

Survey on National Contributions to EOSC 2022

This is the survey on National Contributions to EOSC 2022. The survey is aimed at the EOSC Steering Board whose members are representatives of Member States and Associated Countries in the EOSC Governance. The survey consists of questions for monitoring policies and practices for EOSC and Open Science at national level in Europe. The survey is divided into four sections: General; Policies; Practices; Feedback. The sections on policies and practices are further divided into eight categories that are relevant for EOSC and Open Science: Publications; Data; Software; Services; Infrastructure; Skills/ Training; Assessment; Engagement. The survey will be conducted annually until Open Science has become the new normal in Europe and the results will be published in the EOSC Observatory [<https://eoscobservatory.eosc-portal.eu>] and EOSC Observatory Zenodo Community [<https://zenodo.org/communities/eoscobservatory>]. It should be noted that the national contributions may where applicable include policies and practices at regional level.

Definitions of key terms can be found in Appendix A

General

1. How many researchers were employed in your country in 2021 in full-time equivalents?

Data to be extracted from Eurostat

1.1. Do you agree with the number of researchers in full-time equivalents collected from Eurostat?

- Yes
 No

1.1.1. Please provide the correct number of researchers in full-time equivalents

e.g. 1611

1.2. Please clarify your response if relevant

2. How many research performing organisations are there in your country?

e.g. 1611

2.1. Please clarify your response if relevant

3. How many research funding organisations are there in your country?

e.g. 1611

3.1. Please clarify your response if relevant

4. How many repositories are there in your country?

e.g. 1611

4.1. Please clarify your response if relevant

5. How much did your country financially invest in total in EOSC and Open Science in 2021 in millions of Euros?

e.g. 16.11

5.1. Please clarify your response if relevant

Policies

Publications

6. Does your country have a national policy on open access to publications?

- Yes
- No

6.1. Is this policy mandatory?

- Yes
- No

6.2. Is information on this policy available publicly on the web?

- Yes
- No

6.2.1. Please provide links to the relevant webpages

6.3. Is there a specific policy on immediate open access to publications?

- Yes
- No

6.3.1. Is this policy mandatory?

- Yes
- No

6.3.2. Is information on this policy available publicly on the web?

Yes

No

6.3.2.1. Please provide links to the relevant webpages

6.4. Is there a specific policy on retention of IPR on publications?

Yes

No

6.4.1. Is this policy mandatory?

Yes

No

6.4.2. Is information on this policy available publicly on the web?

Yes

No

6.4.2.1. Please provide links to the relevant webpages

6.5. Is there a specific policy on open licensing of publications?

Yes

No

6.5.1. Is this policy mandatory?

Yes

No

6.5.2. Is information on this policy available publicly on the web?

Yes

No

6.5.2.1. Please provide links to the relevant webpages

6.6. Please clarify your response if relevant

7. Does your country have a financial strategy on open access to publications?

Yes

No

7.1. Please clarify your response if relevant

8. How many research performing organisations in your country have a policy on open access to publications?

e.g. 1611

8.1. Please clarify your response if relevant

9. How many research funding organisations in your country have a policy on open access to publications?

e.g. 1611

9.1. Please clarify your response if relevant

Data

10. Does your country have a national policy on data management?

- Yes
- No

10.1. Is this policy mandatory?

- Yes
- No

10.2. Is information on this policy available publicly on the web?

- Yes
- No

10.2.1. Please provide links to the relevant webpages

10.3. Please clarify your response if relevant

11. Does your country have a financial strategy on data management?

- Yes
- No

11.1. Please clarify your response if relevant

12. How many research performing organisations in your country have a policy on data management?

e.g. 1611

12.1. Please clarify your response if relevant

13. How many research funding organisations in your country have a policy on data management?

e.g. 1611

13.1. Please clarify your response if relevant

14. Does your country have a national policy on FAIR data?

- Yes
- No

14.1. Is this policy mandatory?

- Yes
- No

14.2. Is information on this policy available publicly on the web?

- Yes
- No

14.2.1. Please provide links to the relevant webpages

14.3. Please clarify your response if relevant

15. Does your country have a financial strategy on FAIR data?

- Yes
- No

15.1. Please clarify your response if relevant

16. How many research performing organisations in your country have a policy on FAIR data?

e.g. 1611

16.1. Please clarify your response if relevant

17. How many research funding organisations in your country have a policy on FAIR data?

e.g. 1611

17.1. Please clarify your response if relevant

18. Does your country have a national policy on open data?

- Yes
- No

18.1. Is this policy mandatory?

- Yes
- No

18.2. Is information on this policy available publicly on the web?

- Yes
- No

18.2.1. Please provide links to the relevant webpages

18.3. Please clarify your response if relevant

19. Does your country have a financial strategy on open data?

- Yes
- No

19.1. Please clarify your response if relevant

20. How many research performing organisations in your country have a policy on open data?

e.g. 1611

20.1. Please clarify your response if relevant

21. How many research funding organisations in your country have a policy on open data?

e.g. 1611

21.1. Please clarify your response if relevant

Software

22. Does your country have a national policy on open source software?

- Yes
- No

22.1. Is this policy mandatory?

- Yes
- No

22.2. Is information on this policy available publicly on the web?

- Yes
- No

22.2.1. Please provide links to the relevant webpages

22.3. Please clarify your response if relevant

23. Does your country have a financial strategy on open source software?

- Yes
- No

23.1. Please clarify your response if relevant

24. How many research performing organisations in your country have a policy on open source software?

e.g. 1611

24.1. Please clarify your response if relevant

25. How many research funding organisations in your country have a policy on open source software?

e.g. 1611

25.1. Please clarify your response if relevant

Services

26. Does your country have a national policy on offering services through EOSC?

- Yes
- No

26.1. Is this policy mandatory?

- Yes
- No

26.2. Is information on this policy available publicly on the web?

- Yes
- No

26.2.1. Please provide links to the relevant webpages

26.3. Please clarify your response if relevant

27. Does your country have a financial strategy on offering services through EOSC?

- Yes
- No

27.1. Please clarify your response if relevant

28. How many research performing organisations in your country have a policy on offering services through EOSC?

e.g. 1611

28.1. Please clarify your response if relevant

29. How many research funding organisations in your country have a policy on offering services through EOSC?

e.g. 1611

29.1. Please clarify your response if relevant

Infrastructure

30. Does your country have a national policy on connecting repositories to EOSC?

- Yes
- No

30.1. Is this policy mandatory?

- Yes
- No

30.2. Is information on this policy available publicly on the web?

- Yes
- No

30.2.1. Please provide links to the relevant webpages

30.3. Please clarify your response if relevant

31. Does your country have a financial strategy on connecting repositories to EOSC?

- Yes
- No

31.1. Please clarify your response if relevant

32. How many research performing organisations in your country have a policy on connecting repositories to EOSC?

e.g. 1611

32.1. Please clarify your response if relevant

33. How many research funding organisations in your country have a policy on connecting repositories to EOSC?

e.g. 1611

33.1. Please clarify your response if relevant

34. Does your country have a national policy on data stewardship?

- Yes
- No

34.1. Is this policy mandatory?

- Yes
- No

34.2. Is information on this policy available publicly on the web?

- Yes
- No

34.2.1. Please provide links to the relevant webpages

34.3. Please clarify your response if relevant

35. Does your country have a financial strategy on data stewardship?

- Yes
- No

35.1. Please clarify your response if relevant

36. How many research performing organisations in your country have a policy on data stewardship?

e.g. 1611

36.1. Please clarify your response if relevant

37. How many research funding organisations in your country have a policy on data stewardship?

e.g. 1611

37.1. Please clarify your response if relevant

38. Does your country have a national policy on long-term data preservation?

- Yes
- No

38.1. Is this policy mandatory?

- Yes
- No

38.2. Is information on this policy available publicly on the web?

- Yes
- No

38.2.1. Please provide links to the relevant webpages

38.3. Please clarify your response if relevant

39. Does your country have a financial strategy on long-term data preservation?

- Yes
- No

39.1. Please clarify your response if relevant

40. How many research performing organisations in your country have a policy on long-term data preservation?

e.g. 1611

40.1. Please clarify your response if relevant

41. How many research funding organisations in your country have a policy on long-term data preservation?

e.g. 1611

41.1. Please clarify your response if relevant

Skills/Training

42. Does your country have a national policy on skills/training for Open Science?

- Yes
- No

42.1. Is this policy mandatory?

- Yes
- No

42.2. Is information on this policy available publicly on the web?

- Yes
- No

42.2.1. Please provide links to the relevant webpages

42.3. Please clarify your response if relevant

43. Does your country have a financial strategy on skills/training for Open Science?

- Yes
- No

43.1. Please clarify your response if relevant

44. How many research performing organisations in your country have a policy on skills/training for Open Science?

e.g. 1611

44.1. Please clarify your response if relevant

45. How many research funding organisations in your country have a policy on skills/training for Open Science?

e.g. 1611

45.1. Please clarify your response if relevant

Assessment

46. Does your country have a national policy on incentives/rewards for Open Science?

- Yes
- No

46.1. Is this policy mandatory?

- Yes
- No

46.2. Is information on this policy available publicly on the web?

- Yes
- No

46.2.1. Please provide links to the relevant webpages

46.3. Please clarify your response if relevant

47. Does your country have a financial strategy on incentives/rewards for Open Science?

- Yes
- No

47.1. Please clarify your response if relevant

48. How many research performing organisations in your country have a policy on incentives/ rewards for Open Science?

e.g. 1611

48.1. Please clarify your response if relevant

49. How many research funding organisations in your country have a policy on incentives/ rewards for Open Science?

e.g. 1611

49.1. Please clarify your response if relevant

Engagement

50. Does your country have a national policy on citizen science?

- Yes
- No

50.1. Is this policy mandatory?

- Yes
- No

50.2. Is information on this policy available publicly on the web?

- Yes
- No

50.2.1. Please provide links to the relevant webpages

50.3. Please clarify your response if relevant

51. Does your country have a financial strategy on citizen science?

- Yes
- No

51.1. Please clarify your response if relevant

52. How many research performing organisations in your country have a policy on citizen science?

e.g. 1611

52.1. Please clarify your response if relevant

53. How many research funding organisations in your country have a policy on citizen science?

e.g. 1611

53.1. Please clarify your response if relevant

Practices

Publications

54. Does your country have a national monitoring on open access to publications?

- Yes
- No

54.1. Please clarify your response if relevant

55. Does your country have use cases on open access to publications?

- Yes
- No

55.1. Please provide a short description of the use case

55.2. Is information on this use case available publicly on the web?

- Yes
- No

55.2.1. Please provide links to the relevant webpages

55.3. Please clarify your response if relevant

56. How much did your country financially invest in open access to publications in 2021 in millions of Euros?

e.g. 16.11

56.1. Please clarify your response if relevant

57. How many publications were published in open access in your country in 2021?

Data to be extracted from OpenAIRE Open Science Observatory

57.1. Do you agree with the number of publications collected from OpenAIRE Open Science Observatory?

- Yes
- No

57.1.1. Please provide the correct number of publications

e.g. 1611

57.2. Please clarify your response if relevant

Data

58. Does your country have a national monitoring on data management?

- Yes
- No

58.1. Please clarify your response if relevant

59. Does your country have use cases on data management?

- Yes
- No

59.1. Please provide a short description of the use case

59.2. Is information on this use case available publicly on the web?

- Yes
- No

59.2.1. Please provide links to the relevant webpages

59.3. Please clarify your response if relevant

60. How much did your country financially invest in data management in 2021 in millions of Euros?

60.1. Please clarify your response if relevant

61. How many data management plans were published in your country in 2021?

61.1. Do you agree with the number of data management plans collected from DMPOnline?

- Yes
- No

61.1.1. Please provide the correct number of data management plans

61.2. Please clarify your response if relevant

62. Does your country have a national monitoring on FAIR data?

- Yes
- No

62.1. Please clarify your response if relevant

63. Does your country have use cases on FAIR data?

- Yes
- No

63.1. Please provide a short description of the use case

63.2. Is information on this use case available publicly on the web?

- Yes
- No

63.2.1. Please provide links to the relevant webpages

63.3. Please clarify your response if relevant

64. How much did your country financially invest in FAIR data in 2021 in millions of Euros?

e.g. 16.11

64.1. Please clarify your response if relevant

65. How many FAIR data sets were published in your country in 2021?

Data to be extracted from OpenAIRE Open Science Observatory

65.1. Do you agree with the number of FAIR data sets collected from OpenAIRE Open Science Observatory?

- Yes
- No

65.1.1. Please provide the correct number of FAIR data sets

e.g. 1611

65.2. Please clarify your response if relevant

66. Does your country have a national monitoring on open data?

- Yes
- No

66.1. Please clarify your response if relevant

67. Does your country have use cases on open data?

- Yes
- No

67.1. Please provide a short description of the use case

67.2. Is information on this use case available publicly on the web?

- Yes
- No

67.2.1. Please provide links to the relevant webpages

67.3. Please clarify your response if relevant

68. How much did your country financially invest in open data in 2021 in millions of Euros?

68.1. Please clarify your response if relevant

69. How many open data sets were published in your country in 2021?

69.1. Do you agree with the number of open data sets collected from OpenAIRE Open Science Observatory?

- Yes
- No

69.1.1. Please provide the correct number of open data sets

69.2. Please clarify your response if relevant

Software

70. Does your country have a national monitoring on open source software?

- Yes
- No

70.1. Please clarify your response if relevant

71. Does your country have use cases on open source software?

- Yes
- No

71.1. Please provide a short description of the use case

71.2. Is information on this use case available publicly on the web?

- Yes
- No

71.2.1. Please provide links to the relevant webpages

71.3. Please clarify your response if relevant

72. How much did your country financially invest in open source software in 2021 in millions of Euros?

e.g. 16.11

72.1. Please clarify your response if relevant

73. How many open source software sets were published in your country in 2021?

Data to be extracted from OpenAIRE Open Science Observatory

73.1. Do you agree with the number of open source software sets collected from OpenAIRE Open Science Observatory?

Yes

No

73.1.1. Please provide the correct number of open source software sets

e.g. 1611

73.2. Please clarify your response if relevant

Services

74. Does your country have a national monitoring on offering services through EOSC?

Yes

No

74.1. Please clarify your response if relevant

75. Does your country have use cases on offering services through EOSC?

Yes

No

75.1. Please provide a short description of the use case

75.2. Is information on this use case available publicly on the web?

Yes

No

75.2.1. Please provide links to the relevant webpages

75.3. Please clarify your response if relevant

76. How much did your country financially invest in offering services through EOSC in 2021 in millions of Euros?

e.g. 16.11

76.1. Please clarify your response if relevant

77. How many services were offered through EOSC in your country in 2021?

Data to be extracted from EOSC Portal

77.1. Do you agree with the number of services offered through EOSC collected from EOSC Portal?

- Yes
- No

77.1.1. Please provide the correct number of services offered through EOSC

e.g. 1611

77.2. Please clarify your response if relevant

Infrastructure

78. Does your country have a national monitoring on connecting repositories to EOSC?

- Yes
- No

78.1. Please clarify your response if relevant

79. Does your country have use cases on connecting repositories to EOSC?

- Yes
- No

79.1. Please provide a short description of the use case

79.2. Is information on this use case available publicly on the web?

- Yes
- No

79.2.1. Please provide links to the relevant webpages

79.3. Please clarify your response if relevant

80. How much did your country financially invest in connecting repositories to EOSC in 2021 in millions of Euros?

e.g. 16.11

80.1. Please clarify your response if relevant

81. How many repositories were connected to EOSC in your country in 2021?

Data to be extracted from EOSC Portal

81.1. Do you agree with the number of repositories connected to EOSC collected from EOSC Portal?

- Yes
- No

81.1.1. Please provide the correct number of repositories connected to EOSC

e.g. 1611

81.2. Please clarify your response if relevant

82. Does your country have a national monitoring on data stewardship?

- Yes
- No

82.1. Please clarify your response if relevant

83. Does your country have use cases on data stewardship?

- Yes
- No

83.1. Please provide a short description of the use case

83.2. Is information on this use case available publicly on the web?

- Yes
- No

83.2.1. Please provide links to the relevant webpages

83.3. Please clarify your response if relevant

84. How much did your country financially invest in data stewardship in 2021 in millions of Euros?

84.1. Please clarify your response if relevant

85. How many data stewards were employed in your country in 2021 in full-time equivalents?

85.1. Please clarify your response if relevant

86. Does your country have a national monitoring on long-term data preservation?

- Yes
- No

86.1. Please clarify your response if relevant

87. Does your country have use cases on long-term data preservation?

- Yes
- No

87.1. Please provide a short description of the use case

87.2. Is information on this use case available publicly on the web?

- Yes
- No

87.2.1. Please provide links to the relevant webpages

87.3. Please clarify your response if relevant

88. How much did your country financially invest in long-term data preservation in 2021 in millions of Euros?

88.1. Please clarify your response if relevant

89. How many repositories offered long-term data preservation in your country in 2021?

89.1. Do you agree with the number of repositories offering long-term data preservation collected from OpenAIRE Open Science Observatory?

- Yes
- No

89.1.1. Please provide the correct number of repositories offering long-term data preservation

89.2. Please clarify your response if relevant

Skills/Training

90. Does your country have a national monitoring on skills/training for Open Science?

- Yes
- No

90.1. Please clarify your response if relevant

91. Does your country have use cases on skills/training for Open Science?

- Yes
- No

91.1. Please provide a short description of the use case

91.2. Is information on this use case available publicly on the web?

- Yes
- No

91.2.1. Please provide links to the relevant webpages

91.3. Please clarify your response if relevant

92. How much did your country financially invest in skills/training for Open Science in 2021 in millions of Euros?

e.g. 16.11

92.1. Please clarify your response if relevant

93. How many educational curricula with an Open Science dimension were offered in your country in 2021?

e.g. 1611

93.1. Please clarify your response if relevant

Assessment

94. Does your country have a national monitoring on incentives/rewards for Open Science?

- Yes
- No

94.1. Please clarify your response if relevant

95. Does your country have use cases on incentives/rewards for Open Science?

- Yes
- No

95.1. Please provide a short description of the use case

95.2. Is information on this use case available publicly on the web?

- Yes
- No

95.2.1. Please provide links to the relevant webpages

95.3. Please clarify your response if relevant

96. How much did your country financially invest in incentives/rewards for Open Science in 2021 in millions of Euros?

e.g. 16.11

96.1. Please clarify your response if relevant

97. How many signatories of the Agreement on Reforming Research Assessment are from your country?

Data to be extracted from COARA

97.1. Do you agree with the number of signatories of the Agreement on Reforming Research Assessment collected from COARA?

- Yes
- No

97.1.1. Please provide the correct number of signatories of the Agreement on Reforming Research Assessment

e.g. 1611

97.2. Please clarify your response if relevant

Engagement

98. Does your country have a national monitoring on citizen science?

- Yes
- No

98.1. Please clarify your response if relevant

99. Does your country have use cases on citizen science?

- Yes
- No

99.1. Please provide a short description of the use case

99.2. Is information on this use case available publicly on the web?

- Yes
- No

99.2.1. Please provide links to the relevant webpages

99.3. Please clarify your response if relevant

100. How much did your country financially invest in citizen science in 2021 in millions of Euros?

e.g. 16.11

100.1. Please clarify your response if relevant

101. How many projects with a citizen science dimension were started in your country in 2021?

e.g. 1611

101.1. Please clarify your response if relevant

Feedback

102. Do you have any suggestions on how to improve this survey for future iterations?

Appendix A

1 Researcher - A professional engaged in the conception or creation of new knowledge, products, processes, methods and systems for scientific research as well as in the management of the research projects concerned

2 Research performing organisation - An (academic) institution that receives public funding for performing scientific research

3 Research funding organisation - An (academic) institution with significant responsibility for managing public research funding (i.e. which has a responsibility and authority to launch calls for proposals and grant money for scientific research)

4 Repository - Research infrastructure that provides a digital space to manage, store, offer, and re-use research outputs (including publications, data sets, and software code) and that is located in the country

6 Policy - Any policies, recommendations, regulations, and laws that are relevant for EOSC and Open Science and that are applicable at national, regional or institutional levels. A policy at national and regional level is applicable to all research performing and funding organisations
Open access-Ensuring that publications are available to read without a fee for the reader (e.g. through green open access as provided by a repository or through gold open access as provided by a publisher)
Publication-Research publications (including articles and books) that are peer-reviewed and have a digital object identifier

6.1 Mandatory - Ensuring that the policy is not only a recommendation but an obligation for the researcher or beneficiary and that the compliance will be monitored and checked

6.3 Immediate open access - Ensuring that publications are made openly available immediately upon publication without any embargo period

6.4 Retention of IPR - Ensuring that the author or institution retains the copyright on their publications

6.5 Open licensing - Ensuring that publications are accompanied by a worldwide, royalty-free, non-exclusive, irrevocable license to share (i.e. copy and redistribute the material in any medium or format) and adapt (i.e. remix, transform, and build upon the material) the publication for any purpose (including commercial)

14 FAIR data - Research data sets that are made machine actionable following the FAIR principles and have a digital object identifier

18 Open data - Research data sets that are openly accessible and reusable and have a digital object identifier

22 Open source software - Research software sets that are openly accessible and reusable and have a digital object identifier

26 Offering services through EOSC - Ensuring that research services are made available in the EOSC-Exchange (i.e. the set of federation services and other resources registered in EOSC by e-infrastructures, research infrastructures, and science clusters) to serve the needs of research communities

30 Connecting repositories to EOSC - Ensuring that repositories make their research outputs (including publications, data sets, and software code) discoverable through EOSC

38 Long-term data preservation - Ensuring that digital or physical access is provided (taking legitimate interests and constraints into account) to data or other results needed for the validation of the conclusions of peer-reviewed research publications for a substantial period of time (with a minimum of at least 5 years and preferably 10 years) or longer according to disciplinary deposition practices

57 Publications - Research publications (including articles and books) that are peer-reviewed and have a digital object identifier and of which at least one author is affiliated with a research performing organisation located in the country

61 Data management plan - A formal document that describes how a researcher will manage research data during and after a specific project and of which at least one author is affiliated with a research performing organisation located in the country

65 FAIR data set - Research data sets that are made machine actionable following the FAIR principles and have a digital object identifier and of which at least one author is affiliated with a research performing organisation located in the country

69 Open data set - Research data sets that are openly accessible and reusable and have a digital object identifier and of which at least one author is affiliated with a research performing organisation located in the country

73 Open source software set - Research software sets that are openly accessible and reusable and have a digital object identifier and of which at least one author is affiliated with a research performing organisation located in the country

77 Service - Research services that support researchers and research communities in doing research (e.g. services for the execution of research workloads and code or for the visualisation, analysis, and sharing of research data) and that are offered by a service-providing organisation located in the country

85 Data steward - Professional data stewards supporting researchers in research data management at a research performing organisation located in the country

93 Educational curricula with an Open Science dimension - Educational curricula that focus on or include (different) aspects of Open Science and that are recognised by the national educational system and are offered at a higher-education institution in the country

97 Signatories of the Agreement on Reforming Research Assessment - Any organisation that has signed the Agreement on Reforming Research Assessment by the Coalition for Advancing Research Assessment (COARA) and that is located in the country

101 Projects with a citizen science dimension - Research projects that focus on citizen science or include a citizen science dimension in the methodological approach and that are funded by a research funding organisation located in the country

Appendix B

Visit the [EOSC Observatory](#) to explore the data from the first EOSC Steering Board survey on National Contributions to EOSC 2021 and visit the [EOSC Observatory Zenodo Community](#) to

access all relevant documents for the surveys and EOSC Observatory.