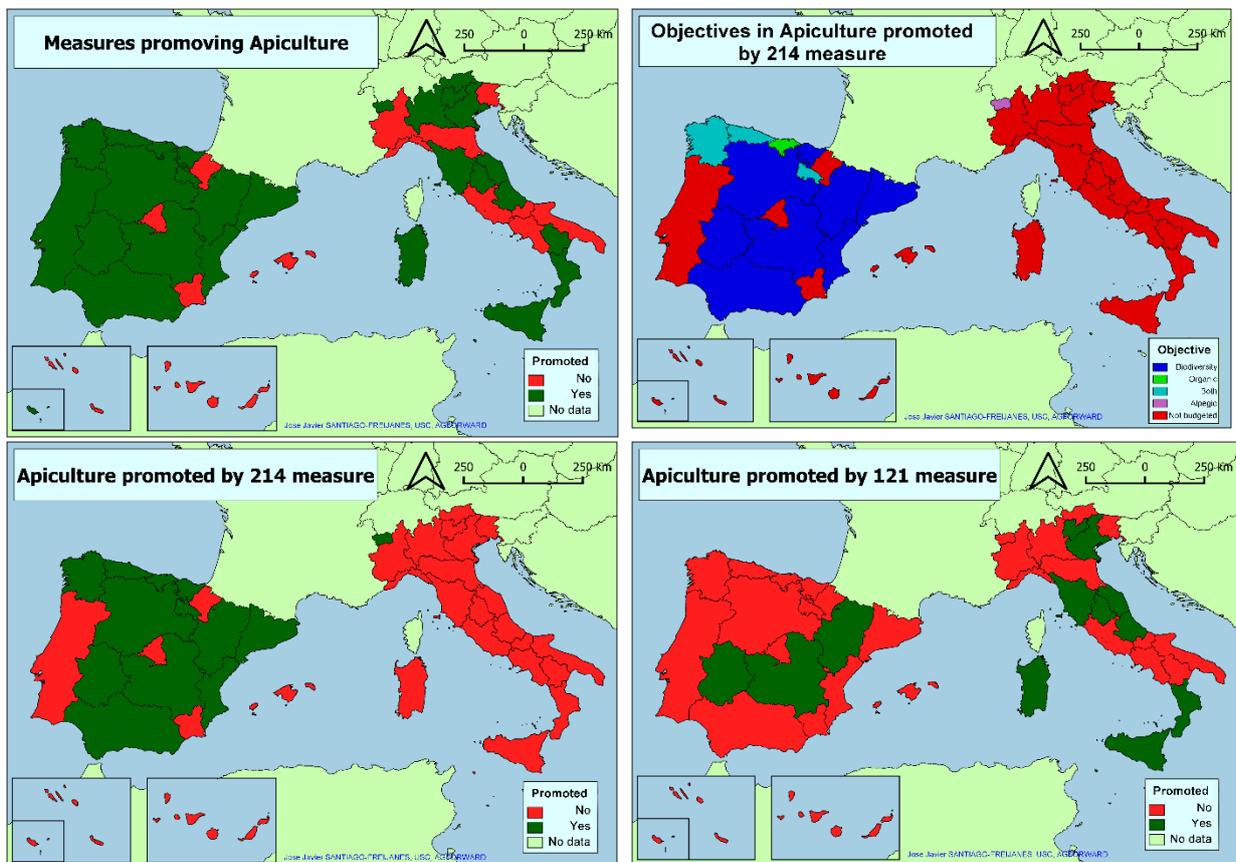


Figure 2. Apiculture has been supported in Italy, Spain and Portugal

Agroforestry was also supported through measures that promote understorey grazing in parts of Germany, Spain, Portugal, and Germany (Figure 3). Measures that support small stands or forest strips (as in Belgium, Northern Ireland, Germany, and Belgium) can also support agroforestry (Figure 4).

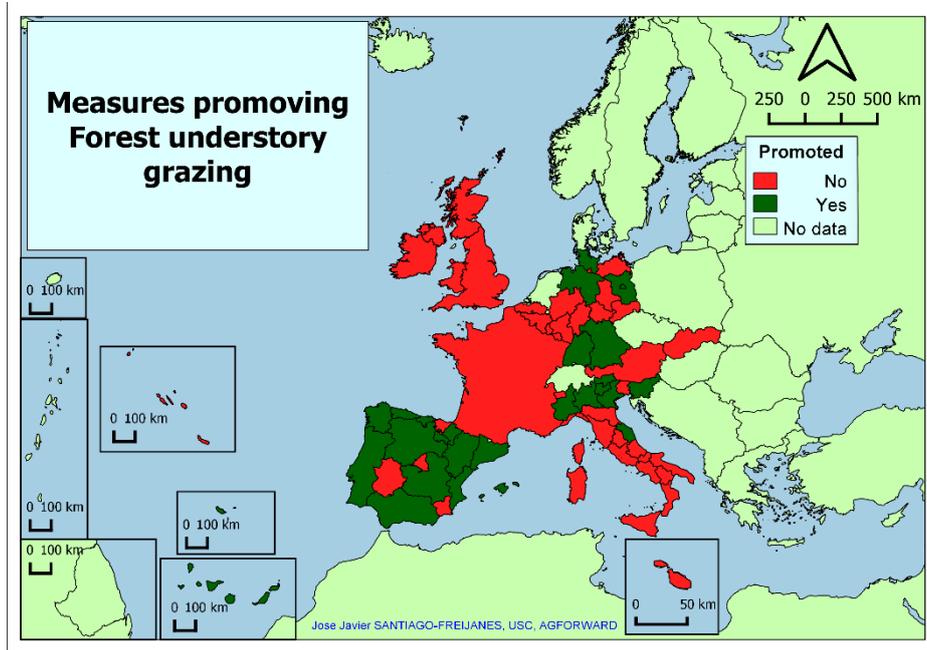


Figure 3. Agroforestry can be supported by measures which promote understorey grazing

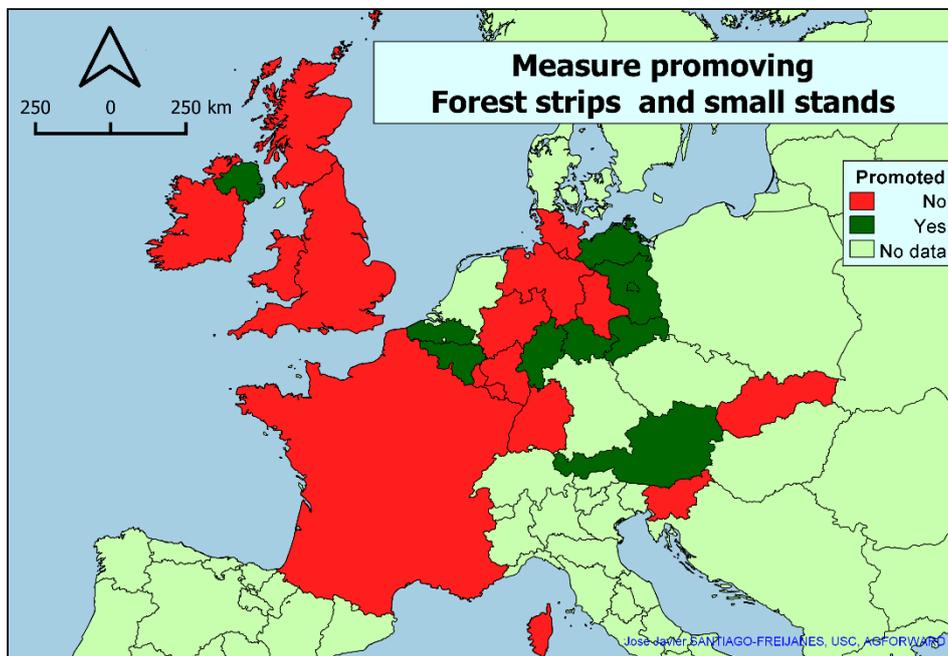


Figure 4. Agroforestry can be supported by measures which promote forest strips

Agroforestry (the integrating of trees with farming) was also supported through measures that support hedgerows. This can be either through the 214 agri-environment measure or Measure 216 that covers non-productive investments (Figure 5).

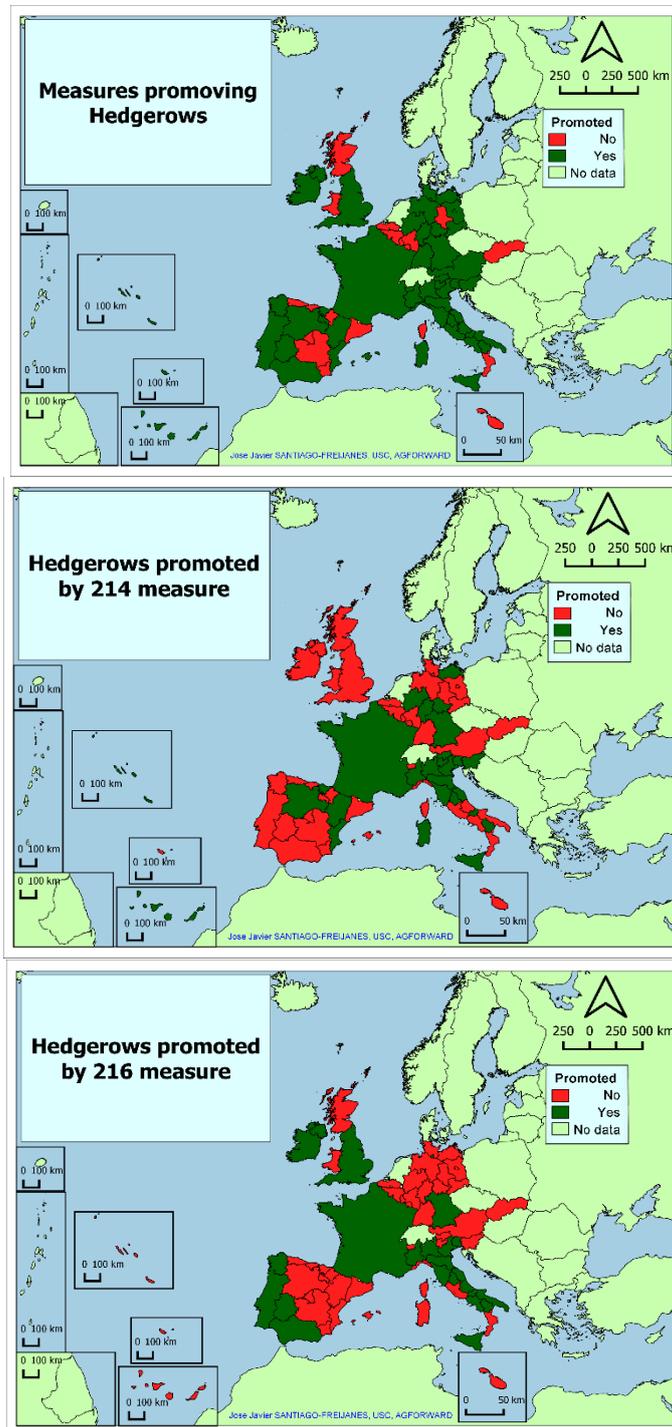


Figure 5. Some countries have implemented measures that support hedgerows either through agri-environment measure 214 or the measure 216 which deals with non-productive investments

Another measure that can be used to support agroforestry are measures promoting isolated trees or meadow orchards (Figure 6).

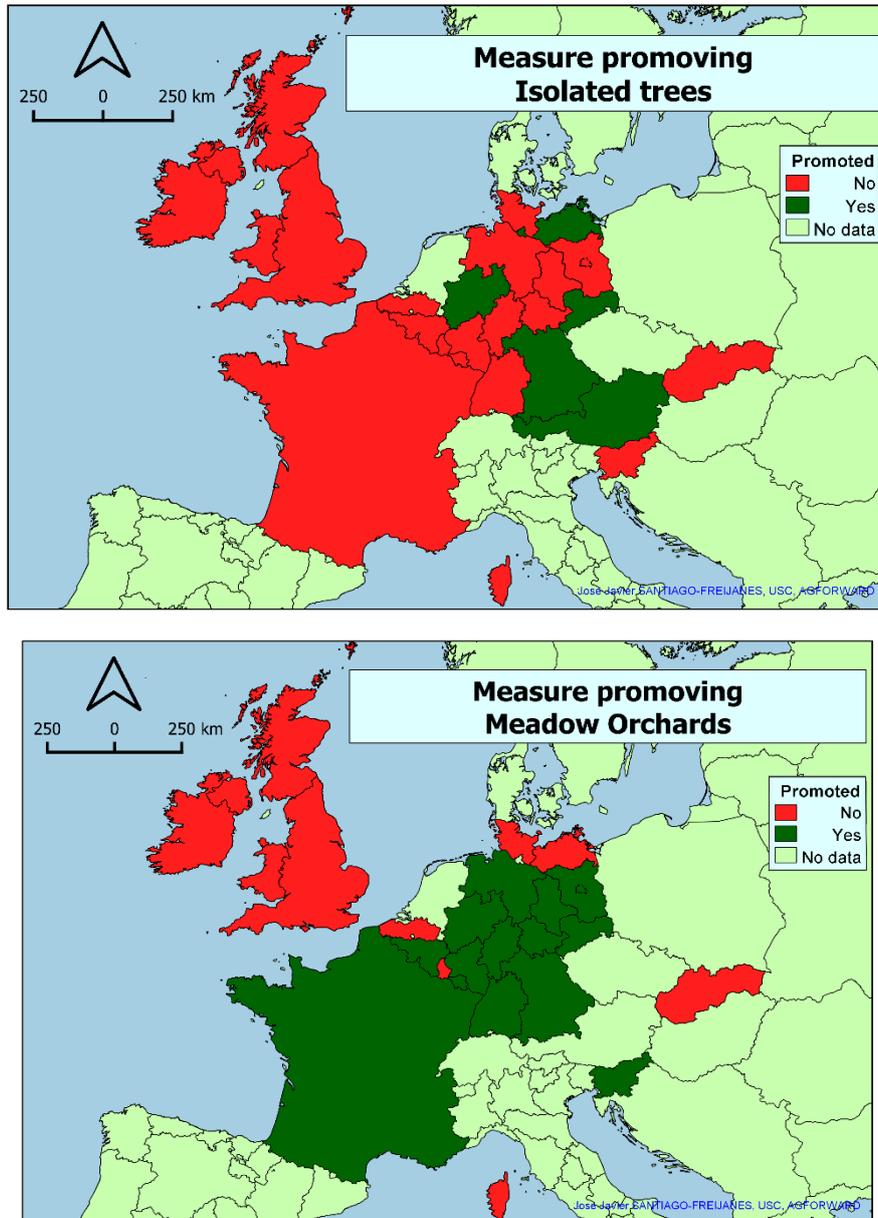


Figure 6. There are measures to support individual trees and meadow orchards in Germany, Austria and France

4 Number of measures budgeted and implemented

The number of measures (covering all rural development issues and not just agroforestry) undertaken in each region or state range from less than 21 in Ireland to over 33 in France, Hungary and parts of Italy and Spain (Figure 7). The number of measures implemented tends to be marginally lower (Figure 8).

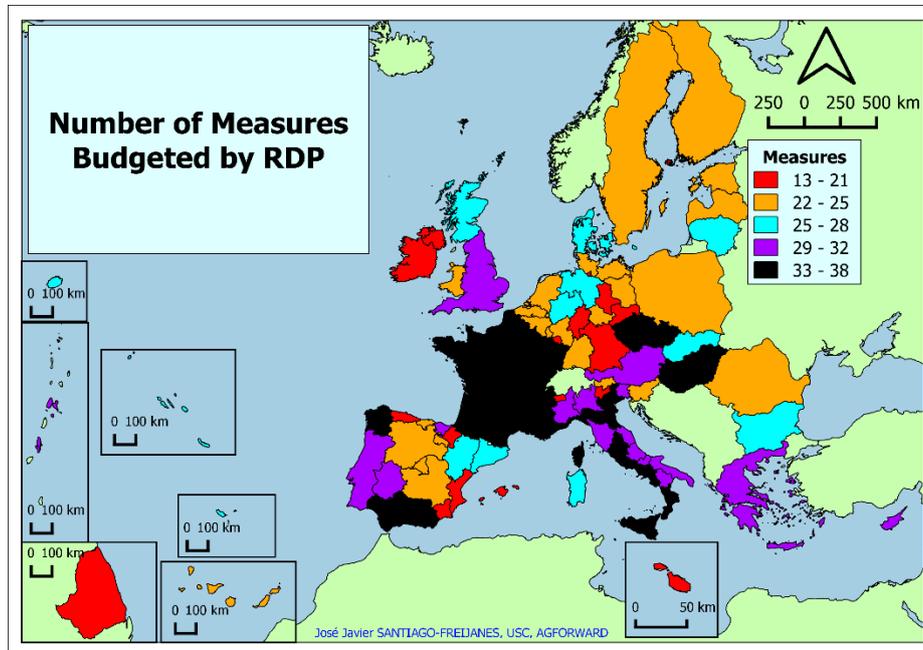


Figure 7. The number of measures budgeted by the rural Development programme in each region or state

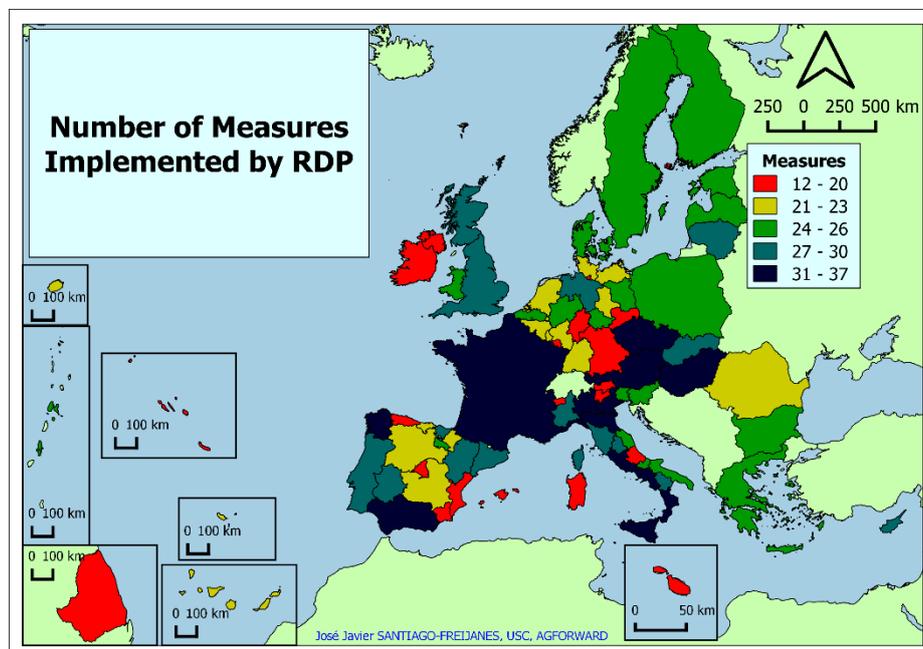


Figure 8. The number of measures implemented in the rural development programme in each region or state

5 Measures with the highest rate of implementation

The highest rate of implementation is typically for measure 212 Payments to farmers in areas with handicaps, and Measure 214 which covers Agri-environment schemes (Figure 9).

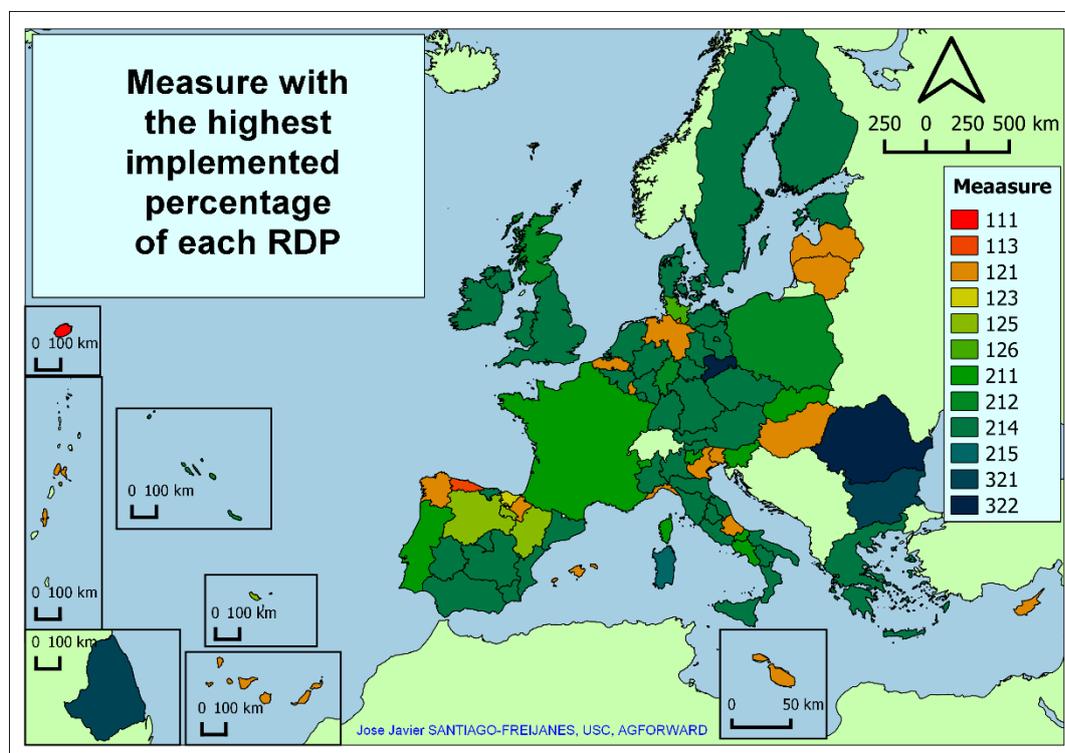


Figure 9. The measure per country or regions showing the highest rate of implementation

6 Acknowledgements

The AGFORWARD project (Grant Agreement N° 613520) is co-funded by the European Commission, Directorate General for Research & Innovation, within the 7th Framework Programme of RTD, Theme 2 - Biotechnologies, Agriculture & Food. The views and opinions expressed in this report are purely those of the writers and may not in any circumstances be regarded as stating an official position of the European Commission.

7 References

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- Santiago-Freijanes, J.J. (2015). Links to the Rural Development Programs in EU for the period 2007-2013. Accessed 20 January 2016. <https://www.google.com/maps/d/edit?mid=z3KT7uZgmx7U.kgnAMpYbpBks&usp=sharing>

Annex A. Maps of regions and states with rural development measures have been implemented (2007-2013)

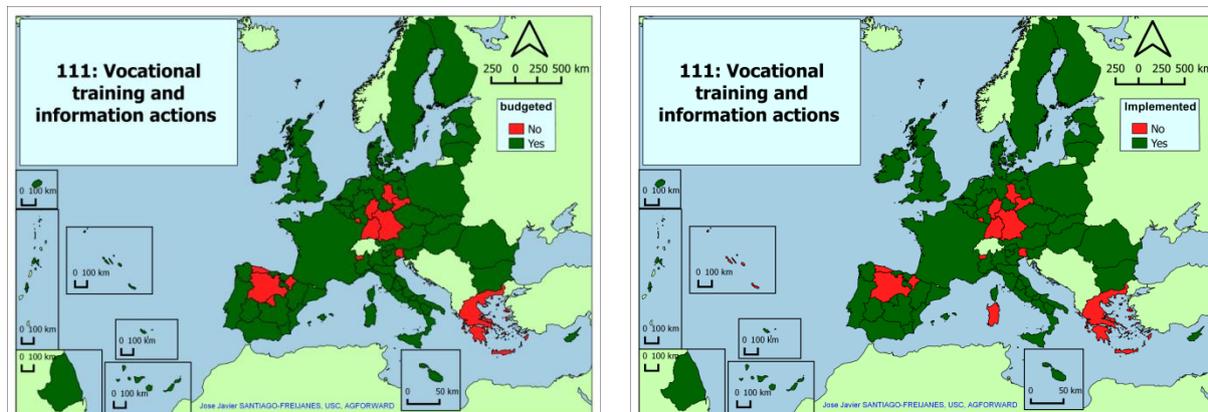


Figure 10. a) Budgeting and b) implementation of Measure 111: Vocational training and information actions

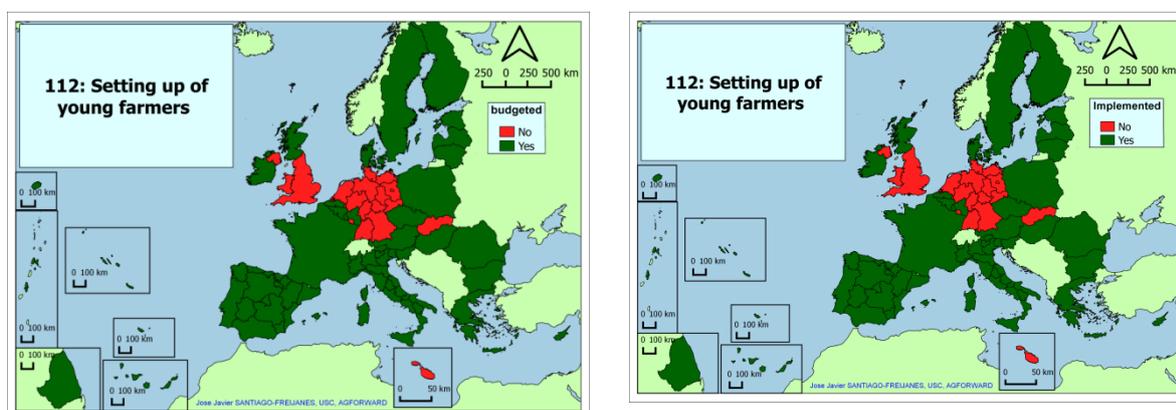


Figure 11. a) Budgeting and b) implementation of Measure 112: Setting up of young farmers

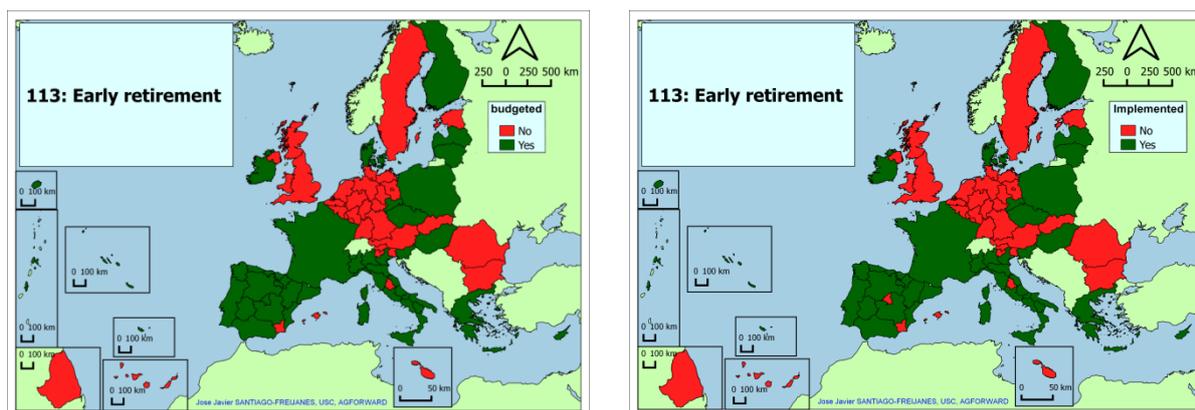


Figure 12. a) Budgeting and b) implementation of Measure 113: Early retirement

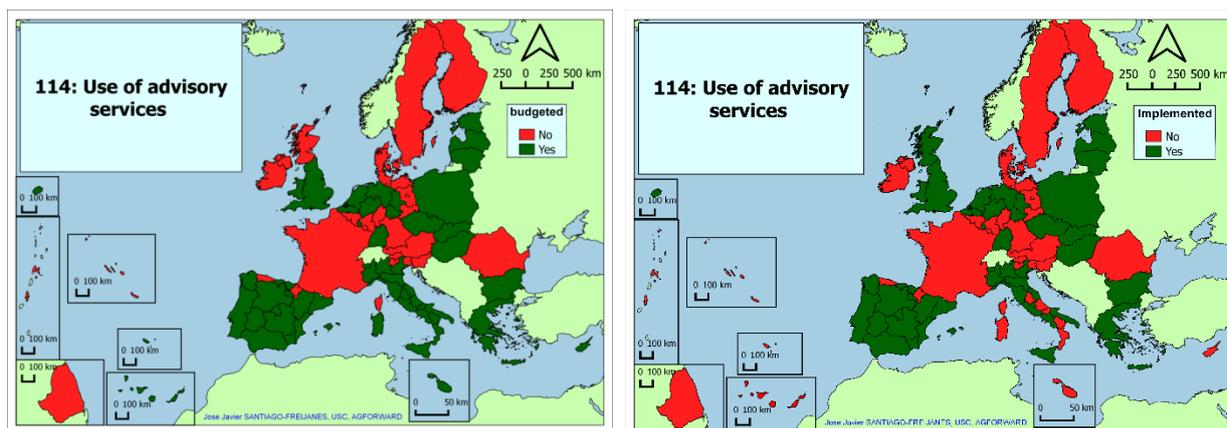


Figure 13. a) Budgeting and b) implementation of Measure 114: Use of advisory services (note a possible error in Scotland).

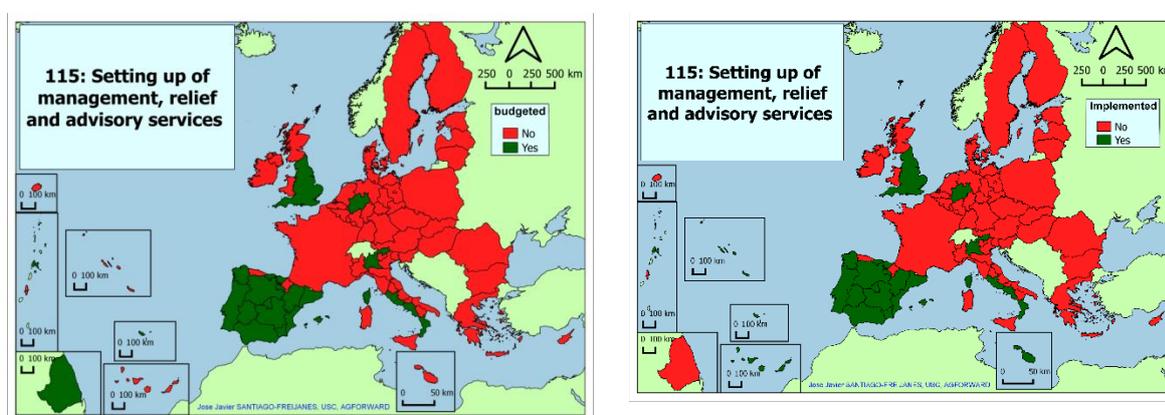


Figure 14. a) Budgeting and b) implementation of Measure 115: Setting up of management, relief and advisory services

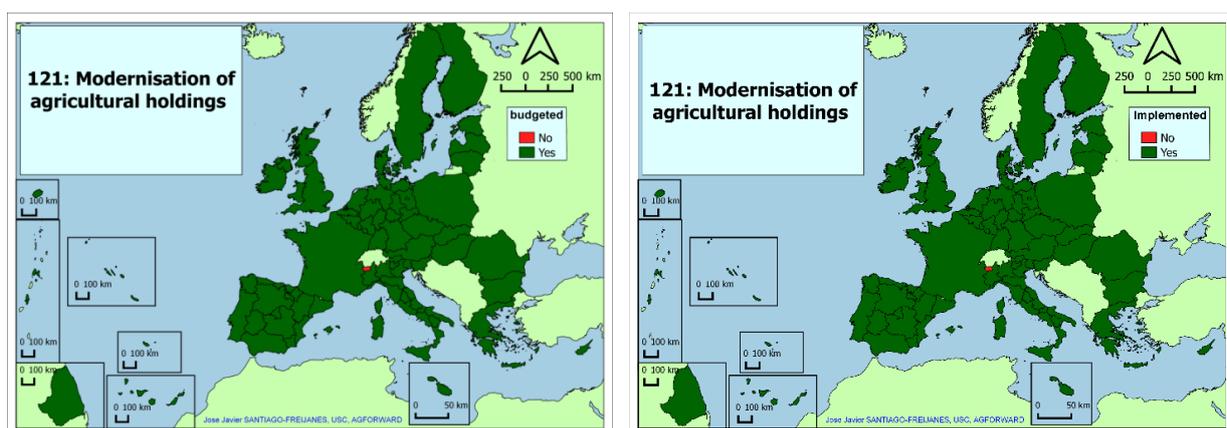


Figure 15. a) Budgeting and b) implementation of Measure 121: Modernisation of agricultural holdings

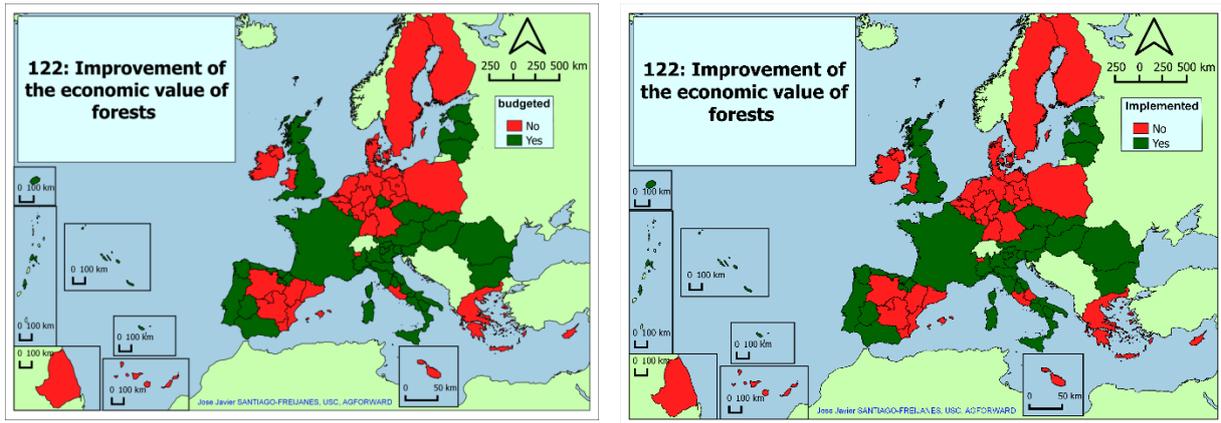


Figure 16. a) Budgeting and b) implementation of Measure 122: Improvement of the economic value of forests

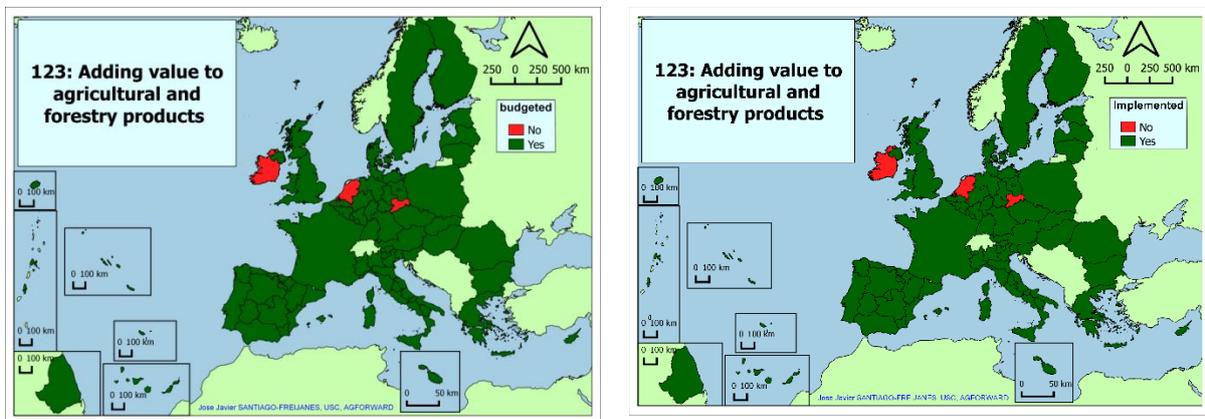


Figure 17. a) Budgeting and b) implementation of Measure 123: Adding value to agricultural and forestry products

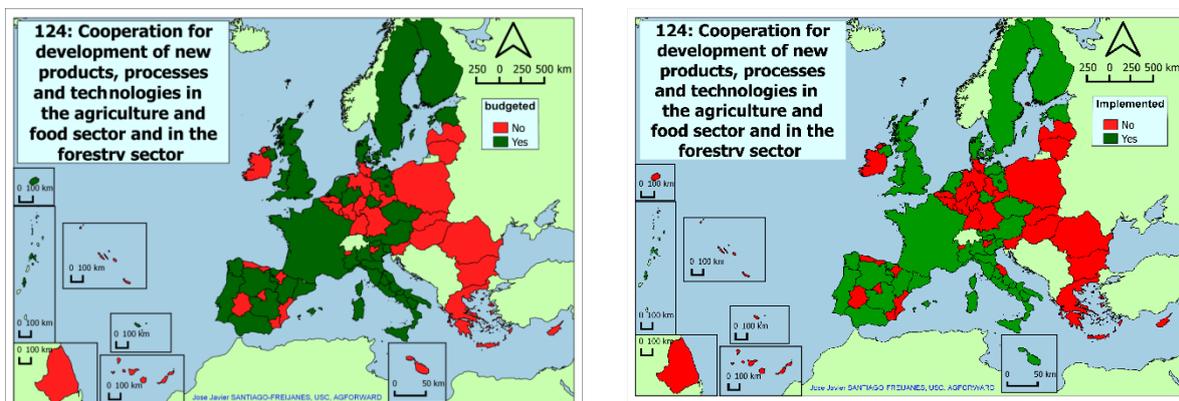


Figure 18. a) Budgeting and b) implementation of Measure 124: Cooperation for development of new products

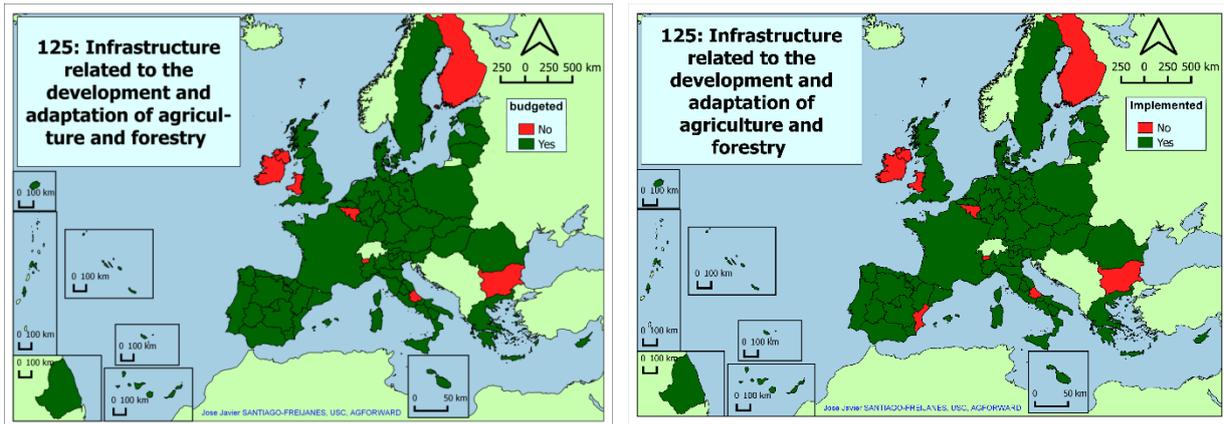


Figure 19. a) Budgeting and b) implementation of Measure 125: Infrastructure related to the development and adaptation of agriculture and forestry

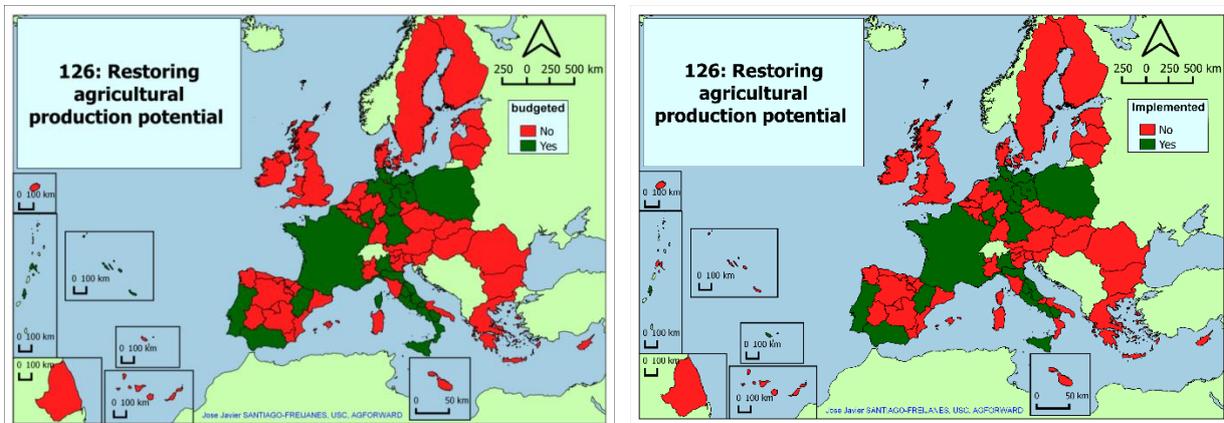


Figure 20. a) Budgeting and b) implementation of Measure 126: Restoring agricultural production potential

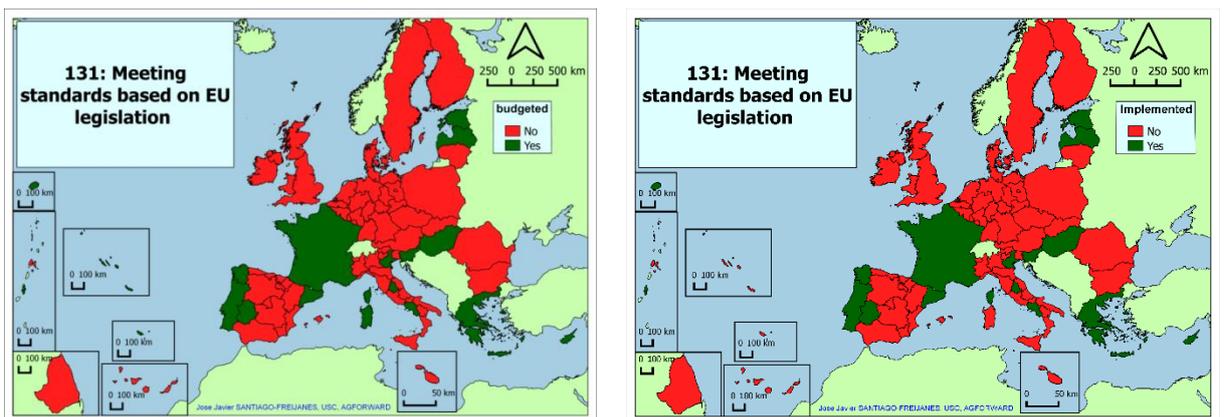


Figure 21. a) Budgeting and b) implementation of Measure 131: Meeting standards based on EU legislation

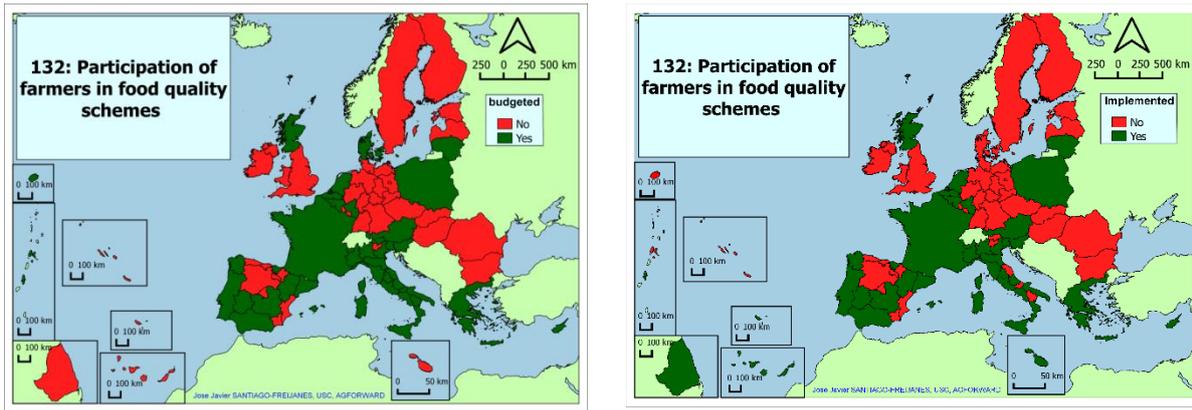


Figure 22. a) Budgeting and b) implementation of Measure 132: Participation of farmers in food quality schemes

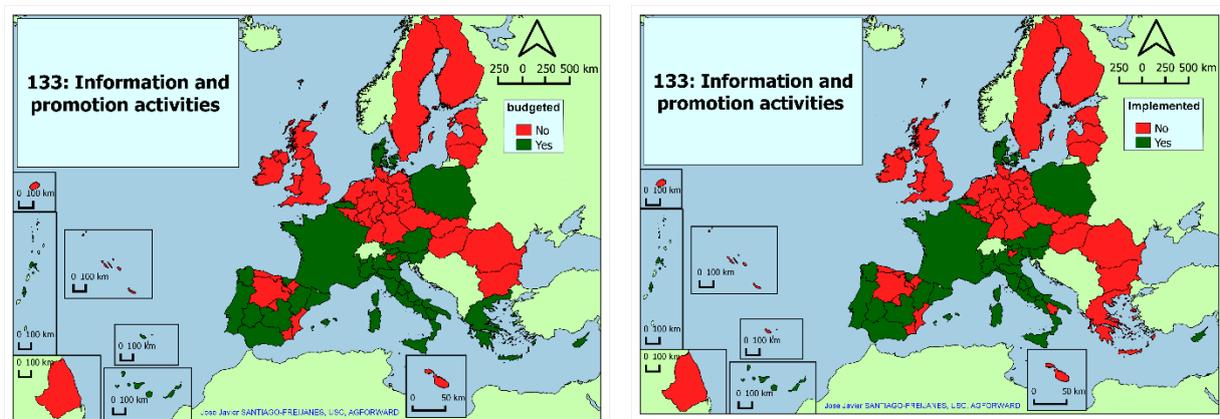


Figure 23. a) Budgeting and b) implementation of Measure 133: Information and promotion activities

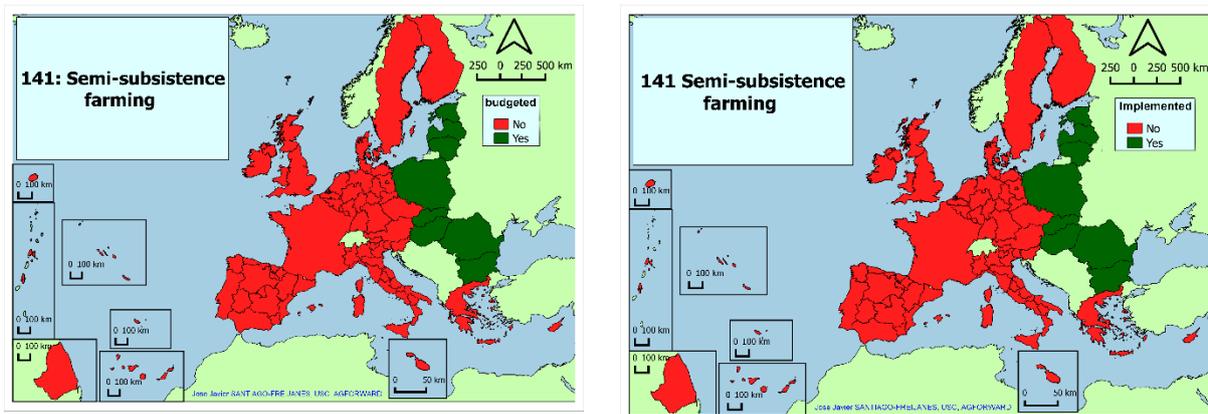


Figure 24. a) Budgeting and b) implementation of Measure 141: Semi-subsistence farming

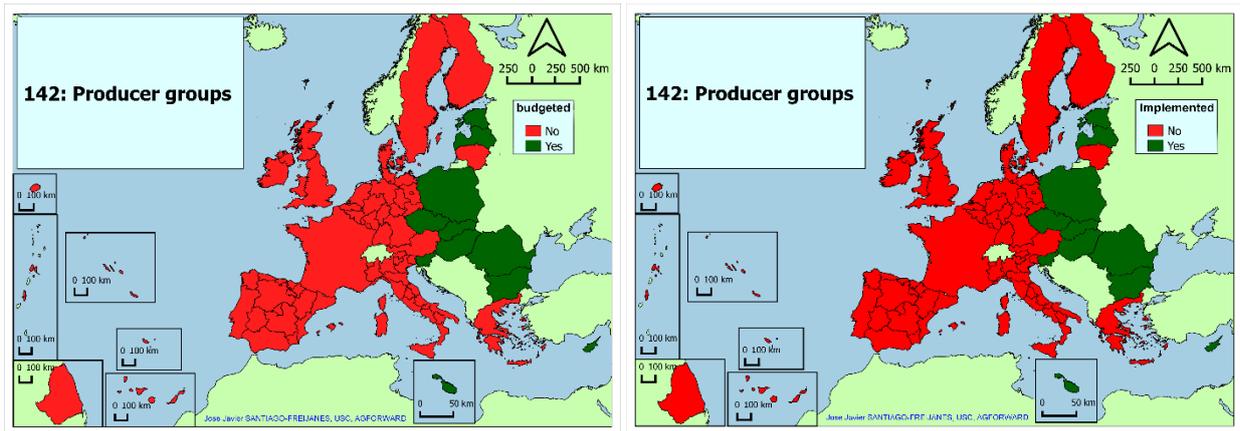


Figure 25. a) Budgeting and b) implementation of Measure 142: Producer groups

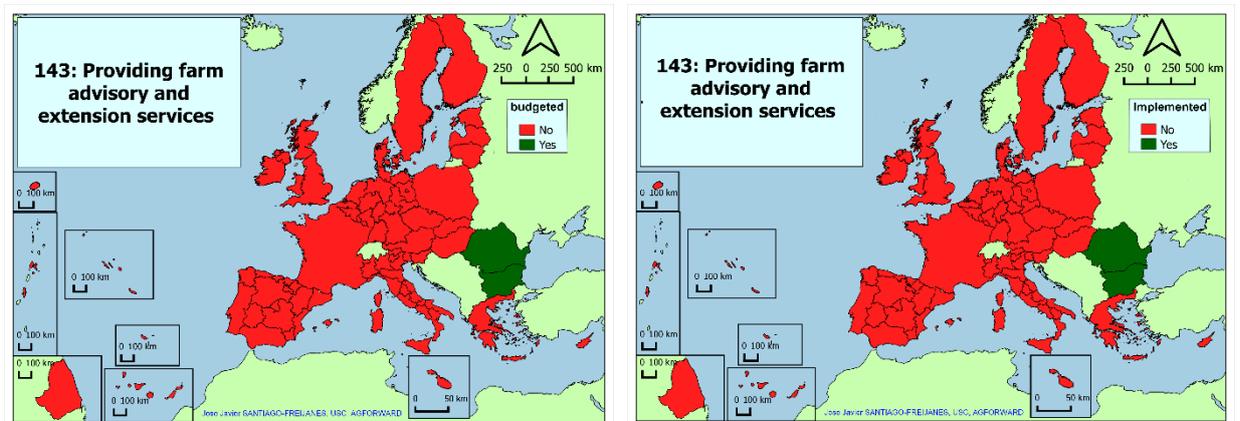


Figure 26. a) Budgeting and b) implementation of Measure 143: Providing farm advisory and extension services

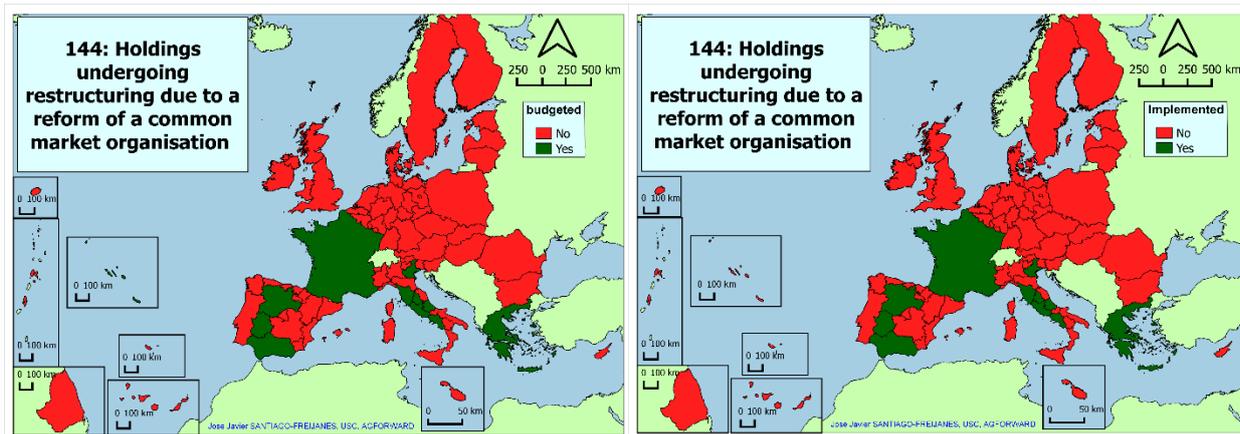


Figure 27. a) Budgeting and b) implementation of Measure 144: Holdings undergoing restructuring due to a reform of a common market organisation

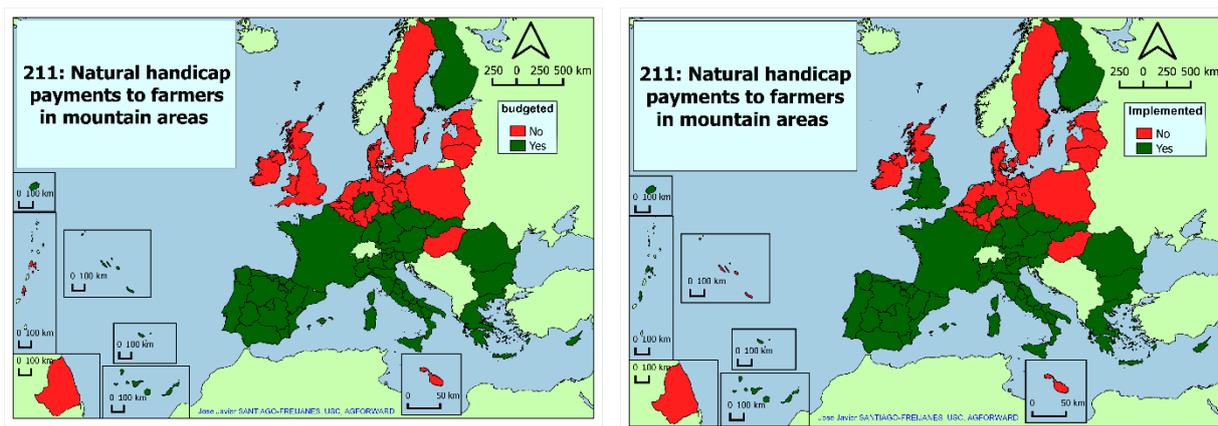


Figure 28. a) Budgeting and b) implementation of Measure 211: Natural handicap payments to farmers in mountain areas

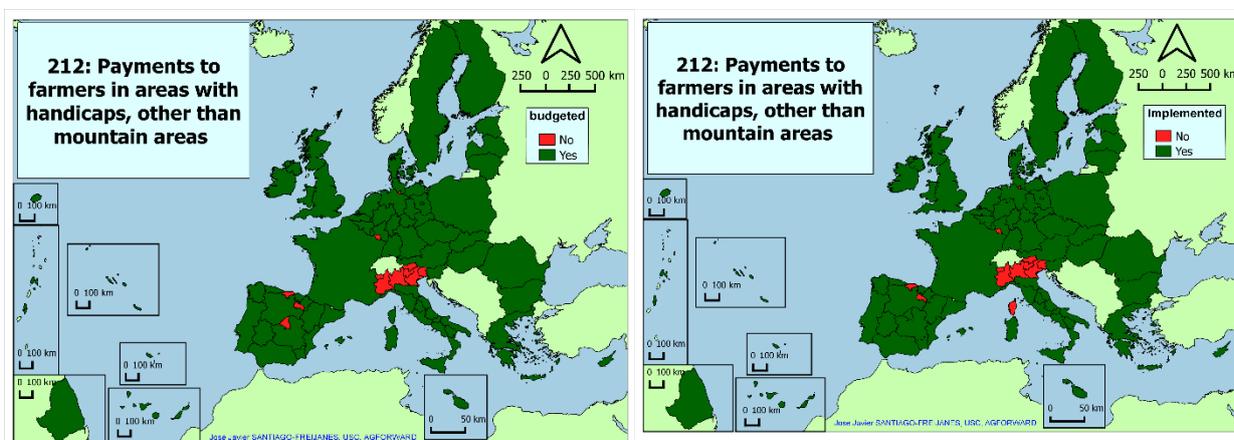


Figure 29. a) Budgeting and b) implementation of Measure 212: Payments to farmers in areas with handicaps, other than mountain areas

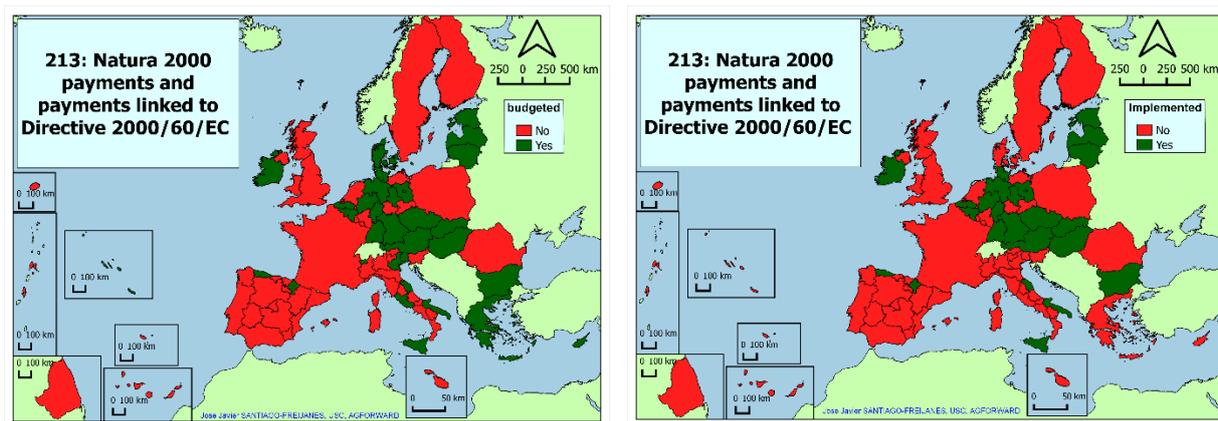


Figure 30. a) Budgeting and b) implementation of Measure 213: Natura 2000 payments and payments linked to Directive 2000/60_EC

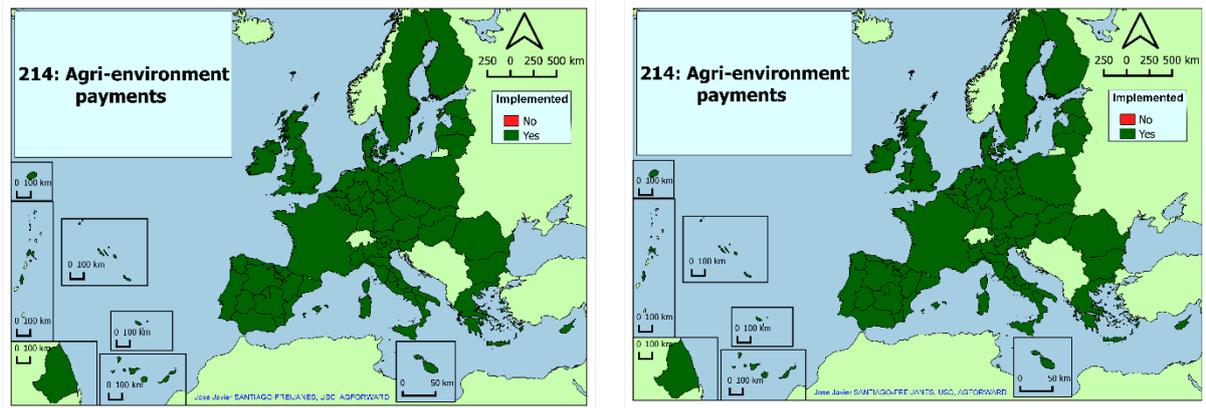


Figure 31. a) Budgeting and b) implementation of Measure 214: Agri-environment payments

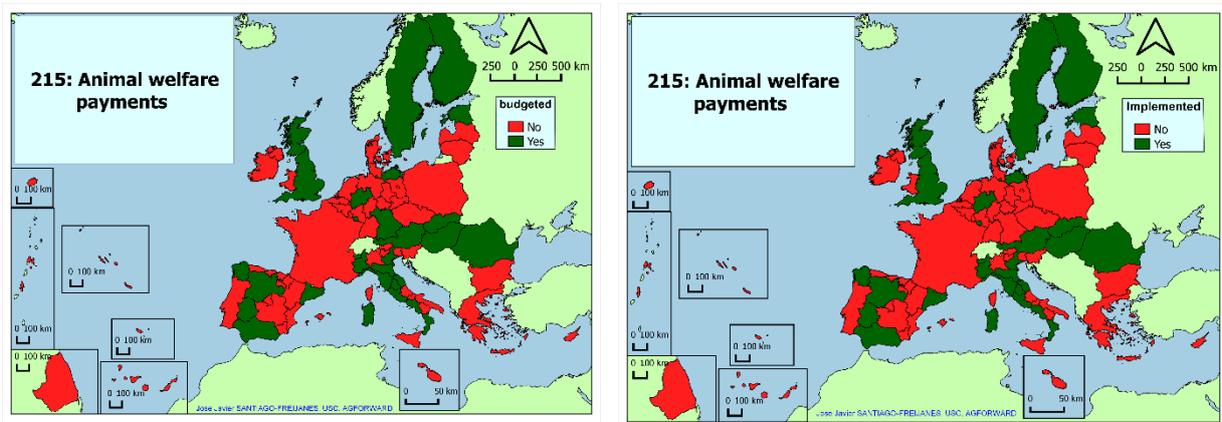


Figure 32. a) Budgeting and b) implementation of Measure 215: Animal welfare payments

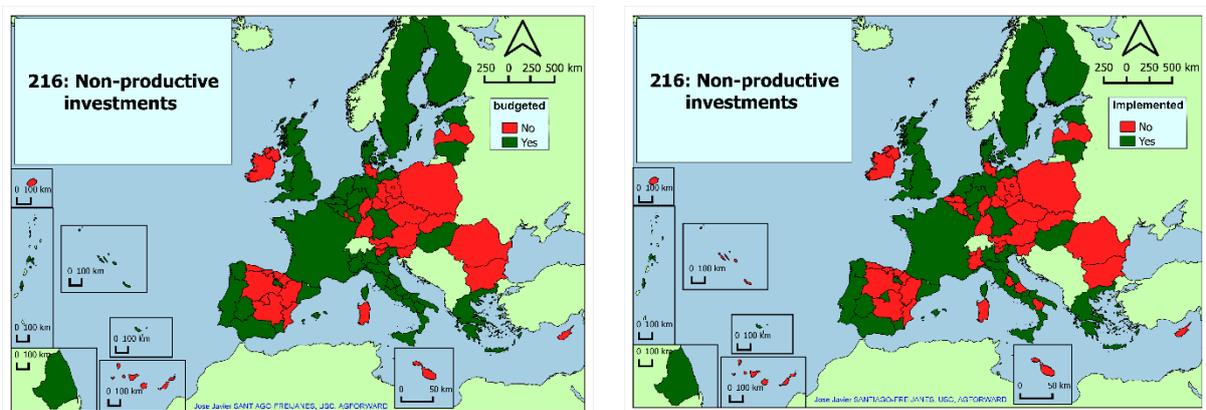


Figure 33. a) Budgeting and b) implementation of Measure 216: Non-productive investments

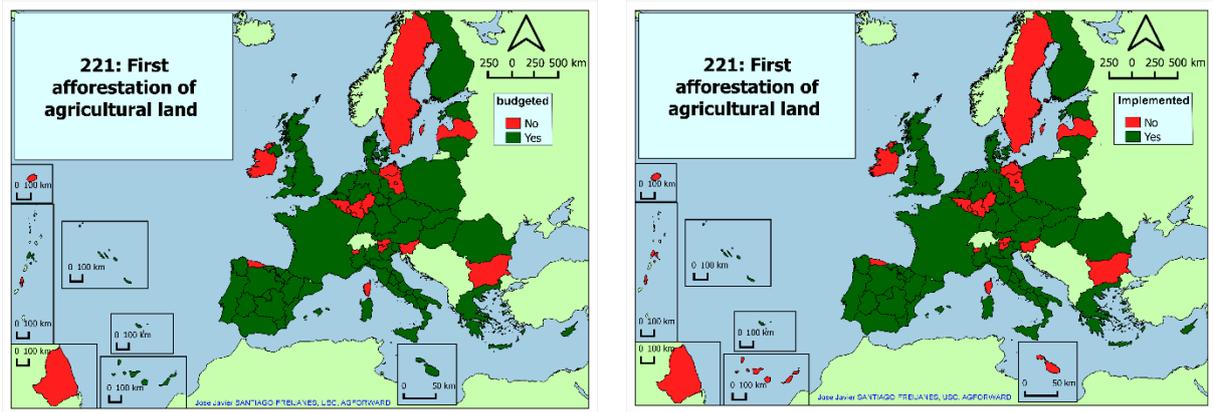
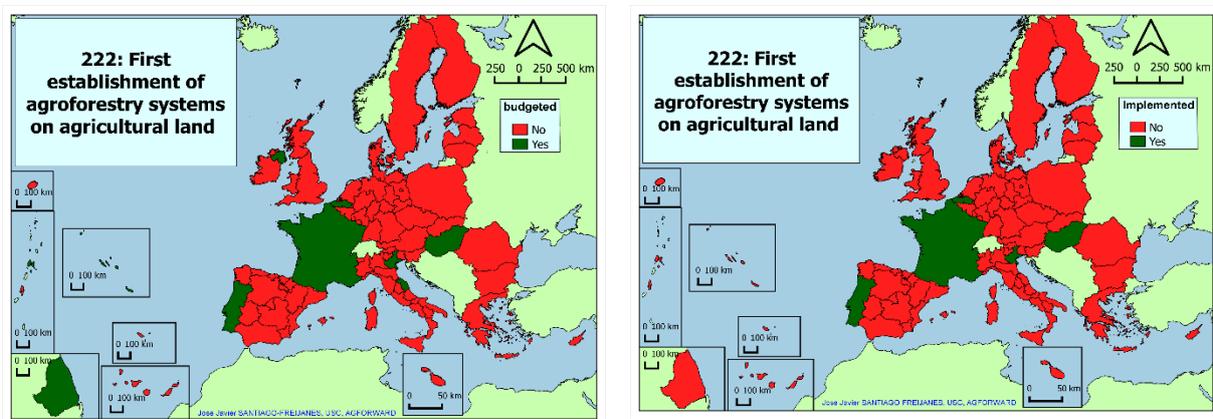


Figure 34. a) Budgeting and b) implementation of Measure 221: First afforestation of agricultural land



a) Budgeting and b) implementation of Measure 222: First establishment of agroforestry systems on agricultural land

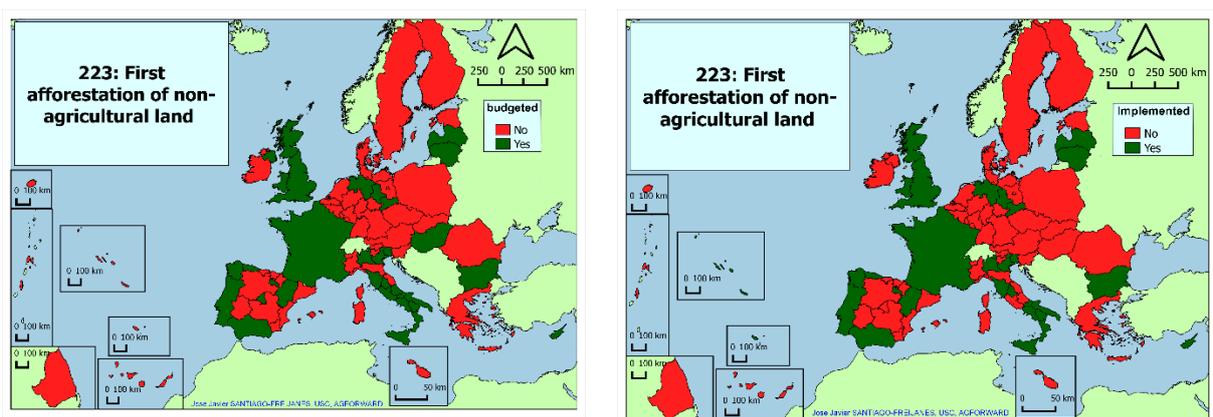


Figure 35. a) Budgeting and b) implementation of Measure 223: First afforestation of non-agricultural land

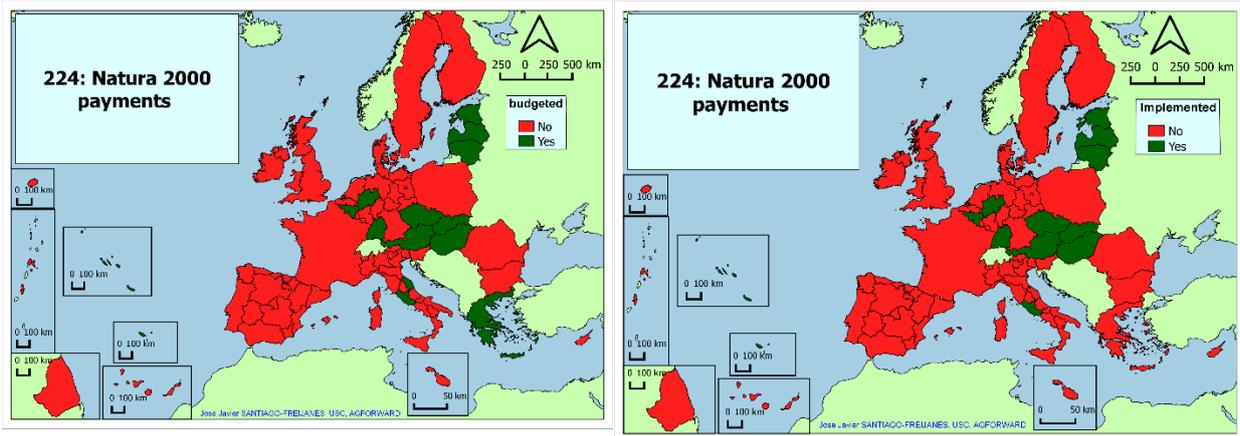


Figure 36. a) Budgeting and b) implementation of Measure 224: Natura 2000 payments

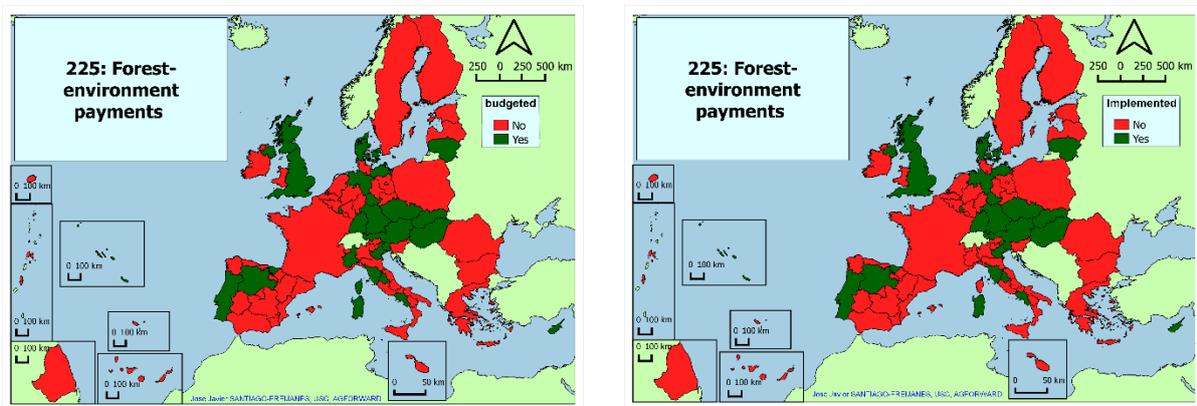


Figure 37. a) Budgeting and b) implementation of Measure 225: Forest-environment payments

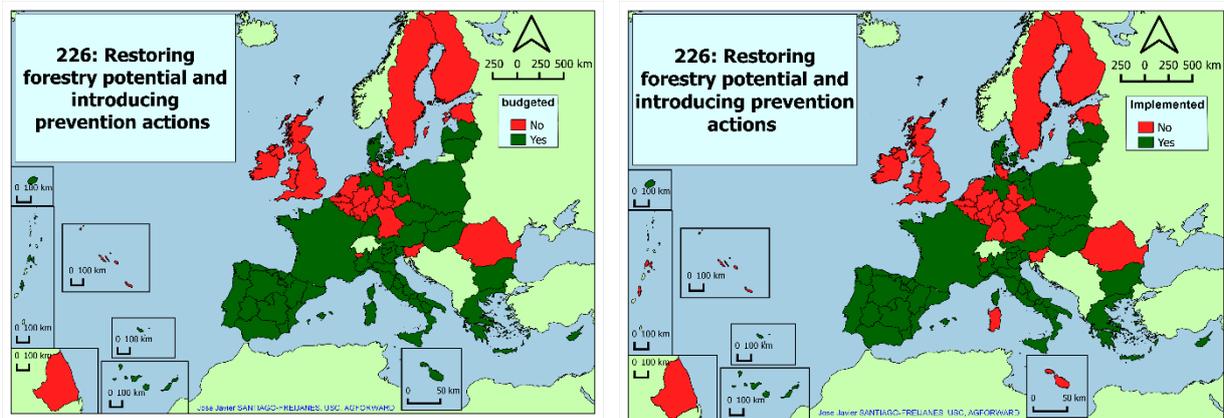


Figure 38. a) Budgeting and b) implementation of Measure 226: Restoring forestry potential and introducing prevention actions

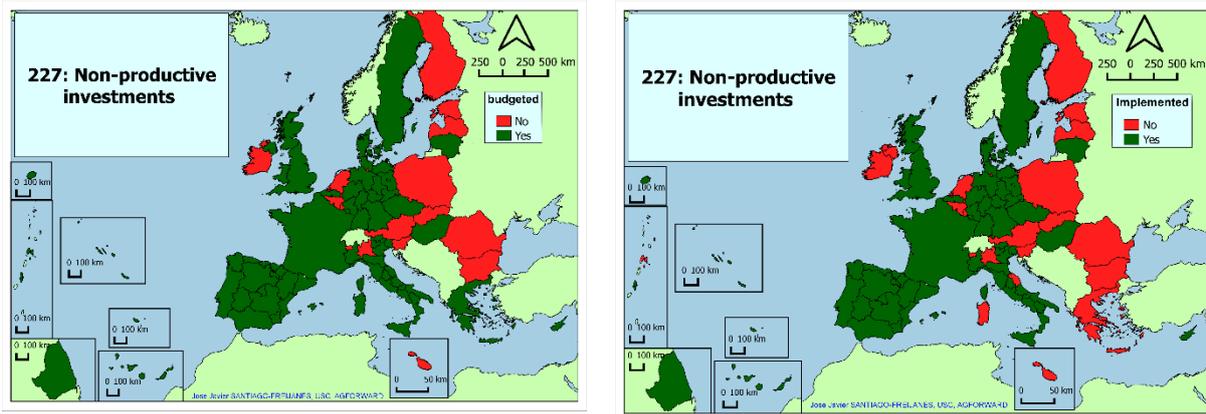


Figure 39. a) Budgeting and b) implementation of Measure 227: Non-productive investments

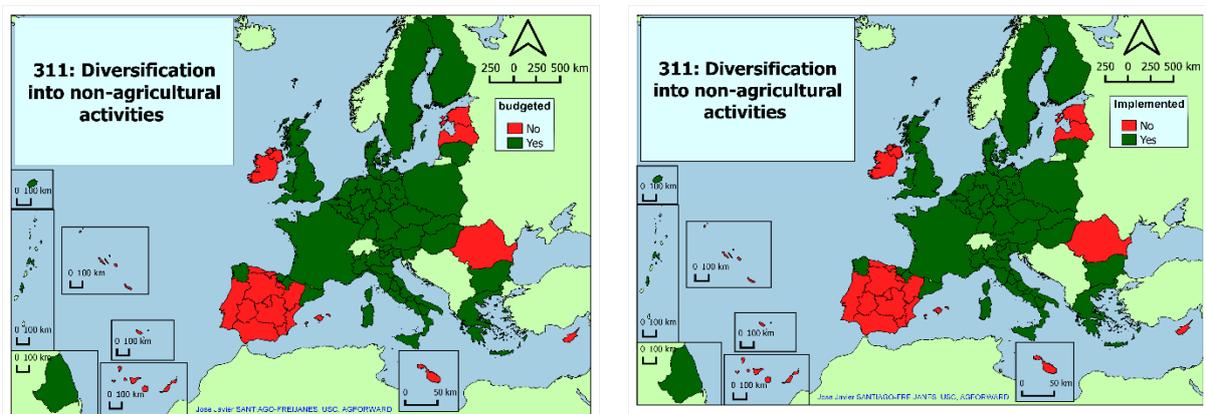


Figure 40. a) Budgeting and b) implementation of Measure 311: Diversification into non-agricultural activities

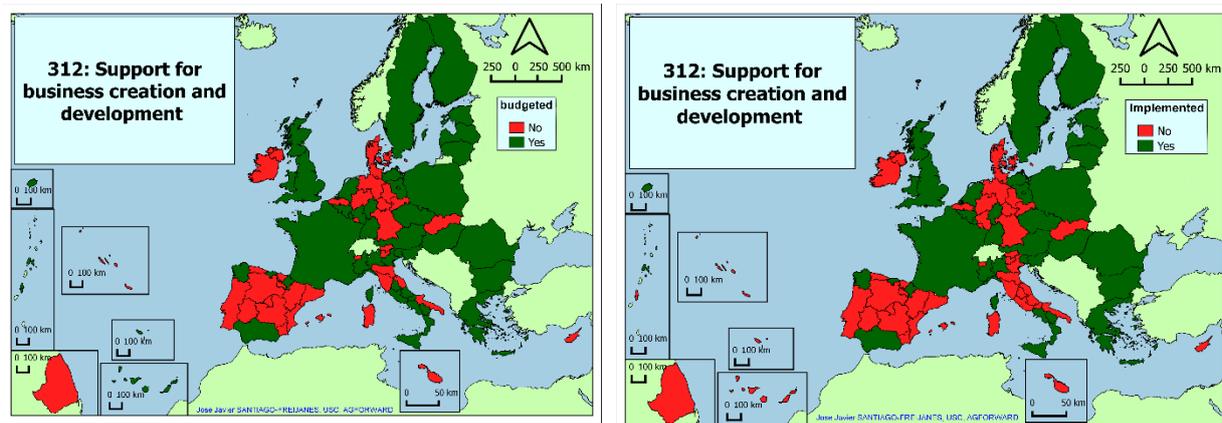


Figure 41. a) Budgeting and b) implementation of Measure 312: Support for business creation and development

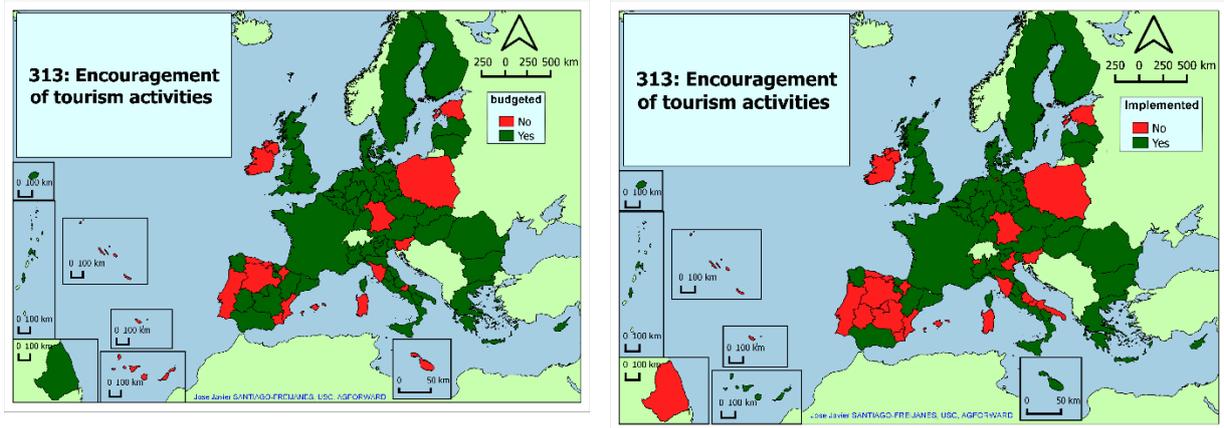


Figure 42. a) Budgeting and b) implementation of Measure 313: Encouragement of tourism activities

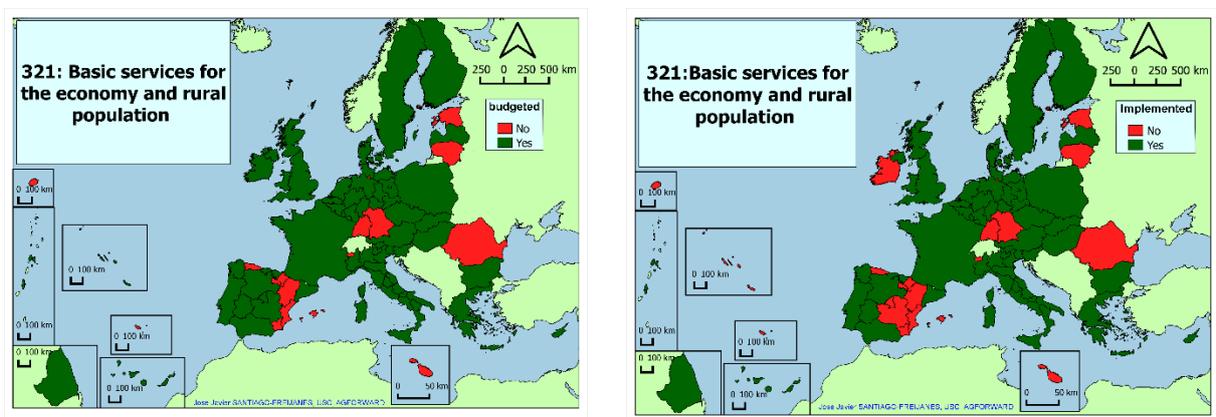


Figure 43. a) Budgeting and b) implementation of Measure 321: Basic services for the economy and rural population

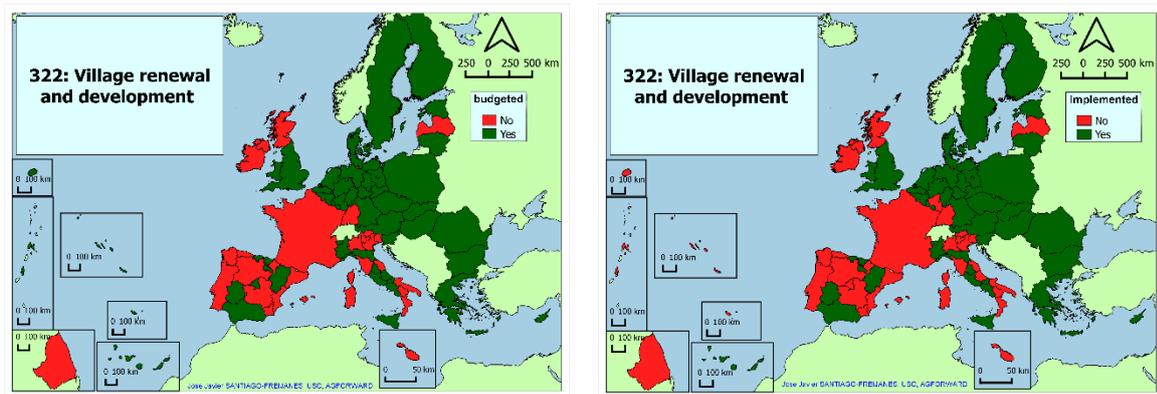


Figure 44. a) Budgeting and b) implementation of Measure 322: Village renewal and development

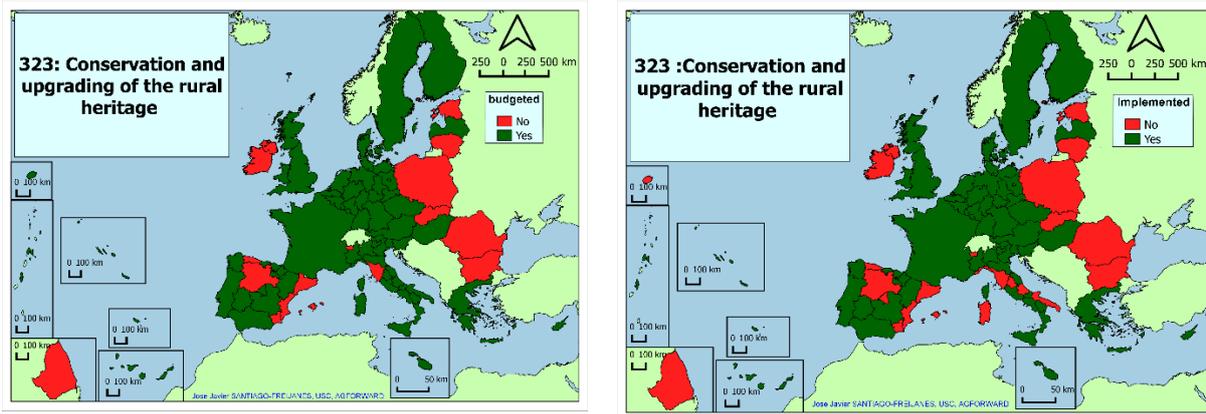


Figure 45. a) Budgeting and b) implementation of Measure 323: Conservation and upgrading of the rural heritage

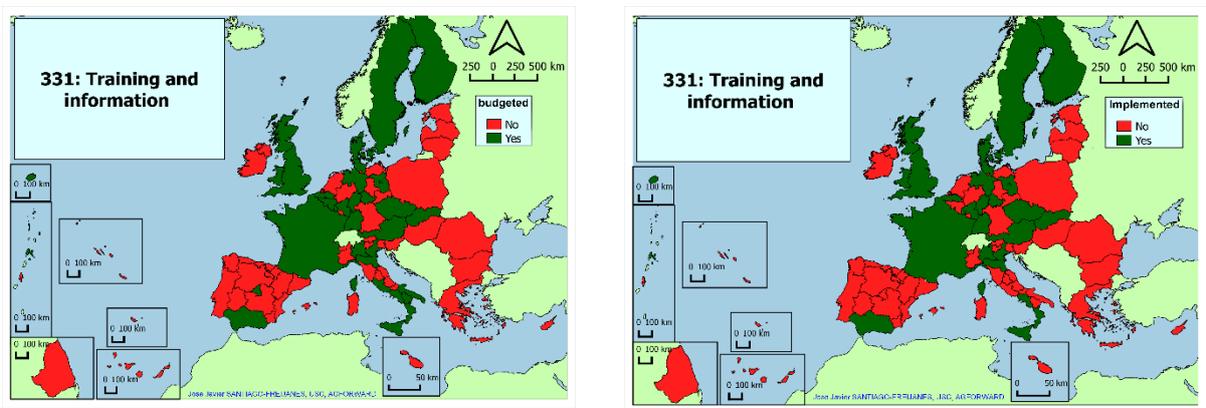


Figure 46. a) Budgeting and b) implementation of Measure 331: Training and information

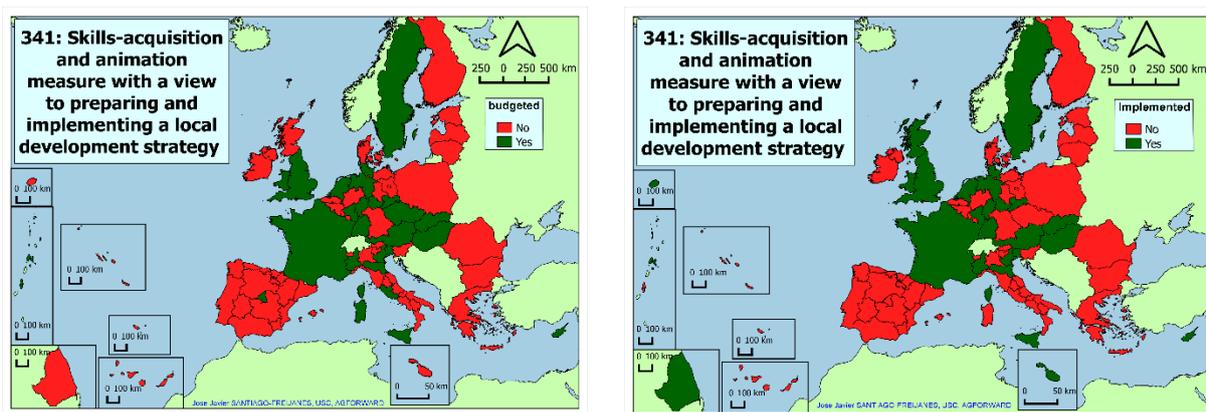


Figure 47. a) Budgeting and b) implementation of Measure 341: Skills-acquisition and animation measure with a view to preparing and implementing a local development strategy

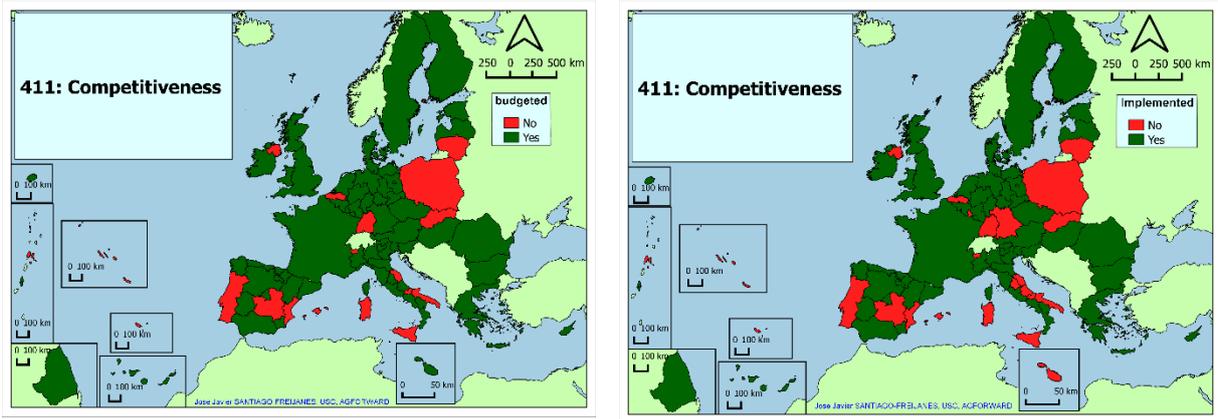


Figure 48. a) Budgeting and b) implementation of Measure 411: Competitiveness

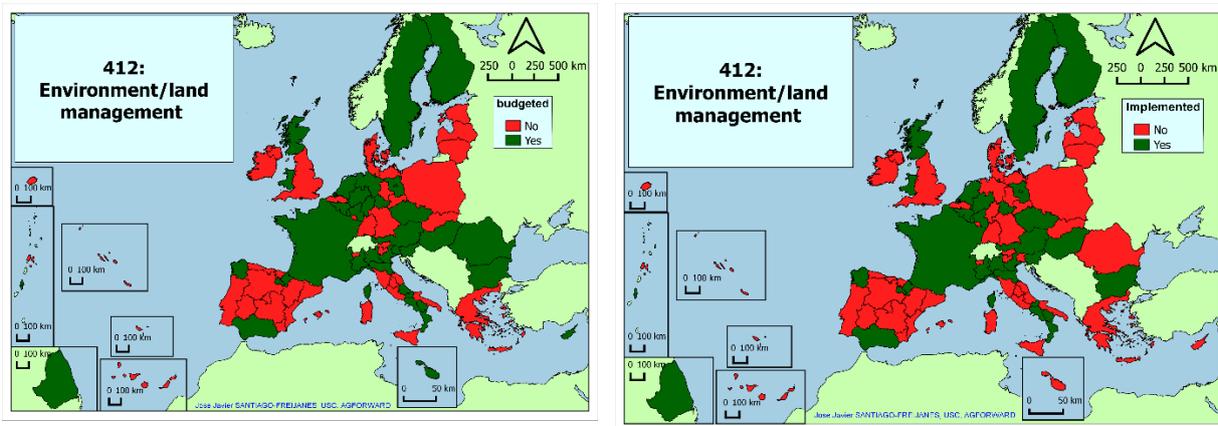


Figure 49. a) Budgeting and b) implementation of Measure 412: Environment/land management

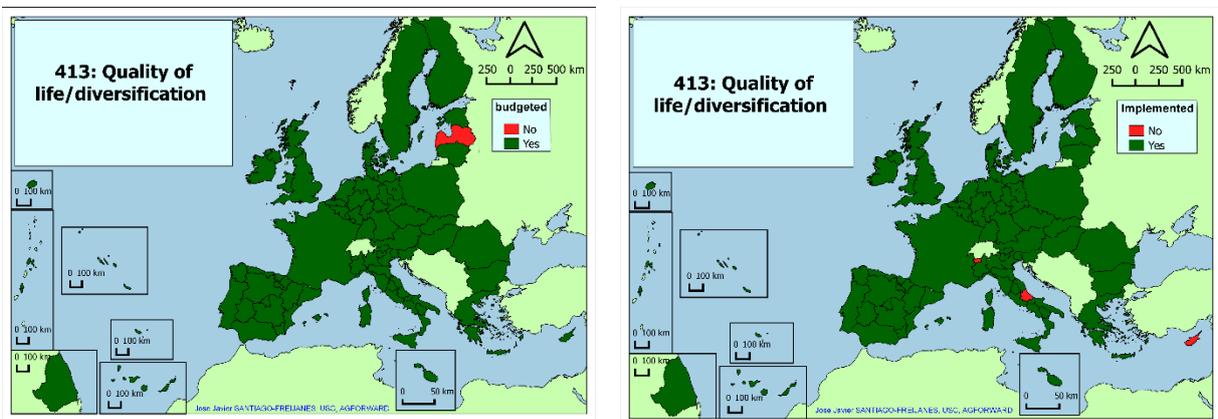


Figure 50. a) Budgeting and b) implementation of Measure 413: Quality of life/diversification

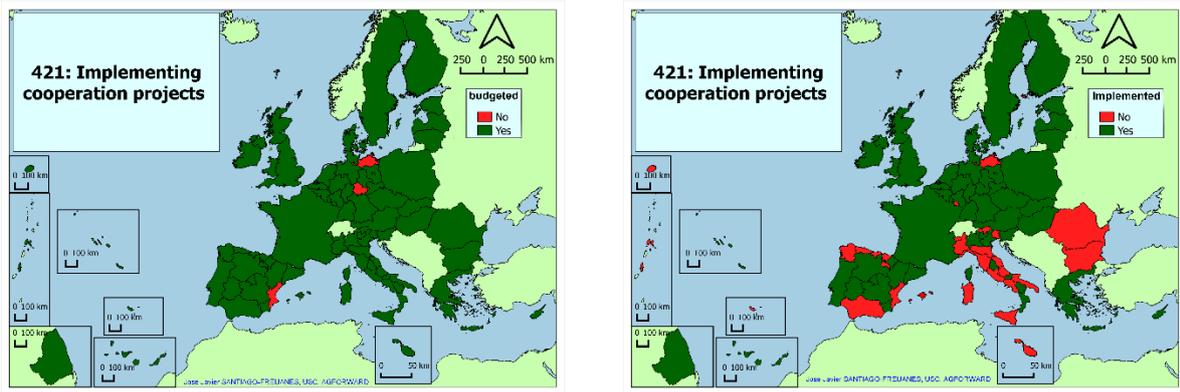


Figure 51. a) Budgeting and b) implementation of Measure 421: Implementing cooperation projects

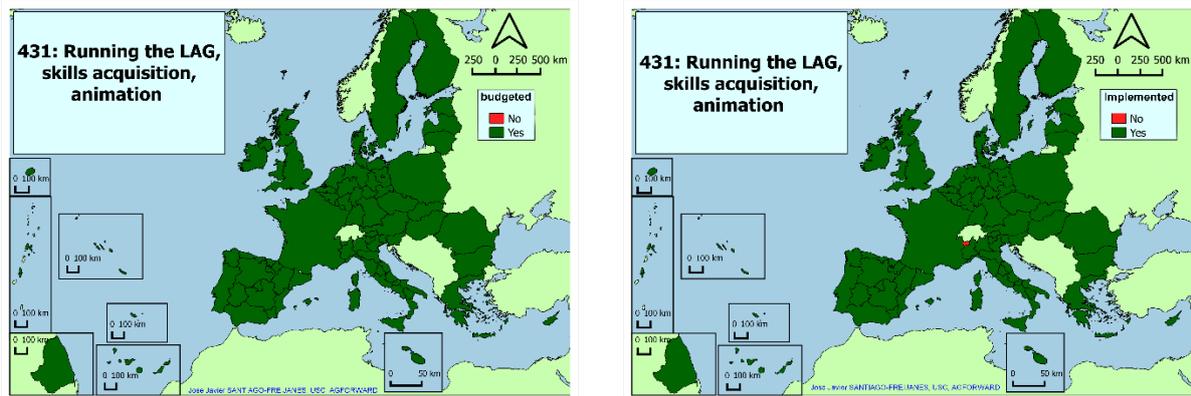


Figure 52. a) Budgeting and b) implementation of Measure 431: Quality of life diversification

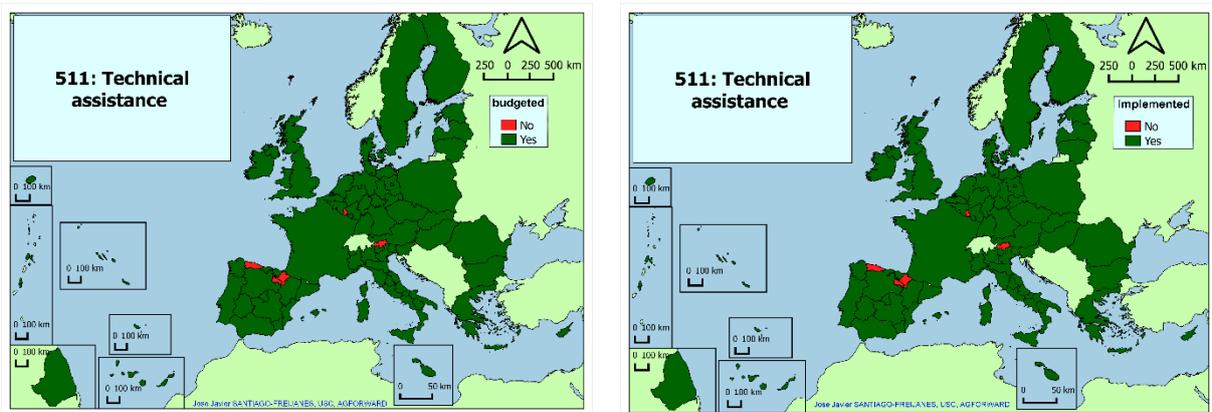


Figure 53. a) Budgeting and b) implementation of Measure 511: Technical assistance

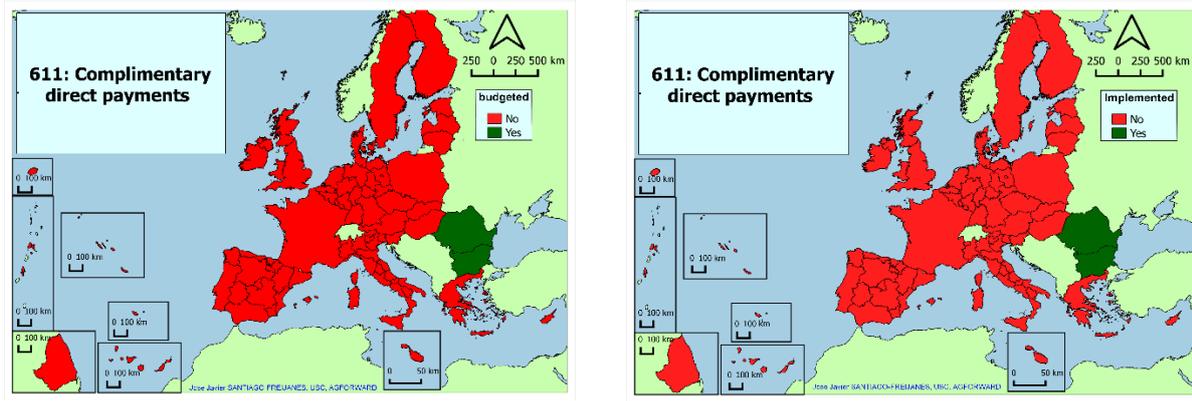


Figure 54. a) Budgeting and b) implementation of Measure 611: Complimentary direct payments

Annex B. The proportional implementation of measures (2007-2013)

Very few measures are implemented to their full extent. Annex B presented the proportion of the expenditure that was actually used for some specific measures.

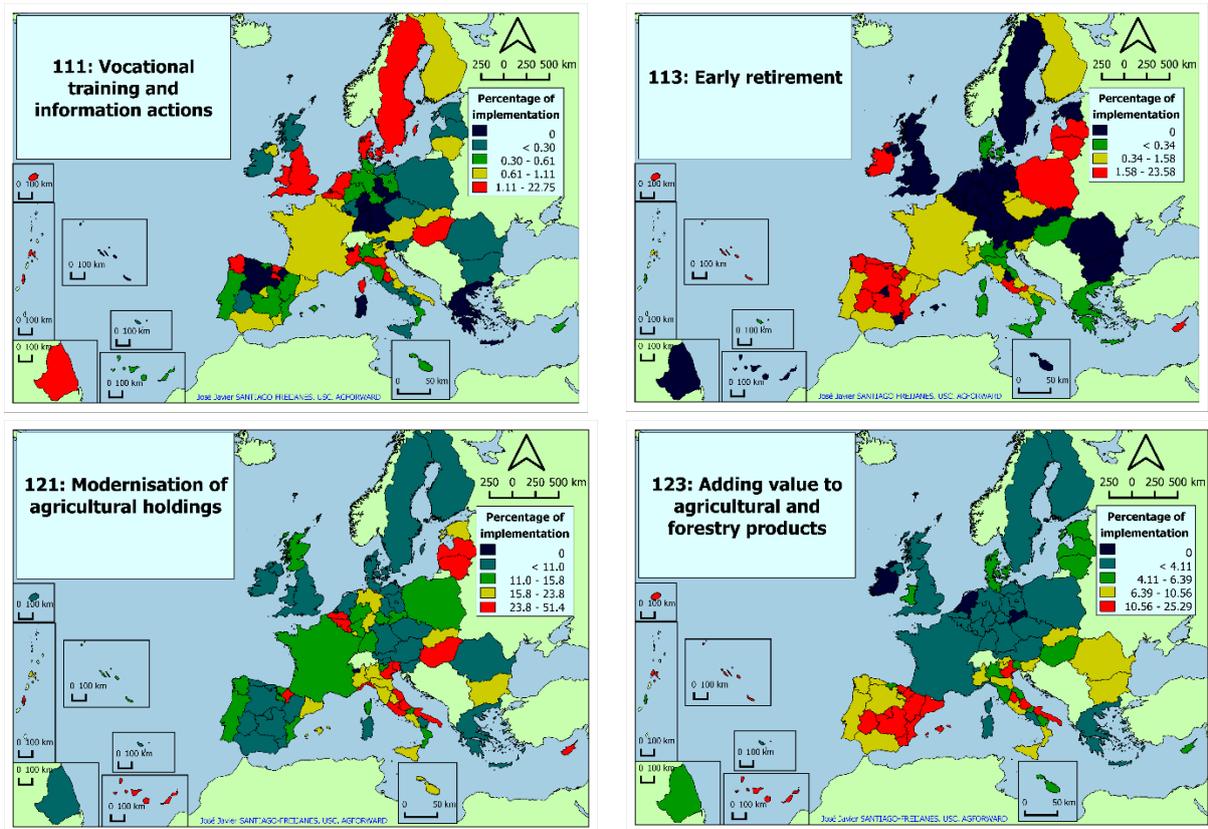


Figure 55. Proportion implementation of Measure 111 Vocational training and information actions, Measure 113 Early retirement. Measure 121 Modernisation of agricultural holdings, and Measure 123 Adding value to agricultural and forestry products

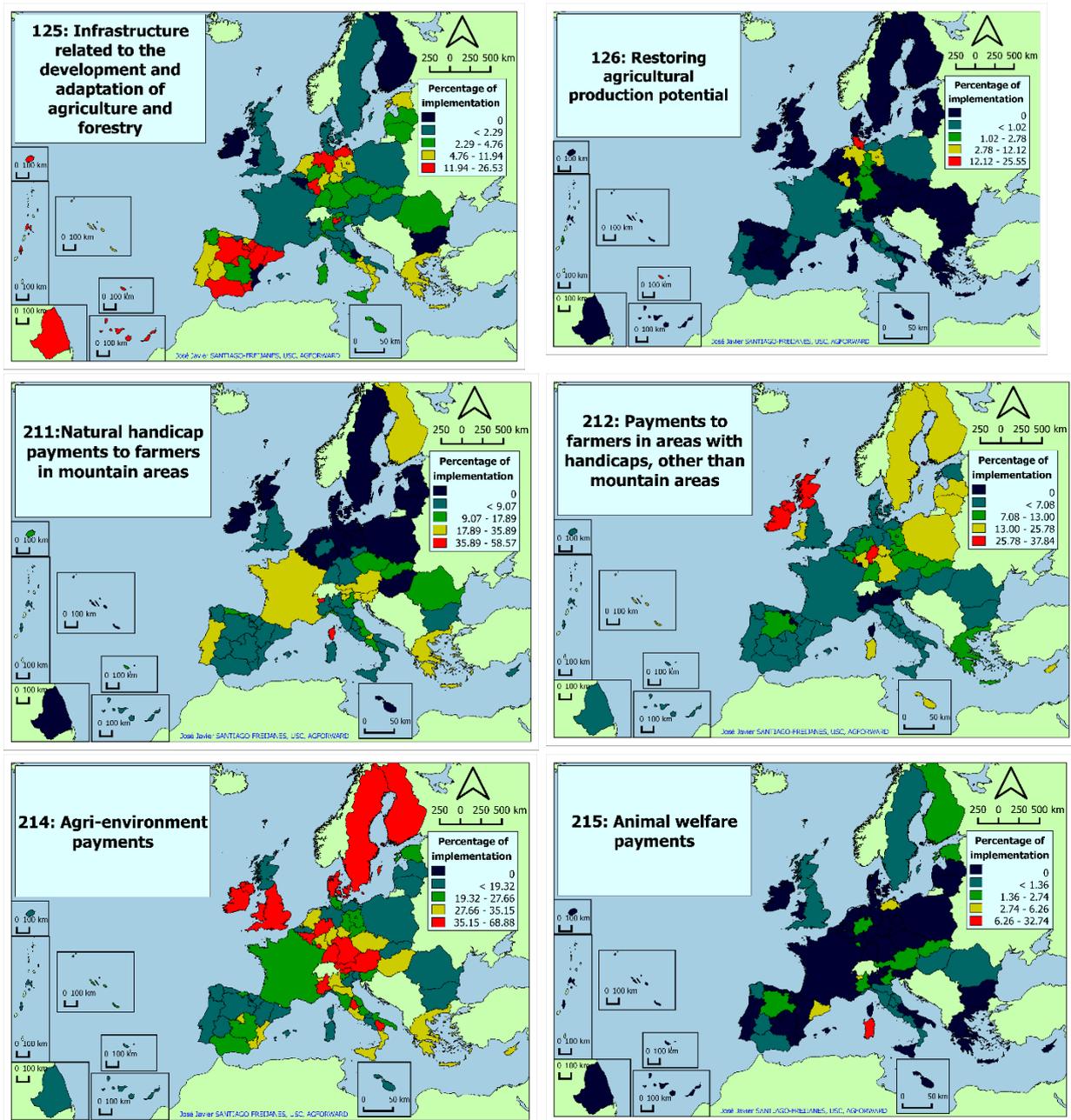


Figure 56. Proportion implementation of Measure 125: Infrastructure related to the development and adaptation of agriculture and forestry, Measure 126: Restoring agricultural production potential, Measure 211: Natural handicap payments to farmers in mountain areas, Measure 212: Payments to farmers in areas with handicaps, other than mountain areas, Measure 214: Agri-environment payments, and Measure 215 Animal welfare payments

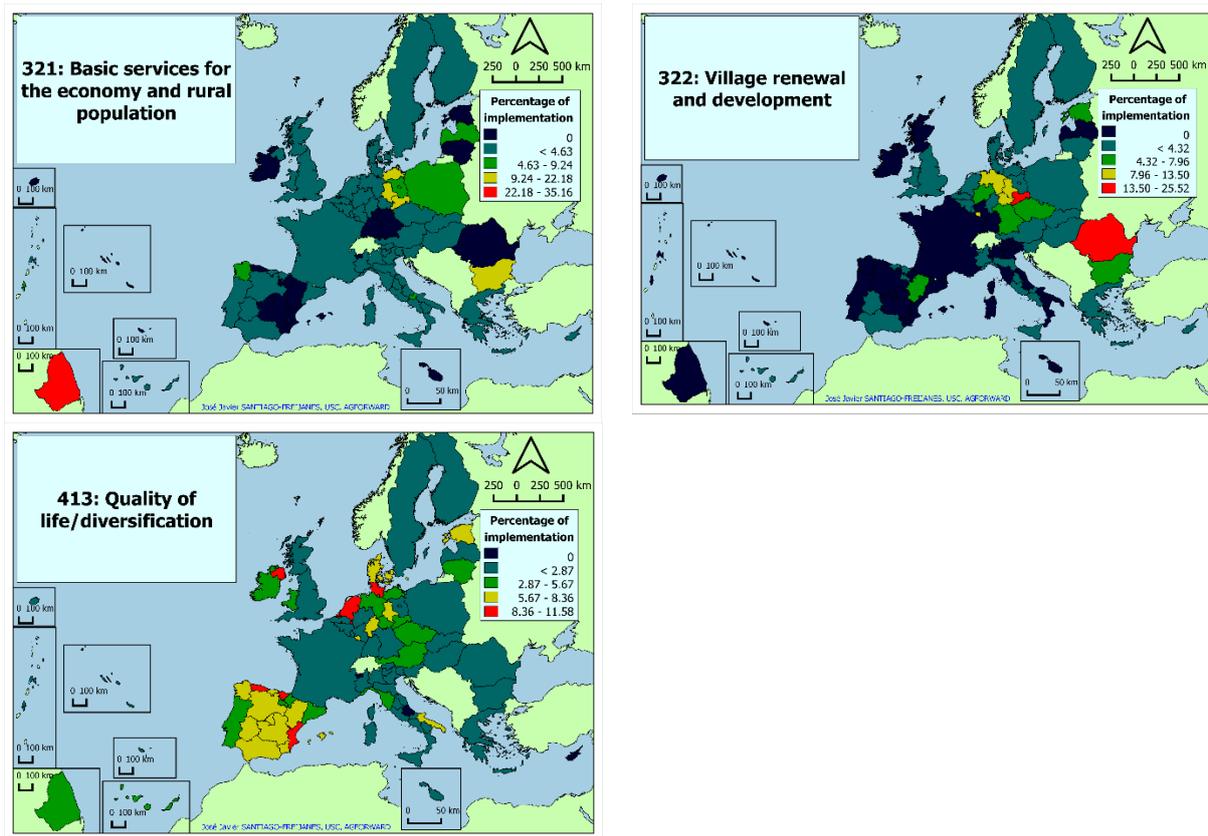


Figure 57. Proportion implementation of Measure 321: Basic services for the economy and rural population, Measure 322: Village renewal and development, and Measure 413: Quality of life diversification