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National Cybersecurity: A Latin American and Caribbean's View

Cybersecurity Program
Organization of American States

The opinions expressed in this presentation do not necessarily reflect the views of the General Secretariat of the Organization of American States or the governments of its member states.

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@bamassis

@OEA_Cyber

Program Objective



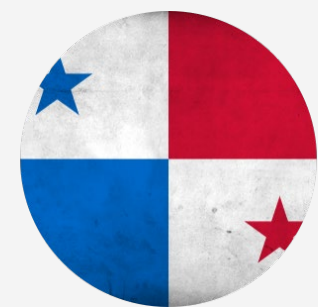
Strengthen the capacity of Member States to detect cyber threats, as well as to prevent, respond to and recover from cyber incidents through the comprehensive program “Strengthening Cyber Security Capabilities in the Americas” that works in 3 core areas:

- ✓ Policy Development
- ✓ Capacity Building
- ✓ Research and Outreach

National Strategies Approved



Colombia
(2011 & 2016)



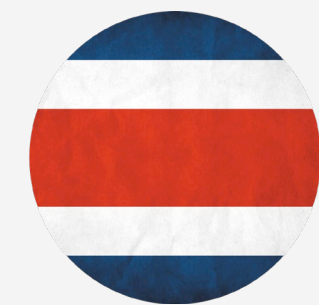
Panama
2013



**Trinidad
and Tobago**
2013



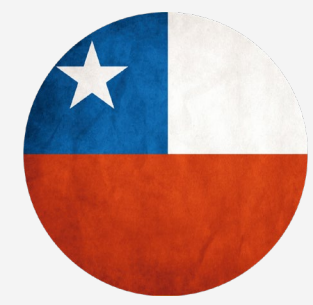
Jamaica
2015



Costa Rica
2017



Paraguay
2017



Chile
2017



Mexico
2017



Guatemala
2018

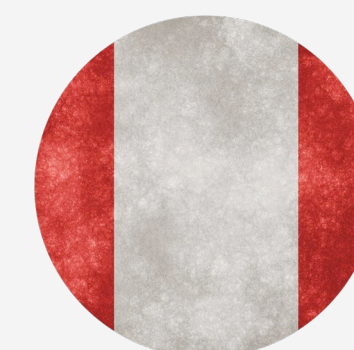


**Dominican
Republic**
2018

National Strategies – In Progress



Argentina



Peru

CRITICAL INFRASTRUCTURE PROTECTION IN LATIN AMERICA AND THE CARIBBEAN 2018



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Microsoft

WHICH INDUSTRY DO YOU BELONG TO?

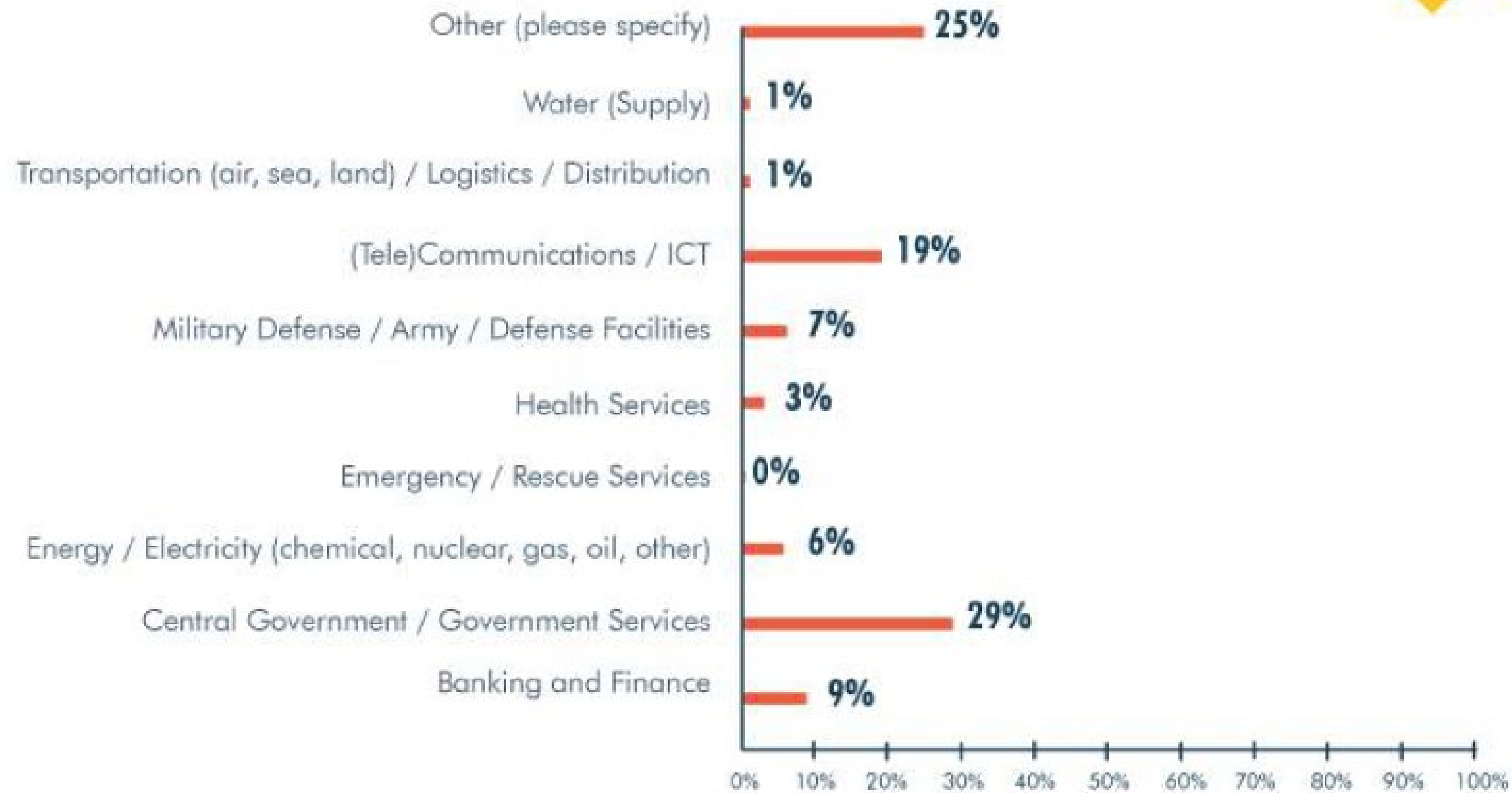
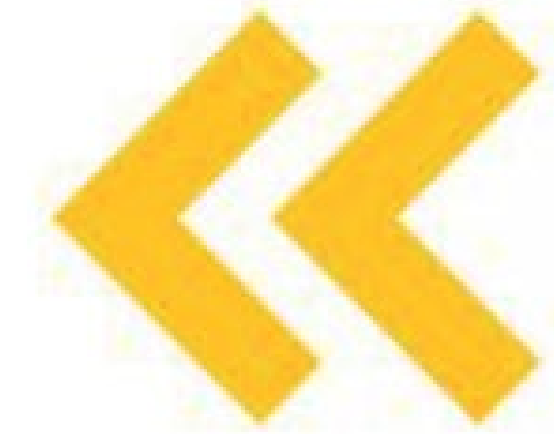


Figure 1 Total respondents, n = 497

HOW WOULD YOU DESCRIBE YOUR ORGANIZATION'S ABILITY TO DETECT A CYBER INCIDENT AND/OR CYBER ATTACK?

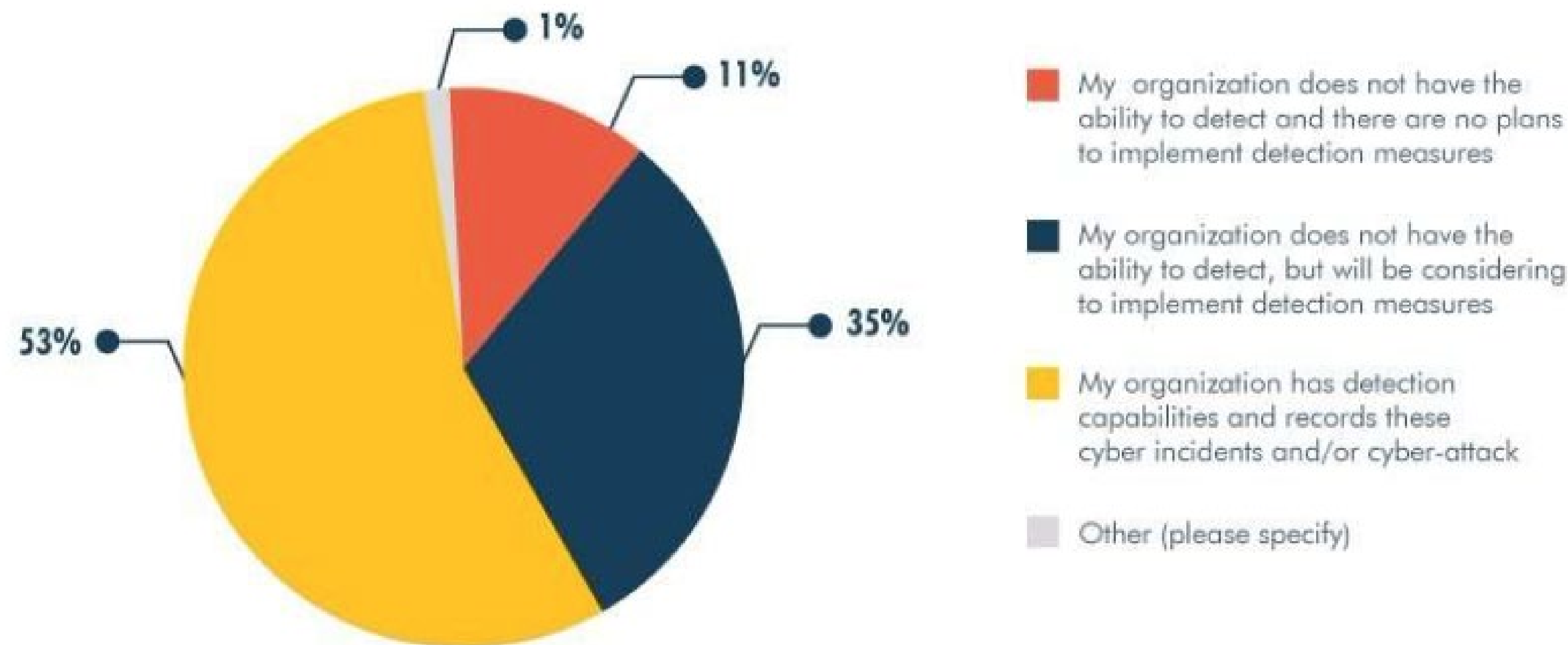


Figure 2 Total respondents, n = 455

HAS YOUR ORGANIZATION DETECTED ATTACKS AND/OR INCIDENTS ON OR AGAINST YOUR ORGANIZATION'S COMPUTER SYSTEMS AND/OR NETWORK EXPERIENCED IN THE LAST 12 MONTHS?

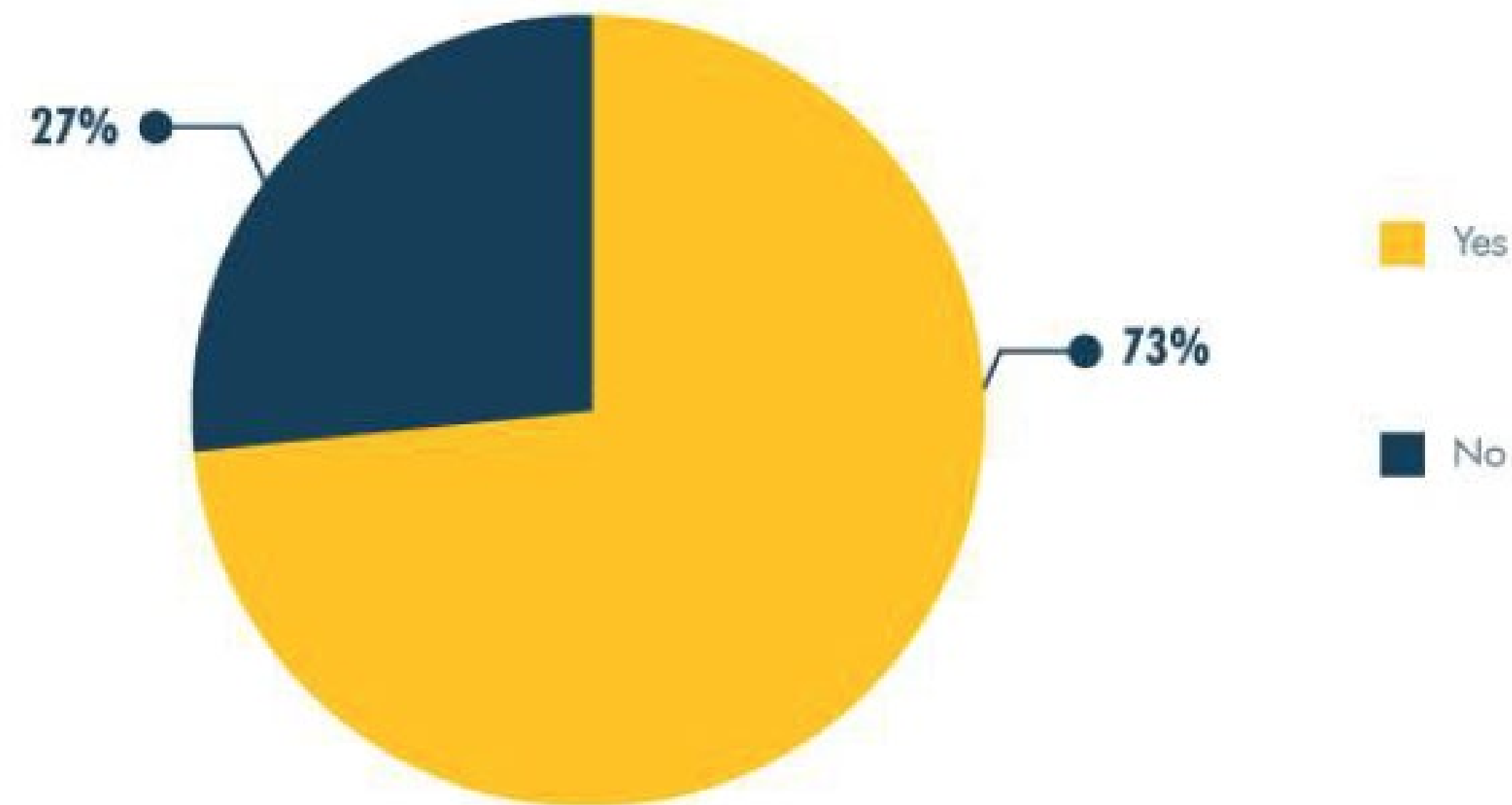
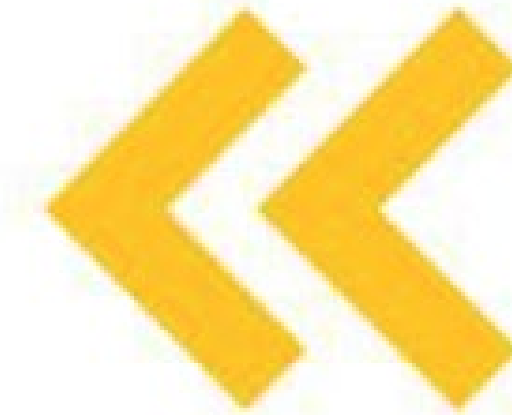


Figure 3 Total respondents, n= 453

HAVE YOU NOTICED AN INCREASE, DECREASE, OR NO CHANGE IN THE NUMBER OF ATTACKS TO YOUR ORGANIZATION'S COMPUTER SYSTEMS AND/OR NETWORK IN THE LAST 12 MONTHS?

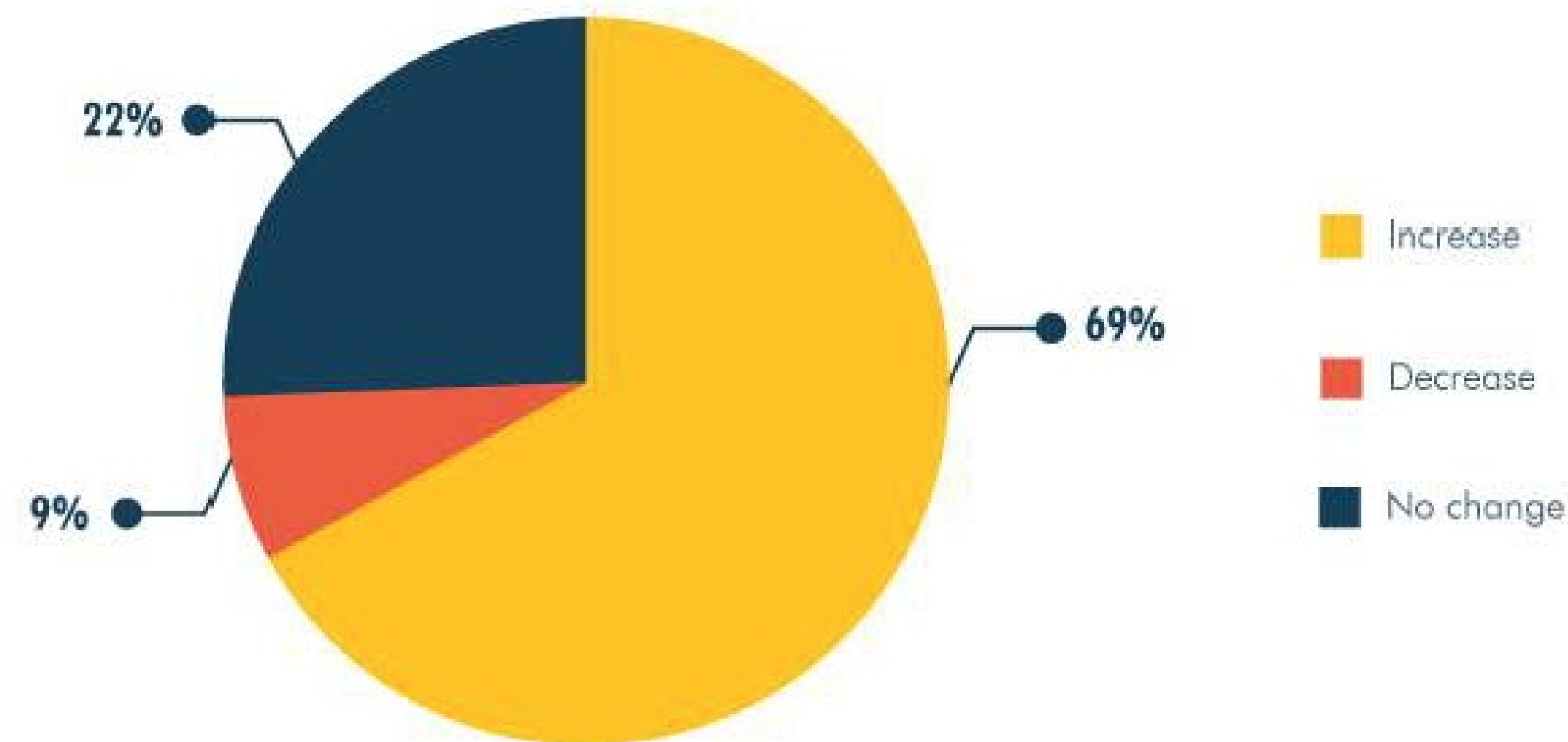
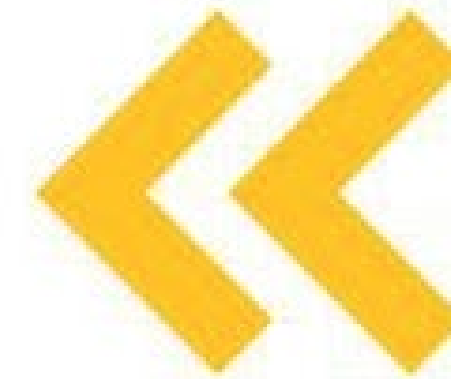


Figure 4 Total respondents, n= 330

ARE THE ATTACKS AGAINST YOU GETTING MORE SOPHISTICATED?

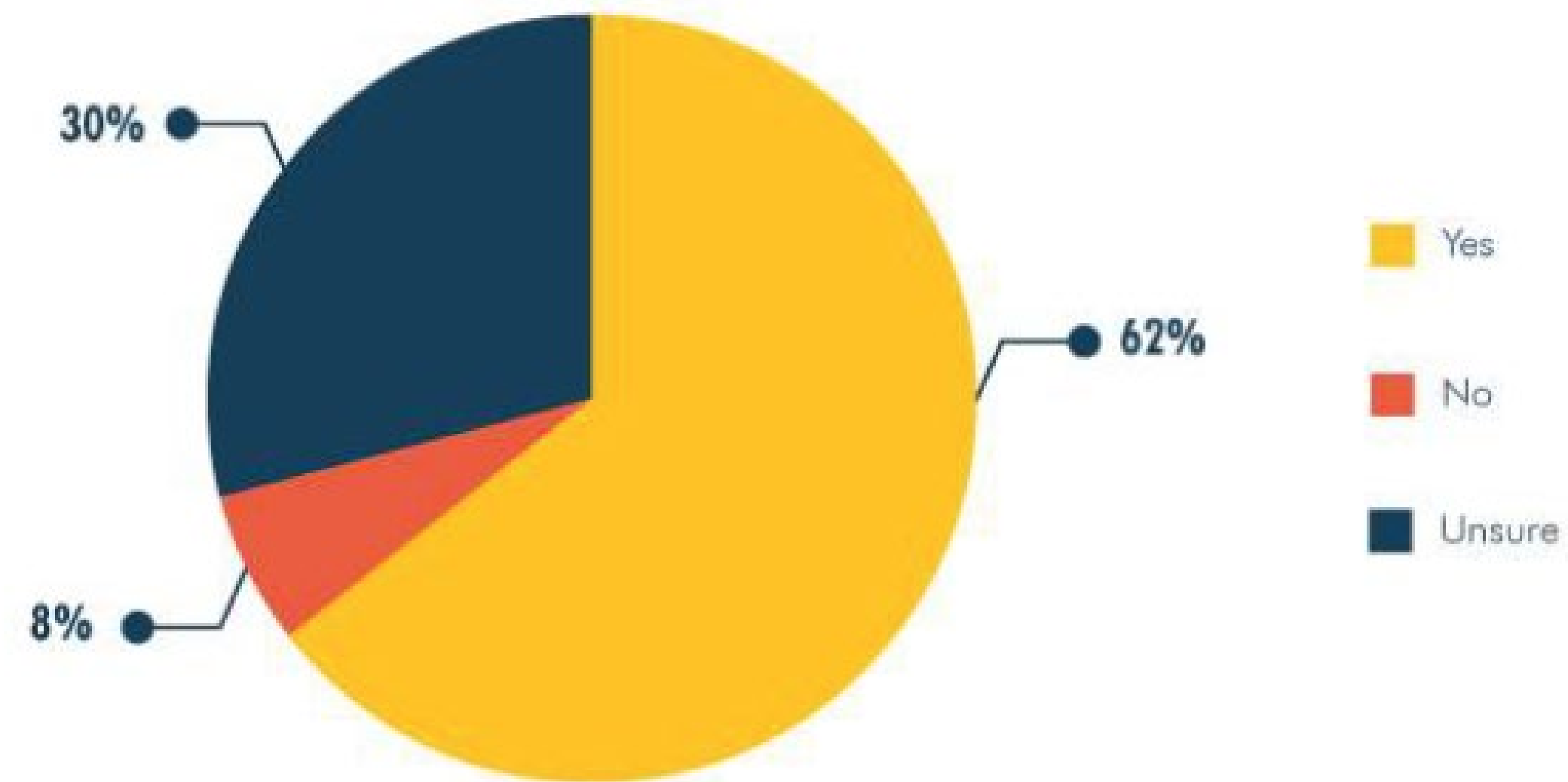
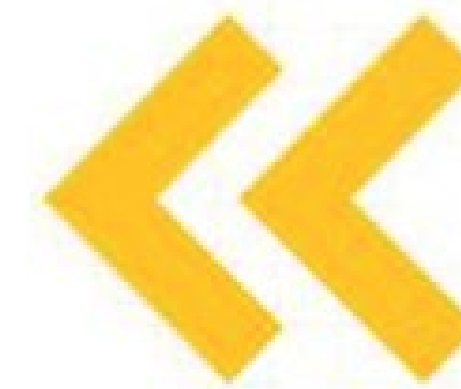
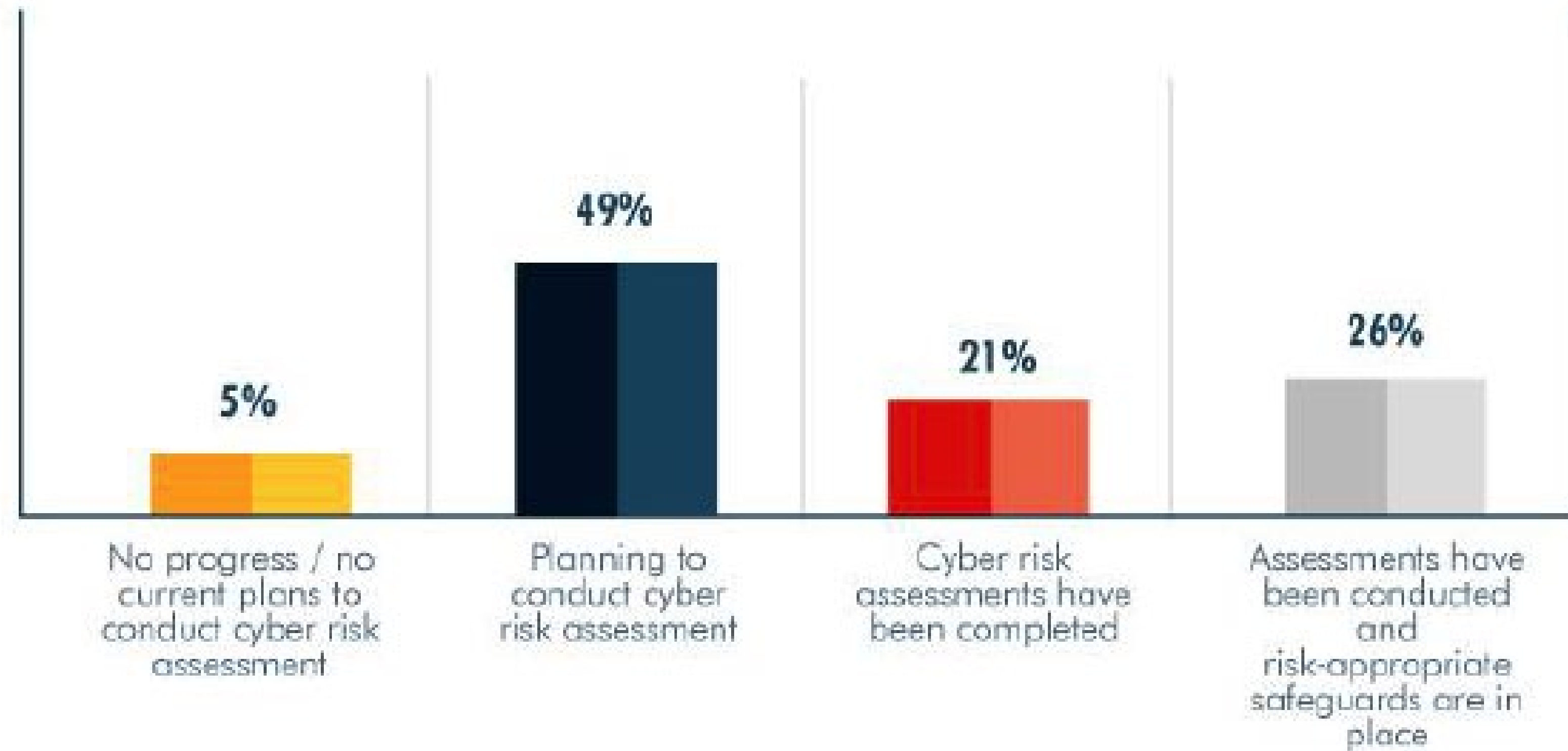
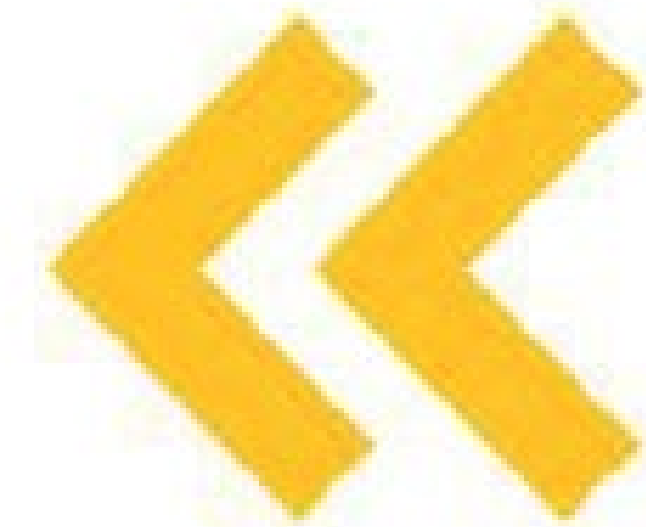
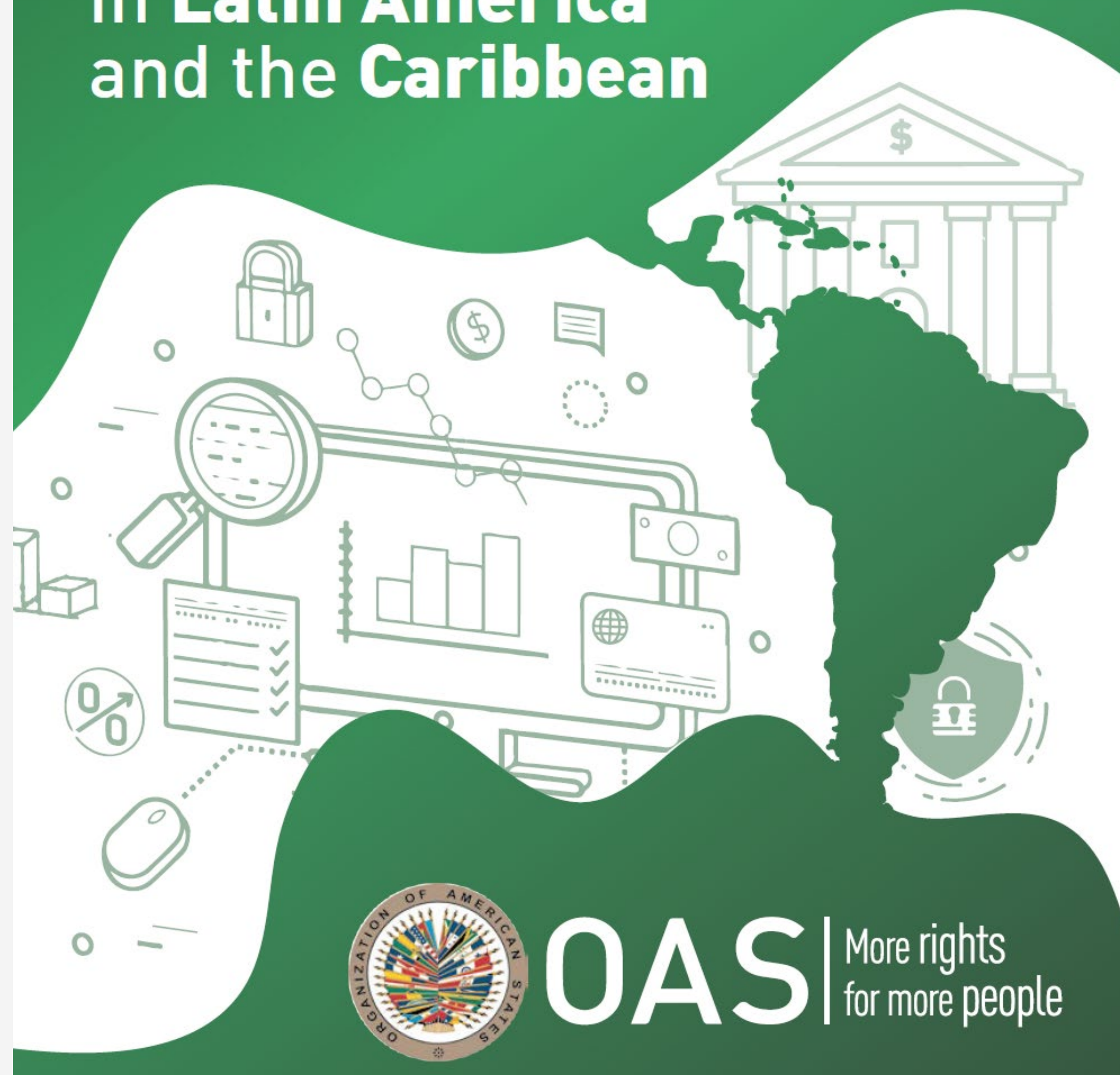


Figure 7 Total respondents, n = 320

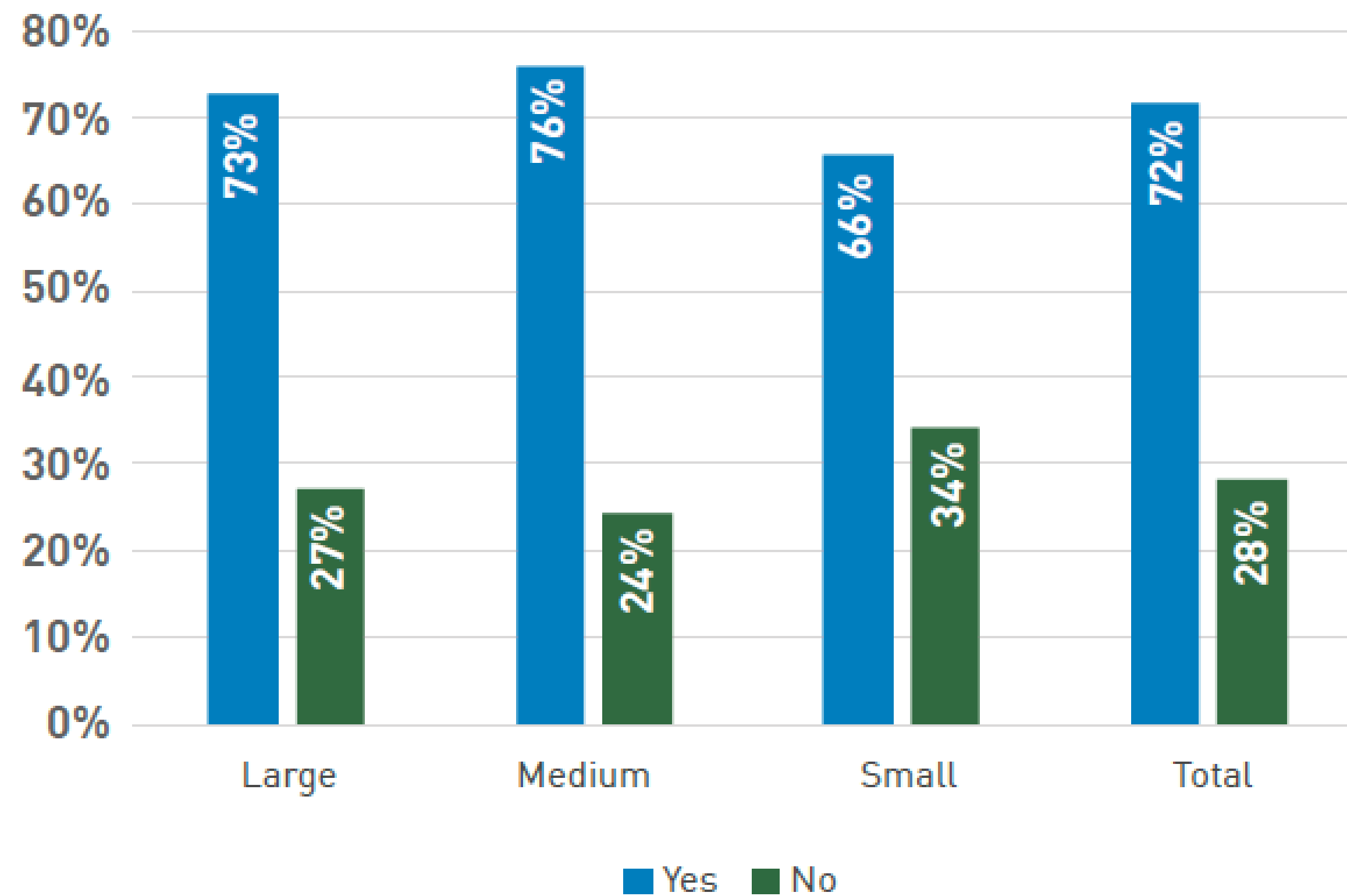
IN RELATION TO CYBERSECURITY RISK MANAGEMENT, HOW WOULD YOU DESCRIBE YOUR COMPANY'S EFFORTS?



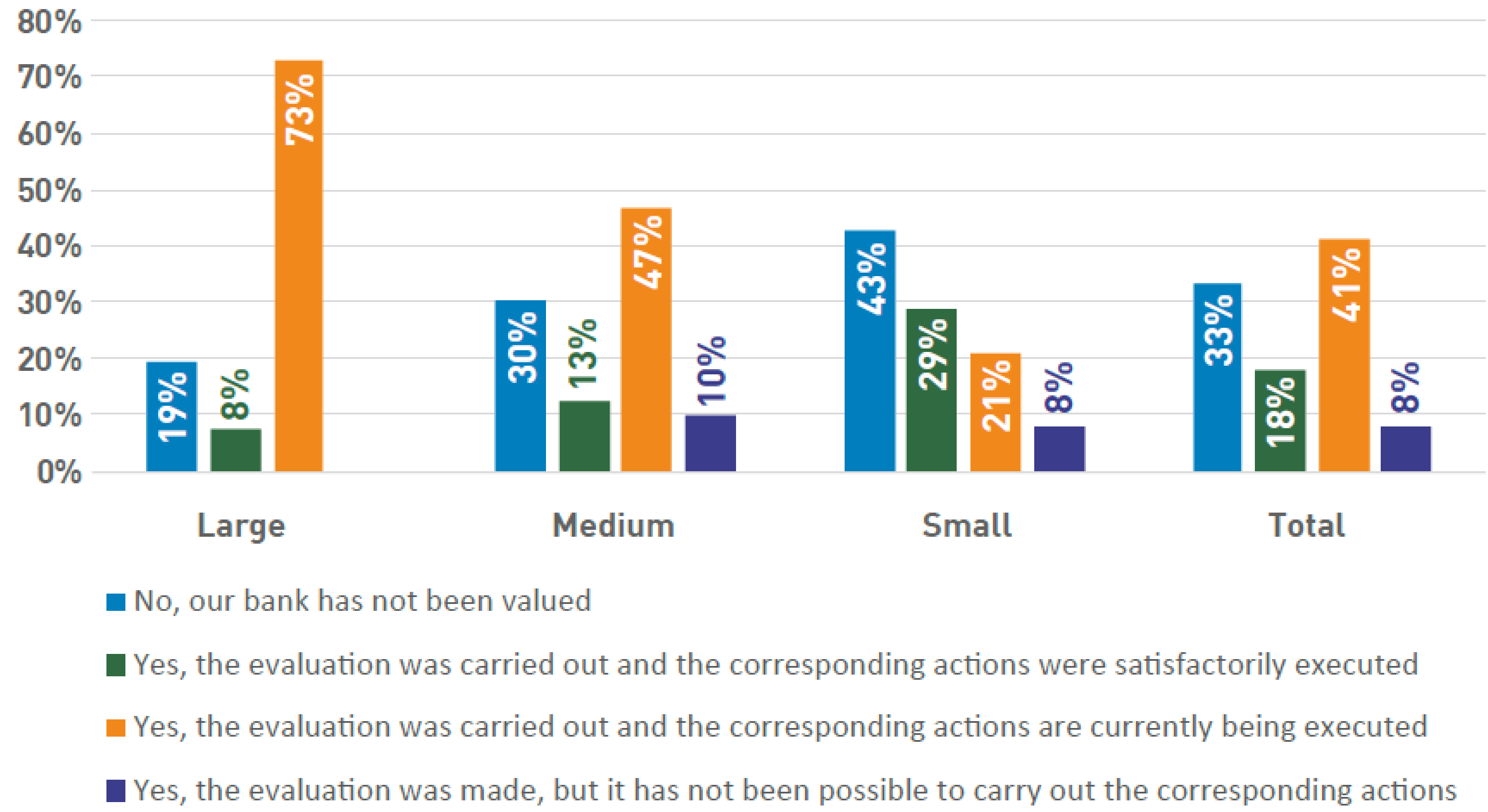
State of Cybersecurity in the Banking Sector in Latin America and the Caribbean



Graph 9. Does the board of directors of the banking entity receive periodic reports on indicators and digital security risk management?

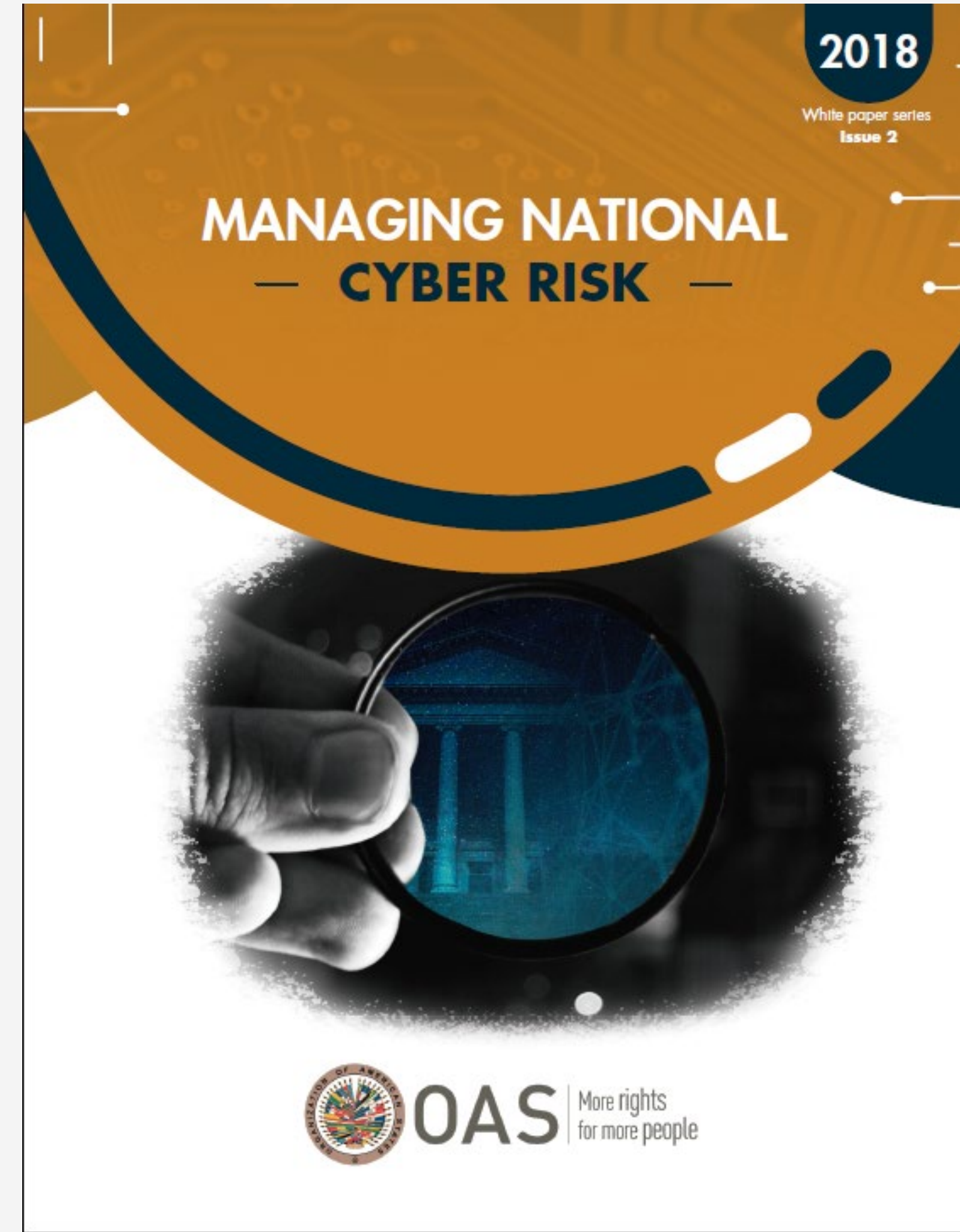
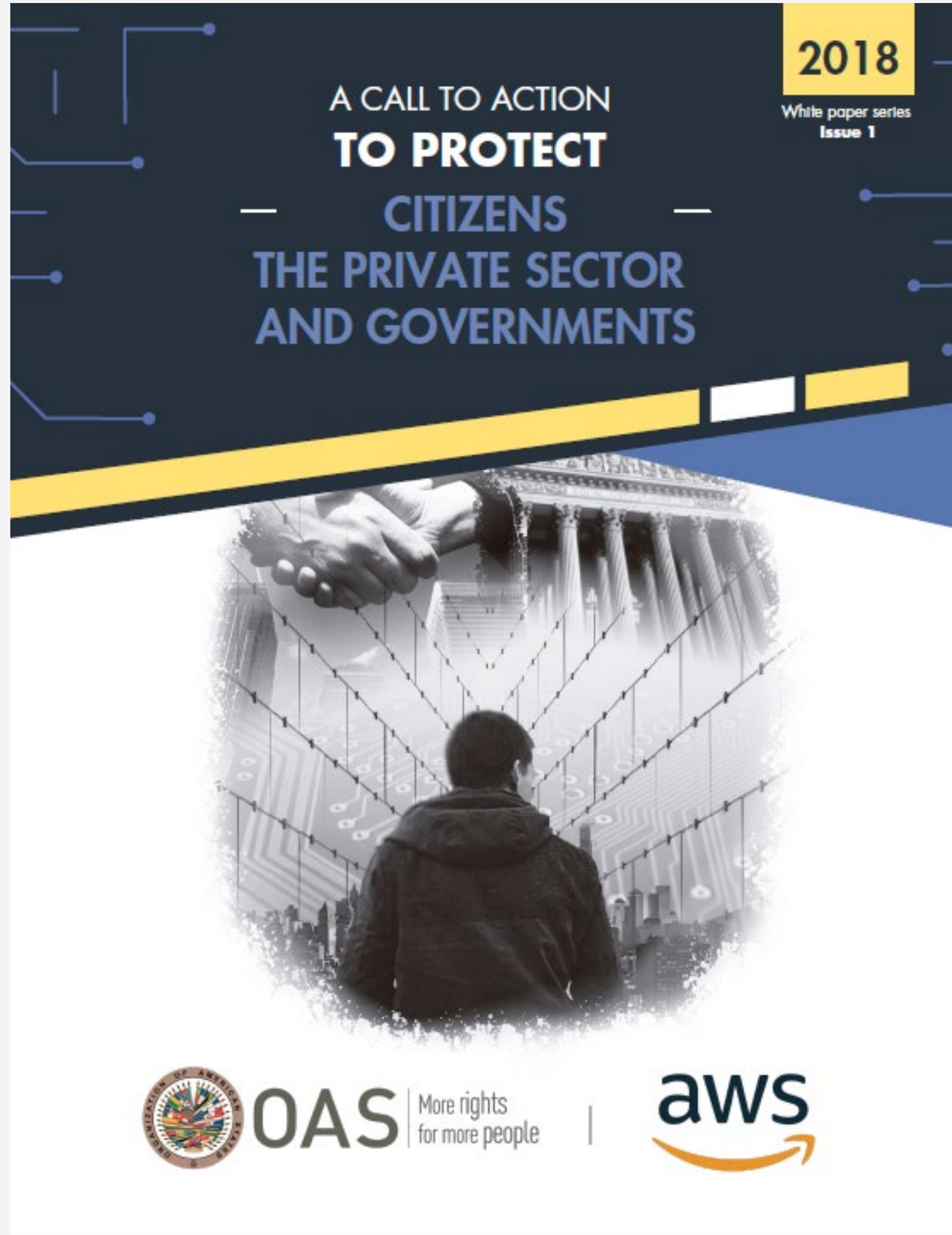


Graph 19. Has the bank been externally rated in the last two (2) years under any digital security maturity assessment methodology and has it completed that evaluation?



Note: 168 records

Source: GS/OAS based on information collected from banking entities in Latin America and the Caribbean



Observatory

www.cybersecurityobservatory.com

OBSERVATORY OF
CYBERSECURITY
IN LATIN AMERICA AND THE CARIBBEAN

ENGLISH ▾


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This site shows the levels of maturity on Cybersecurity in Latin America and The Caribbean. Please select te countries you want to compare and **scroll down** to see the results.

Compare another country ▾

Deselect all	Ok
BAHAMAS	
BARBADOS	
BELIZE	
BOLIVIA	
✓ BRAZIL	

promote economic growth and social progress. In light of its increased adoption of ICT, Brazil has become a prime target of cyberattacks and

Read more >>

BRAZIL

Policy and Strategy

A horizontal bar chart titled "Policy and Strategy" comparing Brazil's maturity level against other countries in the region. Brazil's bar is green and is among the longer bars, indicating a higher level of maturity.

Culture and Society

A horizontal bar chart titled "Culture and Society" comparing Brazil's maturity level against other countries in the region. Brazil's bar is blue and is shorter than most others, indicating a lower level of maturity.

Education

A horizontal bar chart titled "Education" comparing Brazil's maturity level against other countries in the region. Brazil's bar is orange and is relatively short, indicating a low level of maturity.


Legal Frameworks


A horizontal bar chart titled "Legal Frameworks" comparing Brazil's maturity level against other countries in the region. Brazil's bar is red and is one of the longest, indicating a high level of maturity.

Technologies

A horizontal bar chart titled "Technologies" comparing Brazil's maturity level against other countries in the region. Brazil's bar is yellow and is among the shortest, indicating a low level of maturity.

A map of Latin America and the Caribbean. Brazil is highlighted in dark gray, while the rest of the region is shown in light gray. This visualizes Brazil's position as a primary focus or subject of analysis within the context of the entire region.


CHILE


COSTA RICA

Select a country to compare

Select a country to compare

↓

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Policy and Strategy ▾

Documented or Official National Cybersecurity Strategy

Strategy development	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 25%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>
Organization	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 25%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>
Content	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 25%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>

Cyber Defense Consideration

Strategy	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 25%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>
Organization	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 25%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>
Coordination	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 25%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>	<div style="width: 100%; height: 10px; background-color: #4f81bd;"></div>

Culture and Society ▾

Cybersecurity Mind-set

Government	<div style="width: 50%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 25%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>
Private sector	<div style="width: 75%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 50%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>
Society	<div style="width: 50%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 25%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>

Cybersecurity Awareness

Awareness raising	<div style="width: 50%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 25%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>
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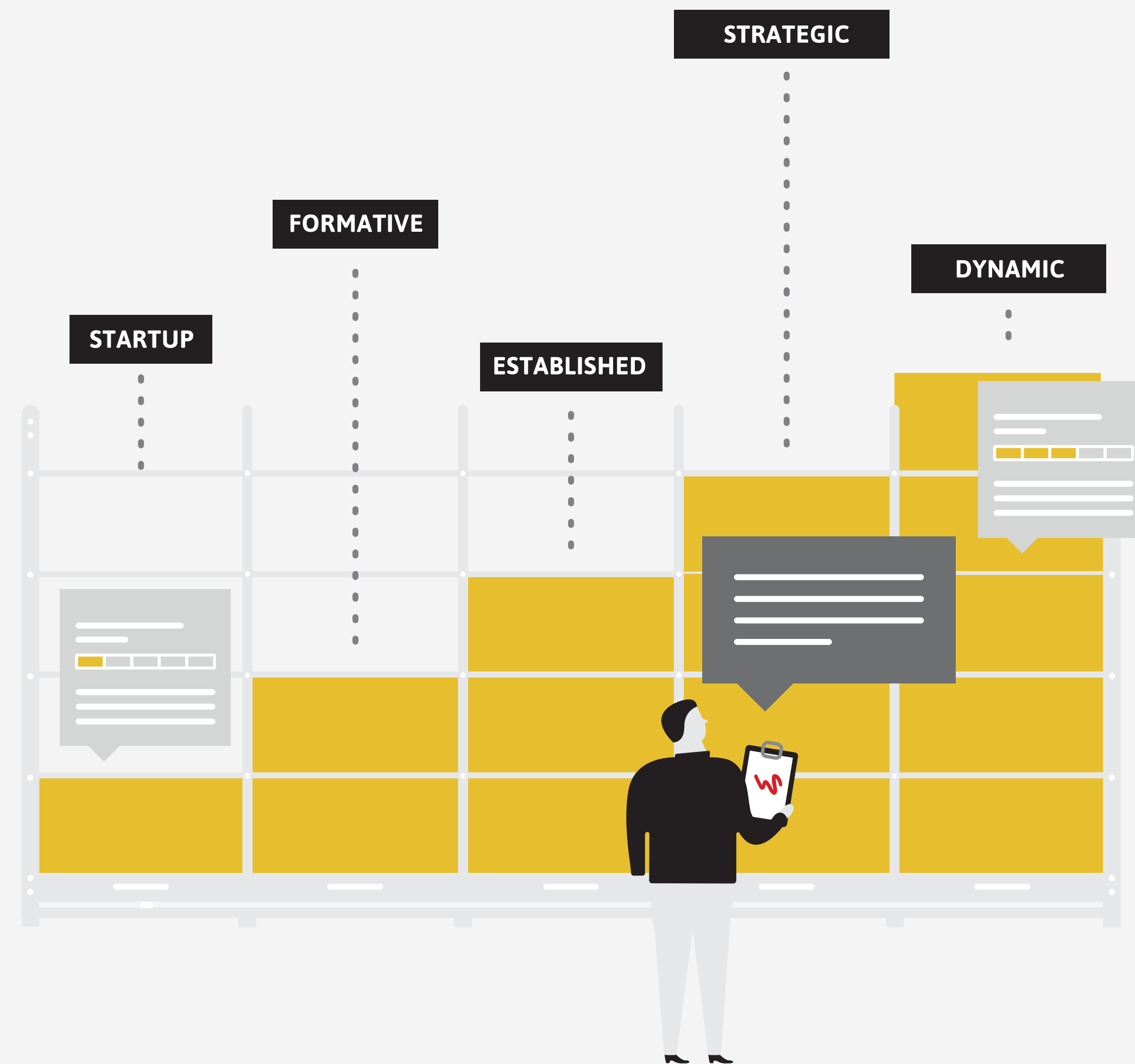
Confidence and Trust on the Internet

Trust in use of online services	<div style="width: 50%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 25%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>
Trust in e-government	<div style="width: 50%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 25%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>
Trust in e-commerce	<div style="width: 75%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 50%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>

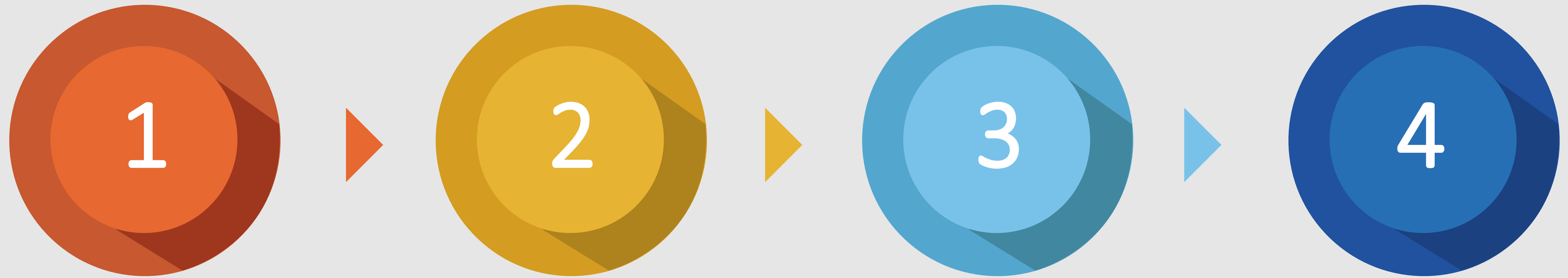
Online Privacy

Privacy standards	<div style="width: 75%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 50%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>
Employee privacy	<div style="width: 50%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 25%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>	<div style="width: 100%; height: 10px; background-color: #0070c0;"></div>

CMM - 5 Levels of Maturity



Implementation



Every good plan must have **ownership** or else fingers will always be pointing when something goes wrong or nothing happens.

Identify a responsible entity for each activity and allocate a **budget**.

Develop a **monitoring mechanism**: This could be done by a public body or an interagency/inter-ministerial working group defined as the coordinator of the strategy. This will be the entity that has the overall responsibility for the strategy lifecycle and the strategy documentation itself.

Define the structure of the **coordinating entity**, its exact responsibilities and its **relationships with the other stakeholders** (ENISA, 2012).

Thank you!
Merci
Gracias
Obrigado

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