

MARKET DATA FROM SECONDARY SOURCES

Femke De Keulenaer, Ipsos European Public Affairs

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1

DEMAND-SIDE RESEARCH

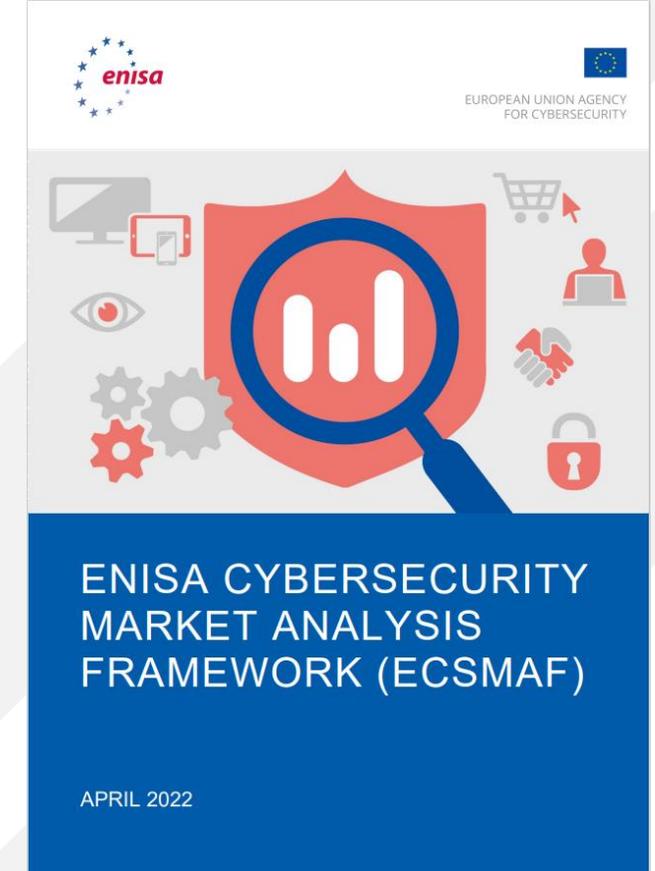
2

MACRO-ENVIRONMENTAL FACTORS
(POLITICAL, ECONOMIC, SOCIAL AND TECHNOLOGY)

Logical blocks/modules of ECSMAF

3

PRIMARY VS SECONDARY RESEARCH



SECONDARY DATA

DEMAND-SIDE RESEARCH

1

Cybersecurity maturity

Cyber security awareness

Cyber security skills

Experienced impact on business

Some examples of surveys conducted by Ipsos

Flash Eurobarometer 496 SMEs and cybercrime (EU-wide random probability telephone survey of 12,863 SMEs, conducted in 2021)

<https://europa.eu/eurobarometer/surveys/detail/2280>

Understanding the UK cyber security skills labour market (a quantitative survey of 1,030 UK businesses, 127 public sector organisations and 470 charities, conducted in 2018)

<https://www.ipsos.com/en-uk/understanding-uk-cyber-security-skills-labour-market>

Cyber Security Breaches Survey 2022 (a random probability telephone survey of 1,243 UK businesses, 424 UK registered charities and 420 education institutions)

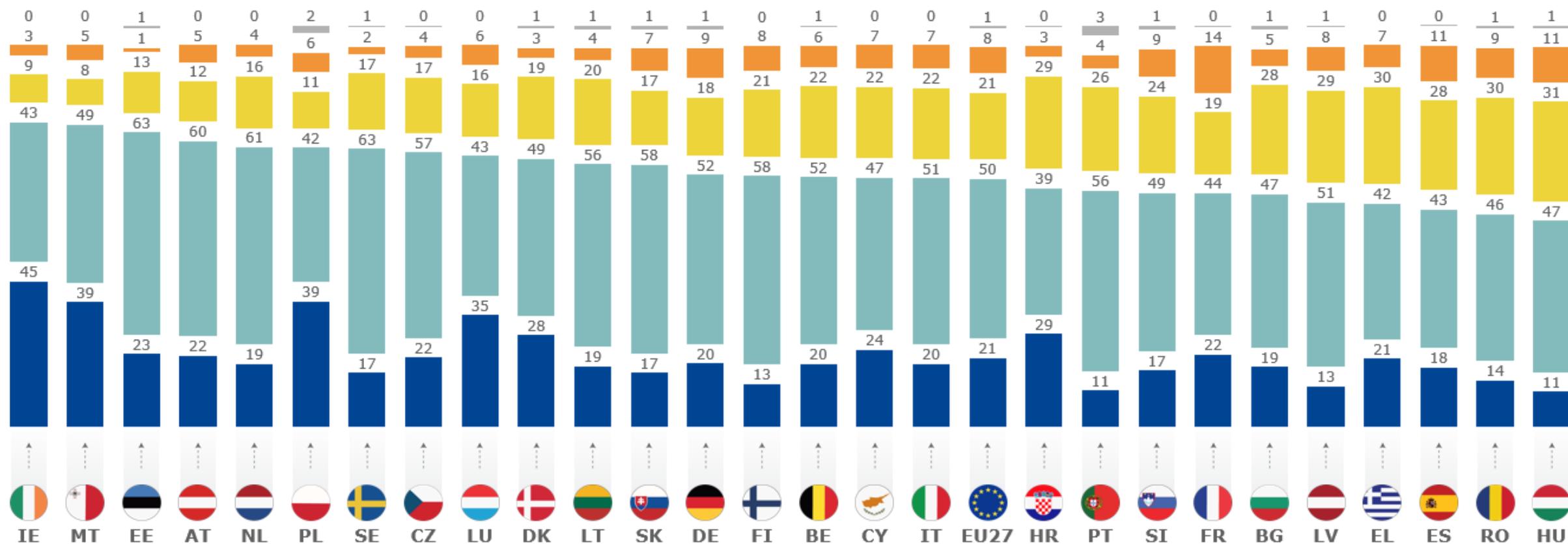
<https://www.ipsos.com/en-uk/cyber-security-breaches-survey-2022>

Flash Eurobarometer 496 - SMEs and cybercrime

How well informed do you feel about the risks of cybercrime?



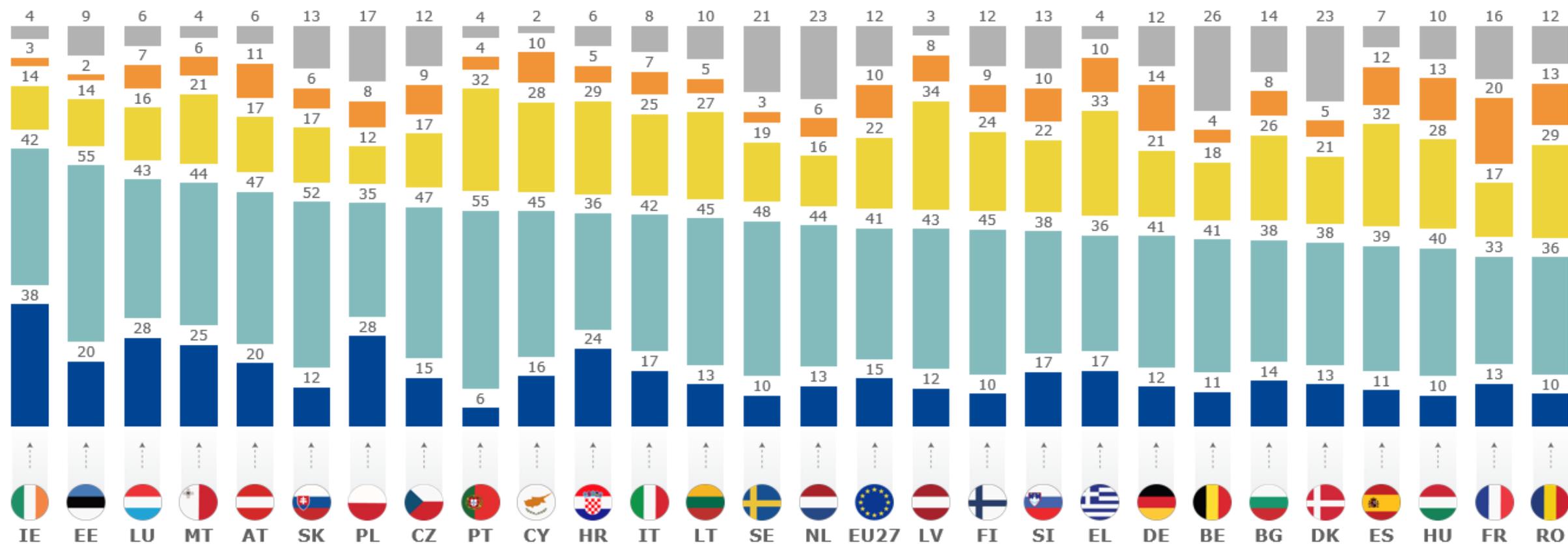
— Very well informed
 — Fairly well informed
 — Not very well informed
 — Not at all informed
 — Don't know



Flash Eurobarometer 496 - SMEs and cybercrime

How well informed do you feel your employees are about the risks of cybercrime?

Very well informed Fairly well informed Not very well informed Not at all informed Don't know



Flash Eurobarometer 496 - SMEs and cybercrime

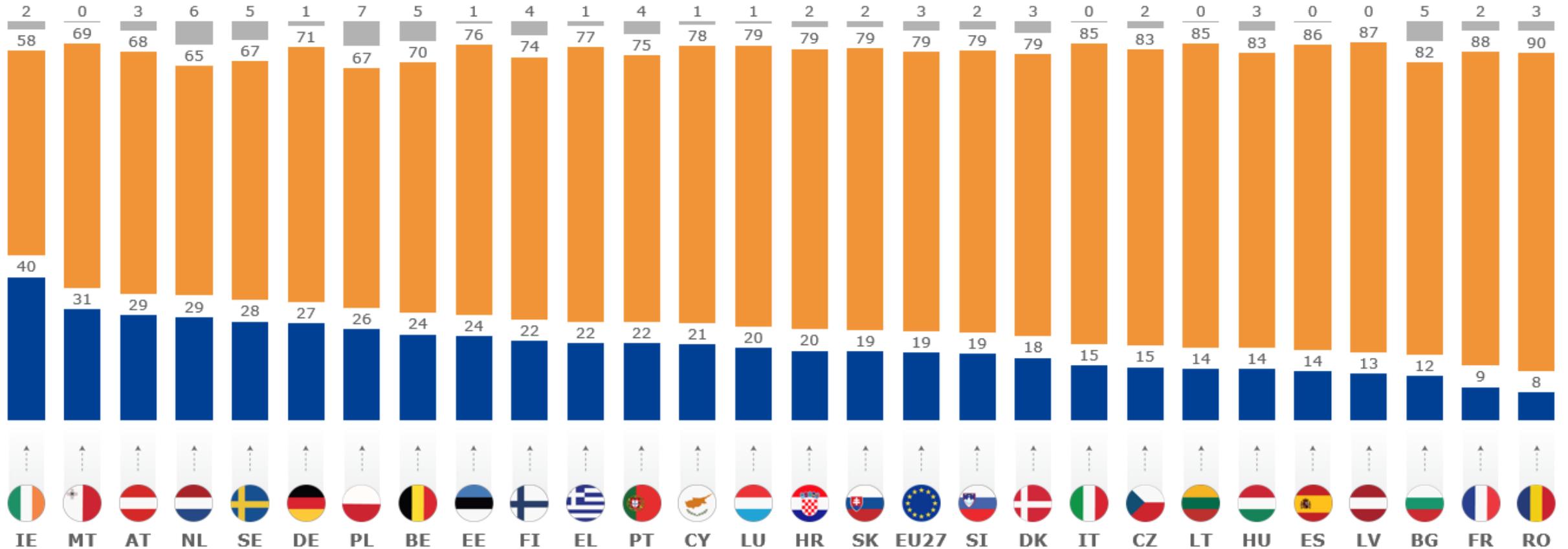
In the last 12 months, has your company provided employees with any training or awareness raising about the risks of cybercrime?



— Yes

— No

— Don't know



CYBER SECURITY SKILLS GAPS

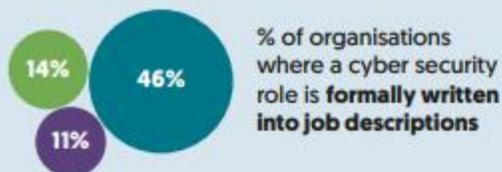
Research findings on the UK cyber security skills labour market

How cyber security is staffed

The average cyber security team consists of:



In most organisations, cyber security roles are covered informally

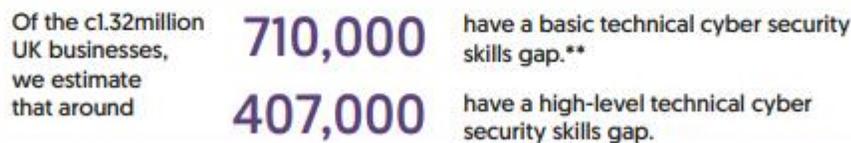


These survey findings are reflective of businesses and charities across all sectors. They do not focus on external cyber security providers*, who are the high volume recruiters in the market.

"We are always recruiting; we have induction days every Monday." External cyber security provider interview

Measuring cyber security skills gaps

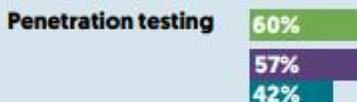
The survey measures skills gaps in terms of whether those in cyber security roles feel confident carrying out specific cyber security tasks.



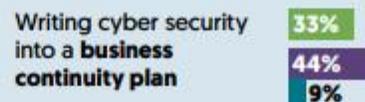
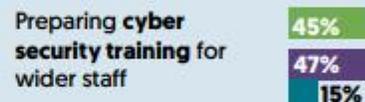
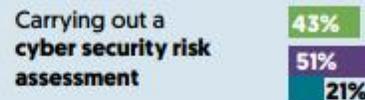
Most notable skills gaps

There are cyber security skills gaps in basic and high-level technical skills, as well as managerial, planning and organisation skills.

% of organisations **not confident** in performing the following high-level technical tasks:***



% of organisations **not confident** in performing the following managerial, planning or organisational cyber security tasks:



Where are cyber security skills gaps most pronounced?

Organisations outside London have more pronounced skills gaps in each of the areas asked about [e.g. 59% not confident in penetration testing outside London, vs. 51% in London].



Incident response

Incident response is an area that many organisations underestimate or do not understand to be important, but where there are notable skills gaps.



Cyber Security Breaches Survey: 2022



Cyber attack

A cyber-attack is a malicious and deliberate attempt by an individual or organization to breach the information system of another individual or organization. **39%** of UK businesses identified a cyber-attack in the last 12 months, with **83%** of these businesses reporting phishing attempts, and **26%** identifying a more sophisticated attack type such as a denial of service, malware or ransomware attack.



Incident response

The ability to detect and quickly respond to cyber breaches will help reduce the operational, financial and reputational damage. When experiencing a cyber breach, **84%** of UK businesses would inform their board, and **73%** would conduct an impact assessment. However, only **19%** of businesses have a written incident management plan, with qualitative findings suggesting an informal approach with reliance on internal expertise or external business partners such as IT providers.



Vulnerability management

Many cyber attackers exploit publicly disclosed vulnerabilities to gain access to systems and networks, and so regular updates are essential to guard against emerging vulnerabilities. **83%** of UK businesses have up-to-date anti malware protection, and **39%** have a policy for patch management. Additionally in the last 12 months; **35%** of UK businesses have used security monitoring tools, **17%** undertook a cyber vulnerability audit and **14%** used threat intelligence.

Internal activity



23%
Have a formal cyber security strategy

In the last twelve months...



33%
Have done a cyber security risk assessment

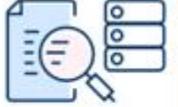


17%
Have carried out staff or awareness training



7%
Have assessed risks presented by their wider supply chain

External engagement



48%
of businesses have sought external information on cyber security



39%
Use an outsourced cyber security provider



38%
Have some form of cyber insurance. **5%** Have a standalone cyber policy



8%
of businesses has a Cyber Essentials certification

Threat landscape



Identified a cyber attack in the last twelve months

Of these...

35%

Had an impact on the business

31%

Were attacked at least once a week

20%

Resulted in a negative outcome

Board engagement



82%
State their board sees cyber security as a high priority



50%
of boards discuss cyber security at least quarterly



34%
Have a board member with responsibility for cyber security

SECONDARY DATA

MACRO-ENVIRONMENTAL FACTORS

2

Political, Economic and Social Factors

Citizens' concerns about data privacy

Safeguarding reputation through investment in cyber security

Support for government policies

Some examples of surveys conducted by Ipsos

2019 CIGI-Ipsos Global Survey on Internet Security and Trust (survey with 25,229 Internet users in 25 economies, via online or face-to-face interviewing, conducted between December 2018 and February 2019)

<https://www.ipsos.com/en/2019-cigi-ipsos-global-survey-internet-security-and-trust>

Ipsos MORI's annual Captains of Industry Survey (opinion survey among Britain's most senior business leaders)

<https://www.ipsos.com/en/reputation-rise-safeguarding-your-brand-reputation-through-investment-cyber-security>

Trust in the Internet, survey released by The NEW INSTITUTE in Germany (Online survey with 14,519 Internet users in 20 economies using the Ipsos panel, conducted in November 2021)

<https://www.ipsos.com/sites/default/files/ct/news/documents/2022-11/Trust%20in%20the%20Internet%2C%20Nov%202022.pdf>

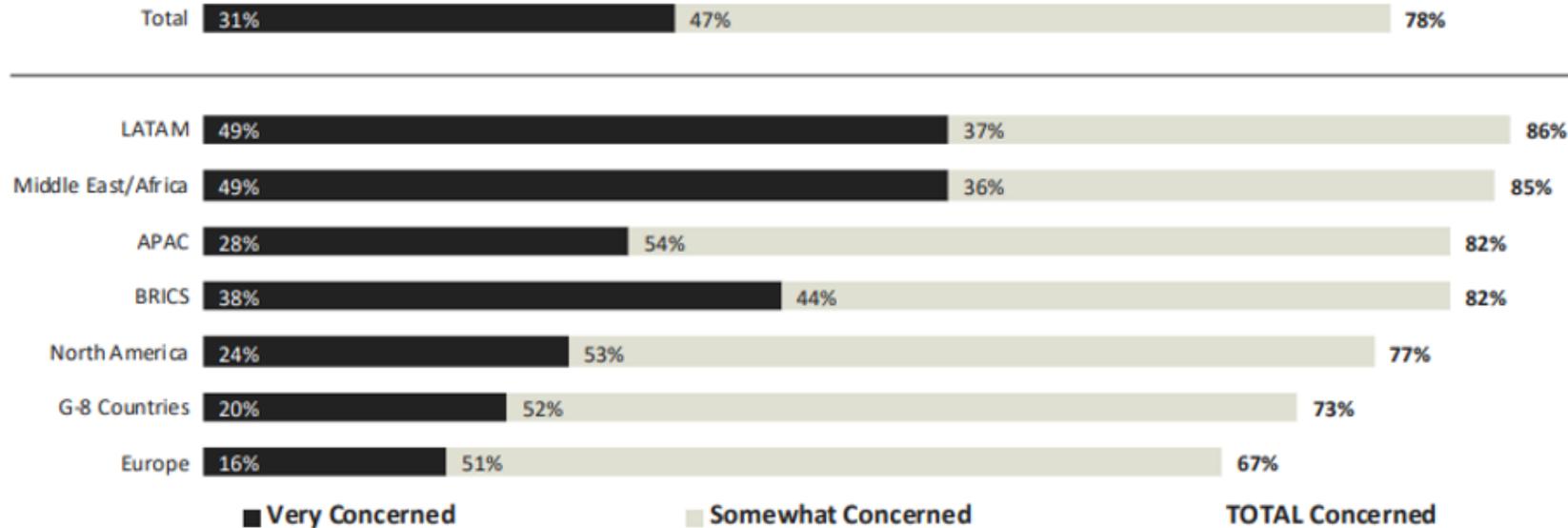
PRIVACY & SECURITY

CIGI-IPSOS GLOBAL SURVEY INTERNET SECURITY & TRUST

Across all regions, most have at least some degree of concern when it comes to their online privacy, with those living in developing economies being significantly more likely to express at least some level of concern. Europeans are least concerned.

A1. How concerned are you about your online privacy?

Base: 2019 (n=23,854)



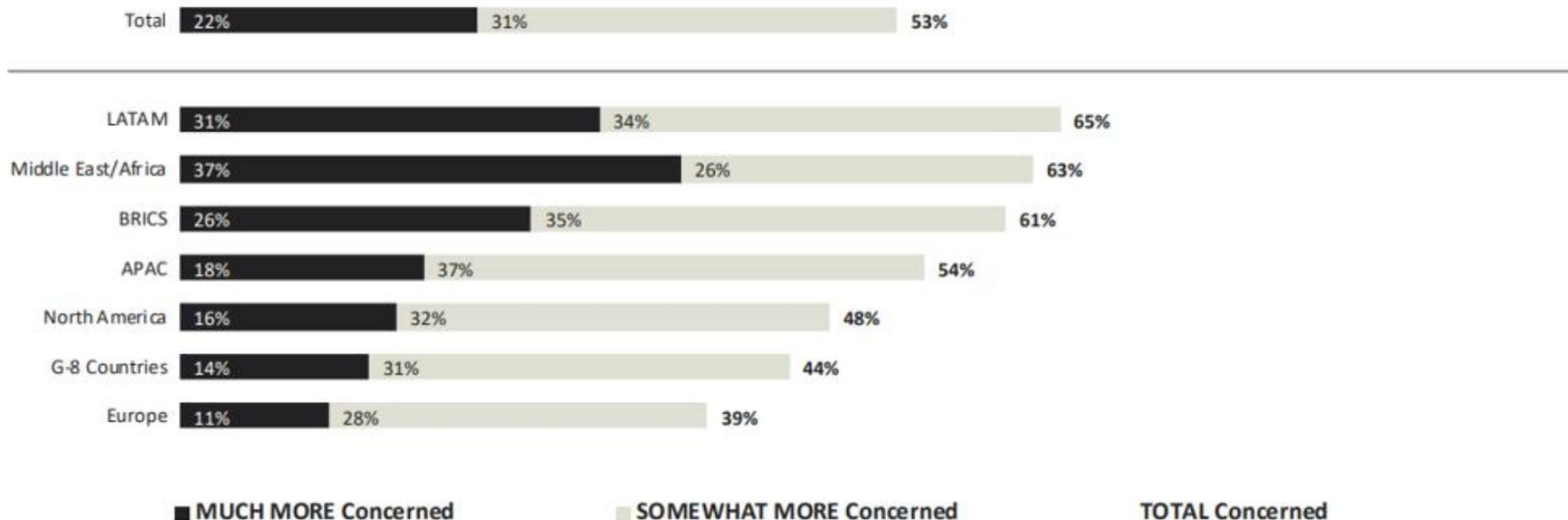
PRIVACY & SECURITY

CIGI-IPSOS GLOBAL SURVEY INTERNET SECURITY & TRUST

Growing concerns towards online privacy are less pronounced in developed economies. More specifically, less than half in Europe (39%), North America (48%) & the G-8 more generally (44%) say they're more concerned than last year, but a majority in LATAM (65%), The Middle East (63%), BRICS (61%) and APAC (54%) cite a growing concern.

Q1. How concerned are you about your online privacy compared to one year ago?

Base: 2019 (n=23,854)



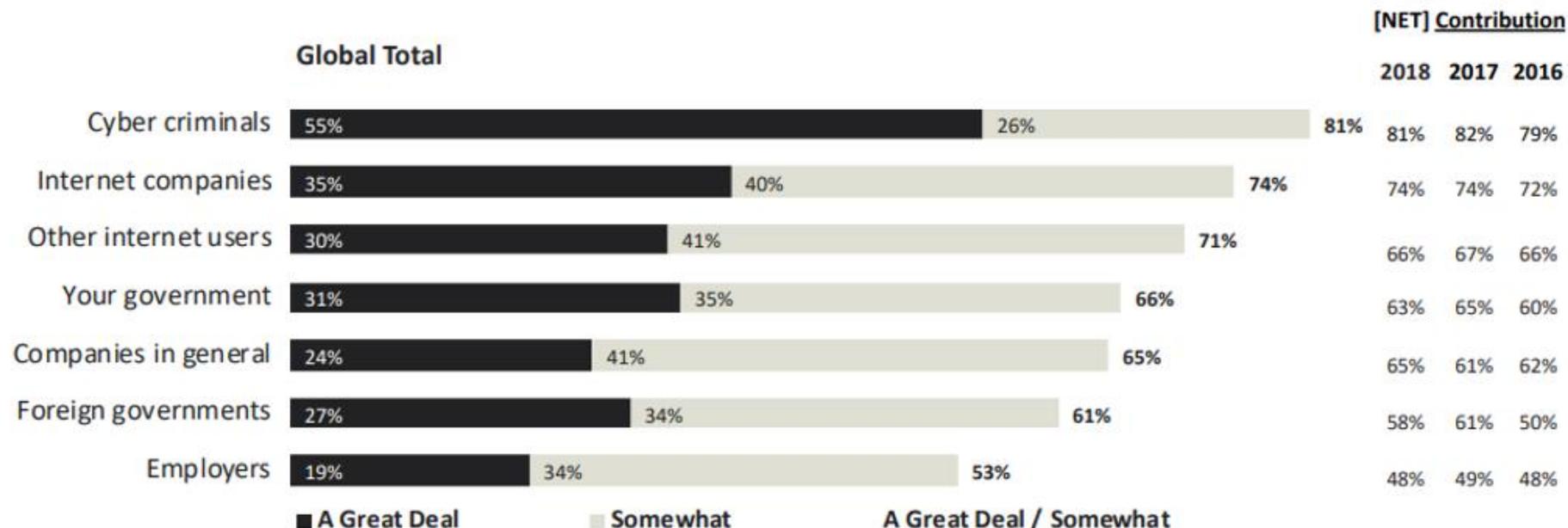
PRIVACY & SECURITY

CIGI-IPSOS GLOBAL SURVEY INTERNET SECURITY & TRUST

Among those who claim to be at least *somewhat more concerned* about their online privacy, compared to a year ago, cyber criminals are the leading factor that has contributed to their increased levels of concern. However, since 2016, concerns about governments, both domestic and foreign, have grown the most.

Q2. To what extent have the following sources contributed to your being more concerned than last year about your online privacy?

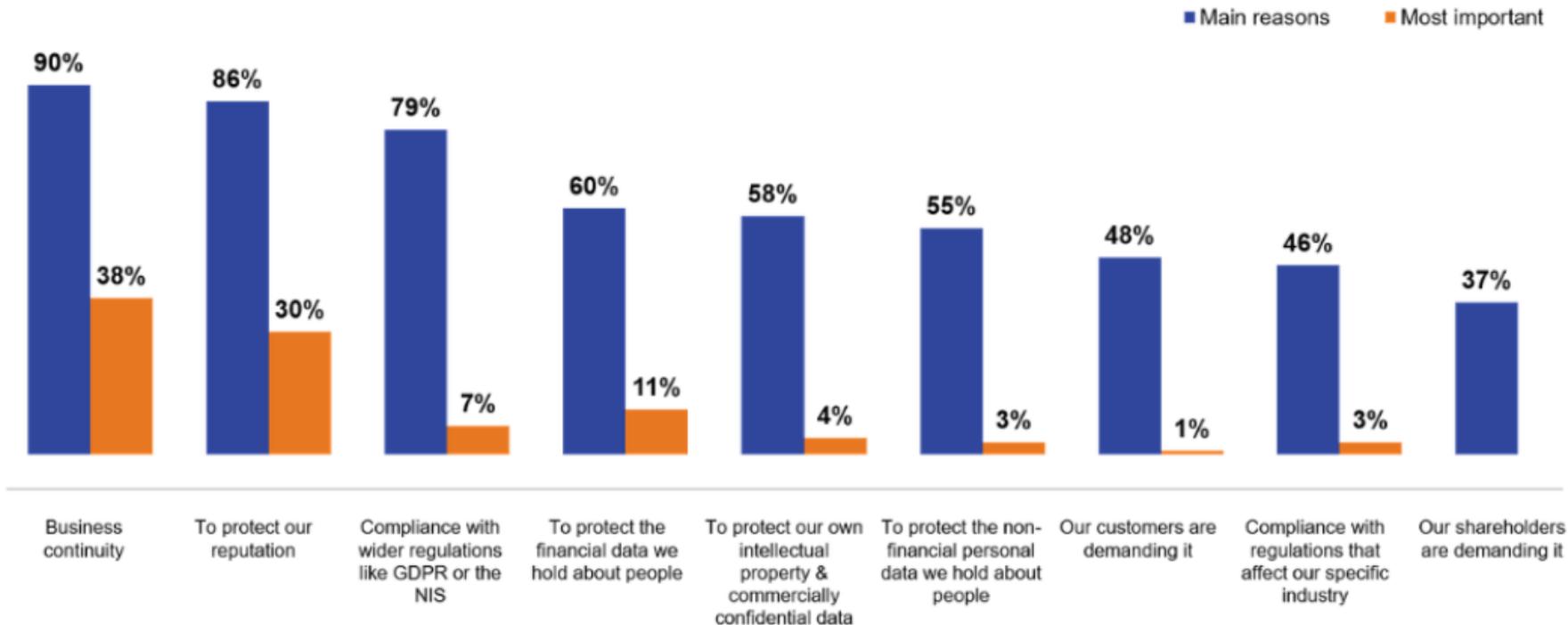
Base: A Great Deal / Somewhat More Concerned About Online Privacy 2016 (n=13,867); 2017 (n=12,468); 2018 (n=12,956); 2019 (n=25,229)



Captains of Industry

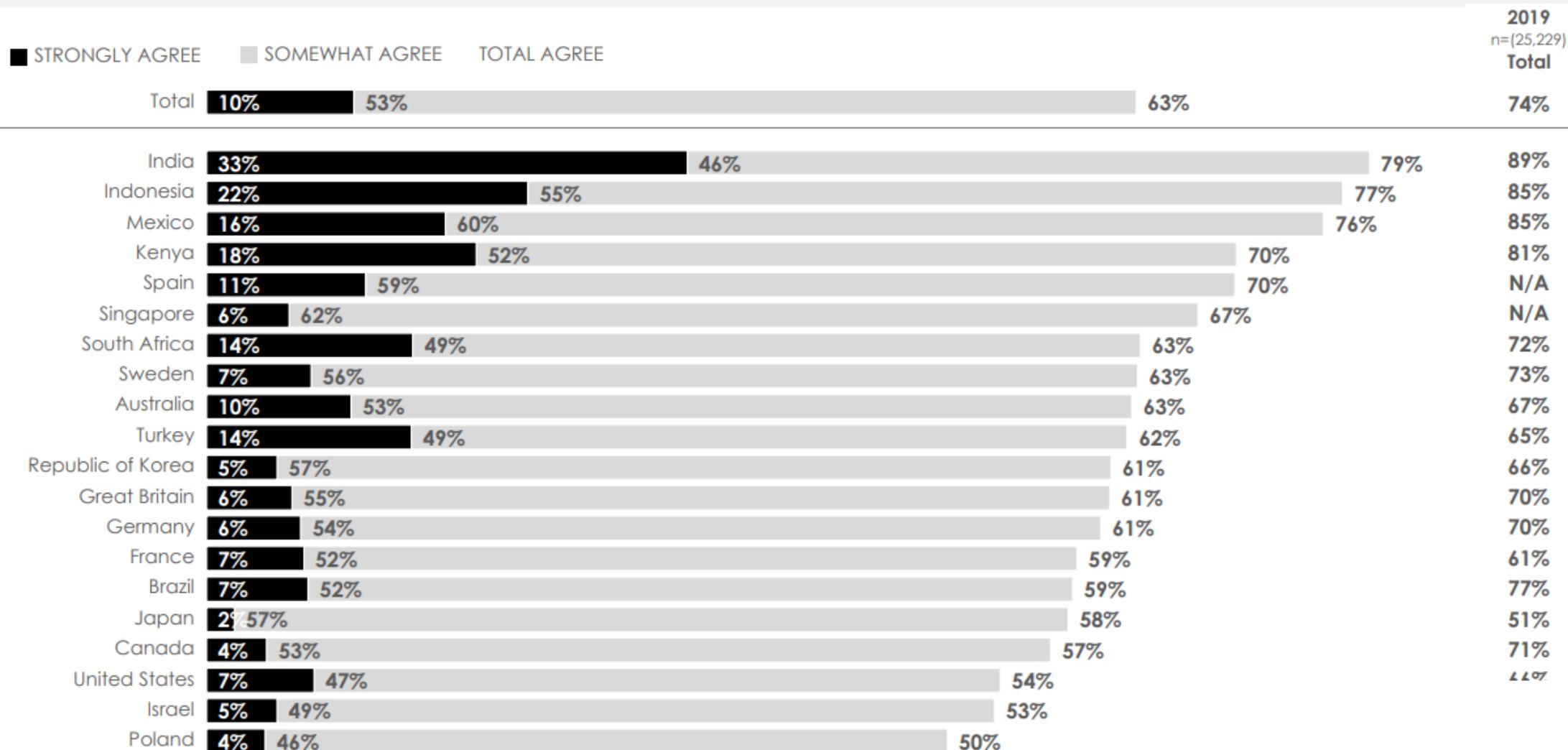
2020 Findings

Firstly, please tell me which of the following would you say are the main reasons for your company to invest in cyber security? And which one of these would you say is the most important reason?



Overall, trust in the internet has declined by 11 points to 63%. A majority of economies experienced a decline from 2019 but the most notable include Poland decreasing by 26 points (50%), Brazil decreasing by 18 points (58%), and Canada decreasing by 14 points (57%).

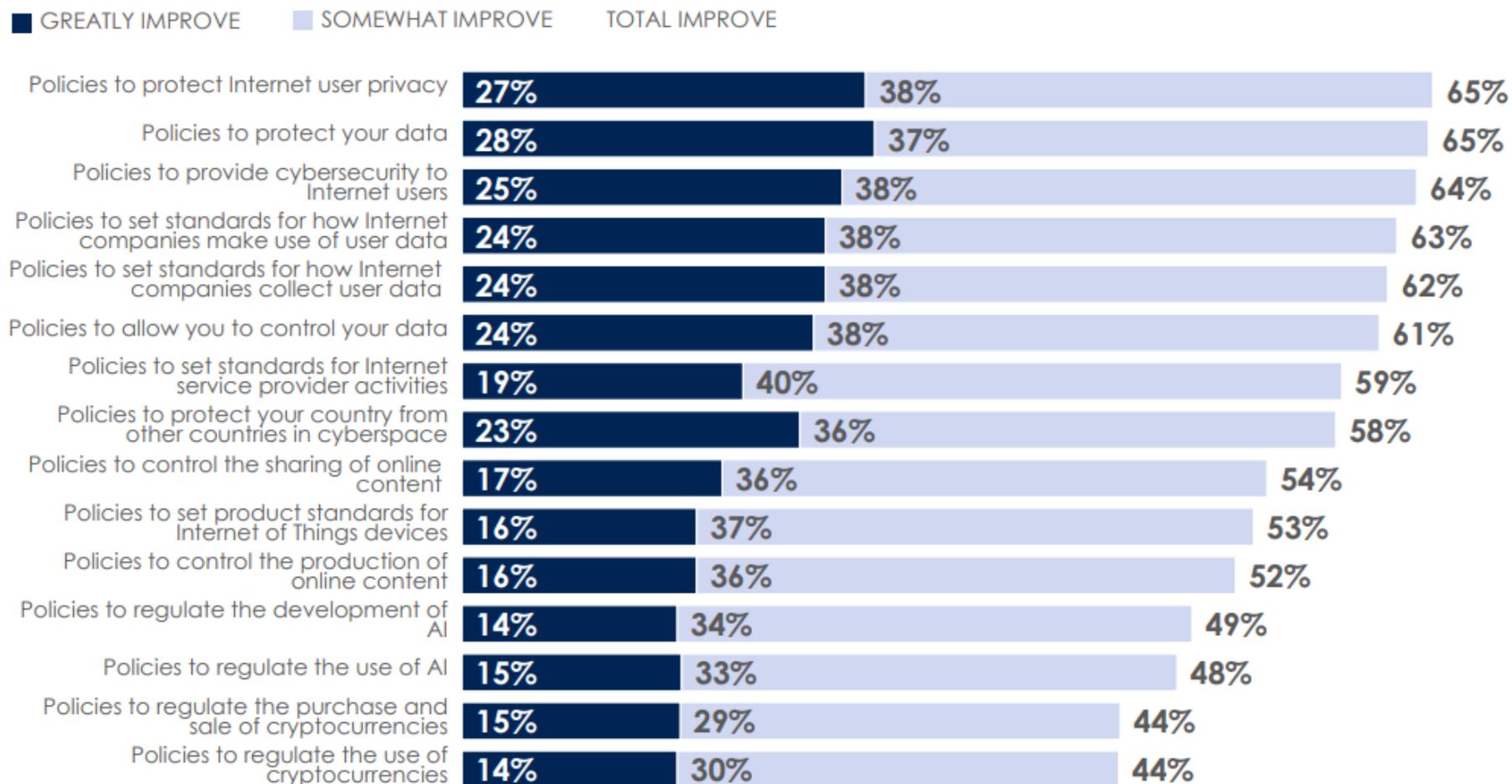
AGREEMENT WITH STATEMENT: OVERALL, I TRUST THE INTERNET



© Ipsos Base: Total respondents 2020 (n=14519) ; 2019 (n=25,229); Q2.1 How much do you agree or disagree with the following statements ...

A majority agree that most proposed government policies will improve internet trust. Specifically, three in five agree that policies to protect internet user privacy (65%), providing cybersecurity (65%), set standards on how companies make use of user data (64%), set standards for companies collecting user data (62%), and allow you to control your data (61%) would improve trust.

SUPPORT FOR GOVERNMENT POLICIES TO IMPROVE TRUST IN THE INTERNET



THANK YOU!

FEMKE DE KEULENAER

Senior Research Director

 femke.dekeulenaer@ipsos.com

 +32 485 182 350

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