



2016 IT Risk/Reward Barometer India Results

November 2016

www.isaca.org/risk-reward-barometer

Number of respondents (n) = 282

Respondents are Oceania business and IT professionals who are members of ISACA.

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1. Which of the following augmented reality applications, if any, has your current workplace used for business purposes in the past year (to the best of your knowledge)? Select all that apply.

Wearable devices (e.g., Google Glass)	4%
Holographic meetings	1%
Remote business applications (e.g., remote diagnostics, remote healthcare, etc.)	17%
Transportation applications (e.g., vehicle HUD, etc.)	9%
Digital navigation tablets (e.g., for warehouse searching efficiency)	5%
Smartphone apps that overlay the camera view with additional information or graphics on top of the real scene	15%
My organization has not used augmented reality applications for business purposes in the past year, and does not plan to use them in the next year	34%
My organization has not used augmented reality applications for business purposes in the past year, but plans to do so within the next year	17%
None of these	15%
Unsure	10%
Other (please specify)	2%

2. What is the biggest barrier, if any, to adopting augmented reality at your organization?

Insufficient budget	16%
Insufficient staff resources	1%
Lack of skills/knowledge from existing staff	20%
Insufficient ROI	10%
Security concerns	20%
There are no barriers	12%
Unsure	17%
Other (please specify)	2%

3. To what extent do you agree or disagree that augmented reality could lead to the following workplace benefits?

	Completely agree	Somewhat agree	Somewhat disagree	Completely disagree	Don't know
New business models/ offerings	39%	47%	7%	1%	5%
Better marketing	37%	48%	8%	1%	6%
Better collaboration	27%	59%	6%	1%	7%
Increased efficiency	28%	61%	5%	1%	6%
Resource optimization	26%	53%	11%	2%	8%
Improved safety	11%	39%	32%	6%	12%
Financial savings	14%	51%	22%	4%	10%

4. Virtual graffiti programs enable individuals to post negative or inappropriate comments about places via augmented reality apps. Does your organization have a program in place to monitor negative comments on augmented reality programs (e.g., virtual graffiti)?

Yes	11%
No	52%
Unsure	37%

5. Does your organization have a way to detect any publicly posted social media posts, picture or videos that are geotagged to your business or tagged to your signage or advertisements and could show up in augmented reality applications that aggregate such information?

Yes	25%
No	48%
Unsure	27%

6. Does your organization have a policy that addresses staff use of augmented reality apps in the workplace?

Yes, we allow them with no restrictions	2%
Yes, and we allow them with limitations	14%
Yes, and we prohibit them	11%
No	52%
Unsure	20%

7. Do the benefits of augmented reality outweigh the risks?

Yes	30%
No	21%
Unsure	49%

8. Which industries do you think will benefit the most from augmented reality? Select all that apply.

Top four responses are bolded.

Financial/Banking	28%
Insurance	13%
Entertainment	55%
Travel	51%
Transportation	38%
Aerospace	35%
Retail	38%
Government/Military	32%
Technology	43%
Manufacturing	28%
Engineering	29%
Telecommunications	32%
Mining/Construction/Petroleum/Agriculture	17%
Utilities	24%
Legal	6%

Real Estate	34%
Healthcare/medical	50%
Marketing/media	51%
Education	56%
Other (please specify)	1%
Unsure	3%

9. How concerned should organizations be about the privacy risks of augmented reality?

Very concerned	65%
Somewhat concerned	24%
Not too concerned	4%
Not at all concerned	0%
Unsure	7%

10. How concerned should consumers be about the privacy risks of augmented reality?

Very concerned	60%
Somewhat concerned	30%
Not too concerned	5%
Not at all concerned	0%
Unsure	5%

11. Have you used augmented reality applications for personal use within the past year?

Yes	9%
No	91%

12. Have you used augmented reality applications for business use within the past year?

Yes	5%
No	95%

13. Do you think your IT department is aware of all of your organization's connected devices (e.g., connected thermostats, TVs, fire alarms, cars, etc.)?

Yes	47%
No	27%
Unsure	26%

14. Does your organization have a policy regarding the use of cloud-based applications without involving IT?

Yes, we allow it	22%
Yes, we prohibit it	41%
No, we do not have a policy regarding putting workloads into the cloud	24%
Unsure	14%

15. Does your organization have a policy regarding staff deploying apps to get their job done?

Yes, we allow it	16%
Yes, we prohibit it	39%
No, we do not have a policy about staff using apps	32%
Unsure	13%

16. What do you think is the likelihood of an organization being breached through an IoT device?

Low	6%
Medium	32%
High	49%
Unsure	14%

17. Which of the following, if any, do you see as significant security concerns for organizations, related to the IoT? Select all that apply.

Vulnerabilities in the device themselves	79%
Data leakage	83%
Access control	72%
Asset management	41%
IoT does not pose any significant security concerns	2%
Other (please specify)	2%

18. To what extent, if any, do you agree or disagree with the following statements about IoT device manufacturers?

	Completely agree	Somewhat agree	Somewhat disagree	Completely disagree
Device manufacturers are implementing sufficient security measures in IoT devices.	5%	52%	35%	9%
Manufacturers make consumers sufficiently aware of the information that IoT devices can collect.	7%	45%	33%	15%

19. Is your organization maximizing the potential of the data it collects through IoT devices/applications?

Yes	15%
No	40%
Unsure	44%

Demographics

20. In what industry do you work?

Financial/Banking	32%
Insurance	2%
Public accounting	4%
Transportation	0%
Aerospace	0%
Retail/Wholesale/Distribution	1%
Government/Military	1%
Technology Services/Consulting	35%
Manufacturing/Engineering	9%
Telecommunications/Communications	2%
Mining/Construction/Petroleum/Agriculture	1%
Utilities	1%

Legal/Law/Real Estate	1%
Healthcare/Medical	2%
Pharmaceutical	1%
Advertising/Marketing/Media	0%
Education/Student	2%
Other	6%

21. How many people are employed in your enterprise, including all branches, divisions and subsidiaries?

Fewer than 50	15%
50-149	7%
150-499	11%
500-1,499	7%
1,500-4,999	8%
5,000-9,999	7%
10,000-14,9	3%
15,000 or more	43%

22. Which of the following is closest to your job title?

Student	0%
External consultant	8%
Professor/teacher	2%
Practitioner	8%
Supervisor	5%
Manager	43%
Director	7%
Vice president	9%
CIO/CISO/CAE	7%
President/CEO	4%
Other	7%

23. Please select your gender.

Female	11%
Male	88%
Prefer not to answer	1%

24. Please select your age group.

Less than 20 years old	0%
20 to 25 years old	1%
26 to 30 years old	10%
31 to 35 years old	20%
36 to 40 years old	23%
41 to 45 years old	16%
46 to 50 years old	12%
51 to 55 years old	9%
56 to 60 years old	5%
61 to 65 years old	3%
66 to 70 years old	0%
71 years old or older	0%
Prefer not to answer	1%

About ISACA's 2016 IT Risk/Reward Barometer

The annual IT Risk/Reward Barometer is a global indicator of trust in information. Conducted by ISACA, a global association of more than 140,000 IT security, assurance, risk and governance professionals, the Barometer polls thousands of business and IT professionals and consumers worldwide to uncover attitudes and behaviors about essential technologies and information, and the trade-offs people make to balance risk and reward. The study is based on online polling of 6,591 ISACA members among 140 countries, including 282 from India, from 19-29 September 2016. Additional online surveys were fielded by M/A/R/C Research among 1,230 consumers in the US, 1,000 consumers in the UK, 1,000 consumers in Australia, 1,001 consumers in India and 1,000 consumers in Singapore. The US survey ran 6-8 August 2016, and the UK, Australia, India and Singapore surveys ran 12-23 August 2016. At a 95 percent confidence level, the margin of error for each individual country sample is +/- 3.1 percent.

To see the full results, visit www.isaca.org/risk-reward-barometer.

Note: Due to rounding to the nearest whole number, responses may not add up to 100%.