CHIME and AEHIS Cybersecurity Survey

October 2016

CHIME & AEHIS

Fielding and Reponses

Responses: 190

Survey fielded: Approximately a month (8/29-9/30)

Demographics

In what state or U.S. territory do you currently work?

Top 5 States

1. California 11.11%
2. Florida 5.82%
3. Texas 5.82%
4. Pennsylvania 5.29%
5. Ohio 4.76%

Answered: 189 Skipped: 2

Answer Choices	Responses	
Alabama	1.06%	2
Alaska	1.06%	2
American Samoa	0.00%	0
Arizona	3.17%	6
Arkansas	0.53%	1
California	11.11%	21
Colorado	1.06%	2
Connecticut	1.06%	2
Delaware	0.53%	1
District of Columbia (DC)	0.53%	1
Florida	5.82%	11
Georgia	2.65%	5
Guam	0.00%	0
Hawaii	0.00%	0
Idaho	0.53%	1
Illinois	4.23%	8
Indiana	1.59%	3
Iowa	2.65%	5
Kansas	1.59%	3
Kentucky	1.59%	3
Louisiana	0.00%	0
Maine	1.06%	2
Maryland	1.06%	2
Massachusetts	1.59%	3
Michigan	3.70%	7
Minnesota	2.65%	5
Mississippi	0.00%	0
Missouri	2.12%	4
Montana	0.00%	0
Nebraska	1.59%	3
Nevada	0.00%	0
New Hampshire	0.53%	1
New Jersey	3.17%	6
New Mexico	1.59%	3
New York	3.70%	7
North Carolina	3.17%	6
North Dakota	0.00%	0
Northern Marianas Islands	0.00%	0
Ohio	4.76%	9
Oklahoma	1.06%	2
Oregon	2.12%	4
Pennsylvania	5.29%	10
Puerto Rico	0.00%	0
Rhode Island	0.00%	0
South Carolina	0.00%	0
South Dakota	0.00%	0
Tennessee	3.17%	6
Texas	5.82%	11
Utah	2.12%	4
Vermont	1.06%	2
Virginia	0.53%	1
Virgin Islands	0.00%	0
Washington	3.70%	7
West Virginia	1.59%	3
Wisconsin	2.12%	4
Wyoming	0.00%	0

CHiME & AEHiS

Responses Evaluated by Bed Size

- Less than 100 beds, Other Care Providers w/ Inpatient beds: 36 respondents
- 100 to 399 beds: 48 respondents
- 400 or more beds: 78 respondents
- All respondents: 190

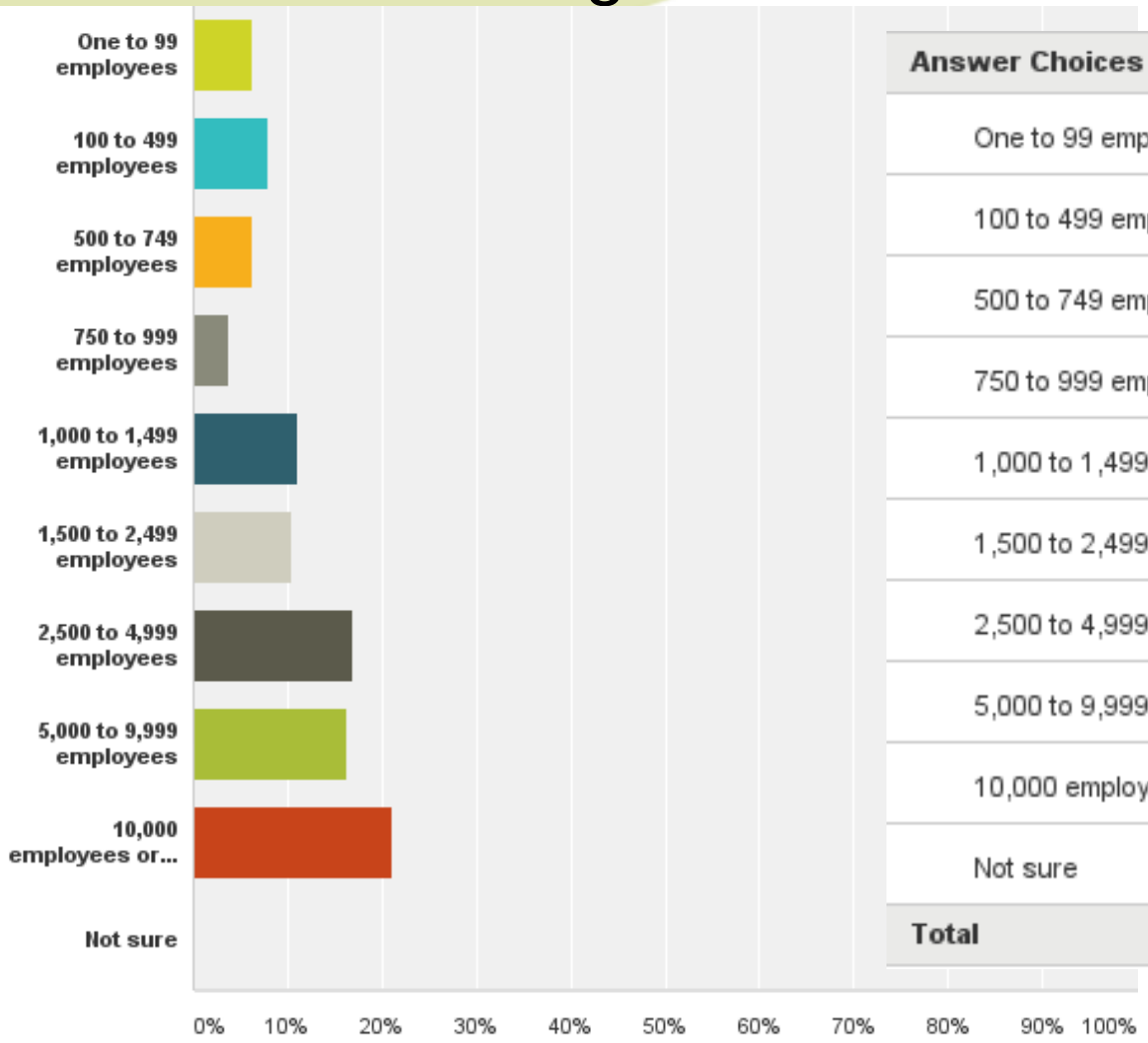
CHiME & AEHiS

What best describes your organization type?

Answer Choices	Responses	
Hospital/Acute Care Facility	**35.79%**	68
Integrated Delivery Network/System	**34.74%**	66
Other (please specify)	**8.95%**	17
Ambulatory Facility/Clinic	**3.68%**	7
Group Practice/Clinic	**3.68%**	7
Behavioral Health Care	**3.16%**	6
Health Insurer/Insurance Organization	**3.16%**	6
Nursing Home/Long Term Care	**2.11%**	4
HIE	**1.58%**	3
MSO	**1.05%**	2
Rehabilitation	**1.05%**	2
Home Health Care	**0.53%**	1
Hospice	**0.53%**	1
Lab Services	**0.00%**	0
Managed Care	**0.00%**	0
Surgical Center	**0.00%**	0
Total		**190**

CHiME & AEHiS

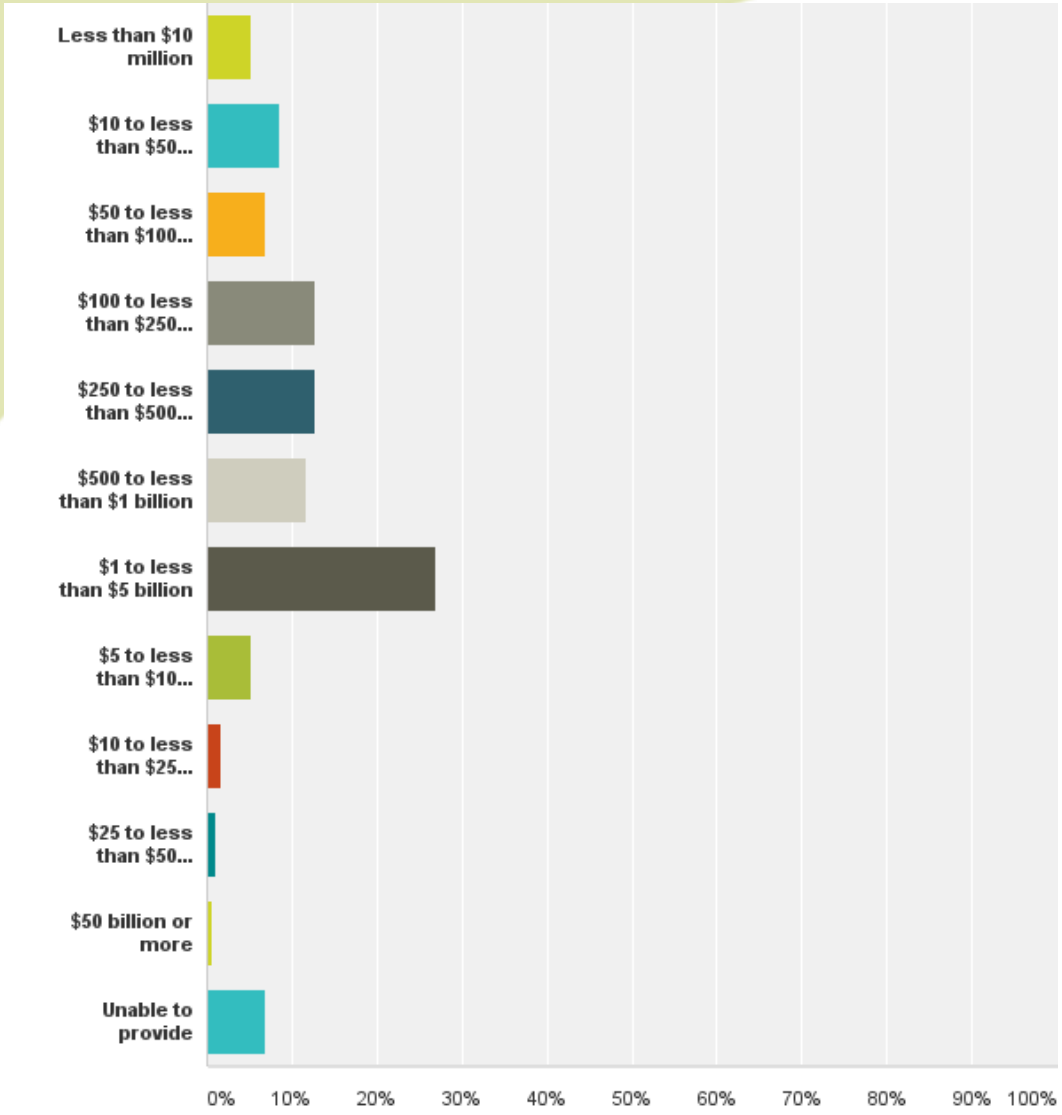
What is the total number of employees across your entire organization, including all of its branches, divisions, and subsidiaries?



Answer Choices	Responses	
One to 99 employees	**6.32%**	12
100 to 499 employees	**7.89%**	15
500 to 749 employees	**6.32%**	12
750 to 999 employees	**3.68%**	7
1,000 to 1,499 employees	**11.05%**	21
1,500 to 2,499 employees	**10.53%**	20
2,500 to 4,999 employees	**16.84%**	32
5,000 to 9,999 employees	**16.32%**	31
10,000 employees or more	**21.05%**	40
Not sure	**0.00%**	0
Total		**190**

CHiME & AEHiS

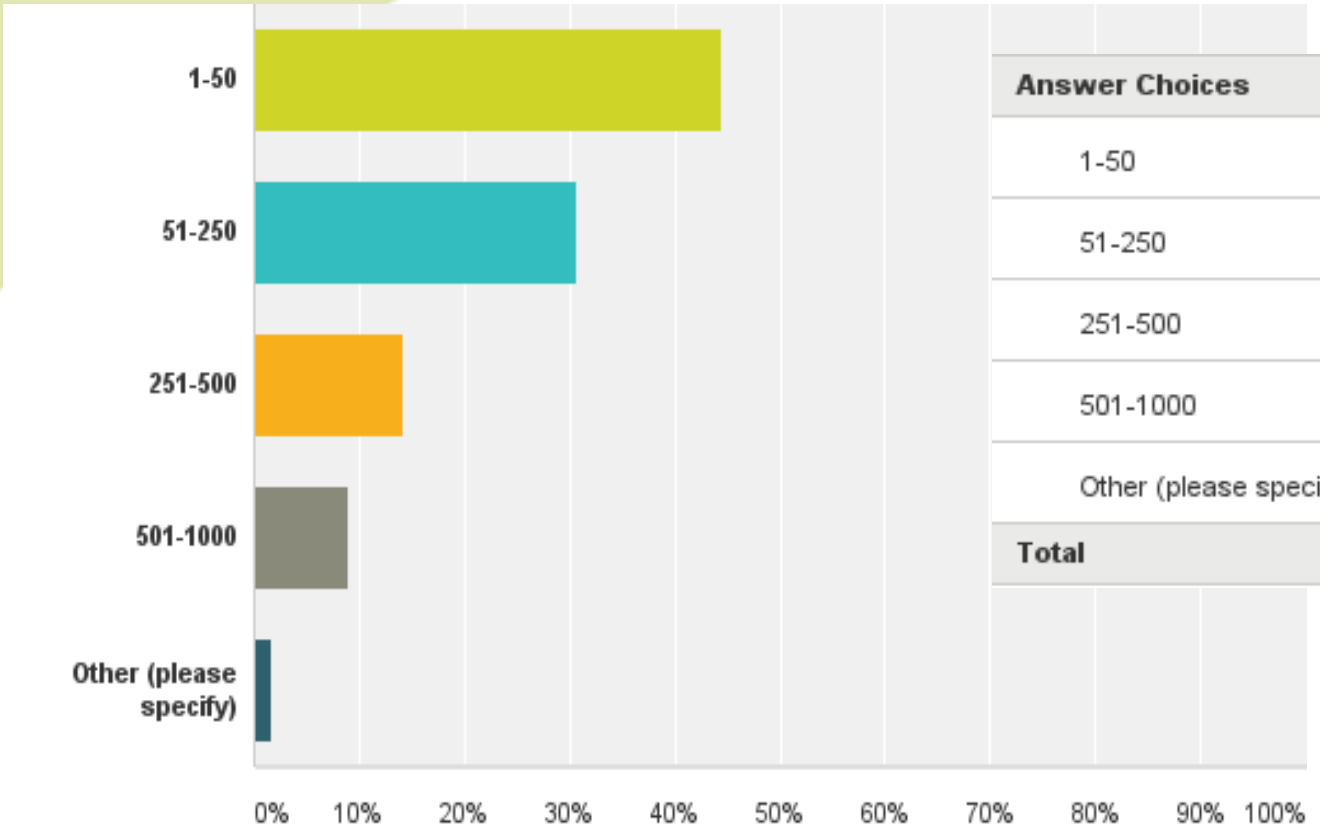
What is your organization's annual revenue?



Answer Choices	Responses	
Less than $10 million	**5.29%**	10
$10 to less than $50 million	**8.47%**	16
$50 to less than $100 million	**6.88%**	13
$100 to less than $250 million	**12.70%**	24
$250 to less than $500 million	**12.70%**	24
$500 to less than $1 billion	**11.64%**	22
$1 to less than $5 billion	**26.98%**	51
$5 to less than $10 billion	**5.29%**	10
$10 to less than $25 billion	**1.59%**	3
$25 to less than $50 billion	**1.06%**	2
$50 billion or more	**0.53%**	1
Unable to provide	**6.88%**	13
Total		**189**

CHiME & AEHiS

What is your total number of IT staff?



Answer Choices	Responses	
1-50	**44.44%**	84
51-250	**30.69%**	58
251-500	**14.29%**	27
501-1000	**8.99%**	17
Other (please specify)	**1.59%**	3
Total		**189**

Showing 3 responses

- 1350
  9/26/2016 3:40 PM
- 3600
  8/31/2016 10:16 PM
- > 1000
  8/30/2016 2:24 PM

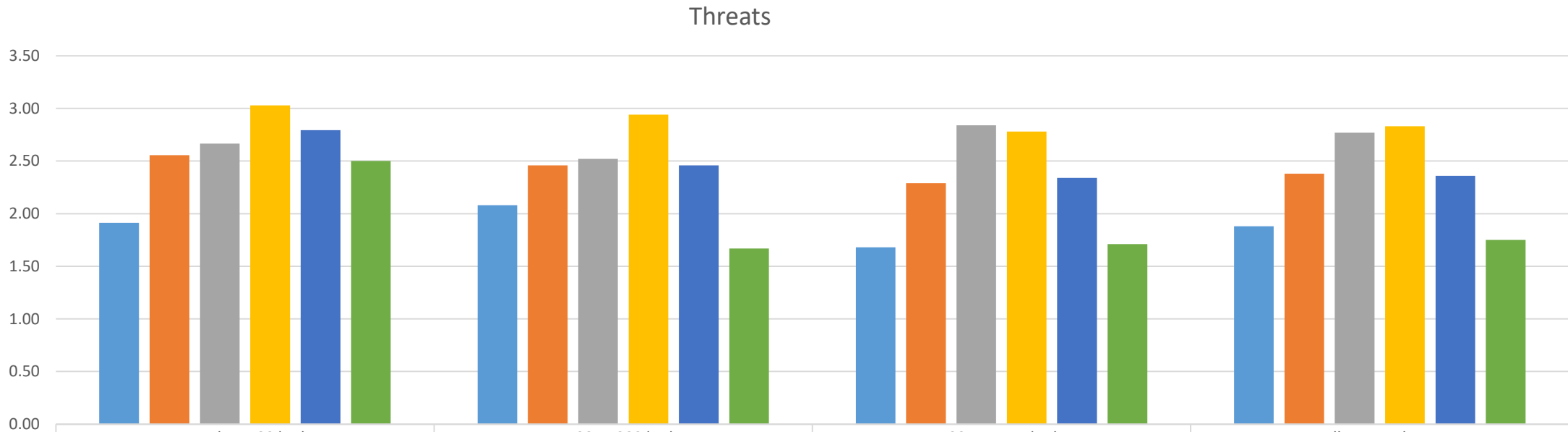
CHiME & AEHiS

Responses on Threats and Vulnerabilities

CHiME & AEHiS

Q 8. Thinking about your own organization, please rate the following potential security threats on the degree of concern you have for each.

Scale: 1 being your top concern, 5 being no concern at all



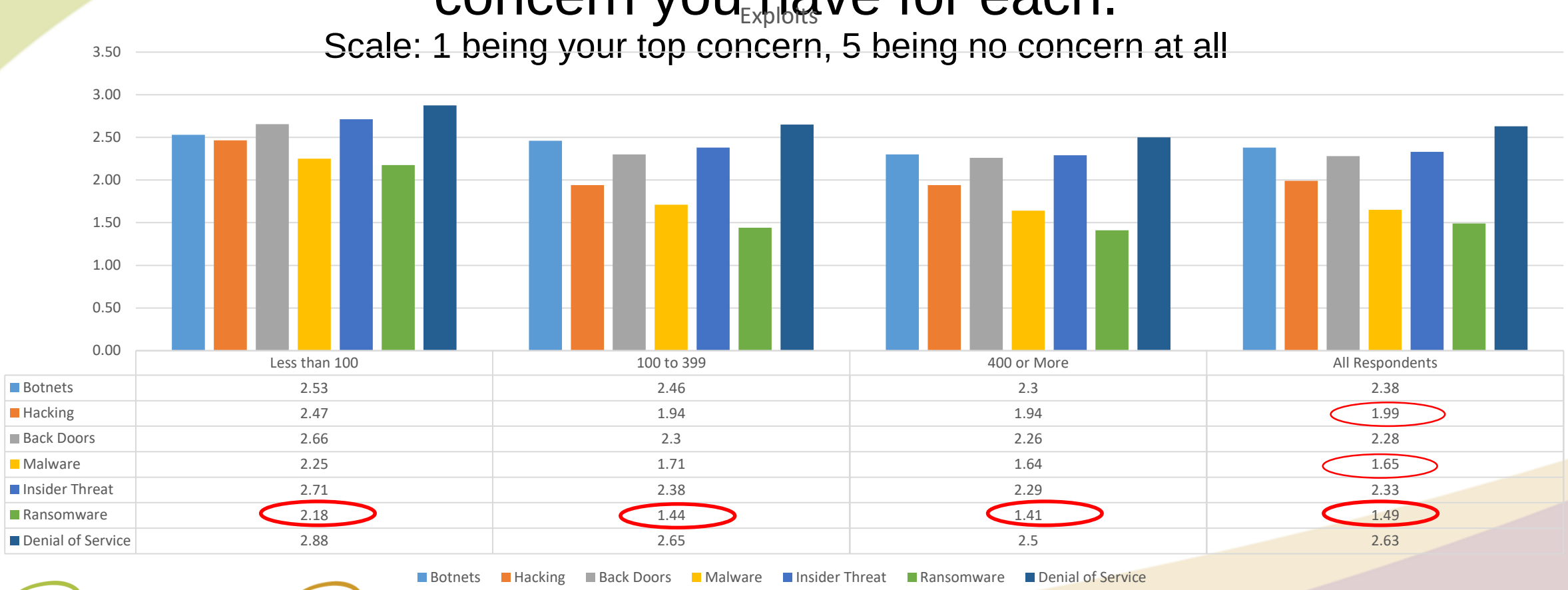
	Less than 100 beds	100 to 399 beds	400 or more beds	All Respondents
Social Engineering	1.91	2.08	1.68	1.88
Cyber Terrorism	2.56	2.46	2.29	2.38
IoT	2.67	2.52	2.84	2.77
Organized Crime	3.03	2.94	2.78	2.83
Insider Threat	2.79	2.46	2.34	2.36
Data Theft	2.50	1.67	1.71	1.75

Social Engineering Cyber Terrorism IoT Organized Crime Insider Threat Data Theft

CHIME & AEHIS

Q 9. Thinking about your own organization, please rate the following potential security exploits on the degree of concern you have for each.

Scale: 1 being your top concern, 5 being no concern at all

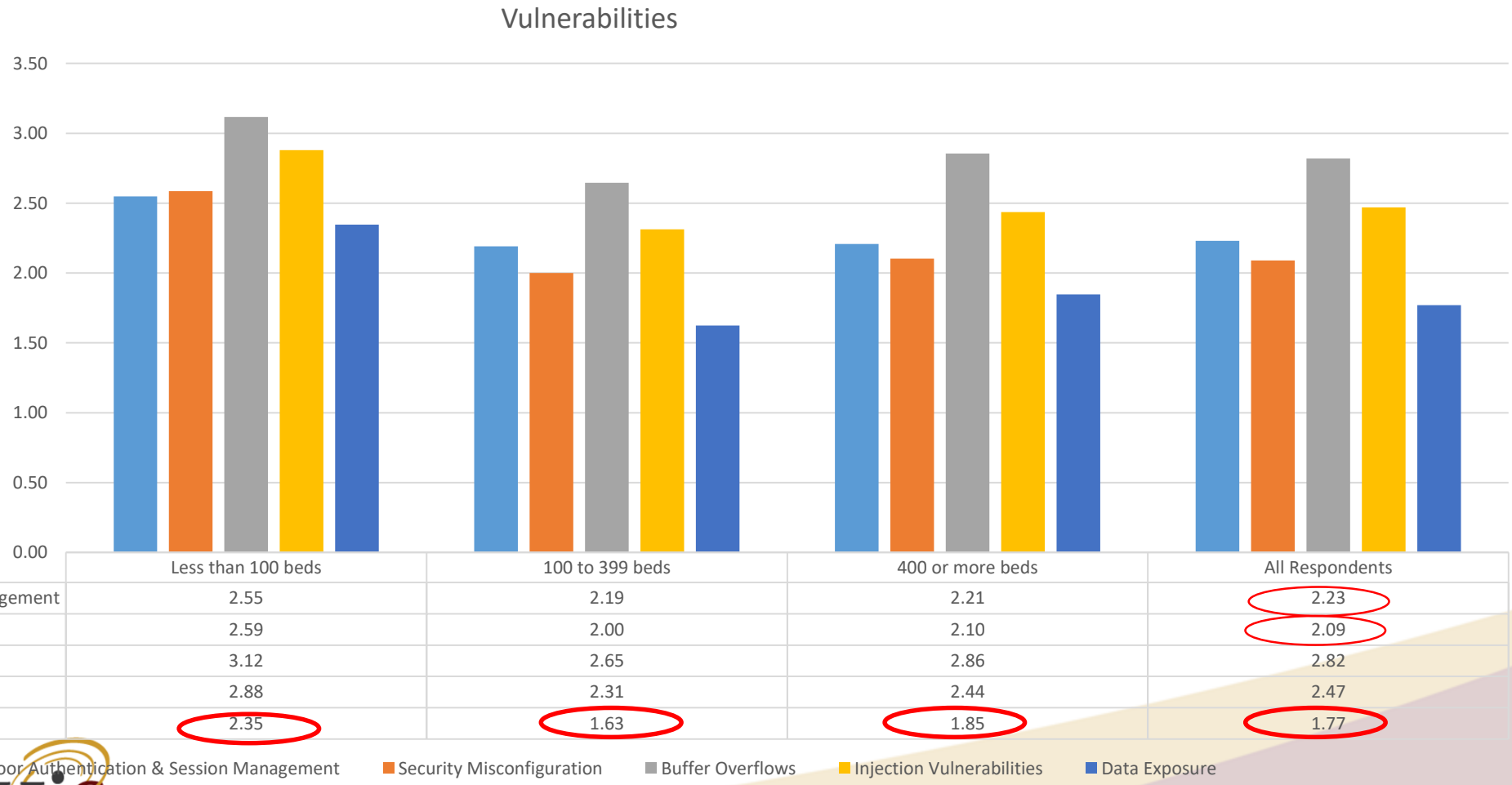


	Less than 100	100 to 399	400 or More	All Respondents
Botnets	2.53	2.46	2.3	2.38
Hacking	2.47	1.94	1.94	1.99
Back Doors	2.66	2.3	2.26	2.28
Malware	2.25	1.71	1.64	1.65
Insider Threat	2.71	2.38	2.29	2.33
Ransomware	2.18	1.44	1.41	1.49
Denial of Service	2.88	2.65	2.5	2.63

CHIME & AEHIS

Q 10. Thinking about your own organization, please rate the following potential security vulnerabilities on the degree of concern you have for each.

Scale: 1 being your top concern, 5 being no concern at all

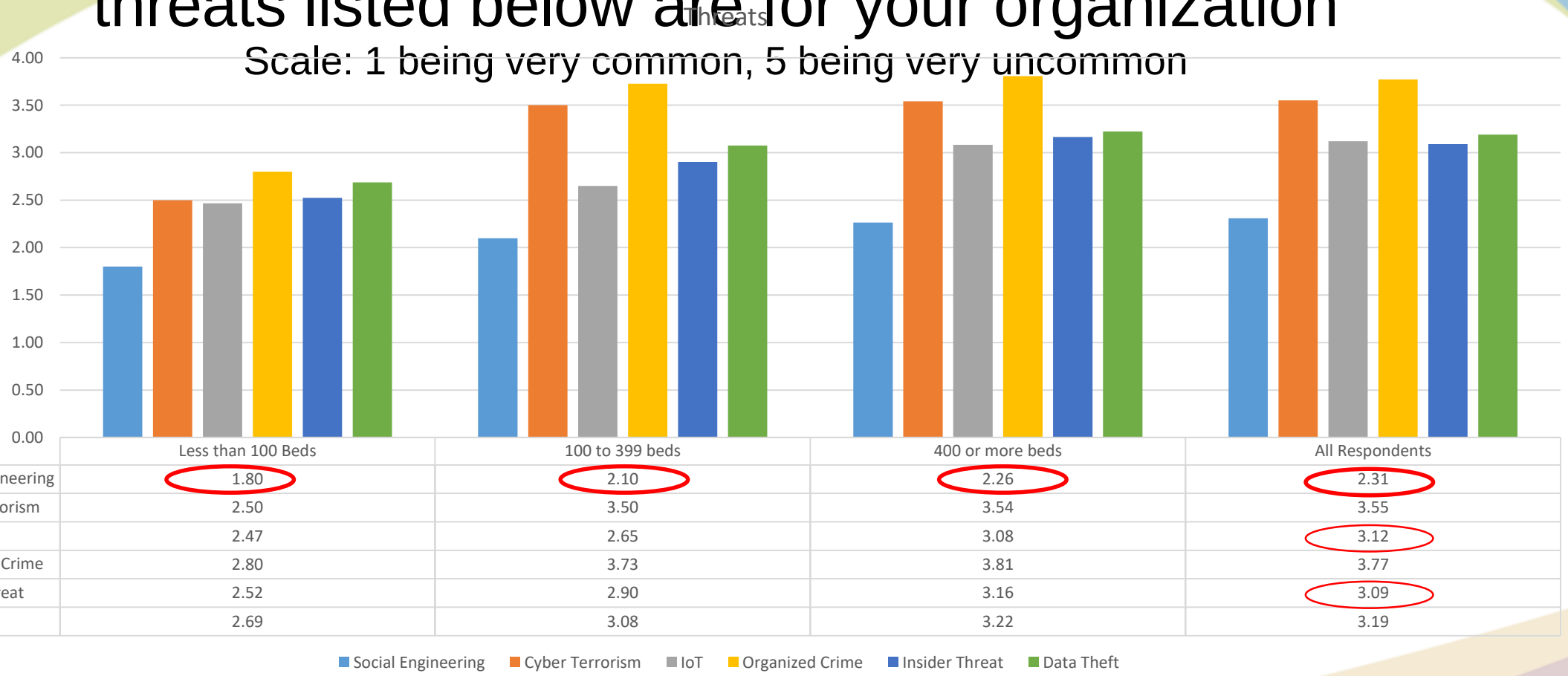


	Less than 100 beds	100 to 399 beds	400 or more beds	All Respondents
Poor Authentication & Session Management	2.55	2.19	2.21	2.23
Security Misconfiguration	2.59	2.00	2.10	2.09
Buffer Overflows	3.12	2.65	2.86	2.82
Injection Vulnerabilities	2.88	2.31	2.44	2.47
Data Exposure	2.35	1.63	1.85	1.77

CHIME & AEHIS

Q 11. Please indicate how common each of the security threats listed below are for your organization

Scale: 1 being very common, 5 being very uncommon



	Less than 100 Beds	100 to 399 beds	400 or more beds	All Respondents
Social Engineering	1.80	2.10	2.26	2.31
Cyber Terrorism	2.50	3.50	3.54	3.55
IoT	2.47	2.65	3.08	3.12
Organized Crime	2.80	3.73	3.81	3.77
Insider Threat	2.52	2.90	3.16	3.09
Data Theft	2.69	3.08	3.22	3.19

CHIME & AEHIS

Q 12. Please indicate how common each of the security exploits listed below are for your organization

Scale: 1 being very common, 5 being very uncommon

	Less than 100 beds	100 to 399 beds	400 or more beds	All Respondents
Botnets	3.00	3.03	2.96	3.05
Hacking	3.00	3.10	2.93	3.05
Back Doors	3.00	3.28	3.28	3.3
Malware	3.00	1.90	2.01	2.01
Insider Threat	3.00	2.87	3.13	3.1
Ransomware	3.00	2.40	2.50	2.52
Denial of Service	3.00	3.55	3.46	3.55

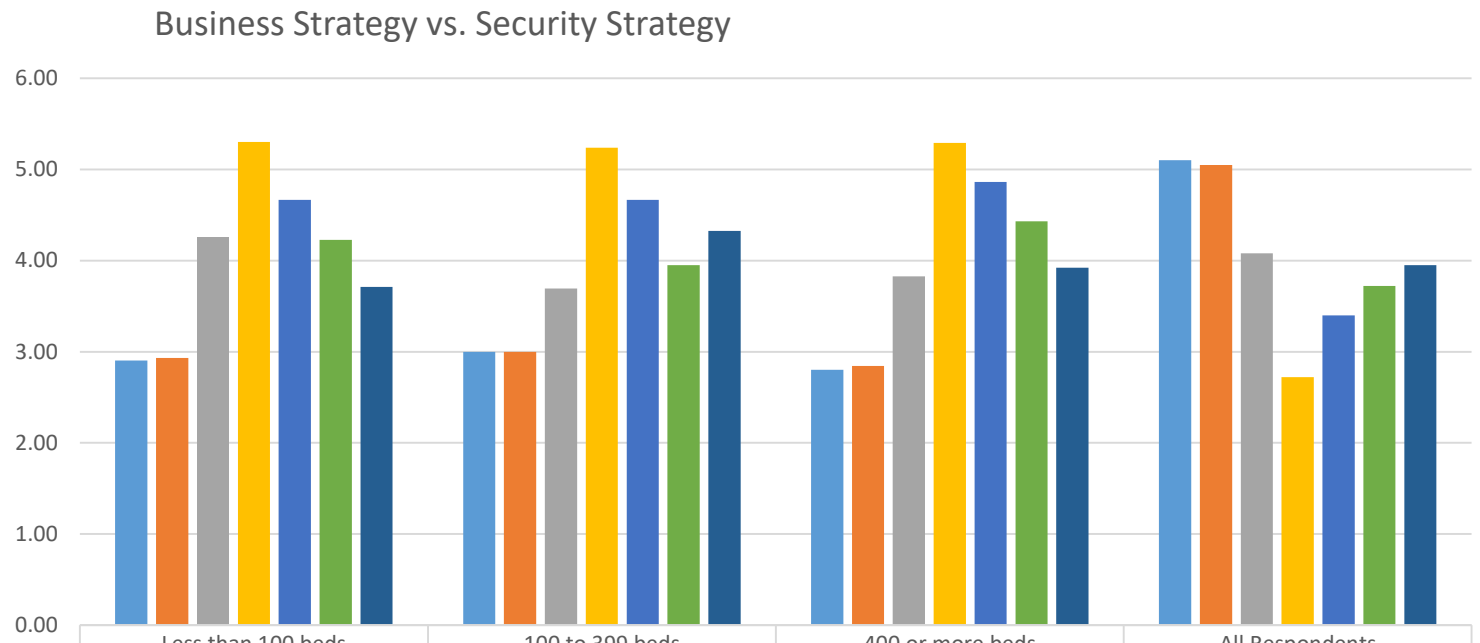
CHIME & AEHIS

Q 13. Please indicate how common each of the security vulnerabilities listed below are for your organization
Scale: 1 being very common, 5 being very uncommon

	Less than 100 beds	100 to 399 beds	400 or more beds	All respondents
Poor authentican	2.67	2.60	2.66	2.71
Security Misconfiguration	2.33	2.58	2.70	2.68
Buffer overflows	3.33	3.40	3.44	3.52
Injection Vulnerabilities	3.00	3.45	3.13	3.31
Data Exposure	3.33	3.08	2.89	2.96
Other Application Vulnerabilities	2.67	2.58	2.59	2.64

CHIME & AEHIS

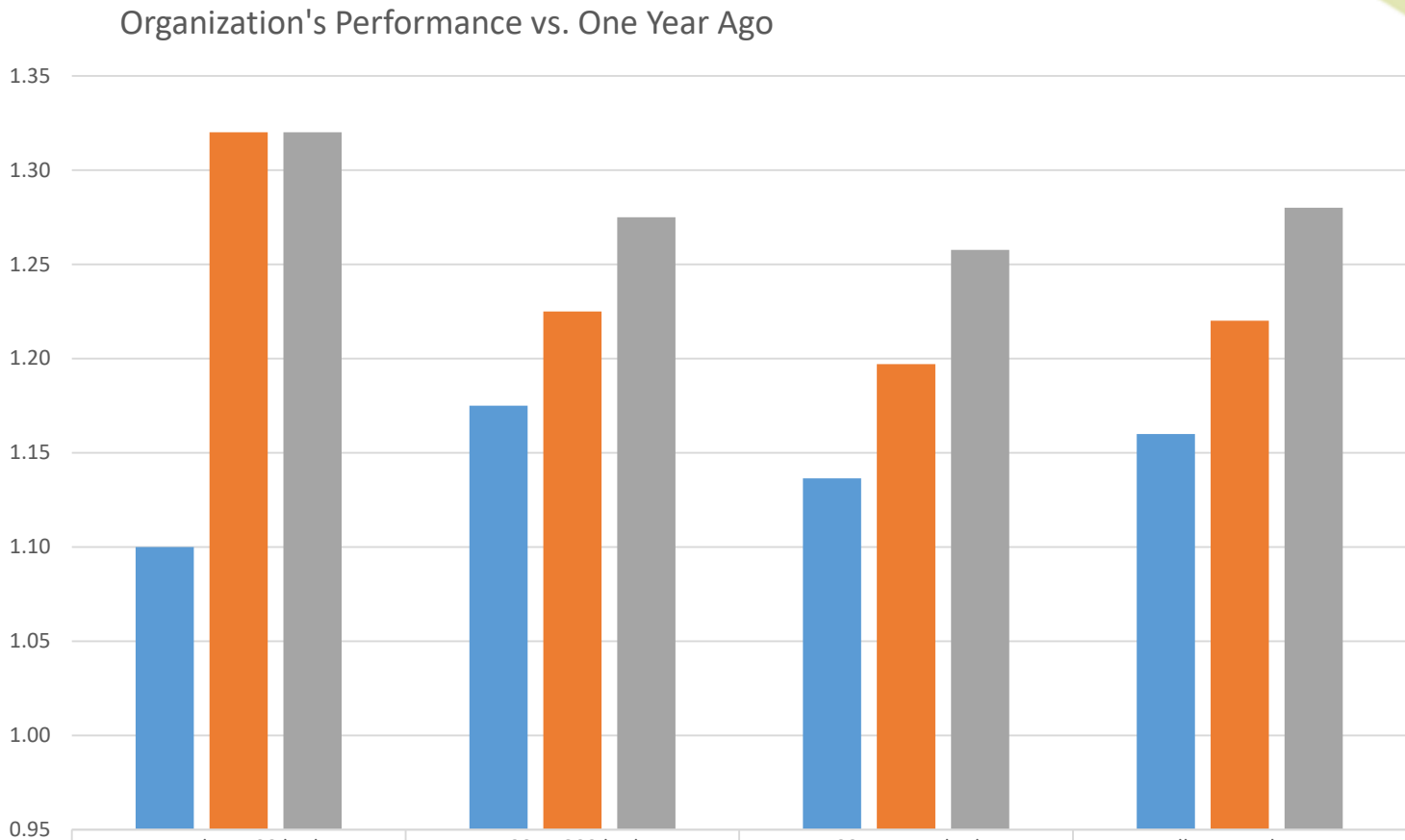
Q 14. Please rank: In your opinion, why does the business strategy not drive the security strategy?
1 = Top Reason, 7 = Very Little Reason



	Less than 100 beds	100 to 399 beds	400 or more beds	All Respondents
Budgets or Staffing	2.90	3.00	2.80	5.1
Pace of change for the business (Too Many other Initiatives)	2.93	3.00	2.84	5.05
Security is not considered a patient care or quality of care issue	4.26	3.69	3.83	4.08
BYOD/BYOA	5.30	5.24	5.29	2.72
Regulatory Landscape is too complex	4.67	4.67	4.86	3.4
Threat landscape changes too quickly	4.23	3.95	4.43	3.72
Changing delivery of care models and workflows don't address security until after the fact	3.71	4.33	3.92	3.95

CHiME & AEHiS

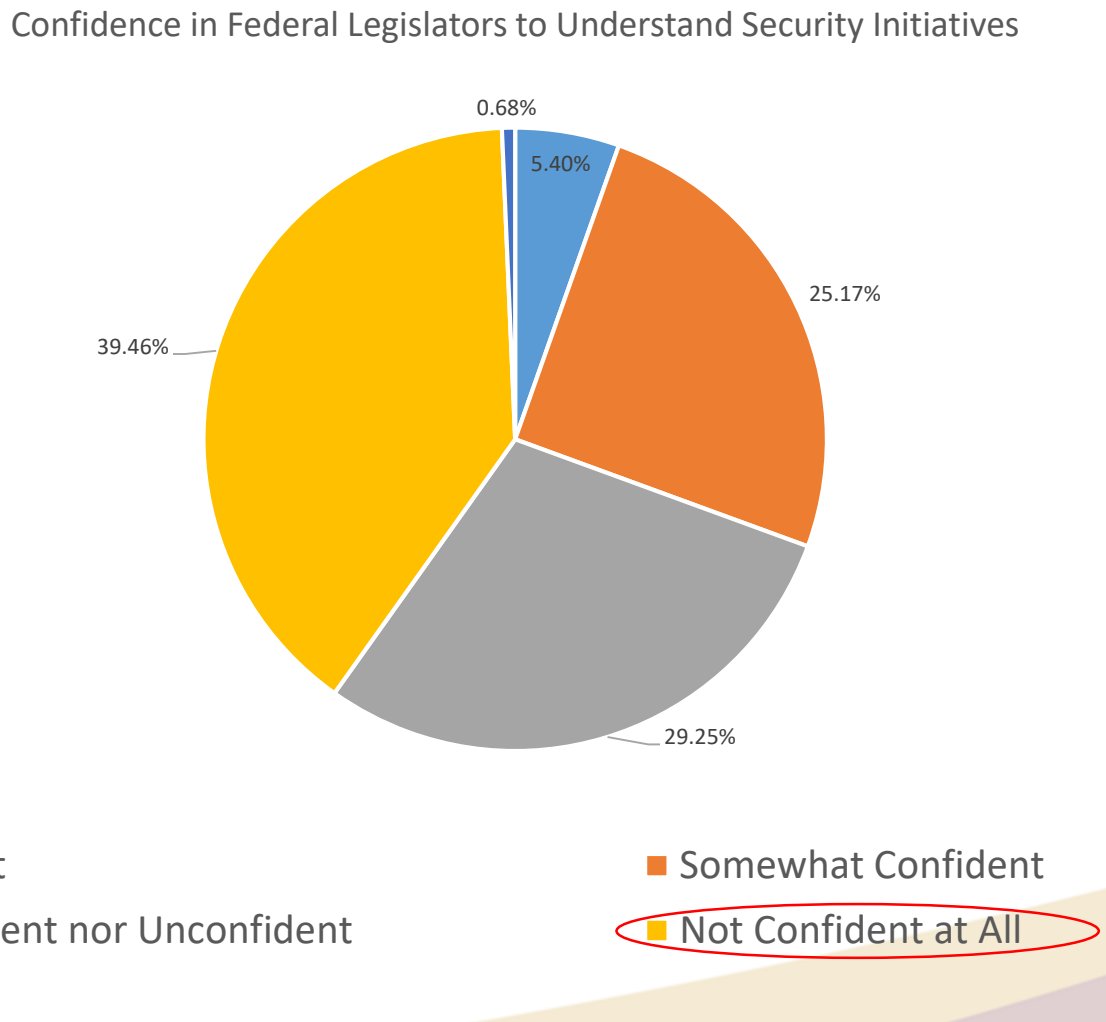
Q 15. Compared to a year ago, please indicate how your organization would perform if its systems or data were compromised by a targeted attack? Scale: 1 = Better, 3= Worse



	Less than 100 beds	100 to 399 beds	400 or more beds	All Respondents
Having systems in place to prepare for a security incident	1.10	1.18	1.14	1.16
Discovering a security incident	1.32	1.23	1.20	1.22
Recovering from a security incident	1.32	1.28	1.26	1.28

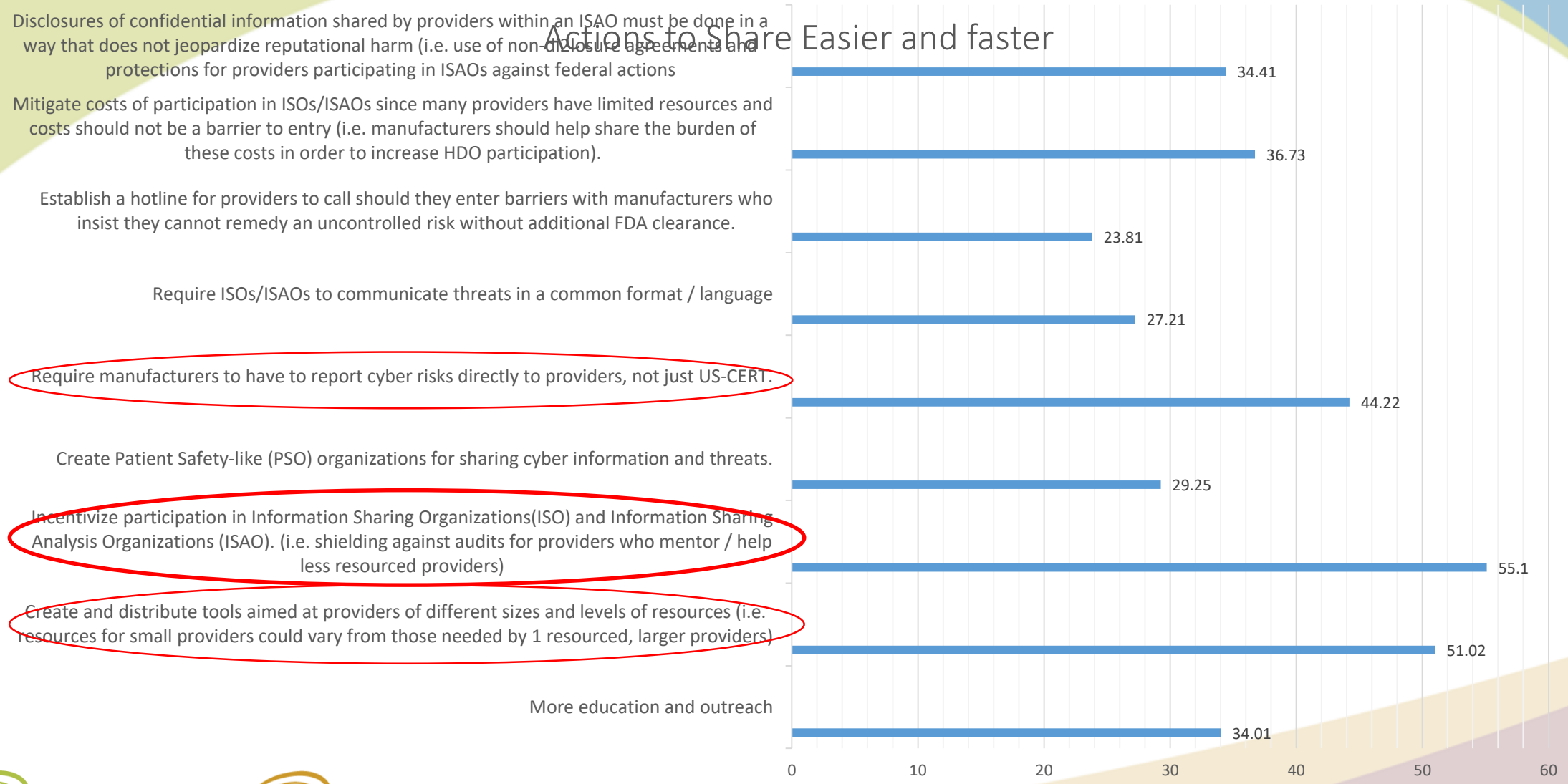
CHIME & AEHIS

Q 16. How confident are you that Federal legislators understand the importance of security enough to support your key information security initiatives?



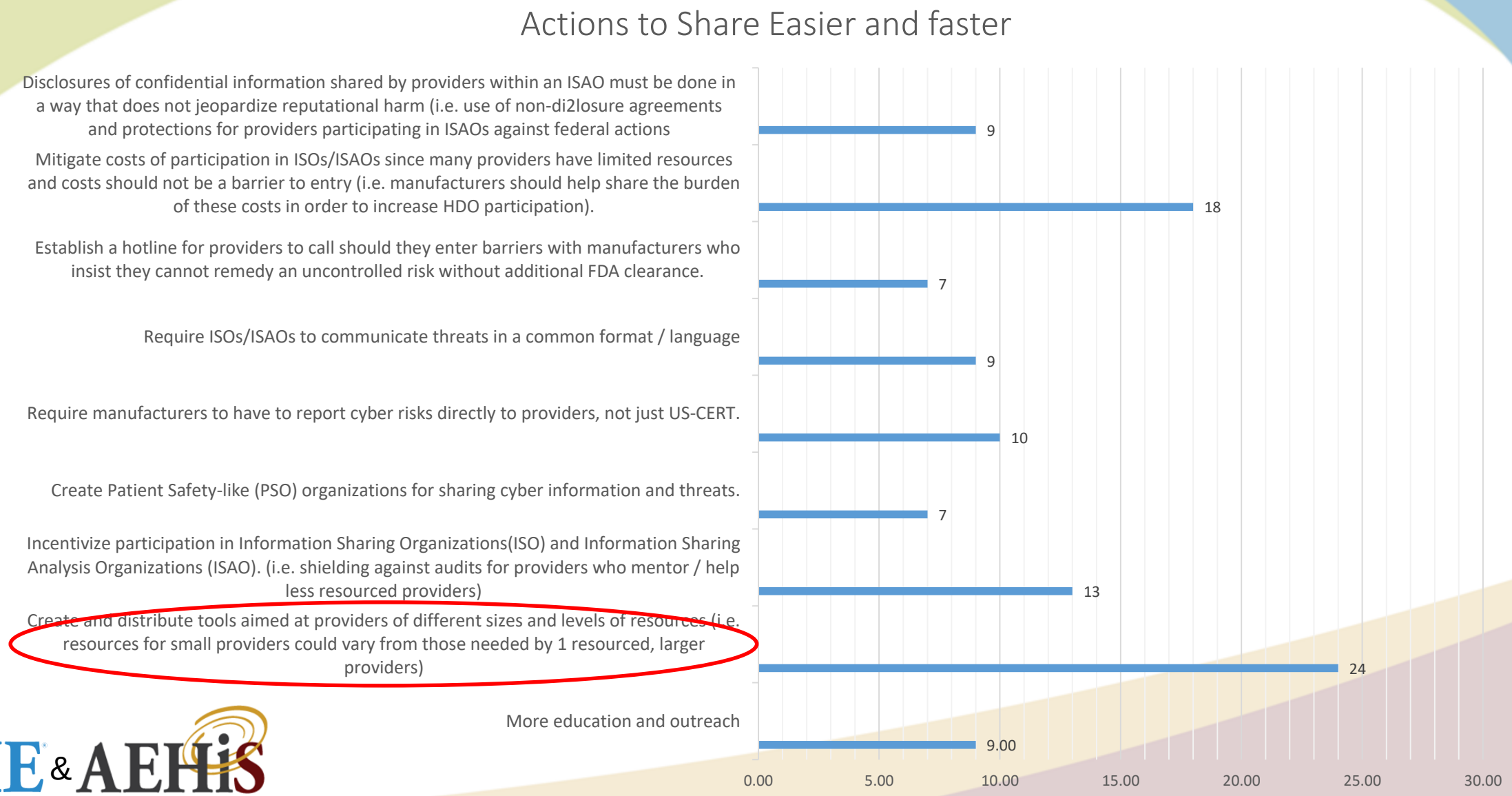
CHiME & AEHiS

Q 17. What do you think the Federal Government could do to help you share cybersecurity information more easily and faster? Pick your top 3. Percentage of overall respondents.



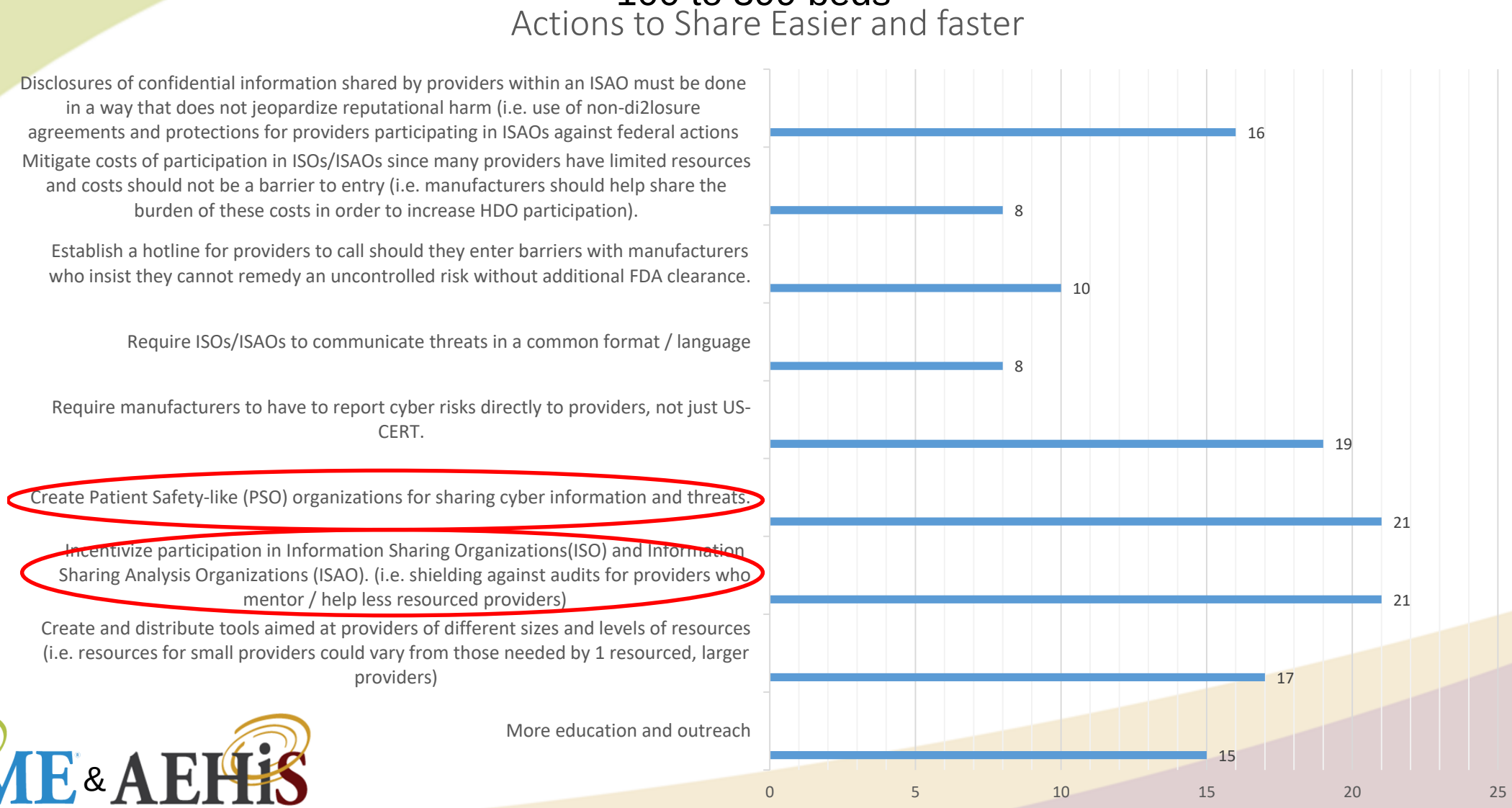
CHIME & AEHIS

Q 17. What do you think the Federal Government could do to help you share cybersecurity information more easily and faster? Pick your top 3.
100 or less beds



Q 17. What do you think the Federal Government could do to help you share cybersecurity information more easily and faster? Pick your top 3.

100 to 399 beds



Q 17. What do you think the Federal Government could do to help you share cybersecurity information more easily and faster? Pick your top 3.

400 or more beds