



# Federal Cloud Infrastructure Survey Report

May 2021



Underwritten by: **rackspace**  
technology. **aws**

**vmware**<sup>®</sup> **carahsoft**

Advanced Technology Academic Research Center  
designed by government • led by government • attended by government

# Federal Cloud Infrastructure Survey

## Purpose and Methodology



The Advanced Technology Academic Research Center (ATARC) is a 501(c)(3) non-profit organization that provides a collaborative forum for Federal government, academia and industry to identify, discuss and resolve emerging technology challenges.

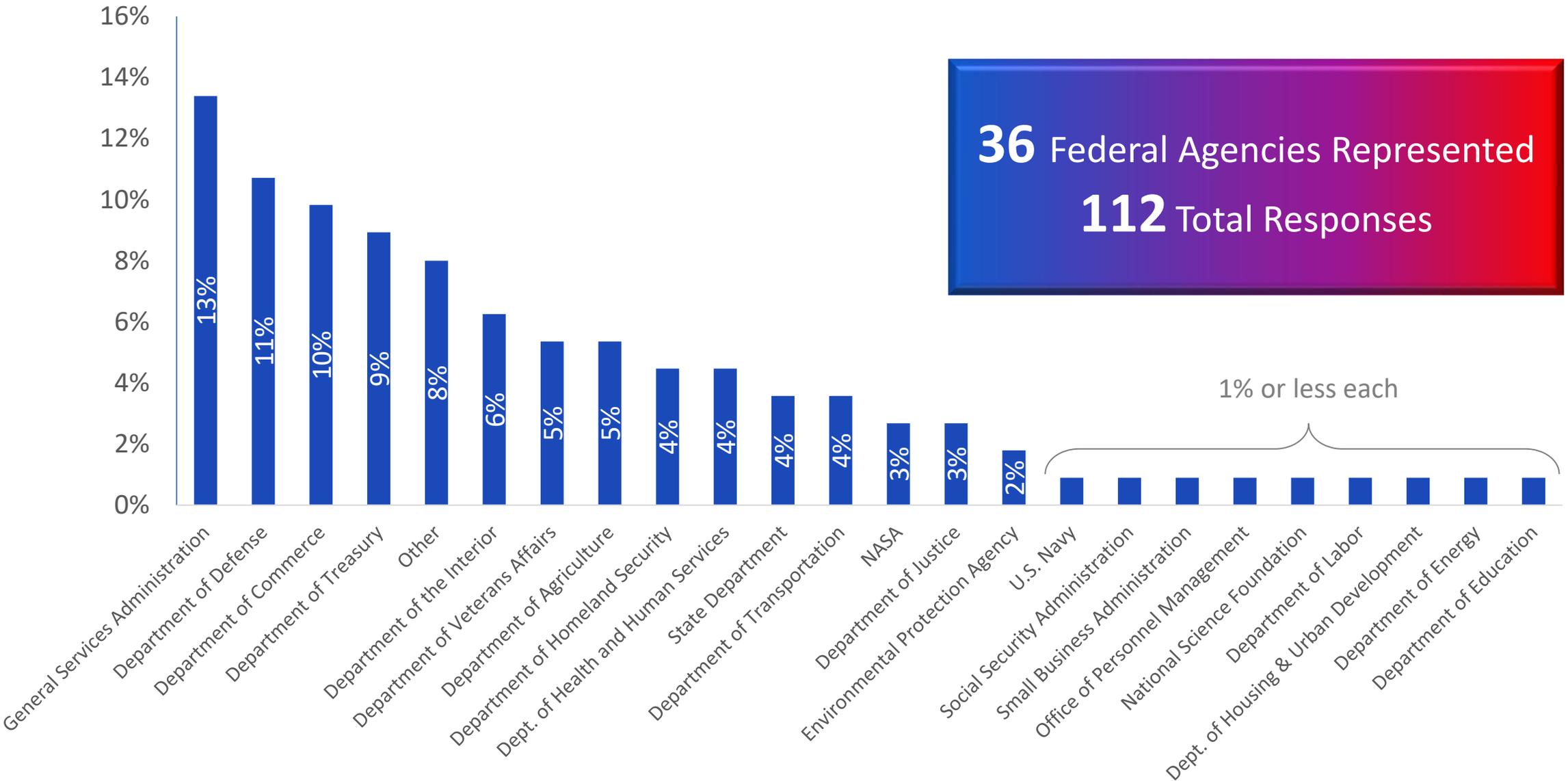
Rackspace Technology, a company of Multicloud solutions experts, take a technology-stack-centric view to their cloud adoption, migration, and optimization solutions.

Together, ATARC and Rackspace conducted a research study with the purpose to identify the current status, challenges, successes in the implementation and utilization of Multicloud services and solutions in the Federal space.

From April 5-23, 2021, a Cloud Infrastructure Survey was distributed to Information Technology leadership, cloud infrastructure practitioners, experts and evangelists in all major U.S. Federal Agencies for their views, perceptions and assessment on their Agency cloud implementation experience. All responses were anonymous.

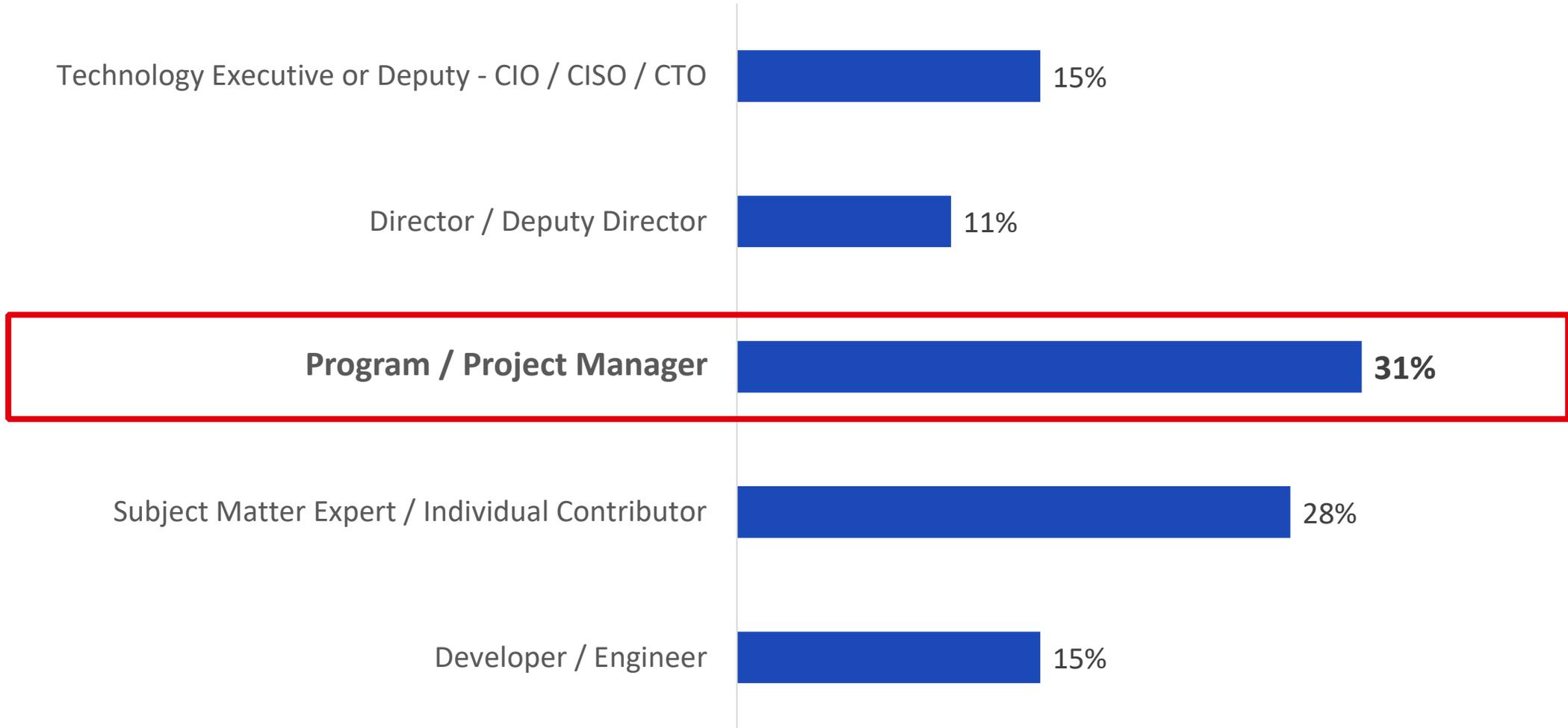
This report represents the summary and analysis of the survey responses.

# Respondent Profile: Most Represented Agencies



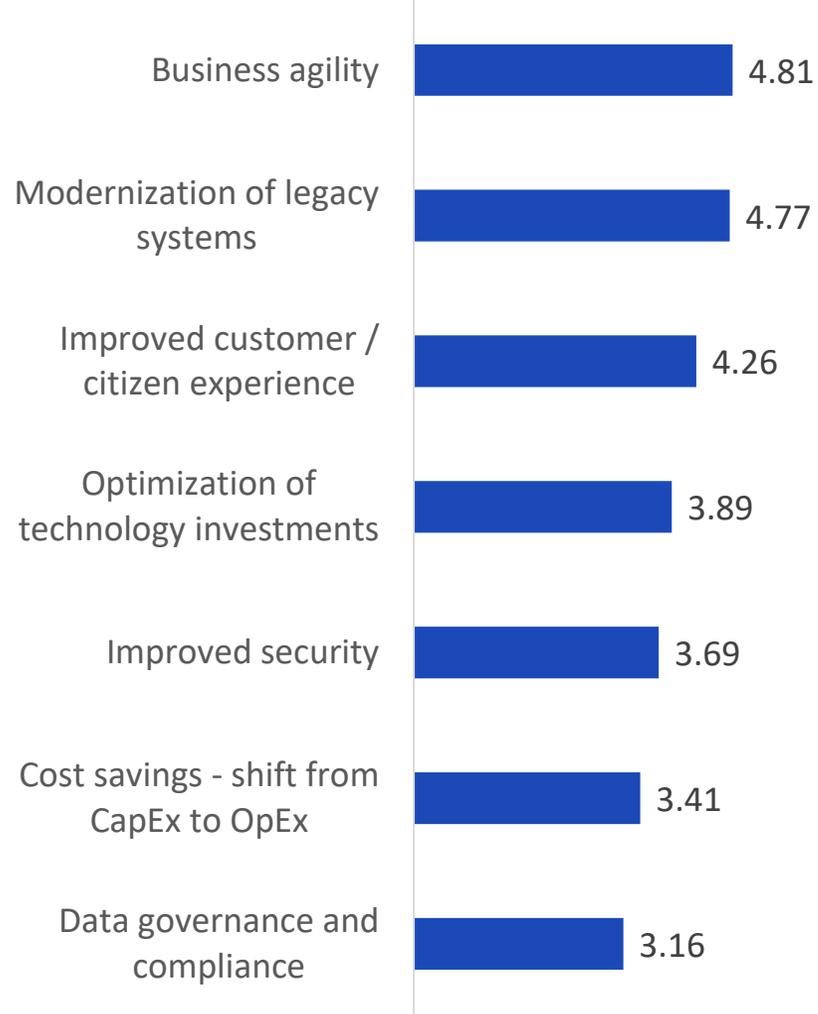
**36** Federal Agencies Represented  
**112** Total Responses

# Respondent Profile: Organizational Role

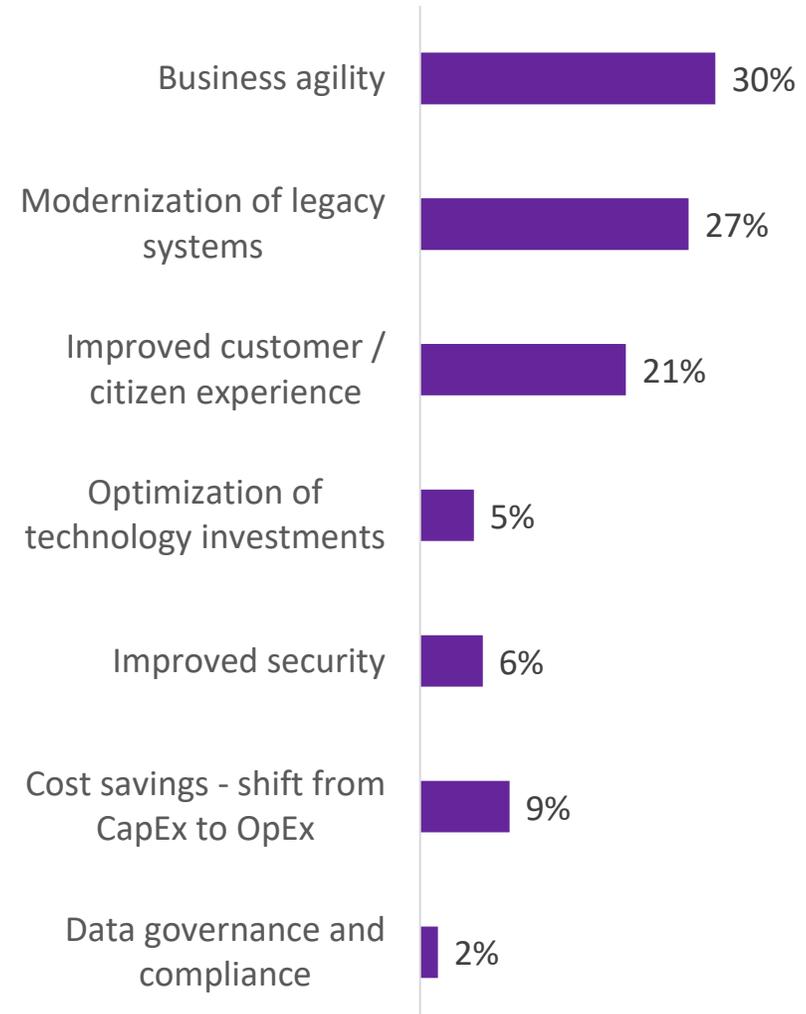


# Importance of Benefits Expected to Achieve from Cloud Adoption

**Expected benefits ranked from most important to least important**  
*(Mean of all responses)*

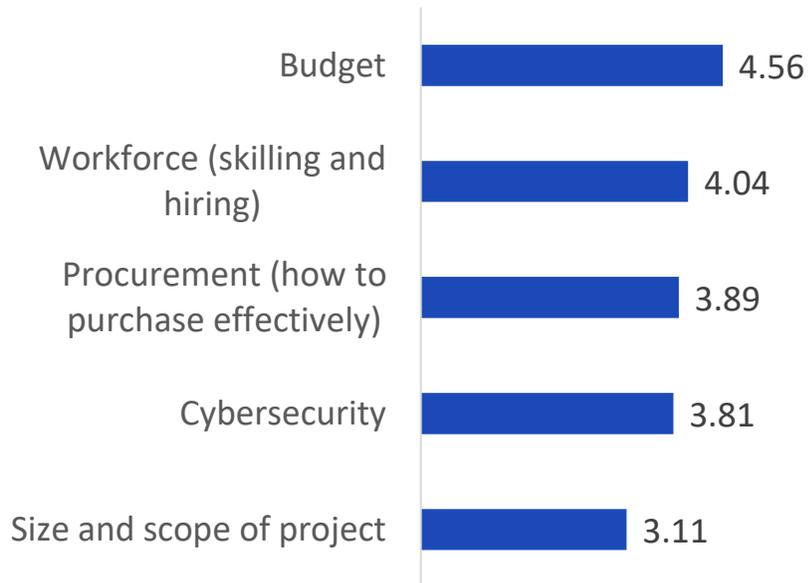


**Expected benefit ranked as Most Important**  
*(Percentage of responses in #1 ranking)*



# Main Barriers in Shifting From Do-It-Yourself (DIY) to Vendor-Provided Cloud Solutions

Barriers ranked from biggest to smallest  
(Mean of all responses)

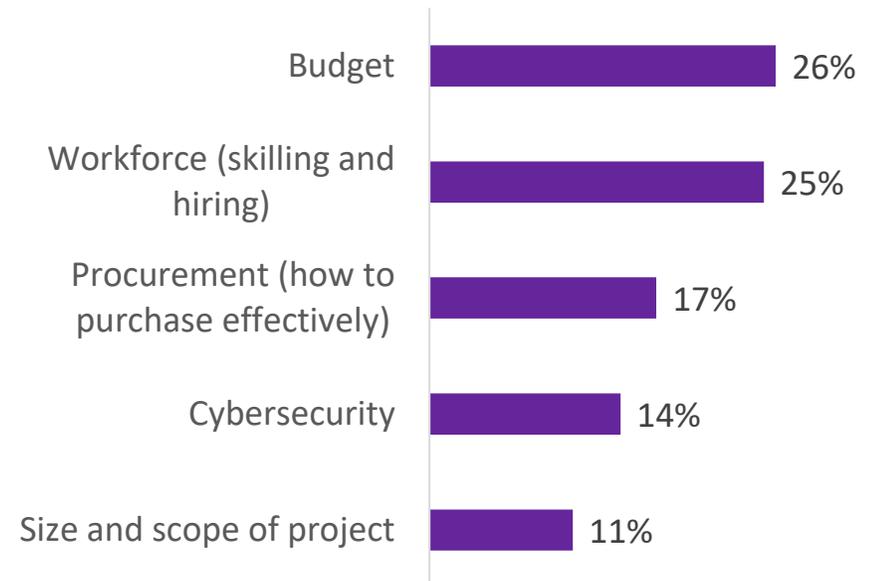


## Other Barriers Listed:

- Culture shift among peers and management
- FedRAMP and compliance related hurdles
- Integration with legacy systems
- Interdependencies with participating government and industry stakeholders' systems

**Budget** is reported as the biggest barrier in shifting to vendor provided cloud solutions, ranked as **#1 by 26%** of responders.

Barriers ranked as **Biggest Barrier**  
(Percentage of responses in #1 ranking)



# Responders Assess Their Agency's Progress in Cloud Smart Strategy

A promising **37%** of respondents report their Agency to be using **multiple cloud solutions** and vendors, while another **60%** have at least **started on a cloud strategy journey**.

**37%**

We are currently using multiple cloud solutions and vendors to help us optimize migration, security and compliance

**36%**

We have begun migrating some systems but are still working on how to optimize migration, security and compliance

**14%**

We are in the process of evaluating cloud migration paths and options

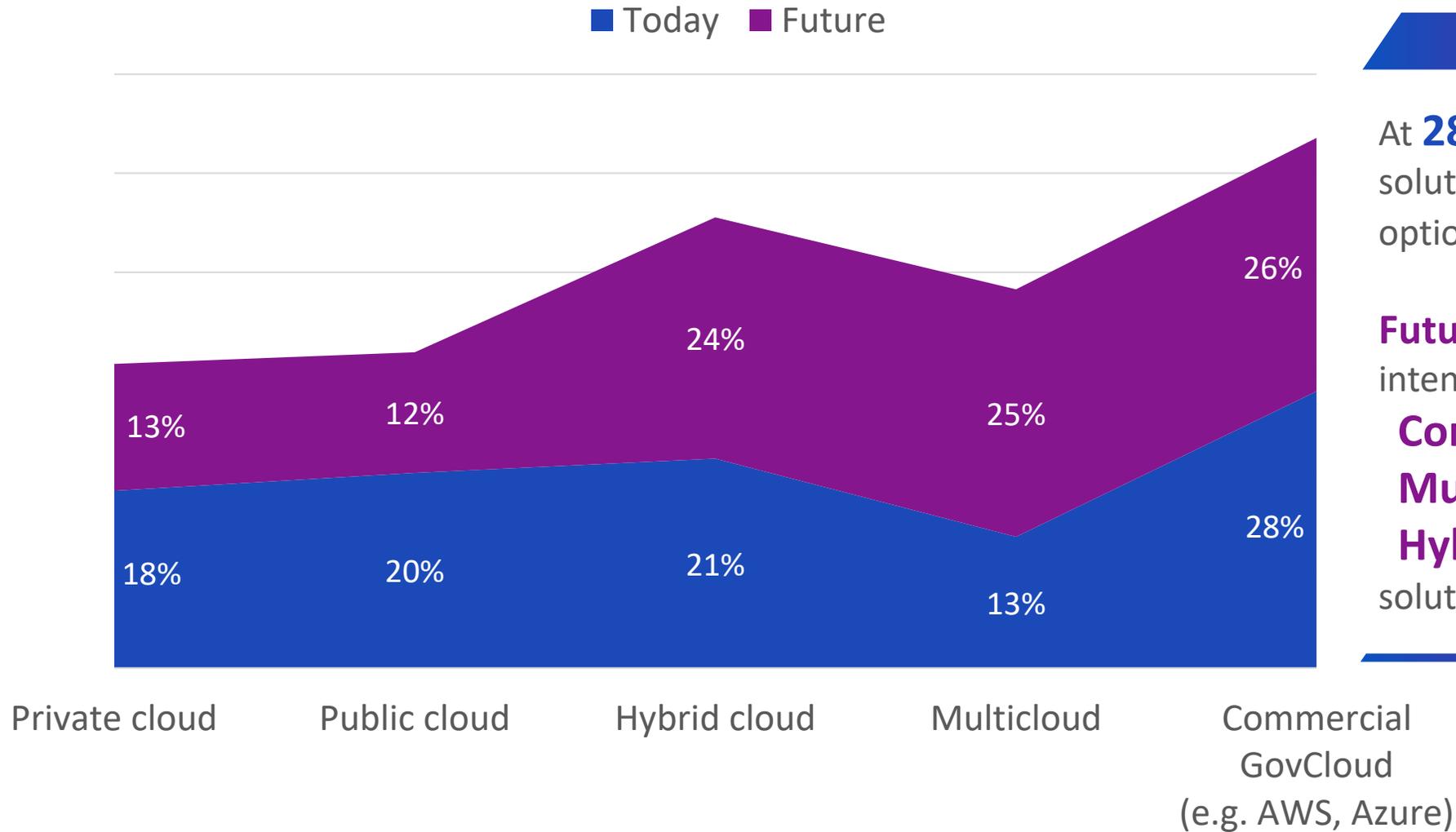
**10%**

We have created a comprehensive application rationalization plan and are executing the placement of our systems

**4%**

We haven't shifted our cloud strategy

# Today's Reality and Future Goals for Most Leveraged Cloud Options



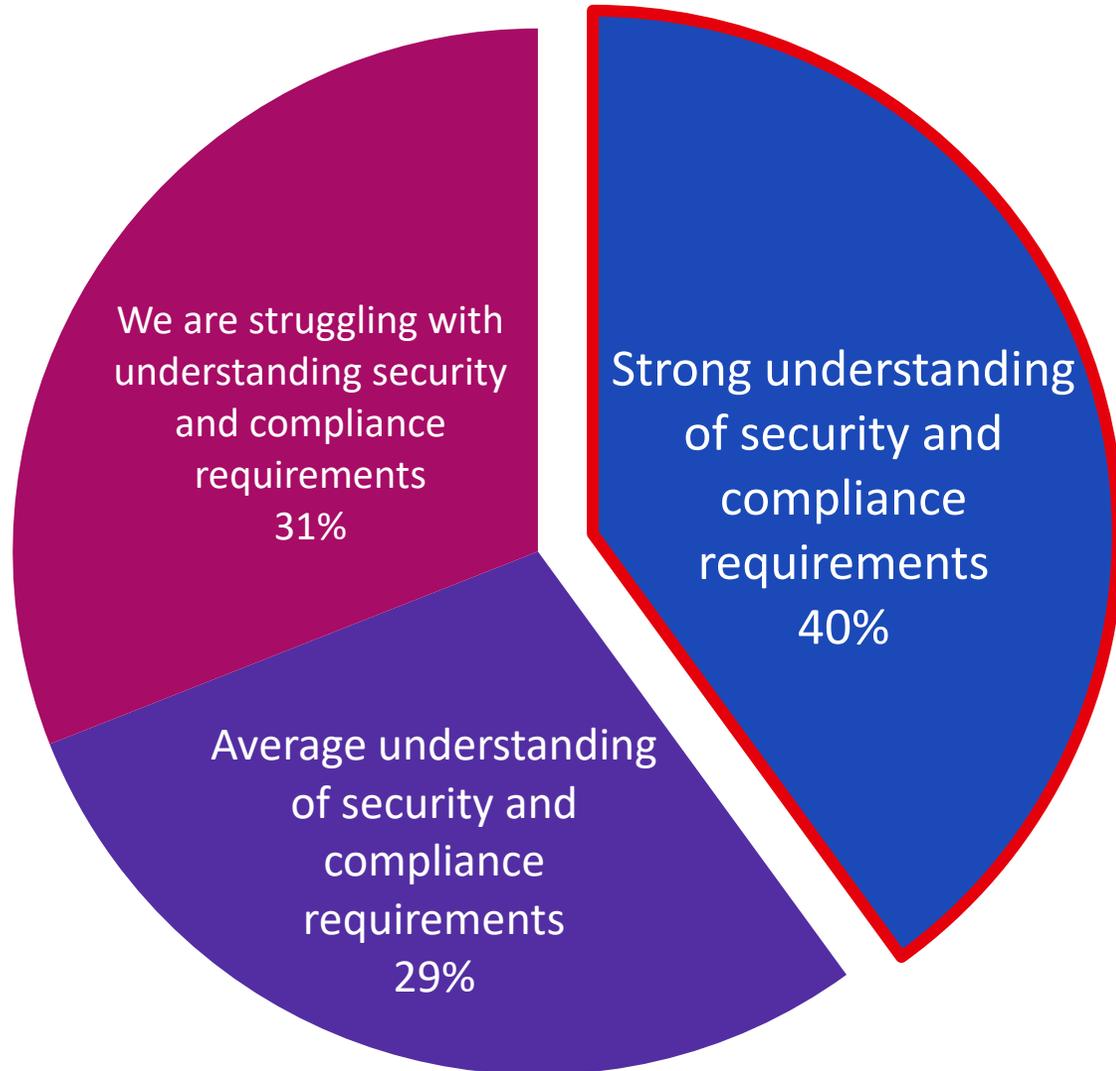
At **28%** - **Commercial GovCloud** solutions are the most leveraged cloud options within the Federal space **today**.

**Future** goals speak to a near equal intent to utilize

**Commercial GovCloud (26%)**  
**Multicloud (25%)**  
**Hybrid Cloud (24%)**

solutions.

# Rating of Agencies' Understanding of Security and Compliance Requirements

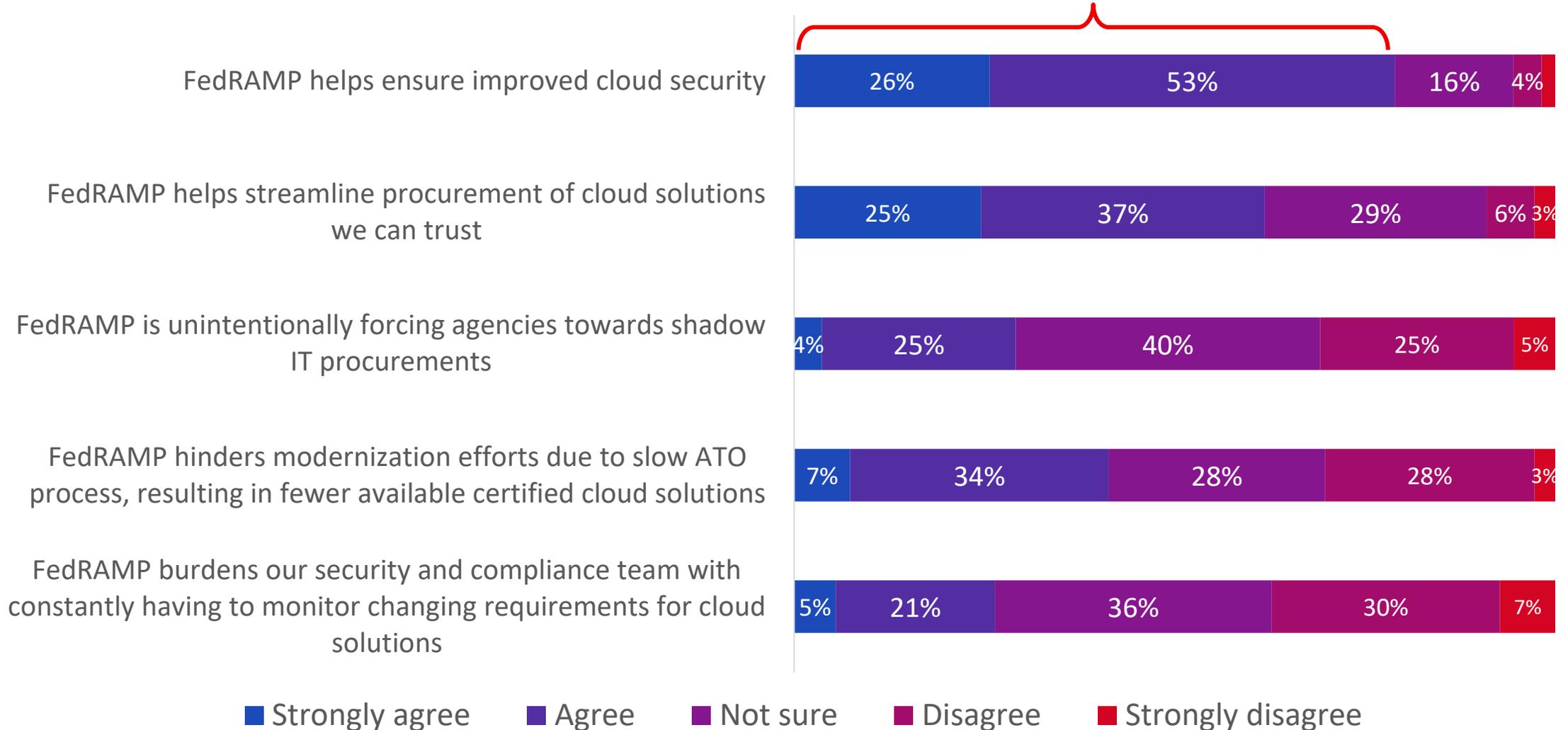


**40%** of responders give a **STRONG** rating to their Agency's understanding of the annual security and compliance requirements for cloud solutions whether they are procured or developed in house.

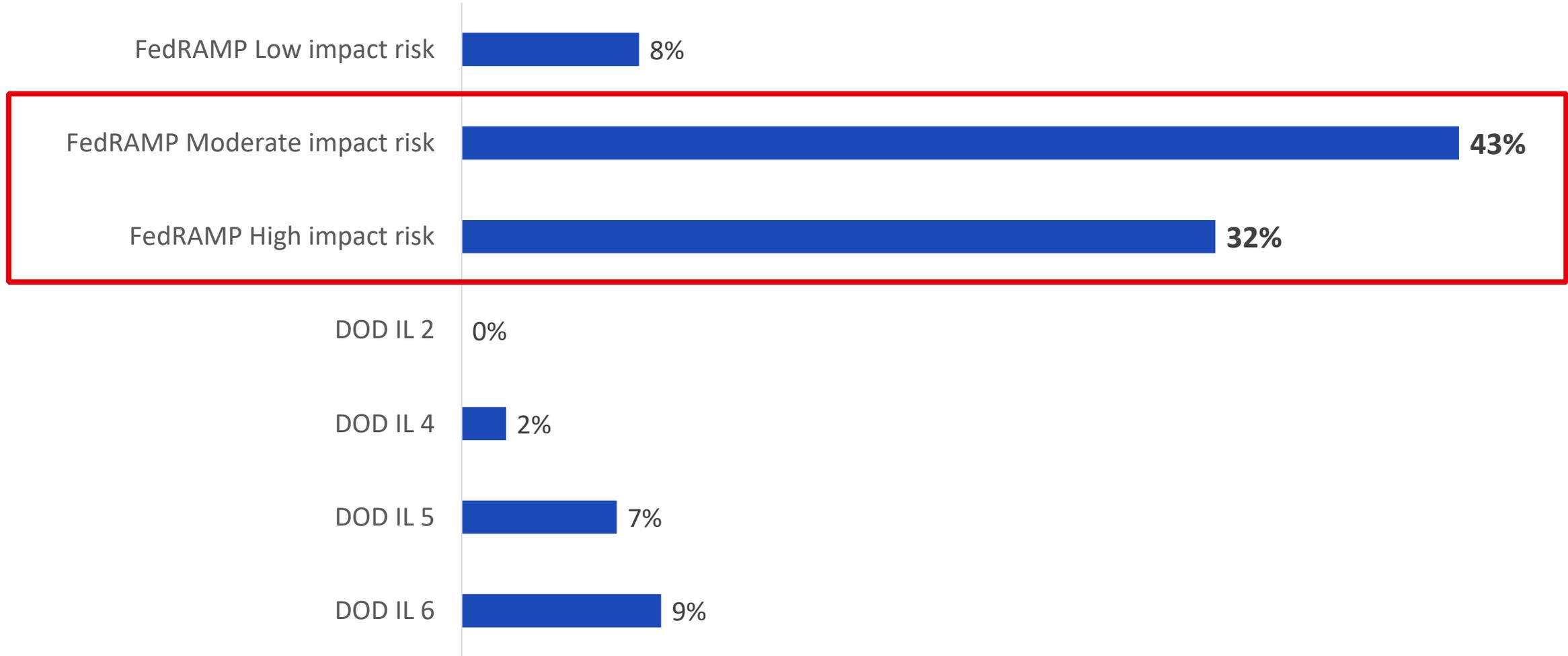
Meanwhile, **31%** of responders report their Agency **STRUGGLES** with understanding the same.

# Responders' Views on FedRAMP Requirements

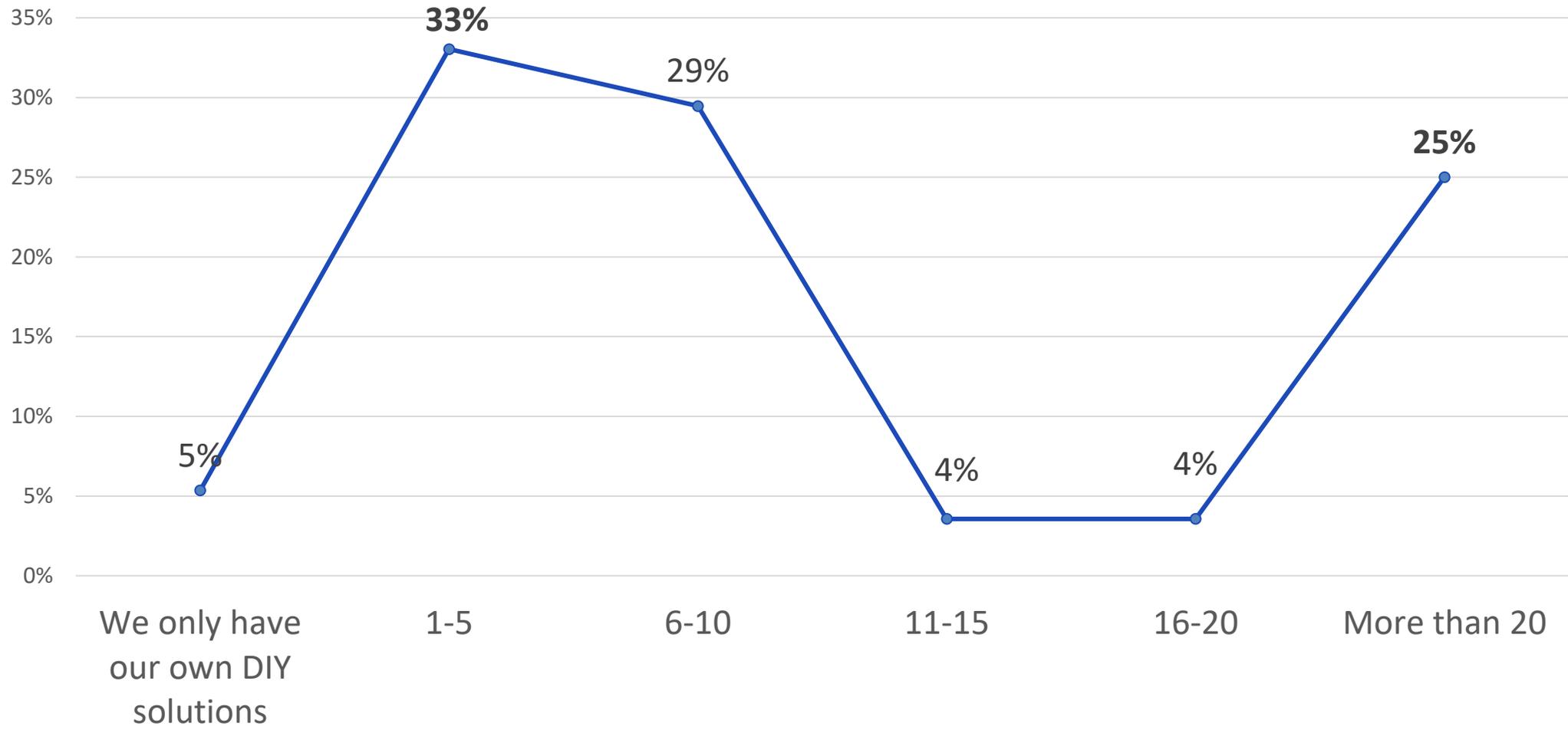
**79%** agree or strongly agree that FedRAMP helps ensure improved cloud security



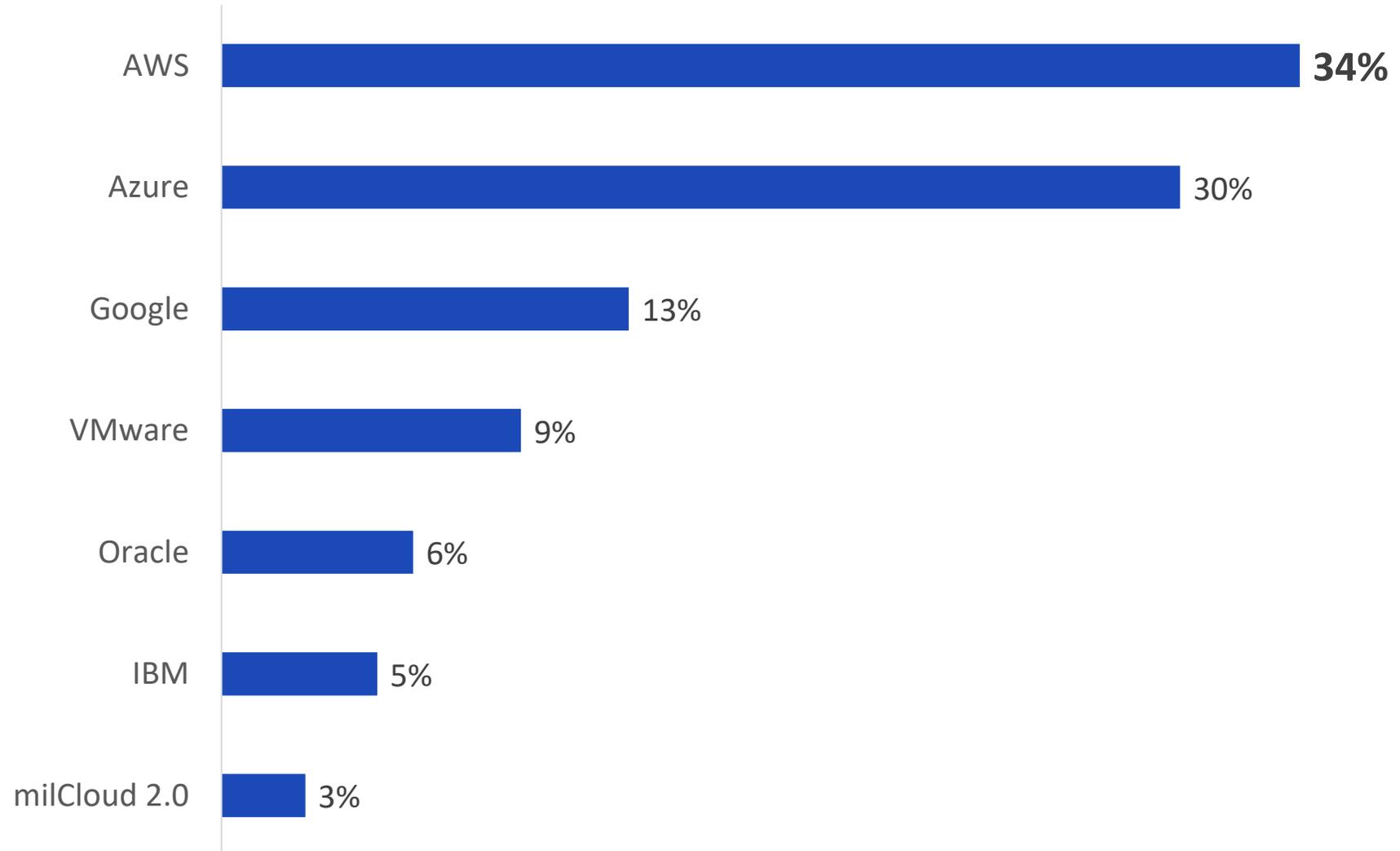
# Highest Level of FedRAMP or DOD Impact Level to be Used by Agencies



# Number of Different Cloud PaaS and SaaS Solutions In Use at an Agency



# Vendor Cloud Solutions Currently Deployed



# Final Considerations

**In summary, the survey response analysis has led to the following conclusions:**

We continue to see an increase in percentage of agencies who are embracing Multicloud and are actively on their modernization journey.

With the recent cybersecurity attacks like Solar Winds and with the response indicating security lower on the cloud modernization benefits list, there is an opportunity for greater understanding of the role of security in cloud modernization.

Predictably, the confidence levels in FedRAMP's ability to help ensure cloud security and streamline procurement show to be quite strong. However, there is certainly room for collaboration and alignment between the Government and industry to improve on the FedRAMP ATO process and avoid the un-intended pressure on Agencies to look for alternative or shadow IT procurement.

Cloud modernization is a critical part in Government Agencies lowering their cyber risks, and maximizing the potential in leveraging other emerging technology applications (e.g. AI / ML). This presents a great opportunity for true stigma-free Government-industry partnership to:

- Work towards a mindset shift that Agencies cannot and should not try to do everything in house
- Address workforce skillset enhancement with a mission impact focus
- Collaboration between vendor community and FedRAMP on acceleration programs

# Thank You!



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