eResearch infrastructure, practices and requirements

SurveyMonkey

1. I wish:			
		Response Percent	**Response Count**
View Participant Information Statement		12.8%	96
Start Survey		**87.2%**	**656**
		answered question	**752**
		skipped question	**10**

2. Please select your current institution

		Response Percent	Response Count
Australian Catholic University		0.0%	0
Charles Sturt University		8.0%	48
Macquarie University		11.4%	69
Southern Cross University		5.0%	30
The Australian National University		0.2%	1
The University of Newcastle		6.1%	37
The University of New England		7.8%	47
The University of New South Wales		3.3%	20
The University of Sydney		10.9%	66
University of Canberra		0.0%	0
University of Technology, Sydney		**19.6%**	**118**
University of Western Sydney		18.1%	109
University of Wollongong		8.1%	49
Other		1.5%	9
	If other, please specify		10

	answered question	**603**
	skipped question	**159**

3. Please identify your major disciplinary area(s). Tick all that apply.

		Response Percent	Response Count
21 - Science (General)		4.8%	30
22 - Social Sciences, Humanities and Arts (General)		11.1%	70
23 - Mathematical Sciences		3.0%	19
24 - Physical Sciences		3.7%	23
25 - Chemical Sciences		4.0%	25
26 - Earth Sciences		3.5%	22
27 - Biological Sciences		8.0%	50
28 - Information, Computing and Communication Sciences		10.0%	63
29 - Engineering and Technology		8.0%	50
30 - Agricultural, Veterinary and Environmental Sciences		4.5%	28
31 - Architecture, Urban Environment and Building		1.4%	9
32 - Medical and Health Sciences		**21.2%**	**133**
33 - Education		12.9%	81
34 - Economics		3.3%	21
35 - Commerce, Management, Tourism and Services		6.5%	41
36 - Policy and Political Science		1.4%	9
37 - Studies in Human Society		4.6%	29
38 - Behavioural and Cognitive Sciences		8.4%	53
39 - Law, Justice and Law Enforcement		5.3%	33
40 - Journalism, Librarianship and Curatorial Studies		1.0%	6
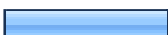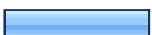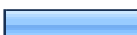
41 - The Arts		3.8%	24
42 - Language and Culture		4.1%	26
43 - History and Archaeology		3.7%	23
44 - Philosophy and Religion		1.8%	11
98 - Other		3.8%	24
	If other, please specify		43

answered question	628
skipped question	134

4. Write up to 3 keywords that best characterise your specialisation. E.g. bioinformatics, history of music, primary education

		Response Percent	Response Count
Keyword 1		**100.0%**	**622**
Keyword 2		89.2%	555
Keyword 3		74.4%	463

answered question	622
skipped question	140

5. Please indicate your current primary role.
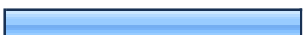
		Response Percent	Response Count
Postgraduate research student		20.6%	130
Academic/research staff: Early career		**26.0%**	**164**
Academic/research staff: Middle career		22.8%	144
Academic/research staff: Senior/long experience		21.4%	135
Emeritus, honorary, visiting or adjunct appointment		3.2%	20
Other		6.0%	38
	If other, please specify		38
		answered question	**631**
		skipped question	**131**

6. Prior to this survey, had you heard of the term "eResearch"?

		Response Percent	Response Count
Yes		**52.2%**	**331**
No		47.8%	303
		answered question	**634**
		skipped question	**128**

7. Which of the following types of software do you use for data handling and analysis?

	Don't use	Use occasionally	Use often	Rating Average	Rating Count
Spreadsheets	9.5% (56)	37.1% (218)	**53.4% (314)**	1.44	588
Databases	18.7% (108)	39.3% (227)	**41.9% (242)**	1.23	577
Statistical or numeric computation software (e.g. SPSS, MatLab)	30.8% (177)	27.8% (160)	**41.4% (238)**	1.11	575
Data mining software (e.g. Weka)	**85.2% (472)**	9.6% (53)	5.2% (29)	0.20	554
Modeling or simulation software	**63.6% (356)**	21.3% (119)	15.2% (85)	0.52	560
Visualisation software	**63.1% (353)**	23.3% (130)	13.6% (76)	0.50	559
GIS or other spatial software	**82.8% (456)**	11.6% (64)	5.6% (31)	0.23	551
Bibliometric or infometric software	**61.6% (343)**	19.6% (109)	18.9% (105)	0.57	557
Digital voice recognition and transcription	**69.0% (388)**	21.9% (123)	9.1% (51)	0.40	562
General qualitative data analysis software (e.g. NVivo)	**58.8% (332)**	28.8% (163)	12.4% (70)	0.54	565
Special visual or audio analysis software	**78.6% (430)**	14.6% (80)	6.8% (37)	0.28	547
Software specifically developed for the analysis of your data by yourself or others	**60.5% (331)**	16.8% (92)	22.7% (124)	0.62	547
Other	**81.6% (222)**	5.1% (14)	13.2% (36)	0.32	272

If other, please describe	53
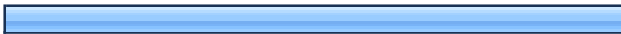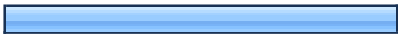
answered question	**601**
skipped question	**161**

8. List up to 3 main digital research methods or tools you don't use, but would use, if you had support. Note: These methods and tools may be from the question above

		Response Percent	Response Count
Research method or tool 1		**100.0%**	**352**
Research method or tool 2		63.4%	223
Research method or tool 3		28.4%	100
	answered question		352
	skipped question		410

9. Do you use any High Performance Computing (HPC) facilities in your research? E.g. parallel or cluster systems

		Response Percent	Response Count
Yes		9.2%	55
No		**75.7%**	**452**
Not sure/don't know		15.1%	90
If yes, please name which HPC facilities you use (e.g. NCI, APAC, ac3, compute grids)			44
	answered question		597
	skipped question		165

10. How much of your research is collaborative?

		Response Percent	Response Count
Nearly all collaborative		**44.2%**	**260**
About half		31.5%	185
Nearly all individual		24.3%	143
		answered question	588
		skipped question	174

11. Indicate where your research collaborations occur. Tick all that apply.

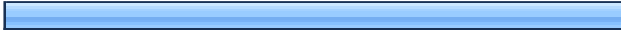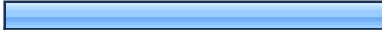|		Response Percent	Response Count
Within my research group		**70.1%**	**405**
Outside my research group within my faculty		36.9%	213
With other faculties within my university		33.9%	196
With other universities within Australia		52.6%	304
With universities or institutions in other countries		48.8%	282
With non-university research agencies (e.g. CSIRO)		18.2%	105
Beyond academia, with industry partners		38.8%	224
None (i.e. I am not involved in collaborative research)		7.3%	42
Other		3.5%	20
		If other, please specify	26
		answered question	578
		skipped question	184

12. When you collaborate, how often do you use the following technologies for communication and project management?

	Don't use	Use occasionally	Use often	Rating Average	Rating Count
Face to face meetings	2.7% (15)	38.5% (214)	**58.8% (327)**	2.56	556
Telephone calls	9.2% (50)	41.8% (228)	**49.1% (268)**	2.40	546
Email	1.8% (10)	5.0% (28)	**93.2% (517)**	2.91	555
Discussion fora (e.g. e-lists)	**57.9% (305)**	32.8% (173)	9.3% (49)	1.51	527
Audio conferencing, audio meetings	37.5% (200)	**44.8% (239)**	17.6% (94)	1.80	533
Video conferencing via desktop or laptop software (e.g. Skype)	34.1% (183)	**42.6% (229)**	23.3% (125)	1.89	537
Video conferencing in a dedicated room or facility (e.g. Access Grid)	**71.0% (373)**	22.9% (120)	6.1% (32)	1.35	525
Web 2.0 content management tools (e.g. wiki, blog)	**67.9% (355)**	24.5% (128)	7.6% (40)	1.40	523
File and document sharing tools (e.g. file repositories)	39.2% (208)	**40.9% (217)**	19.8% (105)	1.81	530
Collaborative document writing tools (e.g. Google Docs)	**64.3% (339)**	26.8% (141)	8.9% (47)	1.45	527
Special project and task management tools (e.g. trac, dotProject)	**92.1% (477)**	6.6% (34)	1.4% (7)	1.09	518
Virtual research environments (VRE)	**93.1% (486)**	5.4% (28)	1.5% (8)	1.08	522
Social networking software (e.g. Facebook)	**72.8% (382)**	19.8% (104)	7.4% (39)	1.35	525
Other	**89.1% (164)**	4.9% (9)	6.0% (11)	1.17	184

If other, please describe	16

answered question	**561**
skipped question	**201**

13. Which of the following methods and technologies do you use to disseminate research findings?

	Don't use	Use occasionally	Use often	Rating Count
Conventional publishing (e.g. journals, books, proceedings)	1.6% (9)	15.2% (87)	**83.2% (475)**	571
eJournals published by commercial publishers or scholarly societies	34.2% (188)	**39.6% (218)**	26.2% (144)	550
Open access eJournals	**45.0% (243)**	37.4% (202)	17.6% (95)	540
eBooks published by commercial publishers or scholarly societies	**76.4% (405)**	17.4% (92)	6.2% (33)	530
Open access eBooks	**84.4% (445)**	10.8% (57)	4.7% (25)	527
Online conference proceedings	31.4% (172)	**49.4% (270)**	19.2% (105)	547
Digital institutional repository or archive	**55.2% (294)**	28.9% (154)	15.9% (85)	533
Digital disciplinary repository or archive (e.g. arXiv, SSRN)	**81.5% (431)**	12.1% (64)	6.4% (34)	529
Departmental/institutional website, blog or wiki	**57.8% (307)**	30.9% (164)	11.3% (60)	531
Project website, blog or wiki	**63.8% (338)**	24.5% (130)	11.7% (62)	530
Personal website, blog or wiki	**68.1% (360)**	18.3% (97)	13.6% (72)	529
Other	**85.0% (170)**	7.0% (14)	8.0% (16)	200

If other, please describe	28

answered question	**573**
skipped question	**189**

14. List up to 3 main areas of research collaboration and dissemination that would most benefit from ICT support. Note: These areas may be from the questions above (12-13)

		Response Percent	Response Count
Collaboration and dissemination area 1		100.0%	303
Collaboration and dissemination area 2		61.4%	186
Collaboration and dissemination area 3		31.7%	96
	answered question		303
	skipped question		459

15. List up to 3 phrases that describe the nature of your main digital and non-digital data sets E.g. laboratory measurements, survey data, interview transcripts, behavioural observations, news data, X-rays, photographs, genotyping or sequencing data, linguistic corpora

		Response Percent	Response Count
Data type 1		100.0%	493
Data type 2		85.2%	420
Data type 3		51.3%	253
	answered question		493
	skipped question		269

16. How often do you use data obtained in the following ways?

	Don't use	Use occasionally	Use often	Rating Average	Rating Count
Collected or created by yourself	4.7% (26)	18.4% (102)	**76.9% (426)**	2.72	554
Collected or created as part of a team	11.8% (64)	34.6% (188)	**53.6% (291)**	2.42	543
Acquired directly from another researcher or team	34.6% (184)	**50.9% (271)**	14.5% (77)	1.80	532
Acquired from academic data archives or repositories	**45.6% (243)**	35.3% (188)	19.1% (102)	1.74	533
Acquired from third party research organisations (e.g. the Australian Bureau of Statistics, OECD)	**41.5% (220)**	**41.5% (220)**	17.0% (90)	1.75	530
Acquired from commercial online sources (e.g. Lexis-Nexis, Financial Times, Euromonitor)	**72.9% (380)**	17.9% (93)	9.2% (48)	1.36	521
Other	**88.1% (170)**	6.2% (12)	5.7% (11)	1.18	193

If other, please describe	19

answered question	**557**
skipped question	**205**

17. What proportion of your research data and material is in digital format?

		Response Percent	Response Count
0%-20%		6.8%	38
21%-40%		8.6%	48
41%-60%		12.0%	67
61%-80%		23.0%	128
81%-100%		**49.6%**	**276**

answered question	**557**
skipped question	**205**
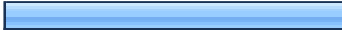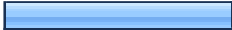
18. How much digital research data do you currently store? Note: 1 gigabyte is about 1000 megabytes and can be stored on less than 2 CDs

	Response Percent	Response Count
None	3.4%	19
Less than 10 gigabytes	**40.2%**	**223**
Less than 1 terabyte	38.4%	213
Less than 10 terabytes	13.2%	73
More than 10 terabytes	4.9%	27
answered question		555
skipped question		207

19. Do you need more storage for your research data?

	Response Percent	Response Count
Yes	31.2%	174
No	**47.9%**	**267**
Not applicable	2.3%	13
Don't know	18.5%	103
If yes, how much do you need in total? (e.g. 500 gigabytes)		82
answered question		557
skipped question		205

20. Do you allow researchers from outside your team/project to access your research data?

		Response Percent	Response Count
No, none of the data (skip next two questions and go to Question 23)		**54.7%**	**296**
Yes, some of the data		36.4%	197
Yes, most of the data		8.9%	48
		answered question	541
		skipped question	221

21. If yes, in which of the following ways do you typically provide access to your data? Tick all that apply.

		Response Percent	Response Count
Publish data online (e.g. on a public project website)		31.9%	79
Deposit data to open data repositories		15.7%	39
Submit data for publishing when I publish papers in eJournals		25.4%	63
Allow access my data via privately negotiated access		**72.6%**	**180**
Access to my data is provided by a third party (e.g. the experimental facility, institution, funding body)		11.3%	28
Other		5.2%	13
	If other, please describe		19
		answered question	248
		skipped question	514
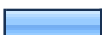
22. If there are restrictions on accessing your data, what are the reasons for these restrictions? Tick all that apply.

		Response Percent	Response Count
Competitive research advantage		39.9%	129
Commercialisation potential		18.3%	59
Privacy and confidentiality issues		**59.1%**	**191**
Other ethical issues		29.1%	94
Licensing issues		9.9%	32
Technical difficulty of making data available		22.9%	74
Lack of incentive to make data available		21.1%	68
Lack of usefulness of my data to others		14.2%	46
Other reasons		6.2%	20
None		8.7%	28
	If other, please describe		22

answered question	**323**
skipped question	**439**
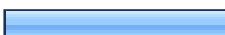
23. Do you face any data management or preservation issues in your research?

		Response Percent	Response Count
No		**42.1%**	**230**
Yes		33.7%	184
Not sure/ don't know		24.2%	132
If yes, please describe them			149
	answered question		546
	skipped question		216

24. Do you or your research team have an explicit research data management plan?

		Response Percent	Response Count
Yes		27.5%	150
No		**57.5%**	**314**
Not sure/don't know		15.0%	82
	answered question		546
	skipped question		216

25. Where do you store your data during a project? Tick all that apply

		Response Percent	Response Count
CDs or DVDs		28.4%	155
USB/flash drives		61.9%	338
Internal computer hard drive		**80.8%**	**441**
External hard drives		66.3%	362
Tapes		4.6%	25
Storage on a local area network		35.7%	195
Storage within a departmental computing centre		10.1%	55
Storage within a central IT or other university affiliated computing centre		21.4%	117
Commercial data storage facility		4.9%	27
State or national data centre or repository		1.6%	9
Disciplinary data centre or repository		0.5%	3
Not sure/ don't know		0.4%	2
Other		7.0%	38
	If other, please describe		48
	answered question		**546**
	skipped question		**216**

26. Who typically stores and cares for your data after the end of a project?

		Response Percent	Response Count
Nobody		3.3%	18
Me or other project/team member		**81.2%**	**446**
An internal faculty or university service		8.0%	44
A state or national data centre or repository		0.5%	3
A disciplinary data centre or repository		0.4%	2
Not sure/don't know		5.6%	31
Other		0.9%	5
	If other, please describe		11

answered question	**549**
skipped question	**213**

27. Who typically provides you with ICT-related support for your research? Tick all that apply.

		Response Percent	Response Count
Central university IT services		**55.7%**	**303**
IT staff within a school/faculty		38.2%	208
IT staff within a research centre/group		13.2%	72
IT personnel on a project		3.1%	17
Research personnel on a project		15.8%	86
Project partners		7.7%	42
Colleagues		18.8%	102
PhD or graduate students		11.2%	61
Nobody		16.7%	91
Other		4.8%	26
	If other, please describe		37
		answered question	544
		skipped question	218
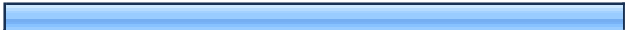
28. How well does present ICT support match your research needs?

		Response Percent	Response Count
Not at all		5.7%	31
Minimally		26.2%	142
Moderately		**33.0%**	**179**
Quite well		21.6%	117
Very well		8.7%	47
Not applicable (I don't need ICT support)		4.8%	26

Please, explain your answer	69

answered question	542
skipped question	220
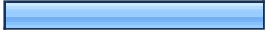
29. Have you heard about or used services provided by the following Australian bodies?

	Never heard of them	Heard of them	Used their services	Rating Count
AAF - Australian Access Federation	91.9% (496)	7.0% (38)	1.1% (6)	540
ANDS - Australian National Data Service	77.5% (417)	20.6% (111)	1.9% (10)	538
ARCS - Australian Research Collaboration Service	77.4% (417)	20.4% (110)	2.2% (12)	539
Intersect - an eResearch Consortium of NSW Universities	64.8% (350)	29.3% (158)	5.9% (32)	540
NCI - National Computational Infrastructure	82.4% (444)	15.0% (81)	2.6% (14)	539
NCRIS - National Collaborative Research Infrastructure Strategy	76.6% (407)	21.3% (113)	2.1% (11)	531

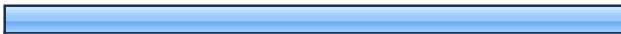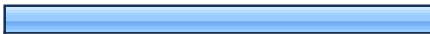|	
answered question	546
skipped question	216

30. List up to 3 specific ICT technical or human support areas that would enhance your research capacities. E.g., this could include access to specific research software and collaboration platforms, data management services and expertise in data analysis

	Response Percent	Response Count
ICT service or support 1	**100.0%**	**291**
ICT service or support 2	57.7%	168
ICT service or support 3	32.0%	93
	answered question	291
	skipped question	471
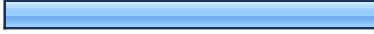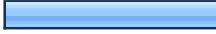
31. How important, do you think, is eResearch for the future progress of your research field?

	Response Percent	Response Count
Very important	**41.7%**	**225**
Important	28.9%	156
Moderately important	19.7%	106
Of little importance	7.1%	38
Unimportant	2.0%	11
Not applicable (ICT is essentially irrelevant)	0.6%	3
Briefly explain your answer		143
	answered question	539
	skipped question	223

32. Write up to 3 phrases that describe the most important future applications of ICT in your research field.

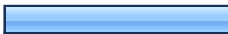|		Response Percent	Response Count
Purpose 1		**100.0%**	**309**
Purpose 2		69.3%	214
Purpose 3		36.2%	112
	answered question		309
	skipped question		453

33. Write up to 3 phrases that describe the most important challenges for the application of ICT in your research field now and in the near future.

		Response Percent	Response Count
Challenge 1		**100.0%**	**279**
Challenge 2		59.9%	167
Challenge 3		34.4%	96
	answered question		279
	skipped question		483

34. Would you be willing to participate in a follow-up focus group? IMPORTANT NOTE: Your participation is entirely voluntary. Even if you answer "yes" now, you may change your mind at a later time.

		Response Percent	Response Count
Yes		36.0%	192
No		**64.0%**	**341**
		answered question	533
		skipped question	229

35. Would you be willing to participate in discussions with a group aimed at developing eResearch support and services in NSW? IMPORTANT NOTE: These discussions are not a part of this study. If you answer "Yes", your survey answers and contact details could be used by Intersect and your university's IT division to organise further meetings and discussions with you. Your answers will remain confidential, only authorised individuals will have access to them, and will be used strictly for eResearch development purposes.

		Response Percent	Response Count
Yes		32.3%	170
No		**67.7%**	**356**
		answered question	526
		skipped question	236
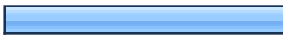
36. Would you like to receive a brief report of the survey?

		Response Percent	Response Count
Yes		**57.8%**	**307**
No		42.2%	224
		answered question	531
		skipped question	231

37. Would you like to receive announcements about other eResearch activities from Intersect (an eResearch consortium of NSW universities)?

		Response Percent	Response Count
Yes		49.0%	257
No		**51.0%**	**268**
		answered question	525
		skipped question	237

38. Would you like to receive announcements about other eResearch activities from your university?

		Response Percent	Response Count
Yes		**55.0%**	**292**
No		45.0%	239
		answered question	531
		skipped question	231

39. If you answered "yes" to one or more questions above, please indicate your email address. IMPORTANT NOTE: The email will be used strictly for the purposes that you indicated in the answers to Questions 34-38 above.

	Response Count
	326
answered question	326
skipped question	436

40. If you have any comments about this survey, or would like to provide more information or comments about the use of digital technologies in your research, please use the space below.

	Response Count
25 of 25	
	55
answered question	55
skipped question	707