

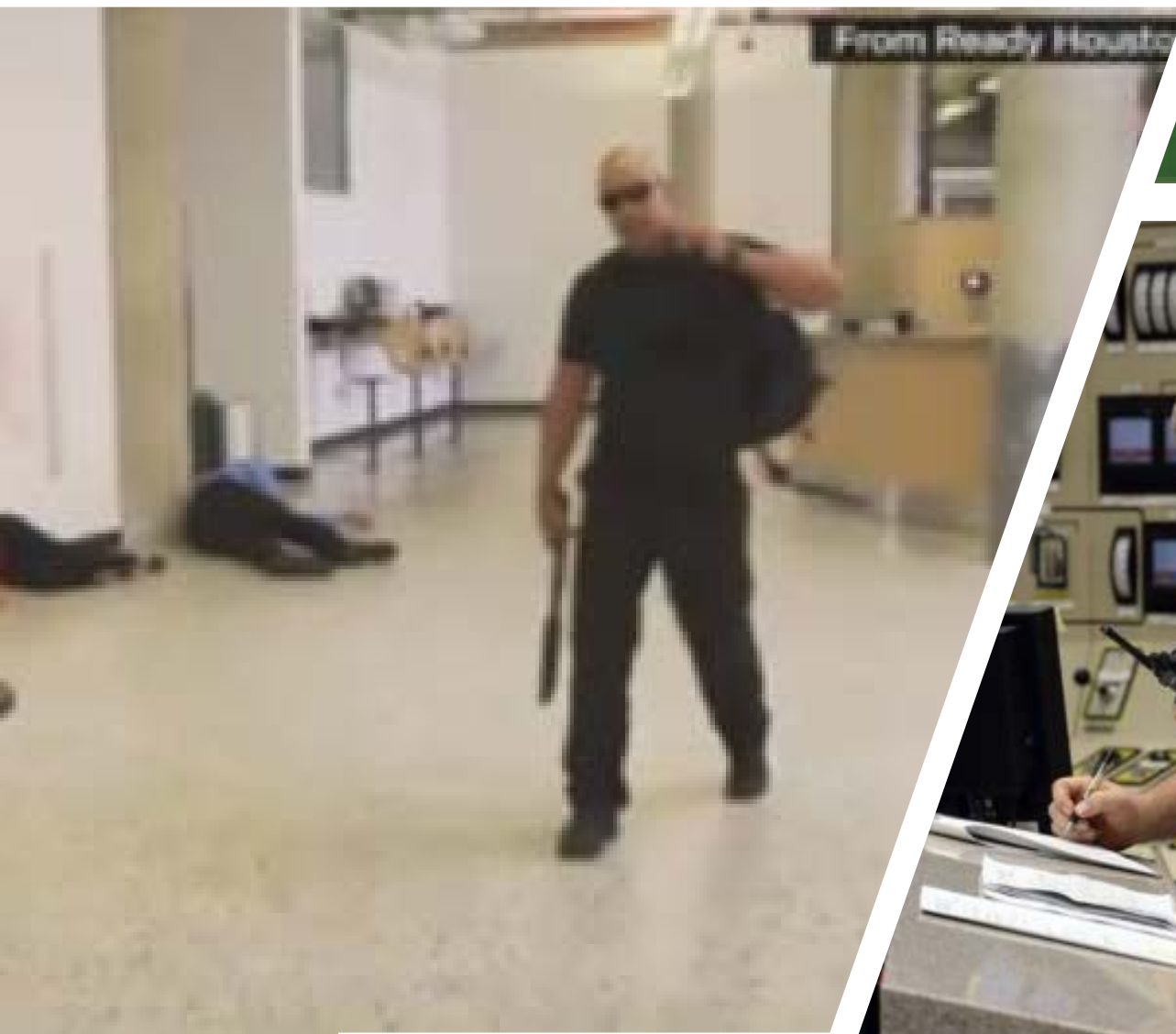


World Institute for
Nuclear Security

INTERNATIONAL WORKSHOP ON UNDERSTANDING AND MITIGATING THE INSIDER THREAT

Abu Dhabi, UAE. 16 – 18 December 2018

Pierre Legoux, WINS



WINS Vision & Mission

All nuclear and other radiological materials and facilities are effectively secured by demonstrably competent professionals applying best practice to achieve operational excellence

To be the leader in knowledge exchange, professional development and certification for nuclear security management

WINS Suite of Services



Sharing Operational Experience



Knowledge Centre



Training & Certification



Evaluation

WINS Achievements

90+

International
Best Practice
Workshops



34

International
Best Practice
Guides



10

Nuclear Security
Management
Certification
Modules



WINS Academy

Revision of BPG 3.4

- ☐ Consolidate comments
- ☐ Incorporate findings from workshops
- ☐ Conduct further research
- ☐ Revised version by July 2019



WORKSHOP OBJECTIVES

- Discuss the insider threat landscape. Share real life examples.
- Review the key components of an insider mitigation programmes.
- Highlight the importance of involving all departments of an organisation.
- Review some tools and technologies developed for mitigating the insider risk.
- Explore the cyber insider threat.
- Discuss metrics for measuring the performance of the insider mitigation programme.
- Provide opportunity to network and share experiences and best practices.

WORKSHOP AGENDA

DAY 1 – SUNDAY 16 DECEMBER 2018

1. UNDERSTANDING THE INSIDER THREAT
2. ENGAGING ALL STAKEHOLDERS
3. TABLE TOP EXERCISE

DAY 2 – MONDAY 17 DECEMBER 2018

4. DESIGNING AND IMPLEMENTING A MITIGATION PROGRAMME
5. EMPLOYEE TRUSTWORTHINESS AND RELIABILITY
6. BEHAVIOURAL OBSERVATION PROGRAMMES
7. MEASURING THE EFFECTIVENESS OF INSIDER MITIGATION PROGRAMMES

DAY 3 – TUESDAY 18 DECEMBER 2018 (IBM INNOVATION CENTRE)

8. DESIGNING AND IMPLEMENTING A MITIGATION PROGRAMME
9. IBM PRESENTATIONS AND DEMONSTRATIONS

WORKSHOP PROCESS

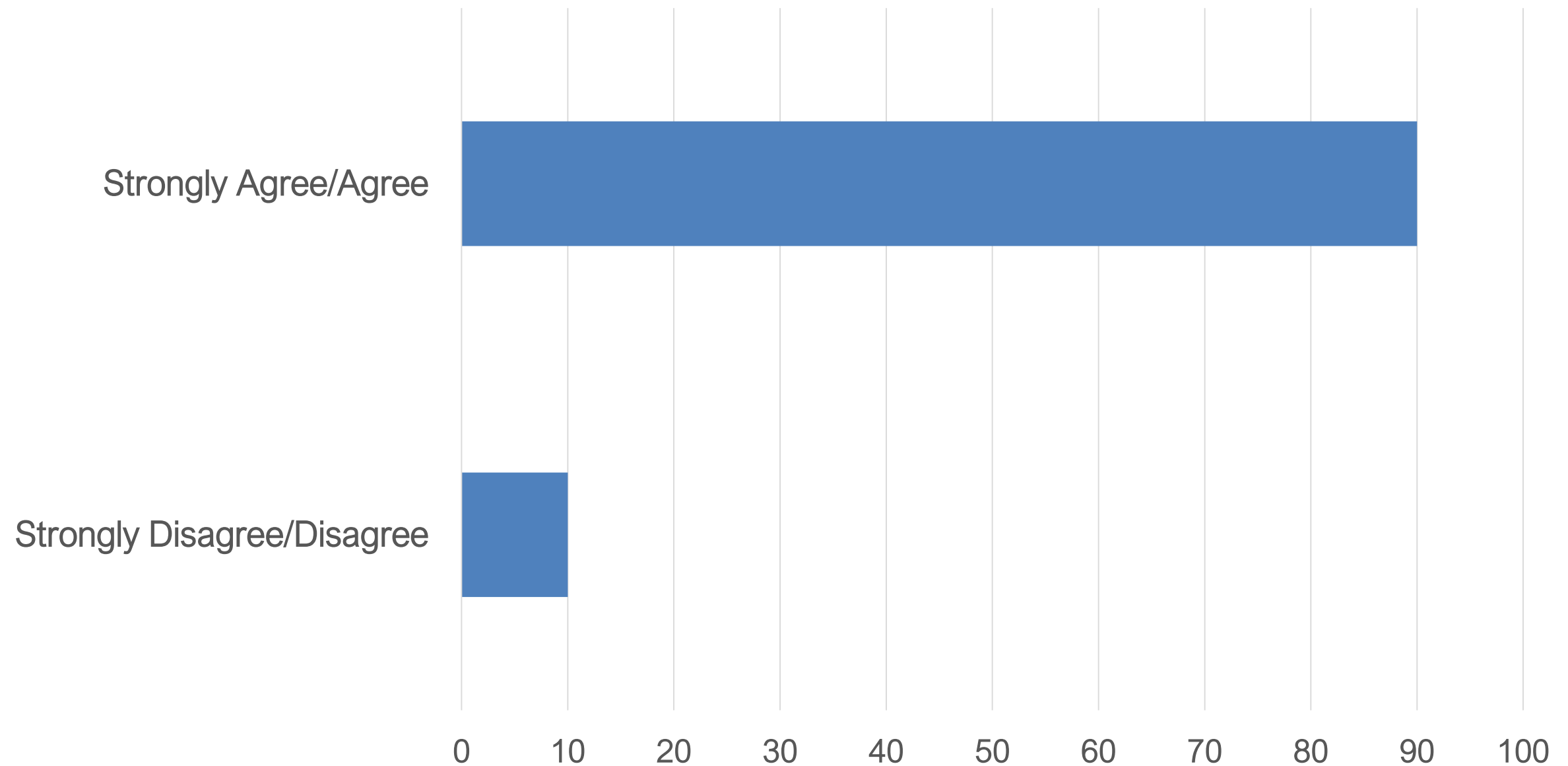
- ☐ PRESENTATIONS
- ☐ MODERATED PLENARY DISCUSSIONS
- ☐ TABLE DISCUSSIONS
- ☐ BREAK OUT GROUPS
- ☐ EXPERT PANELS
- ☐ E-VOTING



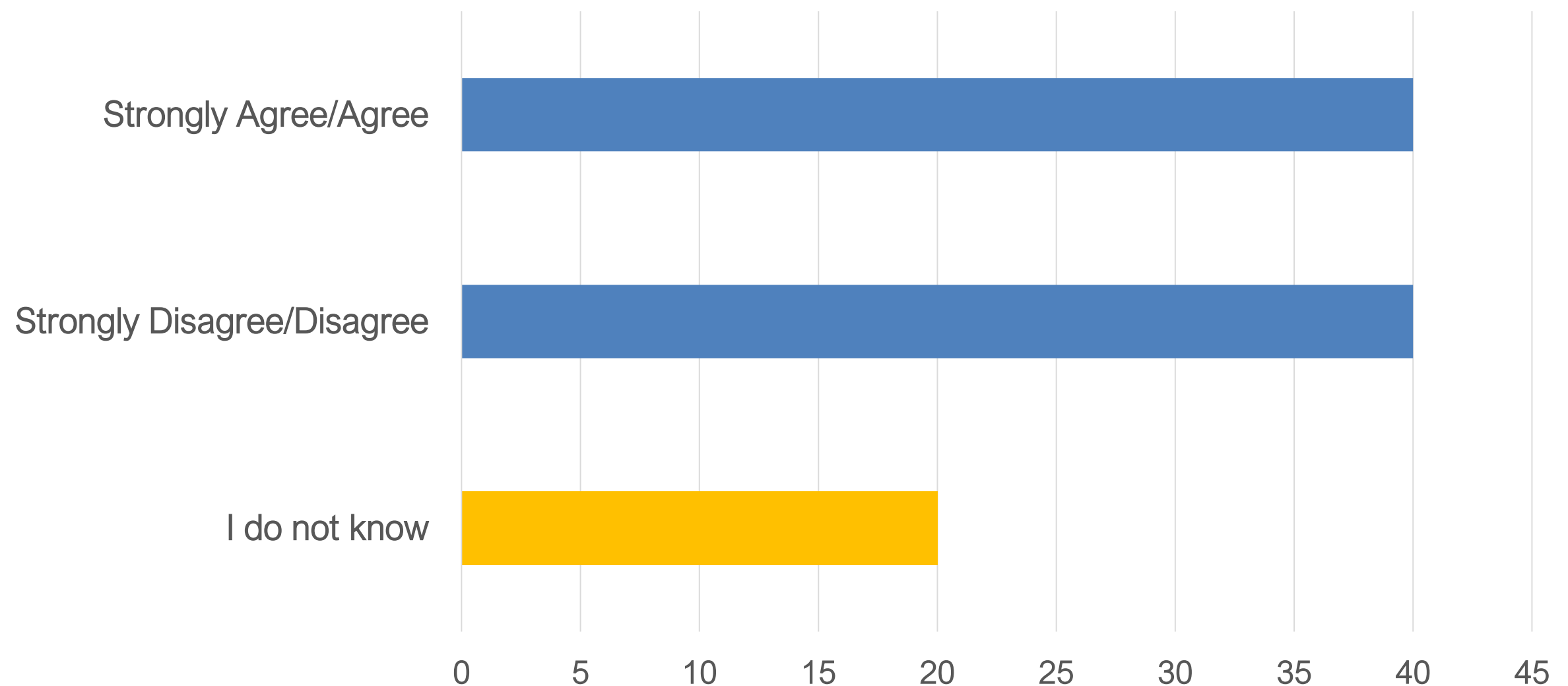
PRE-WORKSHOP SURVEY RESULTS

| Neither Agree Nor Disagree | Somewhat Agree | Strongly Agree | Agree Completely |
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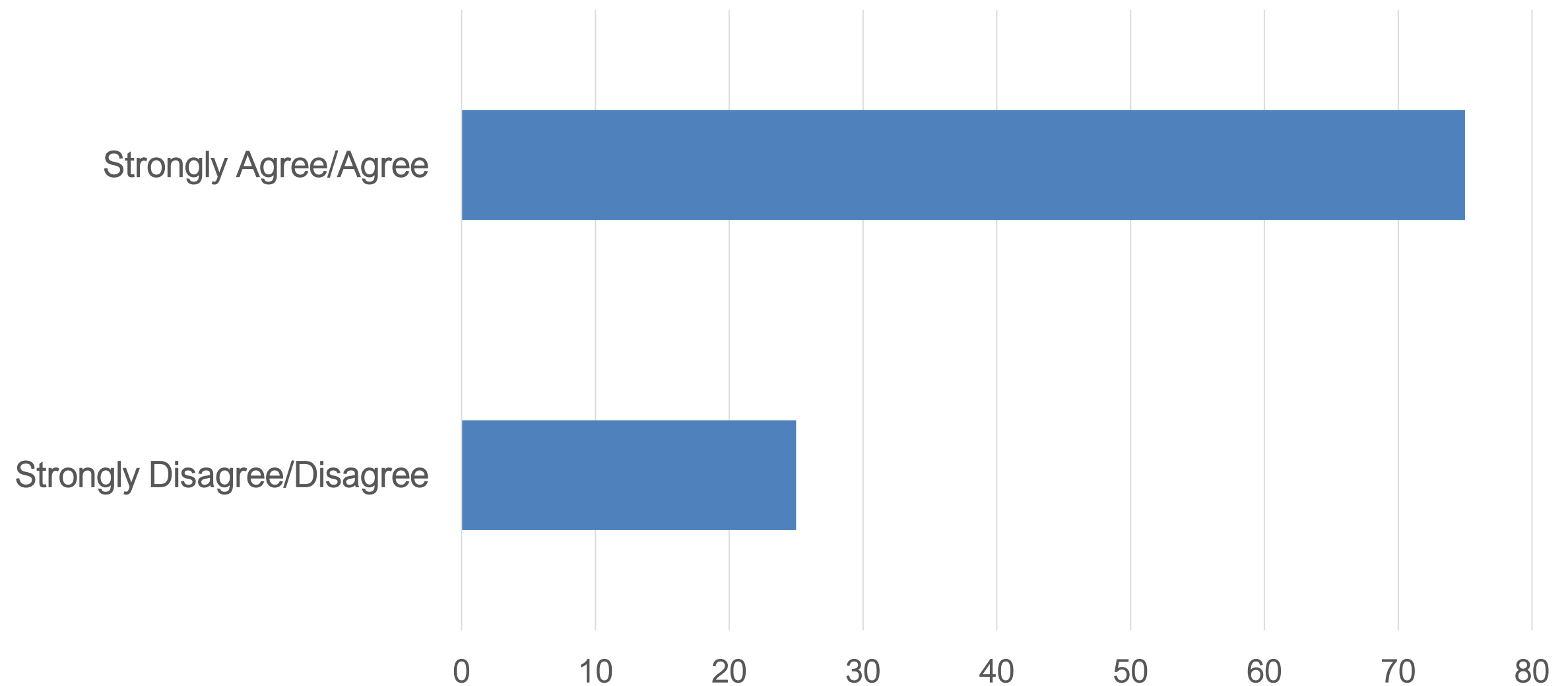
1. I am familiar with the insider threat issue



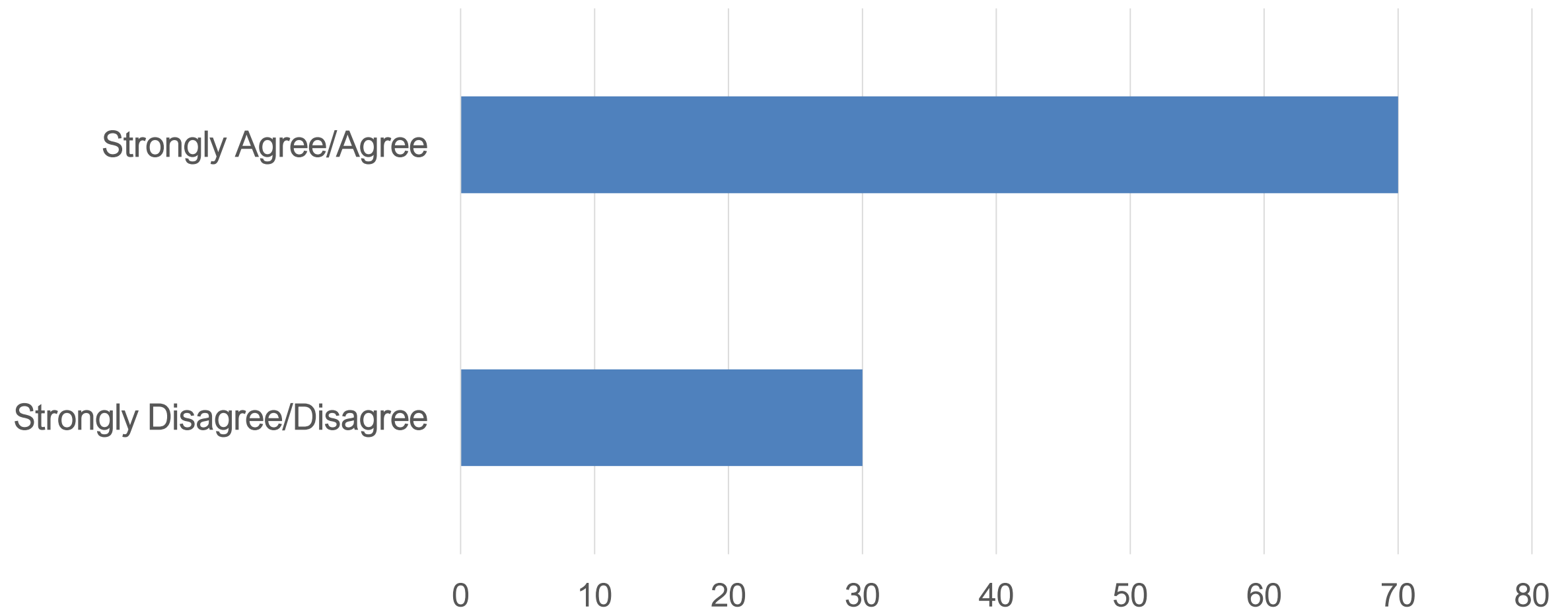
2. Nuclear organisations allocate enough resources to insider threat mitigation programmes



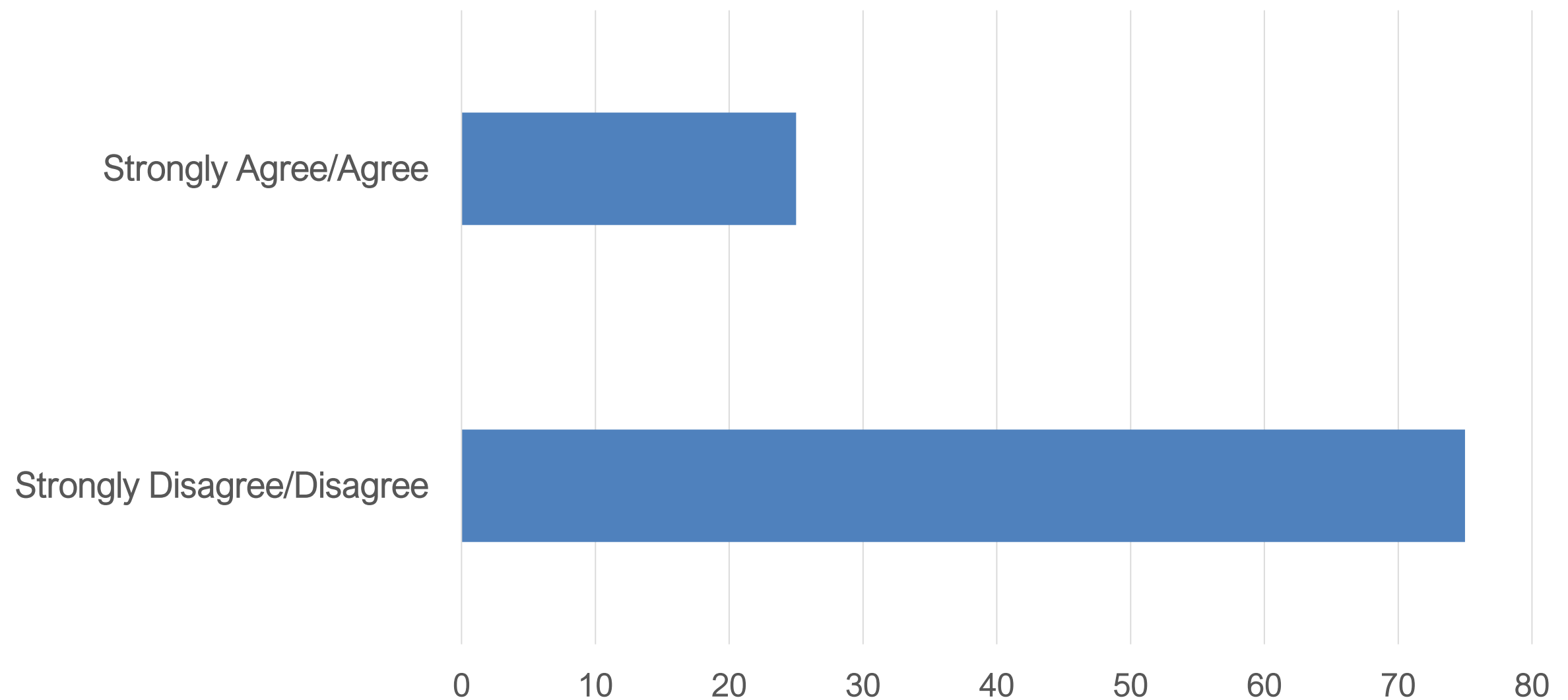
3. Senior managers and other decision makers believe that the insider threat is real.



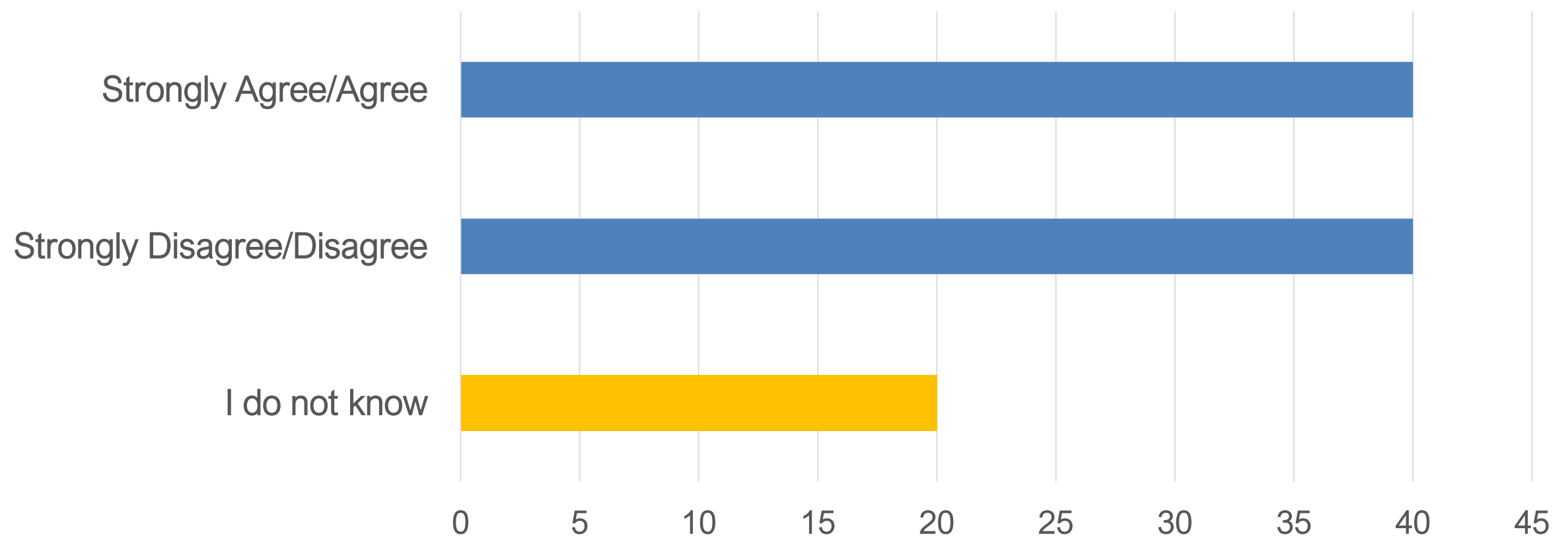
4. Training sessions or other activities are periodically implemented to raise staff awareness of the insider risk



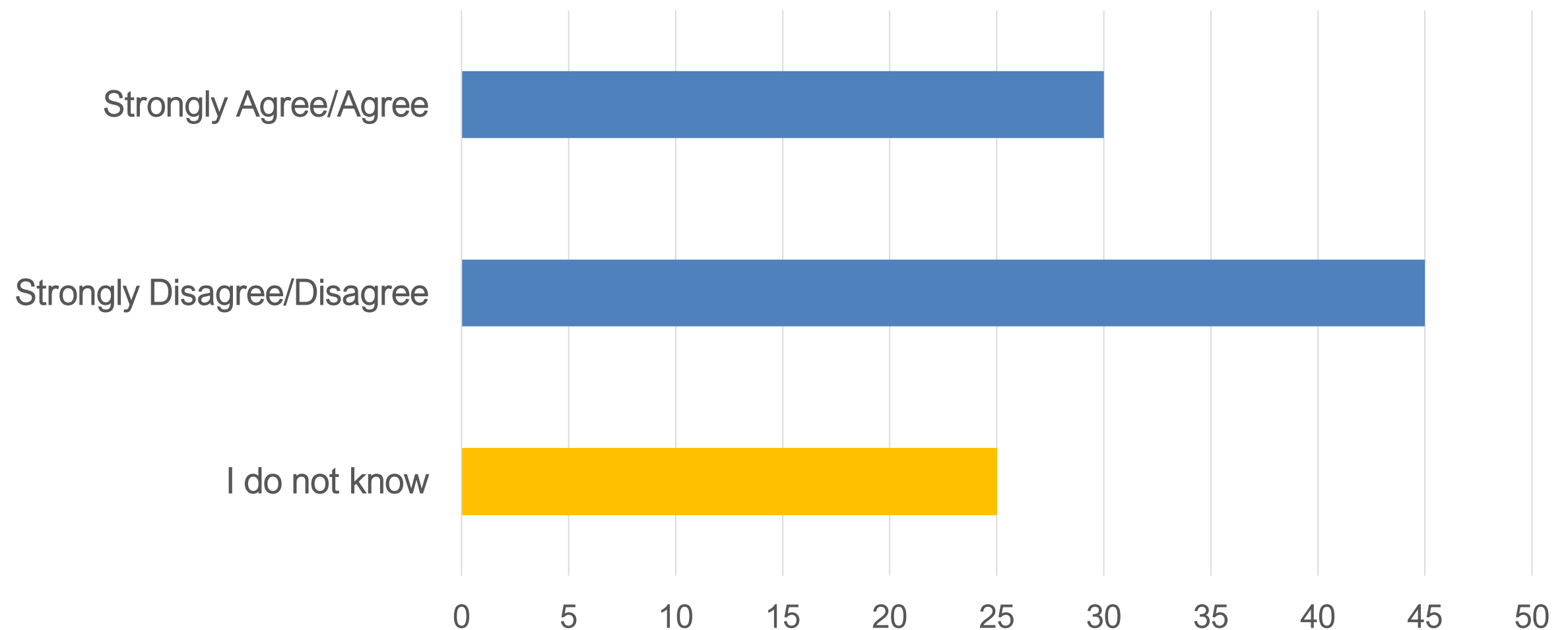
5. Vetting of personnel (background checks) is an effective measure against insiders.



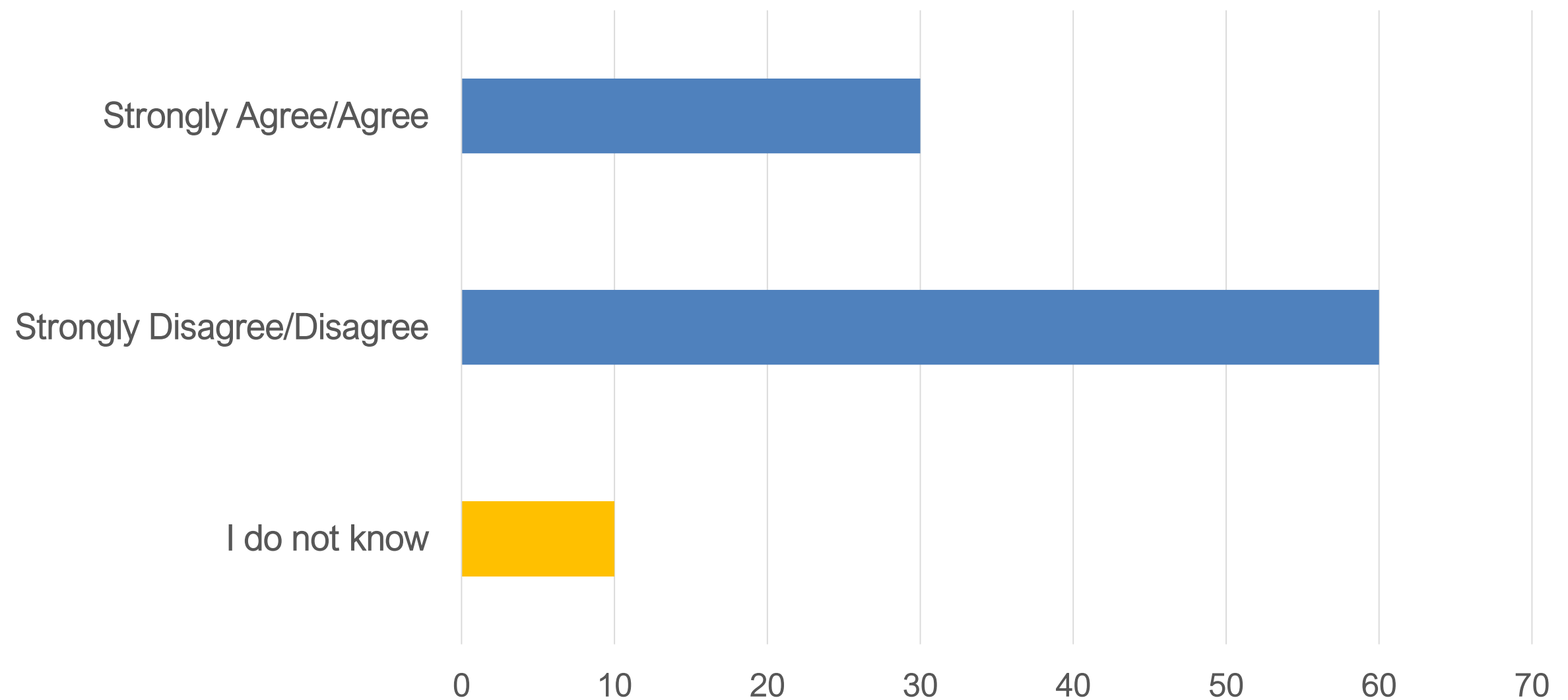
6. There are mechanisms in place to support the sharing of information and lessons learnt between nuclear organisations when an insider incident happens



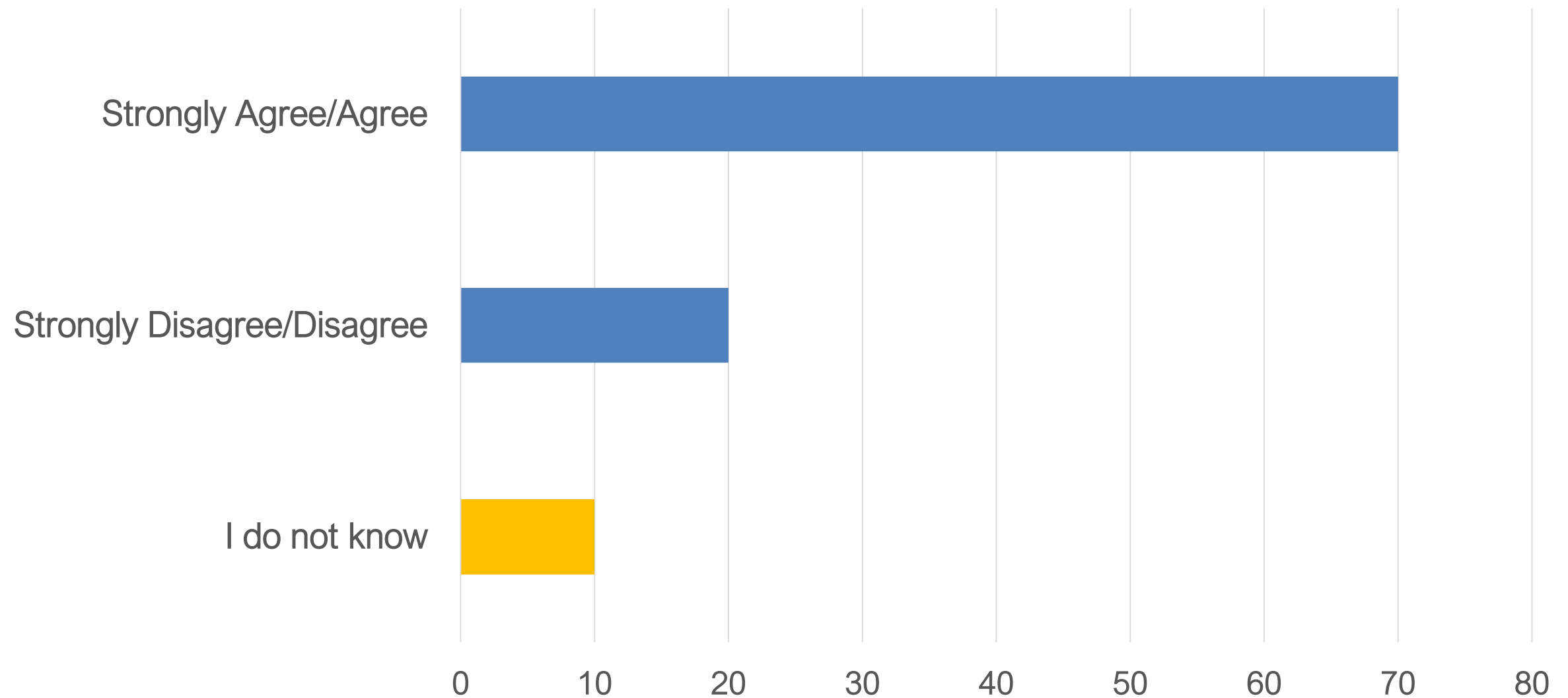
7. There are mechanisms in place to support the sharing of information and lessons learnt between the nuclear industry and other sectors



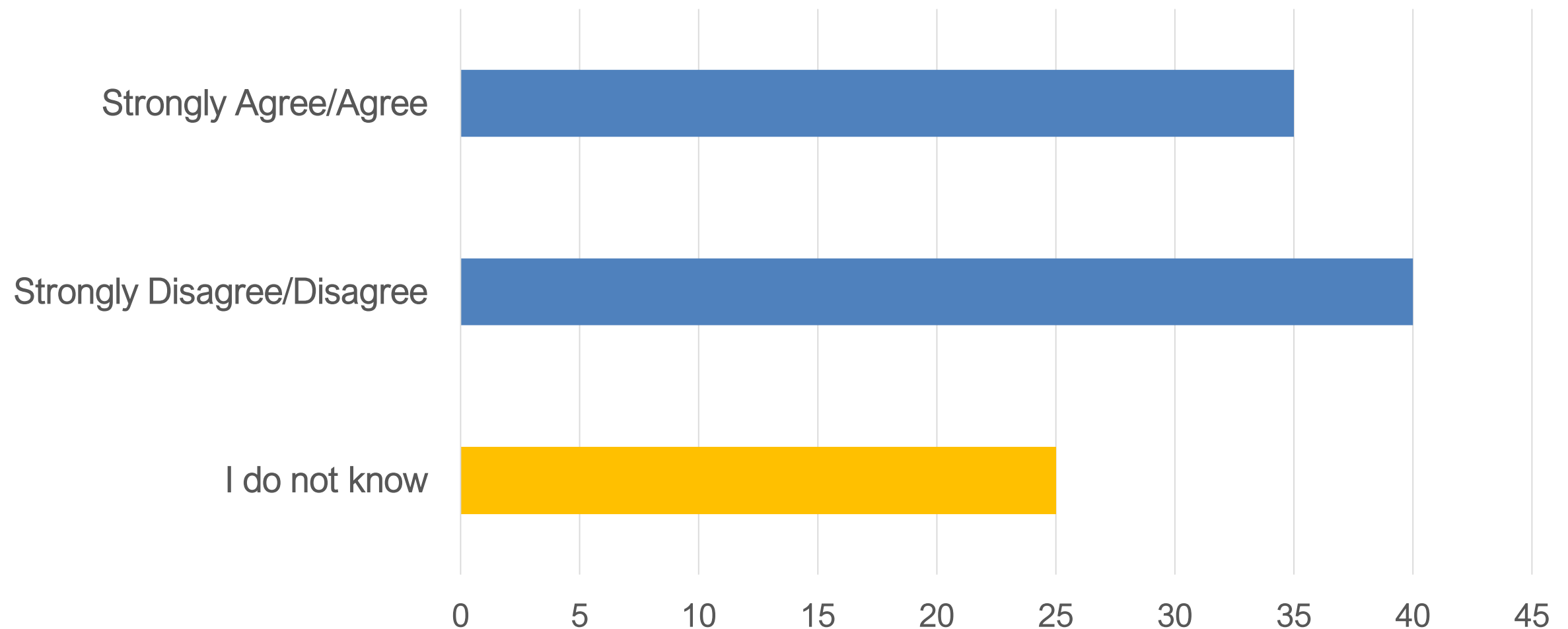
8. Managers are trained to detect suspicious behaviours



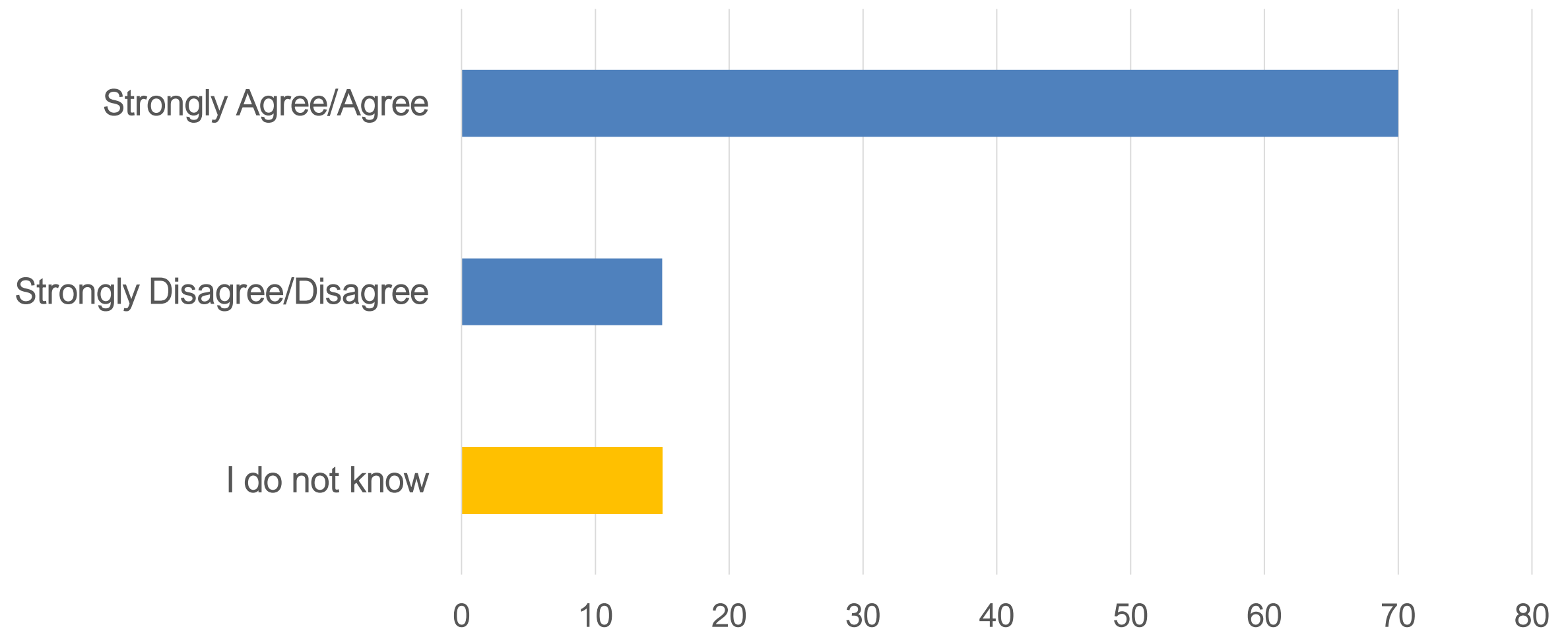
9. Nuclear organisations are implementing established effective whistleblowing policies



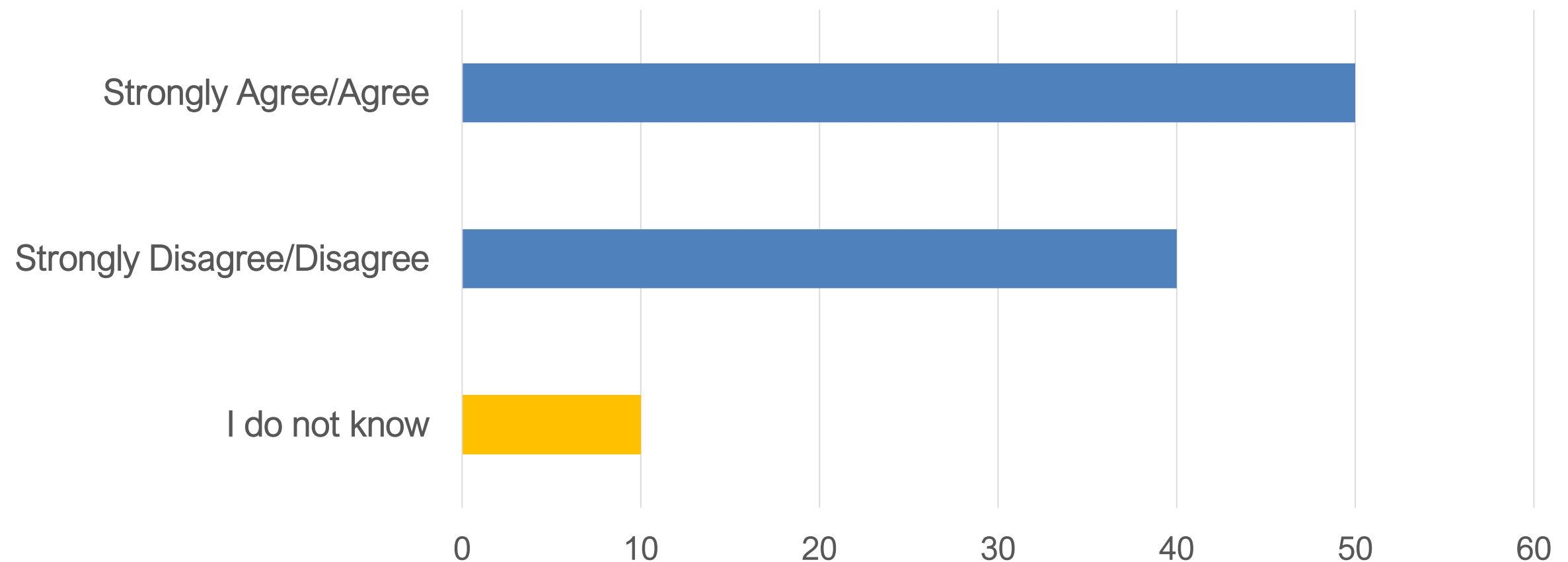
10. Metrics and other security indicators for measuring the performance of insider mitigation provisions are available.



11. Vulnerability Assessments (or similar approaches to evaluate the effectiveness of security programmes) include insider scenarios



12. Other disciplines and departments (operations, safety, human resources, finances, etc.) are effectively integrated into comprehensive insider mitigation programmes.



Your Expectations!

Review existing tools and technologies developed for mitigating the insider risk.

Gain (basic or advanced) from different perspectives

Review challenges and share solutions. Identify best practices.

Meet other experts and network. Build contacts for future exchange

Discuss specific issues: Reduce likelihood of insider occurrence; Integrate all stakeholders; React to disgruntled employee, Address cyber threat, balancing security security expectations with access needs, privacy issues, etc.

Apply something I learnt during the workshop

Some Barriers to Effective Insider Mitigation

Secrecy and limited of sharing of experience.

Lack of awareness about the seriousness of the internal threat among workers.

Limited understanding by management. Security is not receiving the attention required. Insufficient resources allocated to insider mitigation

Complacency. Limited security culture.

Vulnerability Assessment tools only cover partially insider matters

Increasing privacy legislation limits vetting mechanisms

Exercises do not include enough insider scenarios. Ineffective management of incidents involving insiders

Some Solutions!

Effective regulations and a competent regulator

Engage all stakeholders. Security department alone will not succeed.

Review Operations and Safety procedures with the insider risk in mind

Share information on incidents. Ensure continuous improvement.

Reapply proven solutions

Raise awareness and develop better training courses.

Test security arrangements. Include insider threat in security exercises.

Use case studies

Better use available technologies. Create networks of specialists

Promote a strong nuclear security culture integrated with nuclear safety

SUCCESS CRITERIA

- ☐ LEARN, SHARE, CONTRIBUTE
- ☐ MEET & NETWORK
- ☐ ENJOY YOUR TIME



IDEAS
into
A·C·T·I·O·N

SECURITY IS IMPROVED!

- ☐ ONE ACTION FOR YOURSELF
- ☐ ONE SUGGESTION FOR YOUR ORGANISATION

Thank you for your attention

Enjoy the workshop!

Learn more at:
www.wins.org



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