Goals for this mentimeter session:

- Get an updated overview about who is doing what
- Understand how much we already know about each other
- Get your inputs on what topics we could work upon together
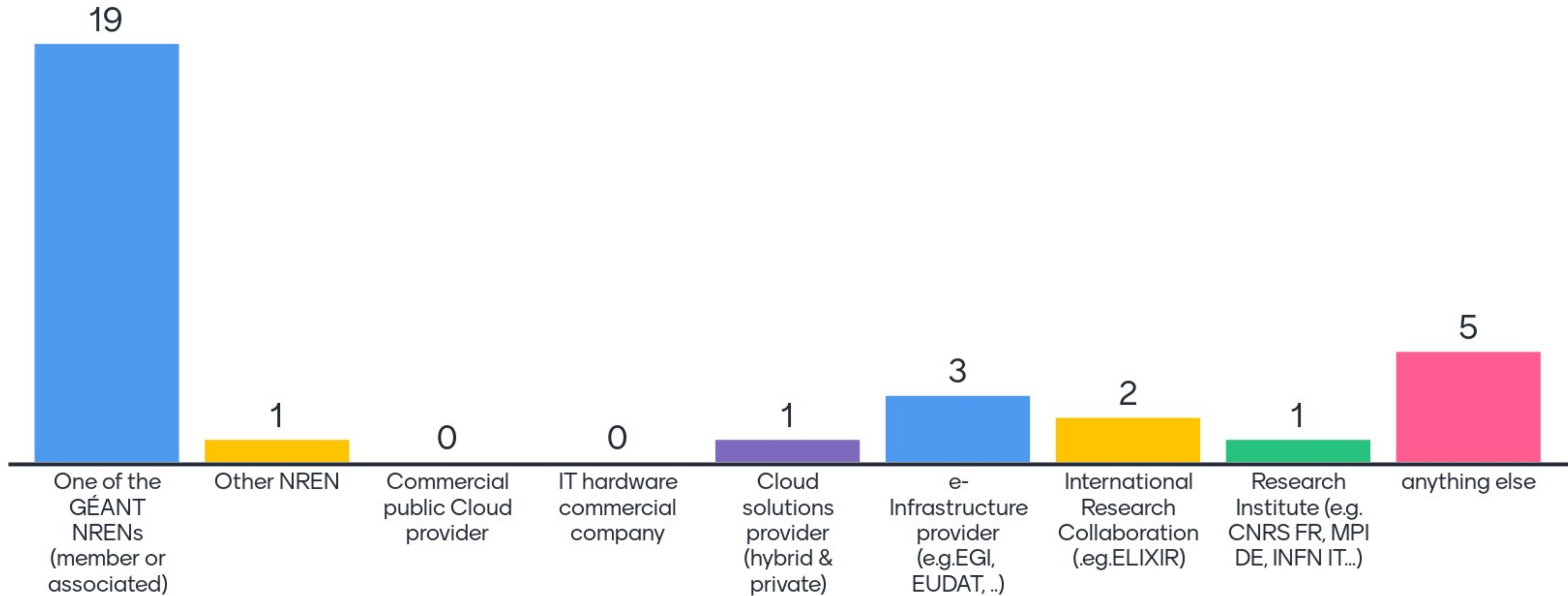- Understand what shape should collaboration be taking

3

Part 1 : About my affiliation

Affiliation of the person answering this mentimeter
(2 slides/questions)

1) What kind of organisation are you working for?

2) Please provide here the name of the NREN , company or other organisation you are working in (your current affiliation home institution)

BELNET	CSC - IT Center for Science Ltd	GARR
GARR	Scaleout Systems AB.	GEANT
SURF	AARNet	Belnet

25

2) Please provide here the name of the NREN , company or other organisation you are working in (your current affiliation home institution)

DFN	ACOnet	University of Vienna - Computer Center
Sikt	GARR	GÉANT
SWITCH	HPC2N	Csc

2) Please provide here the name of the NREN , company or other organisation you are working in (your current affiliation home institution)

GÉANT

|		
Aalborg University	University of Basel	GRNET
University of Oslo, might sort under UNINETT?	University of Vienna, Austria	CESNET
CESNET (computing part)		

25

Part 2: About my NREN (or my organisation)

How is my NREN (or my organisation) organised for the Cloud, and what do we in my NREN do in the Cloud (8 slides/questions)
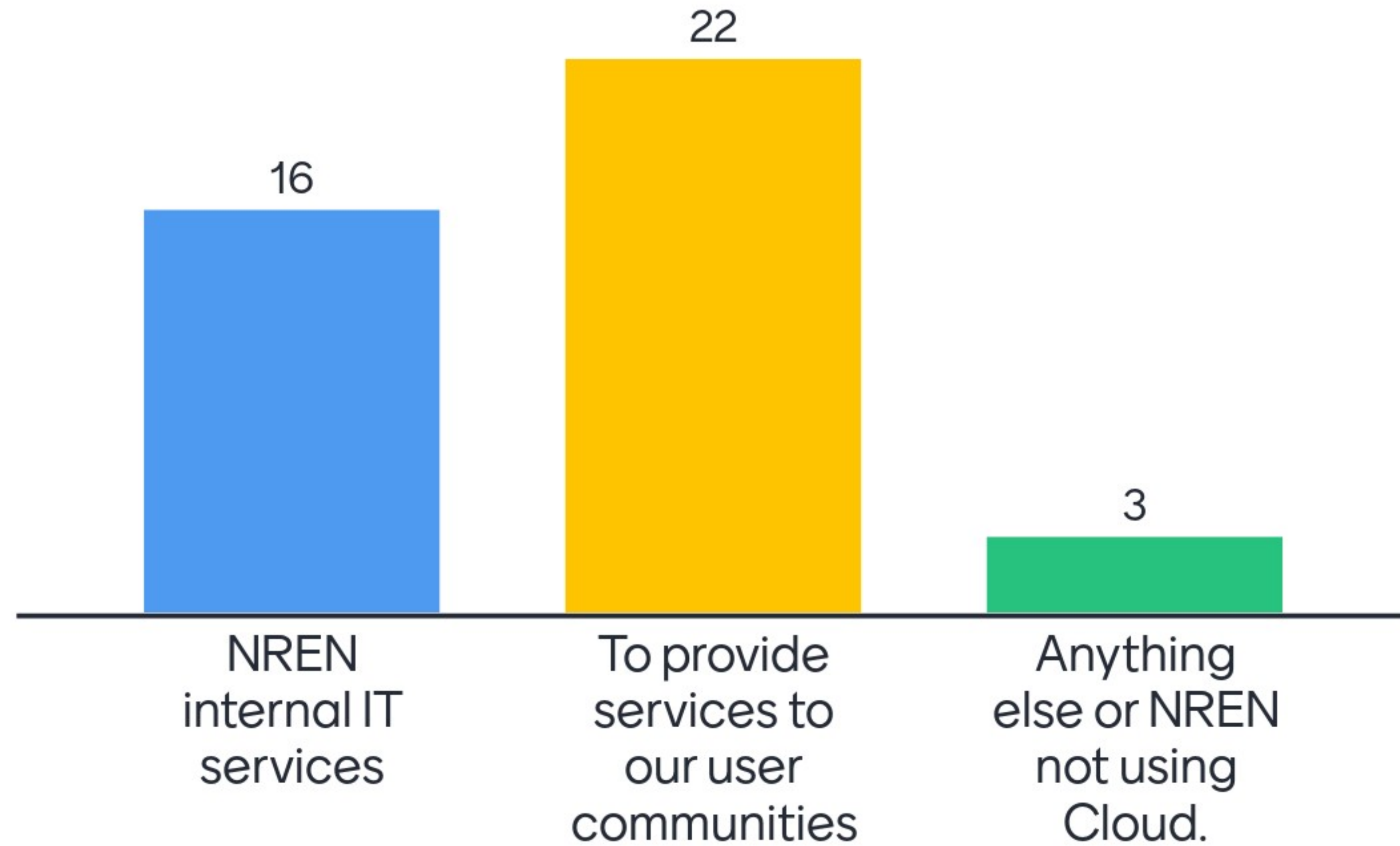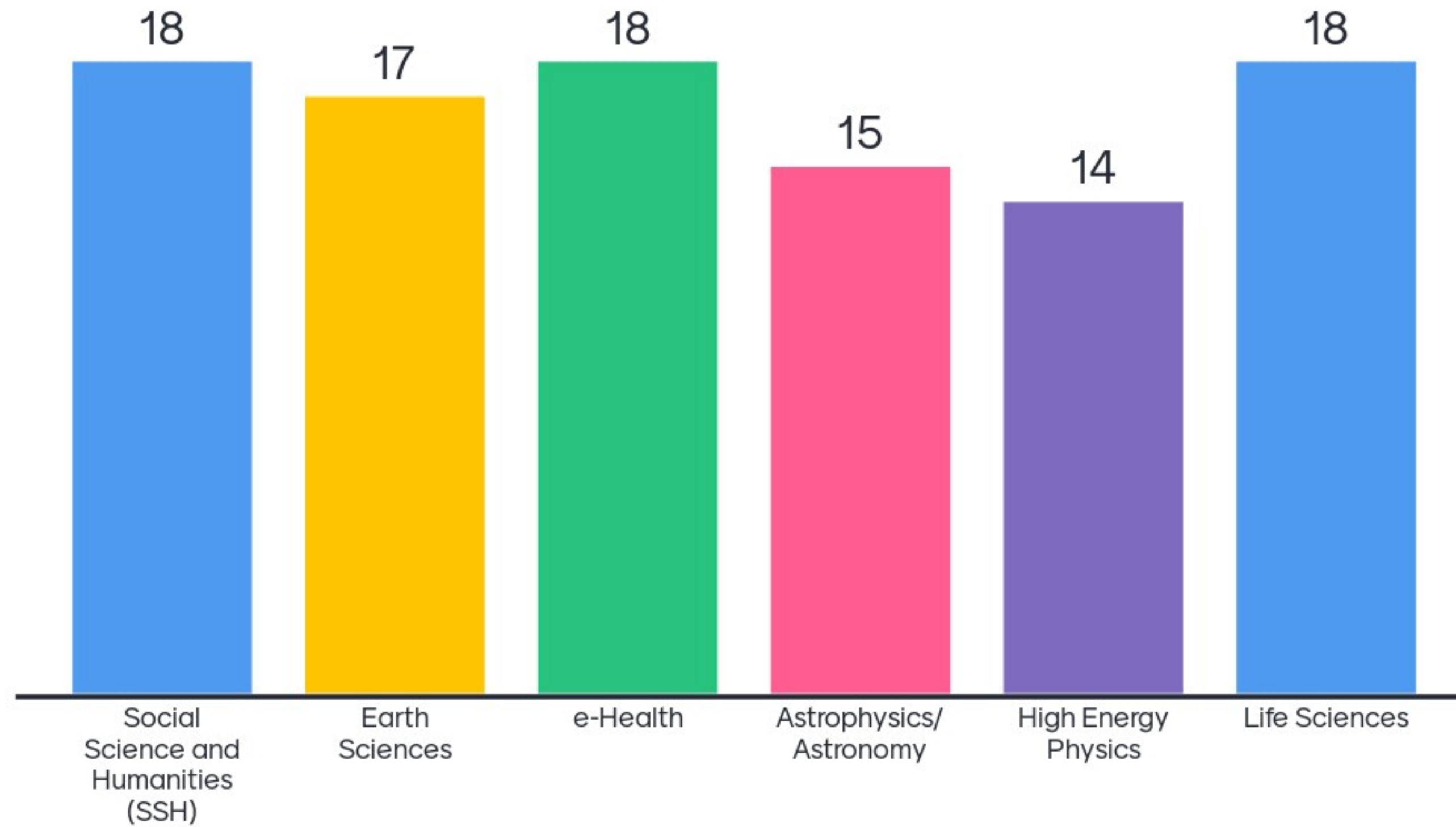
3) If you work for a NREN: does your NREN have a well established Cloud department already?
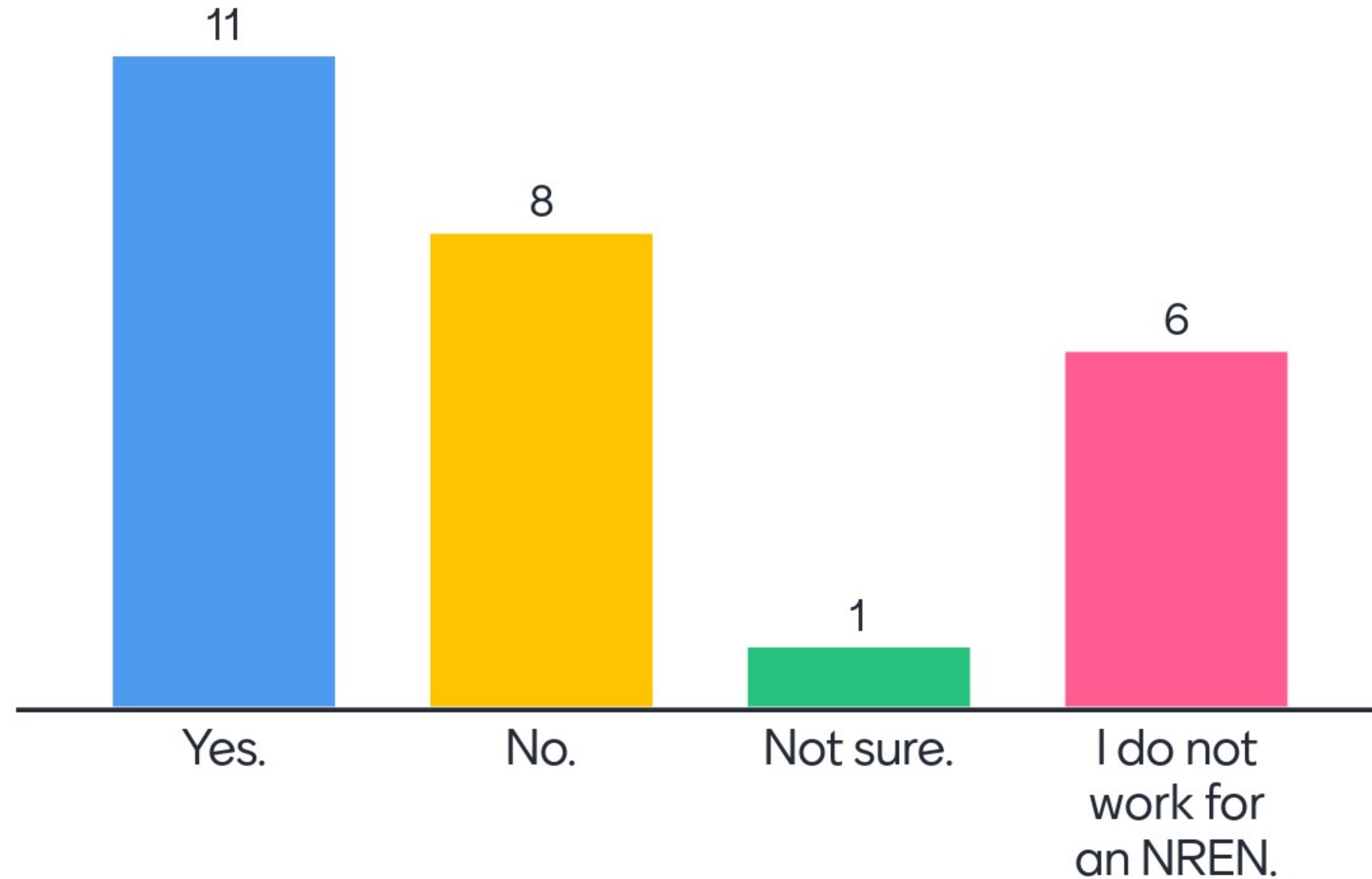
4) What do you use the Cloud for ? [multiple choices allowed]

5) Do you (or do you plan to) provide services to the following user communities ? [multiple choices; use next slide to specify other open answers]

Social Science and Humanities (SSH)	Earth Sciences	e-Health	Astrophysics/ Astronomy	High Energy Physics	Life Sciences
18	17	18	15	14	18

20

6) If you're dealing with the support to user communities not mentioned in the previous slide, please mention them here [multiple answers allowed]

The cloud services are used by most fields of research in Finland

Education

supply IaaS framework agreements to institutions

Education.

Galleries, Museums, Libraries, Archives ("GLAM")

Education

Researchers and students

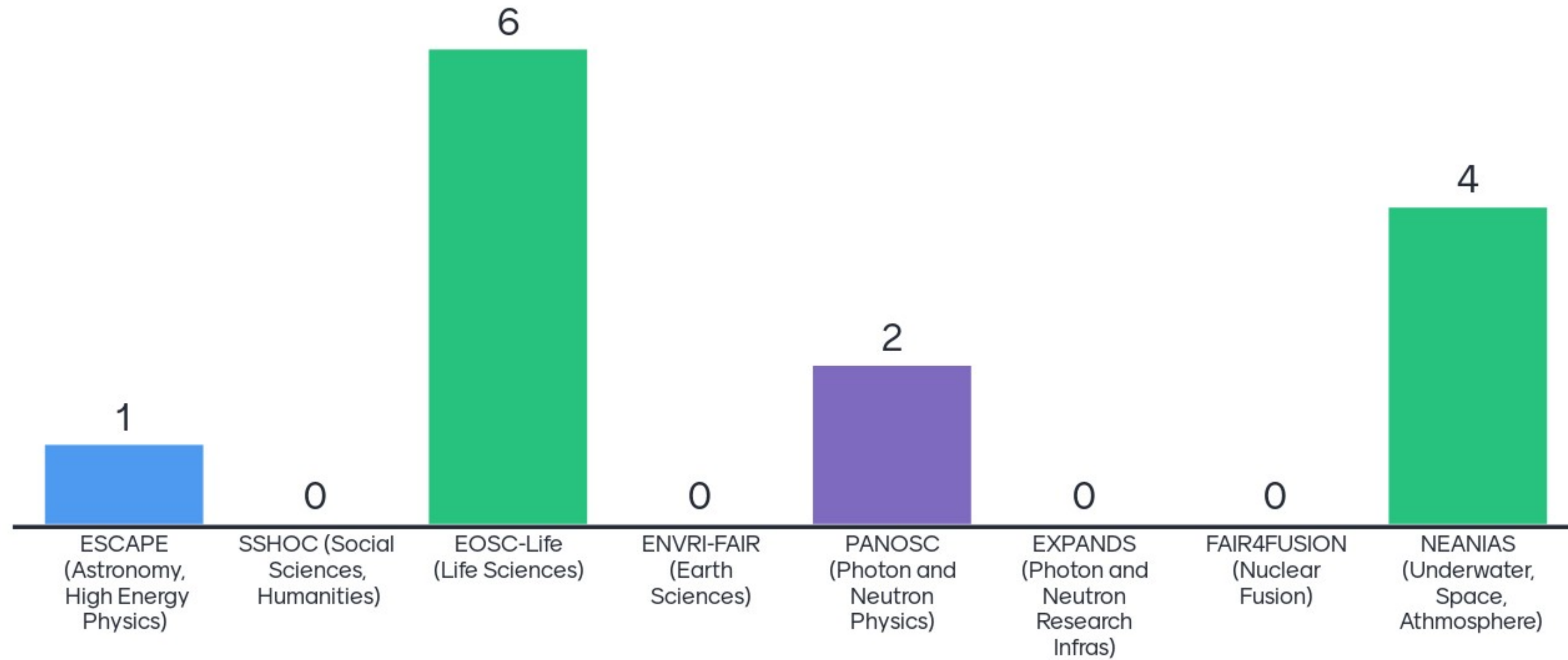Also providing services to professors for University courses

Researchers and Students

6) If you're dealing with the support to user communities not mentioned in the previous slide, please mention them here [multiple answers allowed]

Organizations have a need for MLOps and Analytics.

IT departments/institutional service support departments

7) Is your NREN involved in supporting (as member or indirectly) one or more of these thematic EOSC Clusters? [slide 27 (optional) to add answers]

1	0	6	0	2	0	0	4
ESCAPE (Astronomy, High Energy Physics)	SSHOC (Social Sciences, Humanities)	EOSC-Life (Life Sciences)	ENVRI-FAIR (Earth Sciences)	PANOSC (Photon and Neutron Physics)	EXPANDS (Photon and Neutron Research Infras)	FAIR4FUSION (Nuclear Fusion)	NEANIAS (Underwater, Space, Athmosphere)

8) Is your NREN (or organisation) directly involved in one of these regional/infra EOSC clusters/projects? [multiple choice, slide 27 to add answers]
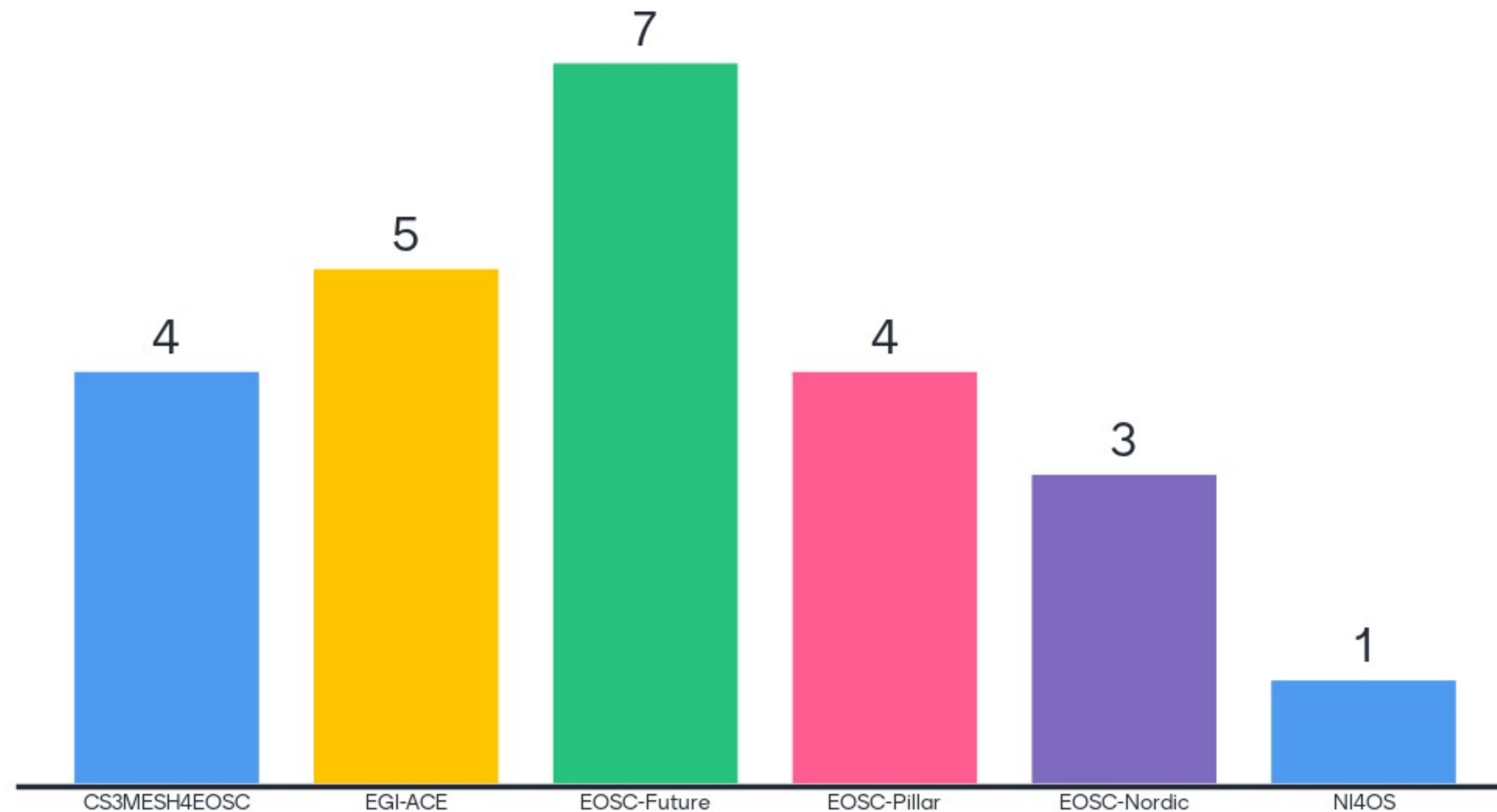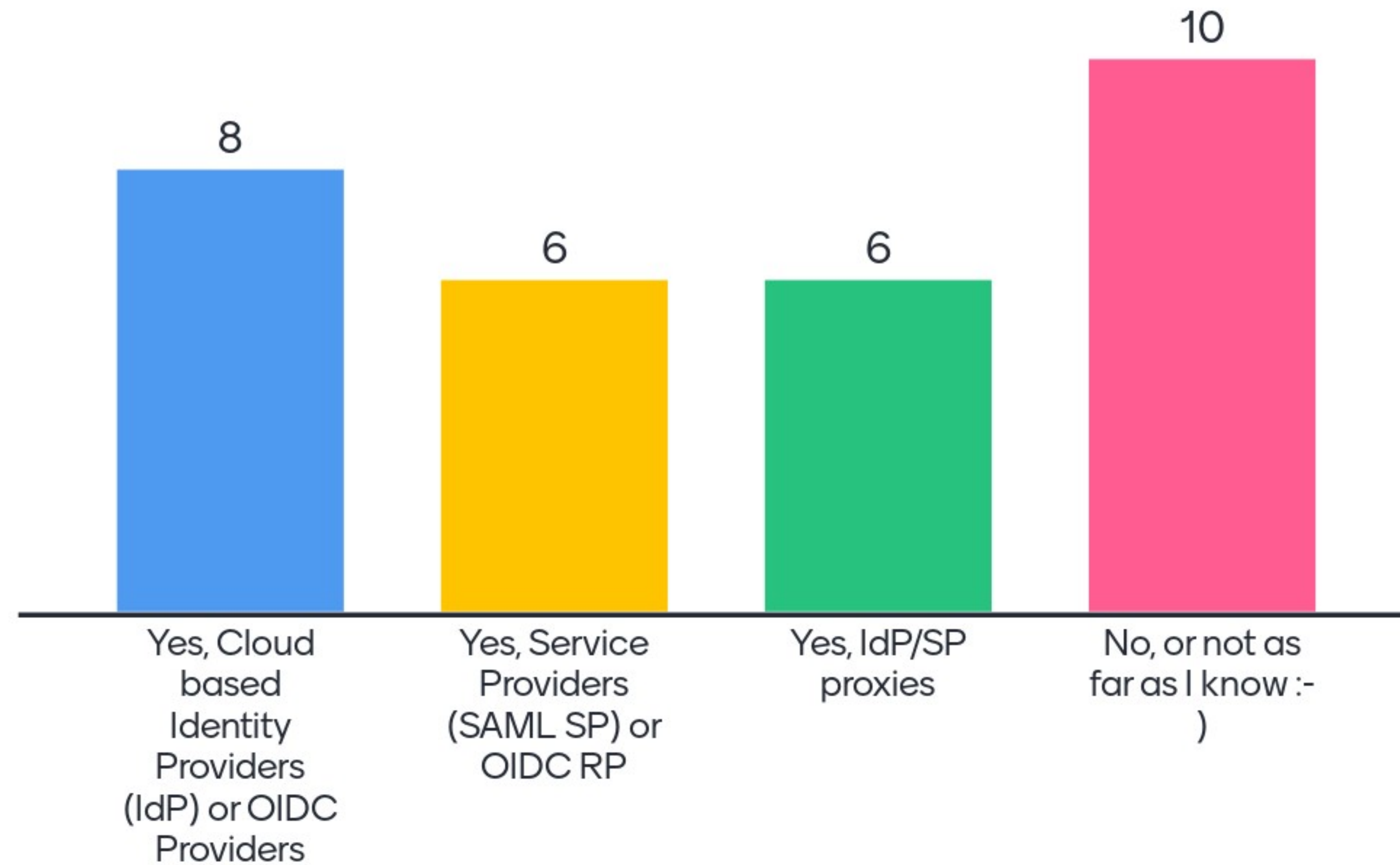
9) Is your NREN providing Cloud services to the GÉANT Community across national borders ?
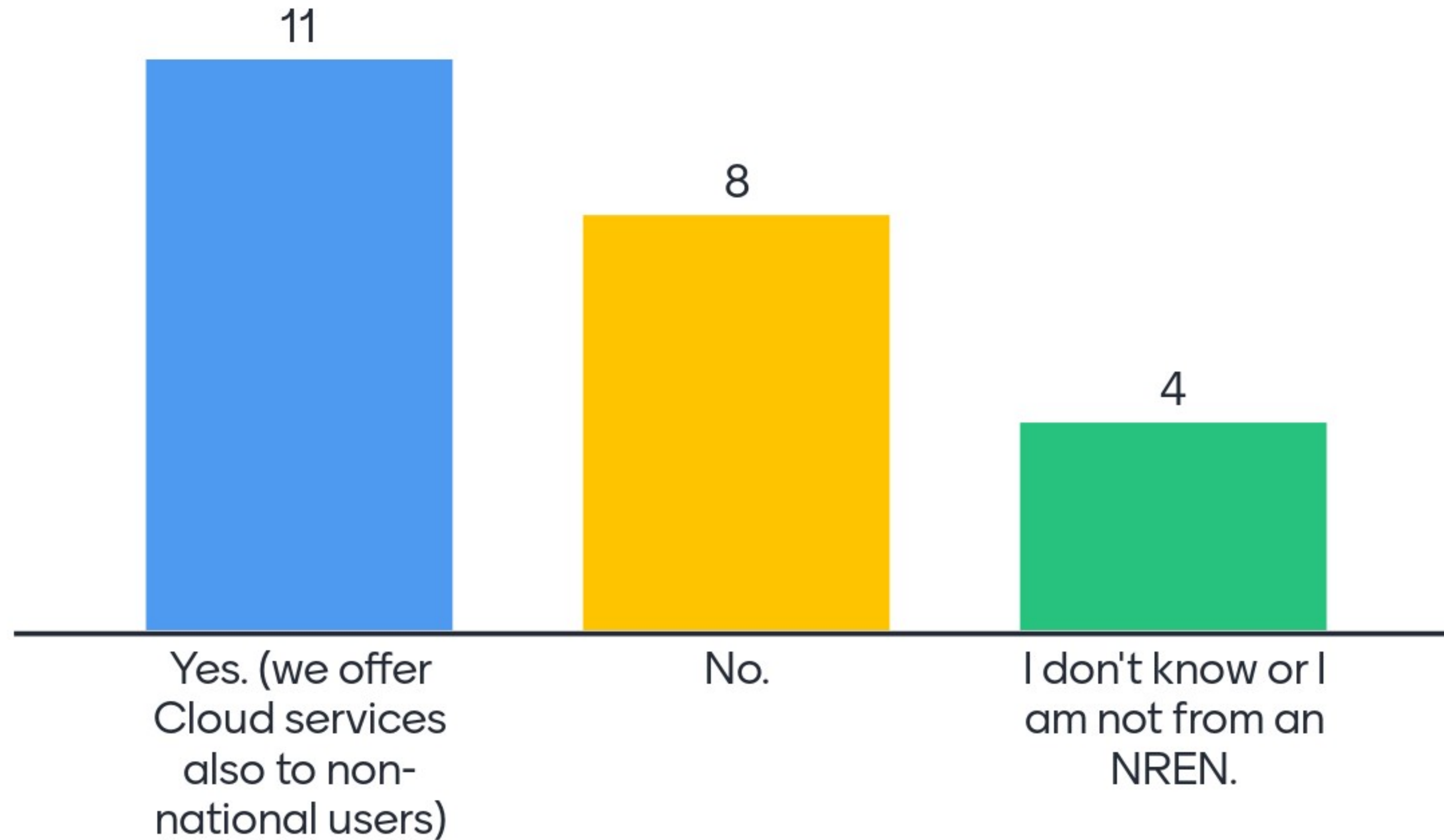
10) Is your NREN providing (or planning to provide) Cloud-based AAI components to users, member institutions, specific projects or research collab.)

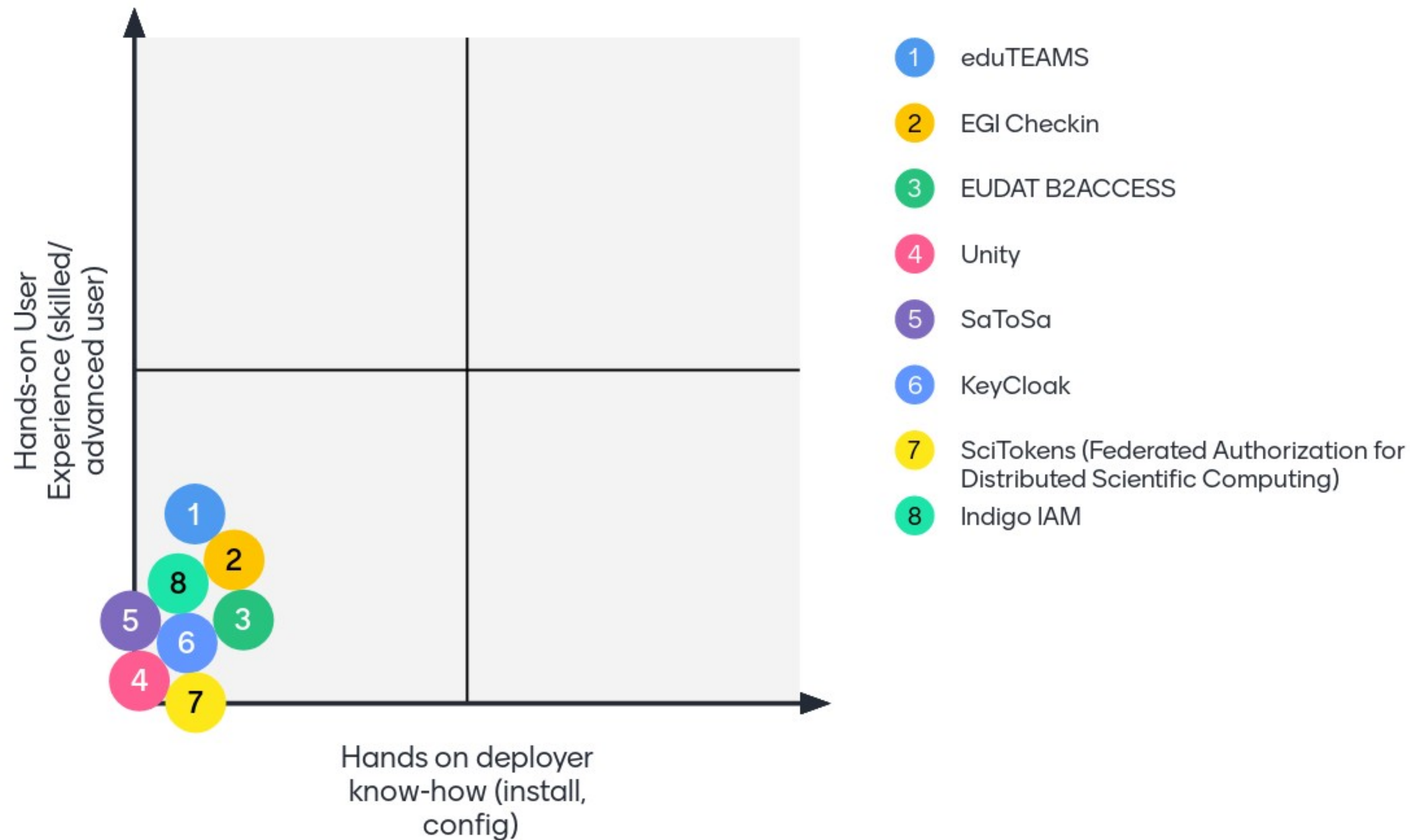| Yes, Cloud based Identity Providers (IdP) or OIDC Providers	Yes, Service Providers (SAML SP) or OIDC RP	Yes, IdP/SP proxies	No, or not as far as I know :-)
8	6	6	10

Part 3: about technologies and common work

Getting information about the technologies of interest and ideas for common activities within the SIG
(12 slides/questions)

11)Which of the following AAI platforms you consider relevant to your plans for the Cloud to integrate Services and Identity Providers (Users) ?
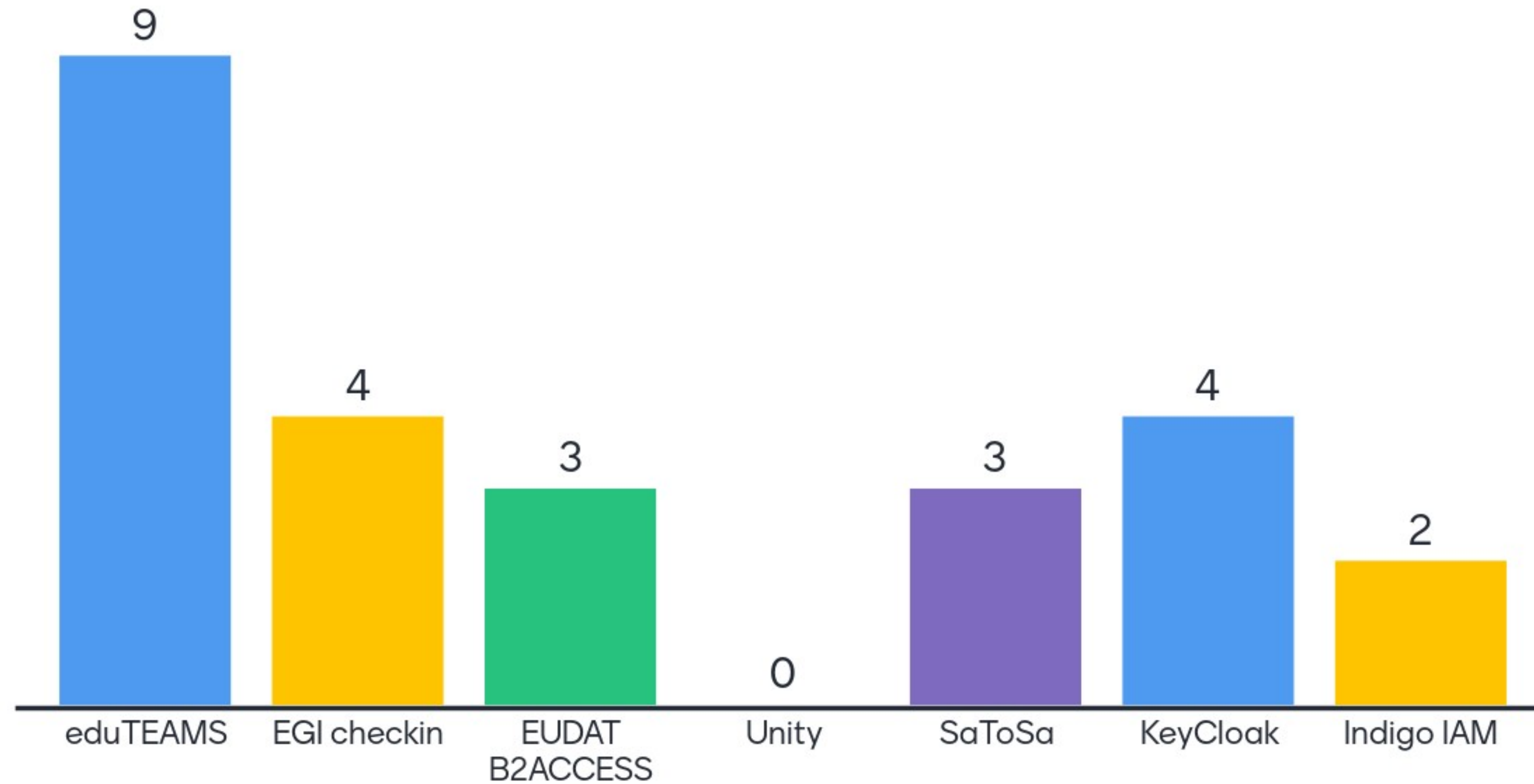
12) Rate (1-10) your direct experience as deployer (when it applies) and as user on specific AAI solutions (for AuthN, AuthZ or both)

1. eduTEAMS
2. EGI Checkin
3. EUDAT B2ACCESS
4. Unity
5. SaToSa
6. KeyCloak
7. SciTokens (Federated Authorization for Distributed Scientific Computing)
8. Indigo IAM

13)Which of the following Cloud platforms is or will be relevant for the provisioning of your NREN cloud services?

Platform	Value
OpenStack	20
OpenNebula	0
Apache CloudStack	0
Eucalyptus	1
Tsuru	0
Cloud Foundry	0
OpenShift	7
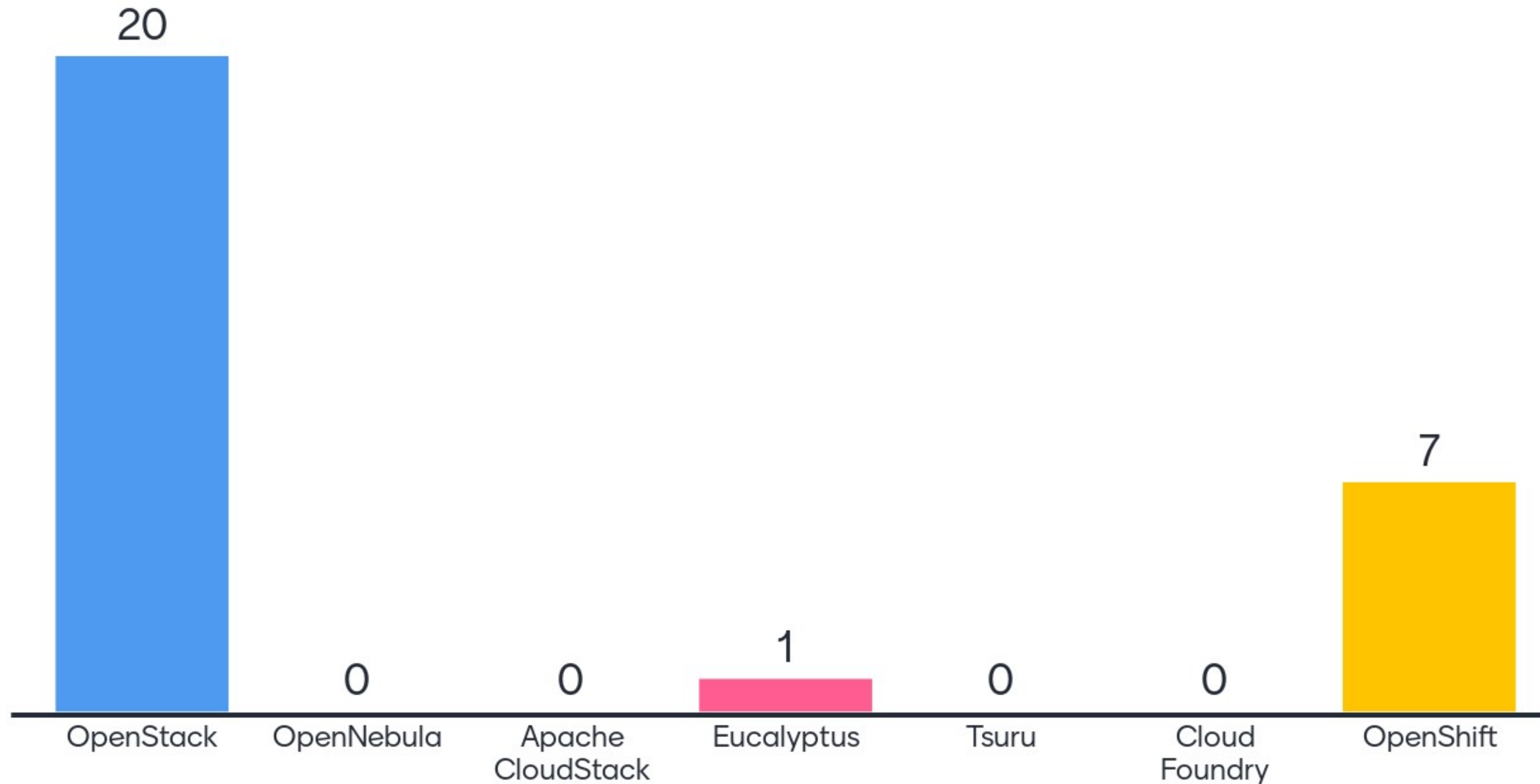
14) Rate (1-10) your direct experience as deployer (only if and where it applies) and as user/tester of specific Platforms/Tools

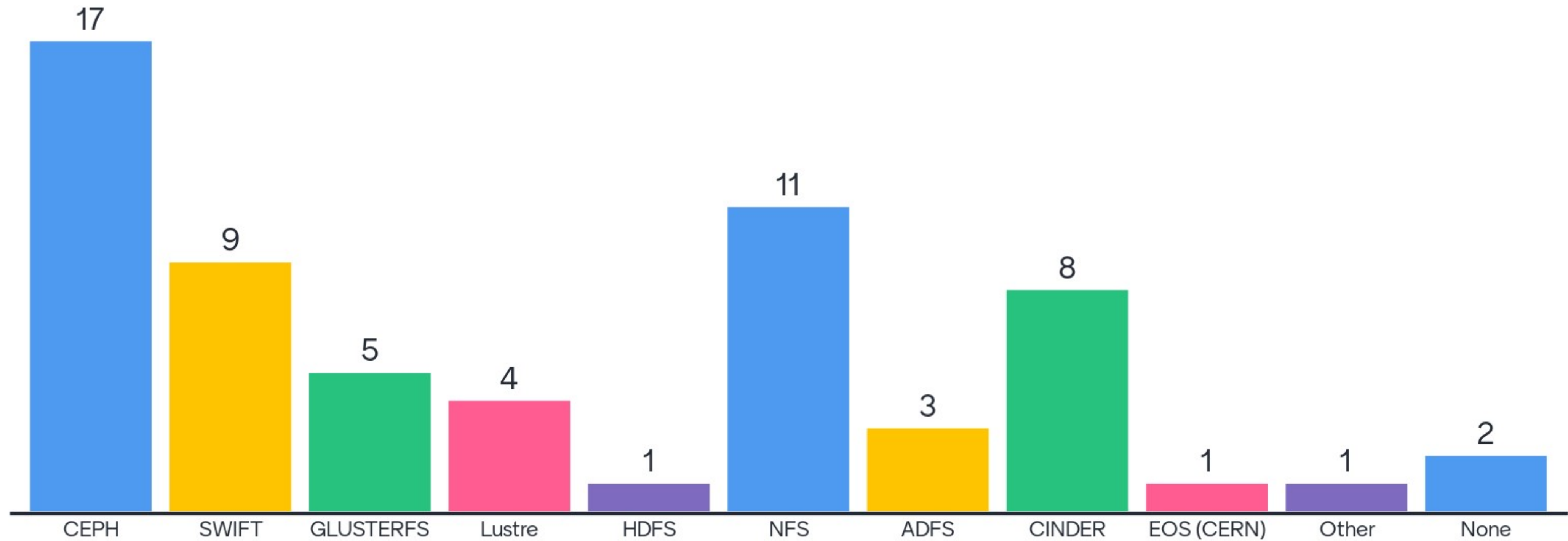Axis labels: Hands-on User Experience (skilled/advanced user) / hands-on deploy or develop experience

Legend:
1. OpenStack
2. Juju - MaaS
3. OpenNebula
4. GÉANT Cloud Flow
5. VMware Cloud Foundation
6. Apache CloudStack
7. Ansible
8. Puppet
9. Jenkins
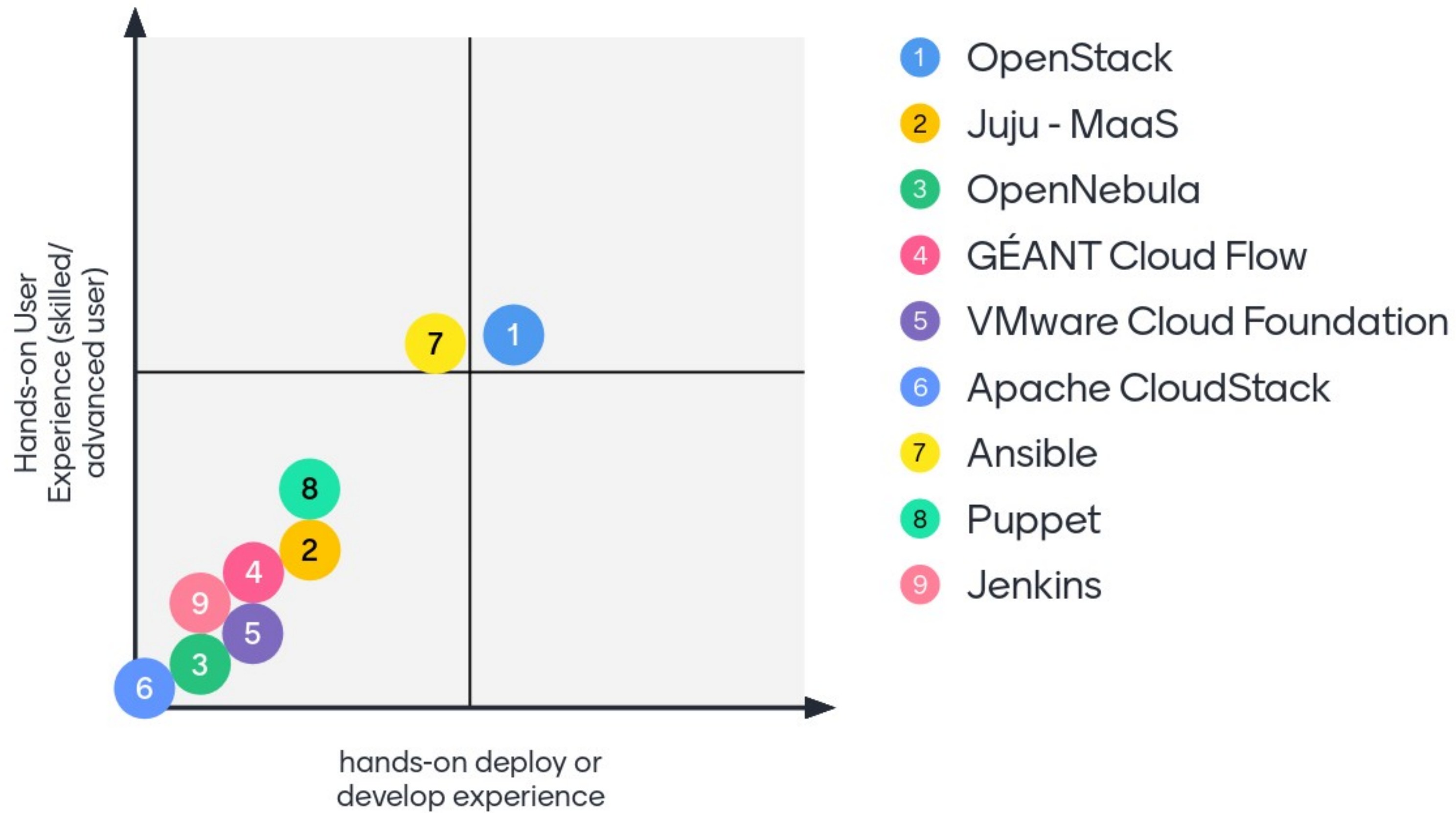
15) Which container platform is of relevance for your NREN Cloud services (already adopted or planning to adopt it)

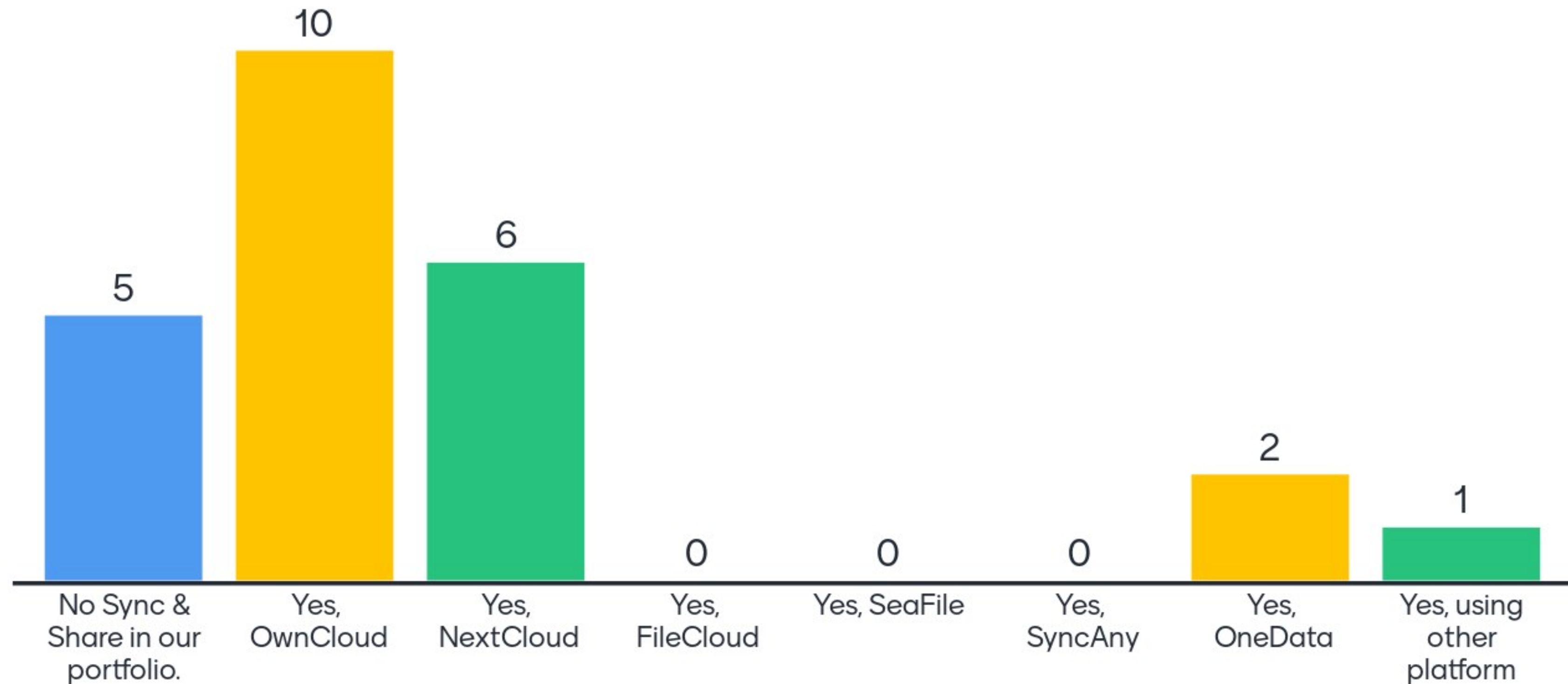| Platform	Count
Kubernetes	18
Docker	16
LXC/LXD	7
OpenShift	5
VMware Tanzu Community Edition	0
Amazon Elastic Container Service (ECS)	2
GKE (Google Kubernetes Engine)	1
RKT Rocket	0
Other	3
None	0
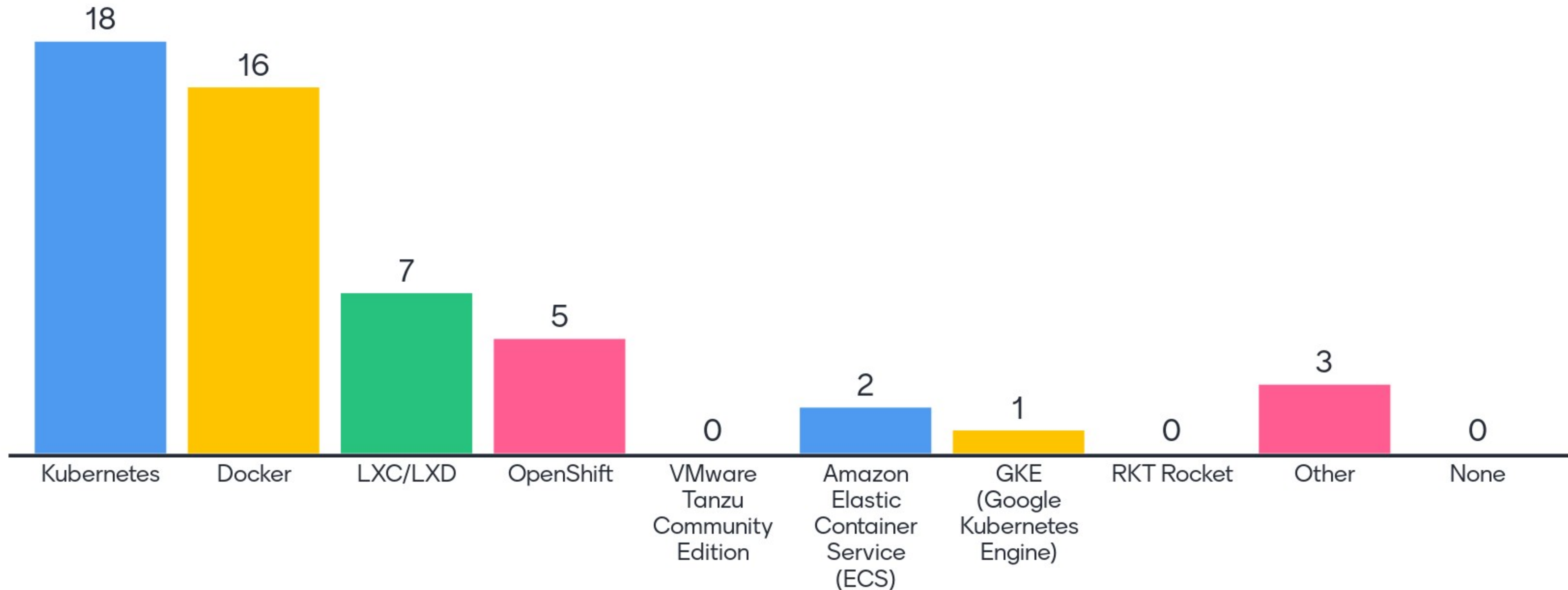
16) Storage: which of the following platforms or distributed filesystems is relevant for your NREN (currently in use or already planned)

| Platform	Count
CEPH	17
SWIFT	9
GLUSTERFS	5
Lustre	4
HDFS	1
NFS	11
ADFS	3
CINDER	8
EOS (CERN)	1
Other	1
None	2

17) Is your NREN providing or willing to provide in future Sync and Share storage services (a la Dropbox) ? in case yes, using which technology ?

Category	Value
No Sync & Share in our portfolio.	5
Yes, OwnCloud	10
Yes, NextCloud	6
Yes, FileCloud	0
Yes, SeaFile	0
Yes, SyncAny	0
Yes, OneData	2
Yes, using other platform	1

18) Is your NREN providing or willing to provide in future long-term storage (cold storage) services ?
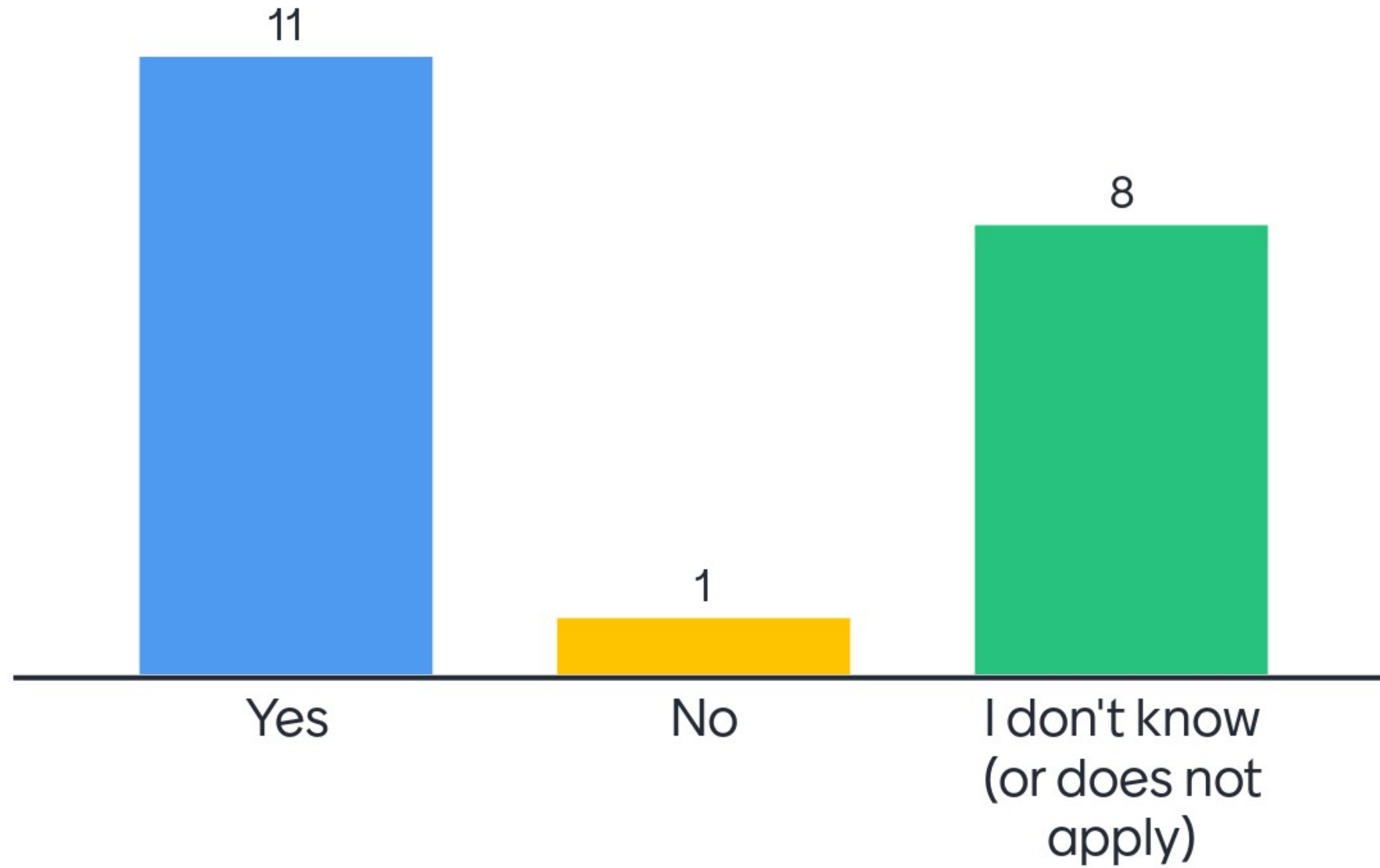
19) Which are the open source projects related to the provisioning of Cloud services you are contributing to already or would like to know more about?

GÉANT

minioopenstackowncloudjupyterfiles endereos

OpenStack, OKD, Ceph, EduTeams, SaToSa, Shibboleth

OpenStack, Ceph, Juju

kubermatic

OpenStack, Juju, Kubernetes, Nagios

5

20) Is there a specific tool you're using you would like to receive support or advice from another NREN ?

OpenStack, Juju/MAAS, Ceph

relational or not relational database tools

MFA solutions

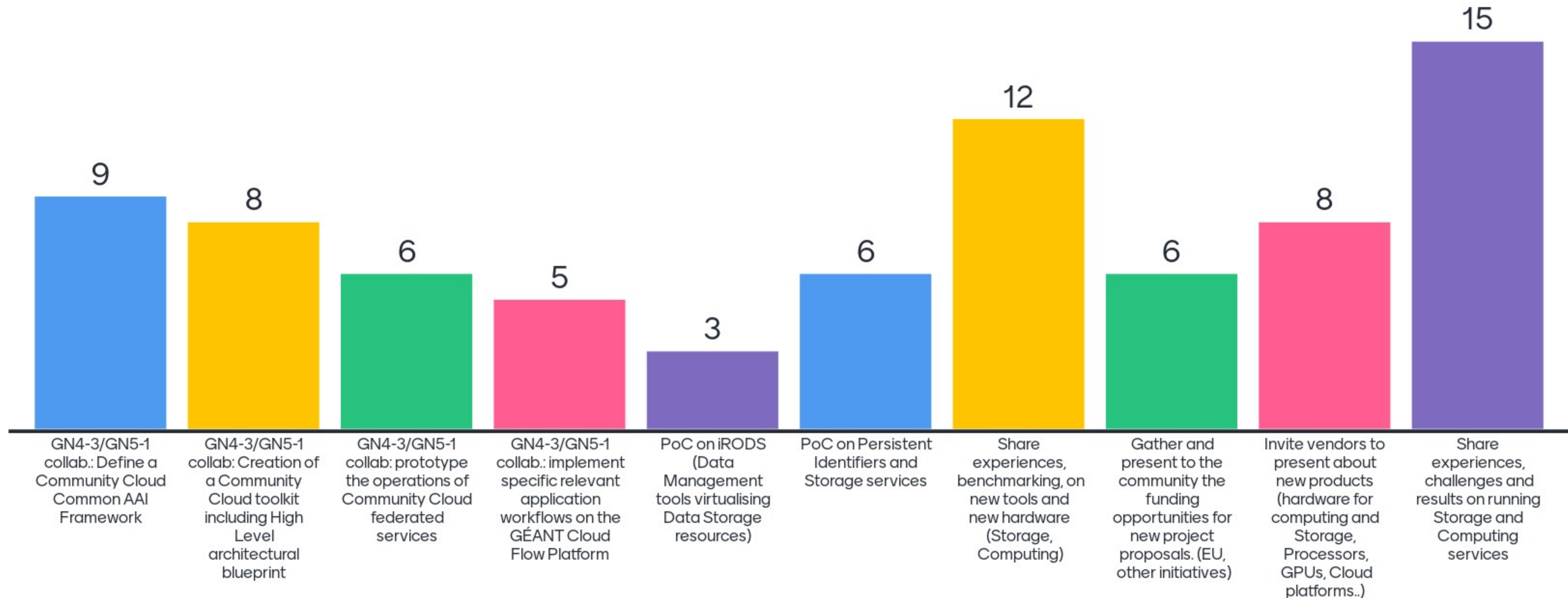Ceph

openstack magnum

kubermatic

Accounting, OpenStack, Kubernetes, Monitoring

OpenStack, Ceph, AAI, infrastructure monitoring, infrastructure performance debugging and tuning

how are NRENs managing accounting

9

21) Which of the following topics would be interesting for common work within this SIG ?

Topic	Value
GN4-3/GN5-1 collab.: Define a Community Cloud Common AAI Framework	9
GN4-3/GN5-1 collab: Creation of a Community Cloud toolkit including High Level architectural blueprint	8
GN4-3/GN5-1 collab: prototype the operations of Community Cloud federated services	6
GN4-3/GN5-1 collab.: implement specific relevant application workflows on the GÉANT Cloud Flow Platform	5
PoC on iRODS (Data Management tools virtualising Data Storage resources)	3
PoC on Persistent Identifiers and Storage services	6
Share experiences, benchmarking, on new tools and new hardware (Storage, Computing)	12
Gather and present to the community the funding opportunities for new project proposals. (EU, other initiatives)	6
Invite vendors to present about new products (hardware for computing and Storage, Processors, GPUs, Cloud platforms..)	8
Share experiences, challenges and results on running Storage and Computing services	15

18

22) Anything else we should/could be working together on ?

anything that makes nrens more relevant as service providers to the higher layers that are being built in EOSC

Container Services

augment the "build" flavor in the group with an "operate" flavor that is inclusive of commercial services, e.g. in OpenStack. "Cloudy interoperable" in a hybrid world.

Developments on commercial Cloud. European- and US cloud providersHDevelopments on GDPR and data-sovereignty when it comes to using Cloud services

Accounting

5

Part 4: NREN to NREN

How much do we know about each other and how to collaborate more (6 slides/questions)

23) Please mention the challenges you are currently facing on the Cloud: what is making your plans hard to achieve ?

Lack of manpower especially on user support

Lack of manpower

under-developed understanding for NREN value in service delivery chain across wider NREN and institutional IT players

How do you organize running clouds. SRE + Agile for running advanced cloud services. AAI frameworks for collaboration. Funding the collaborations.

lack of manpower

Fast moving (container services), hard to keep up

shortage of resources

Storage performance, GPU sharing, Accounting

funding, expectation management (vs. the well oiled commercial marketing machine), employee retention, lack of a shared architecture the way we have a shared architecture L1-L3, lack of coherent NREN battle plan to pitch into higher EOSC layers
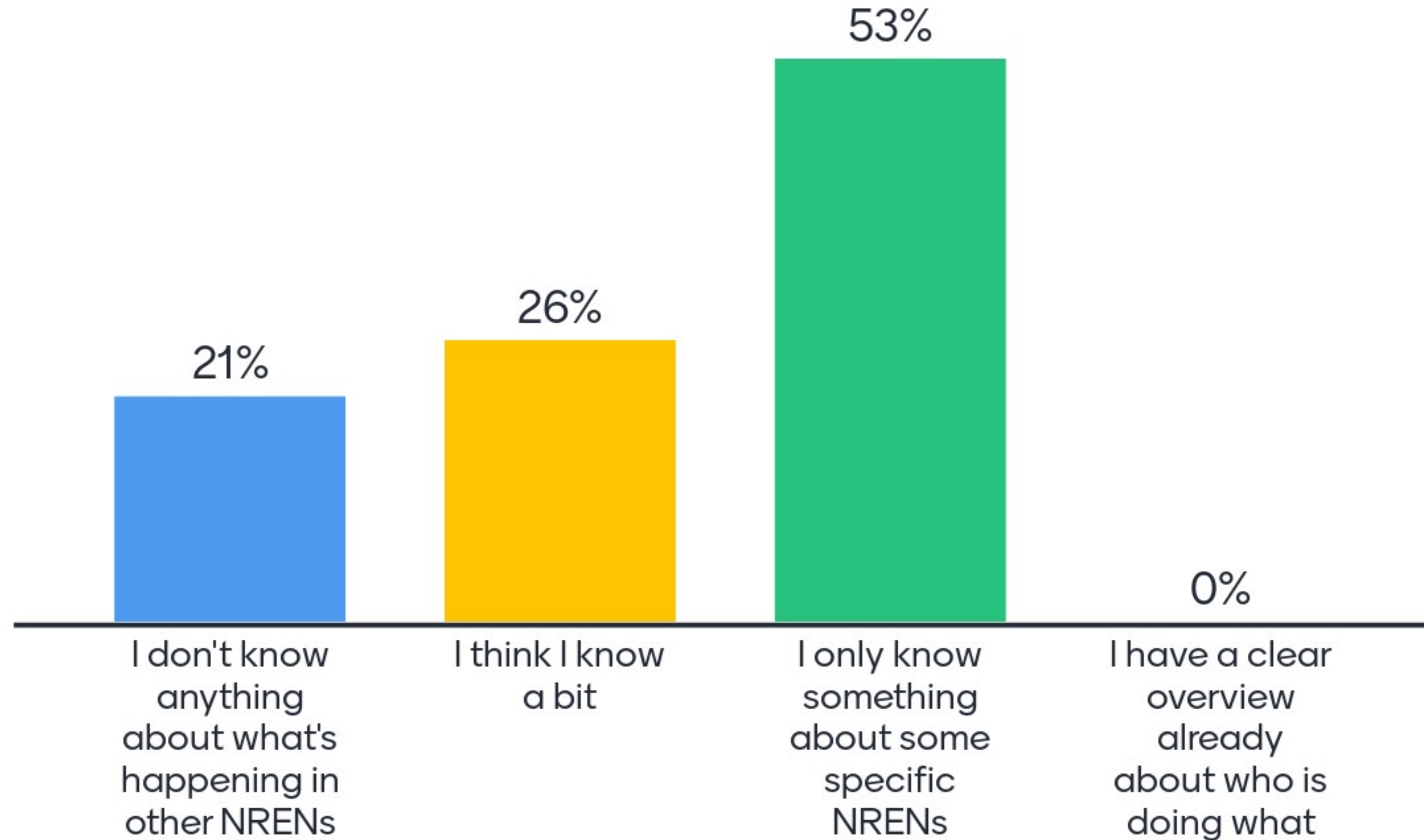
23) Please mention the challenges you are currently facing on the Cloud: what is making your plans hard to achieve ?
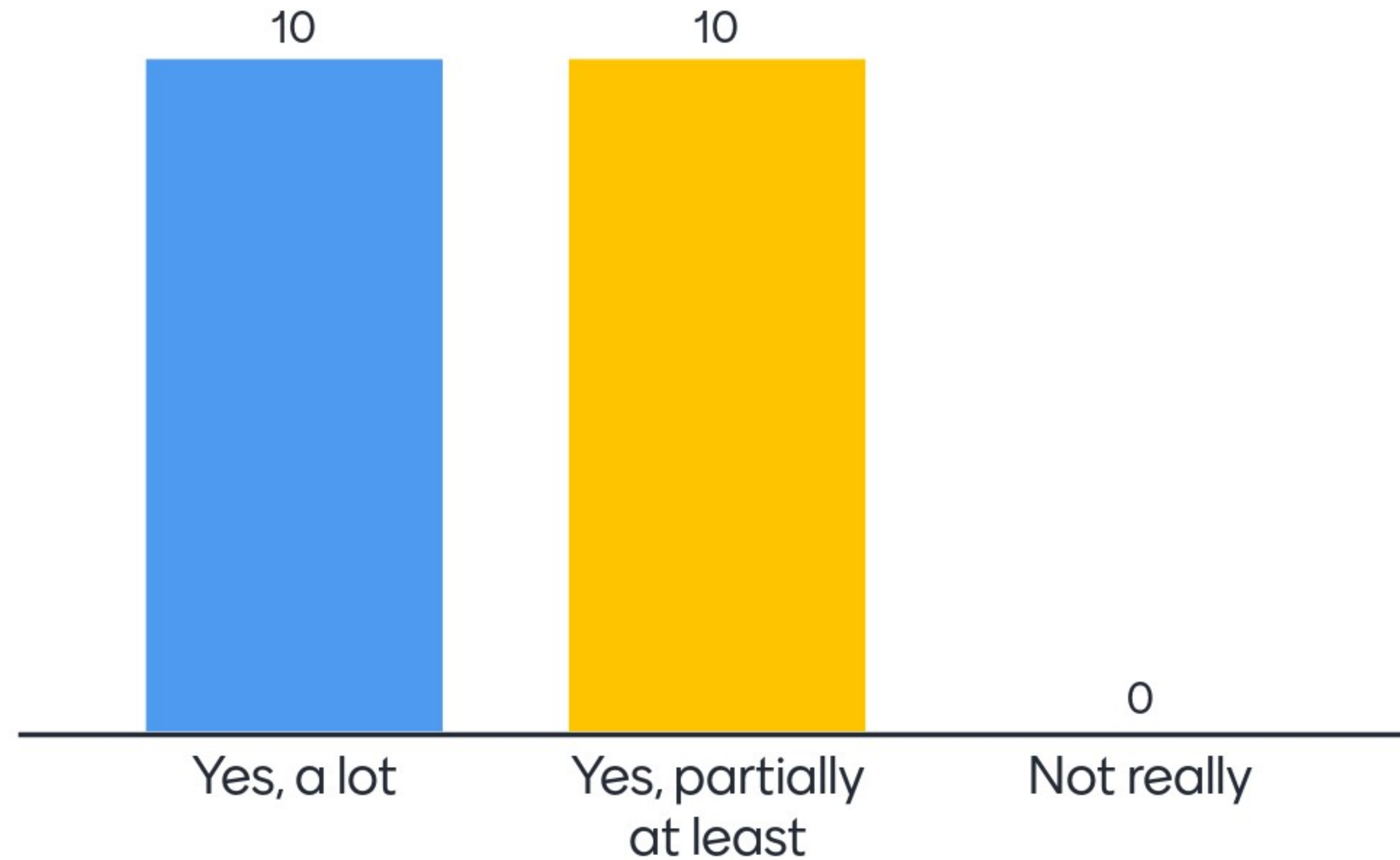
Not easy to find skilled personnel, lack of (wo)manpower resources, long-term institutional planning not always clear.
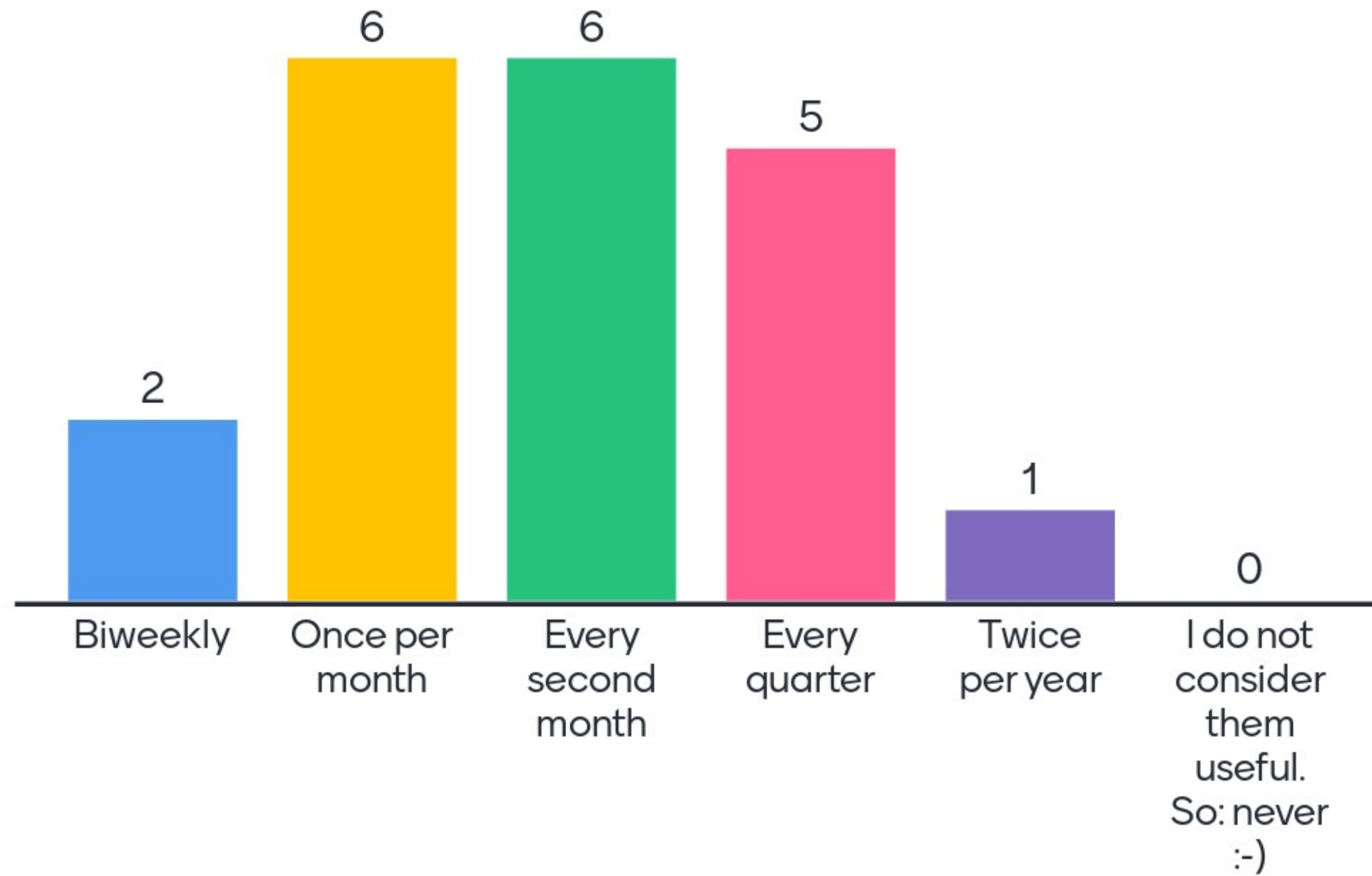
lack of manpower
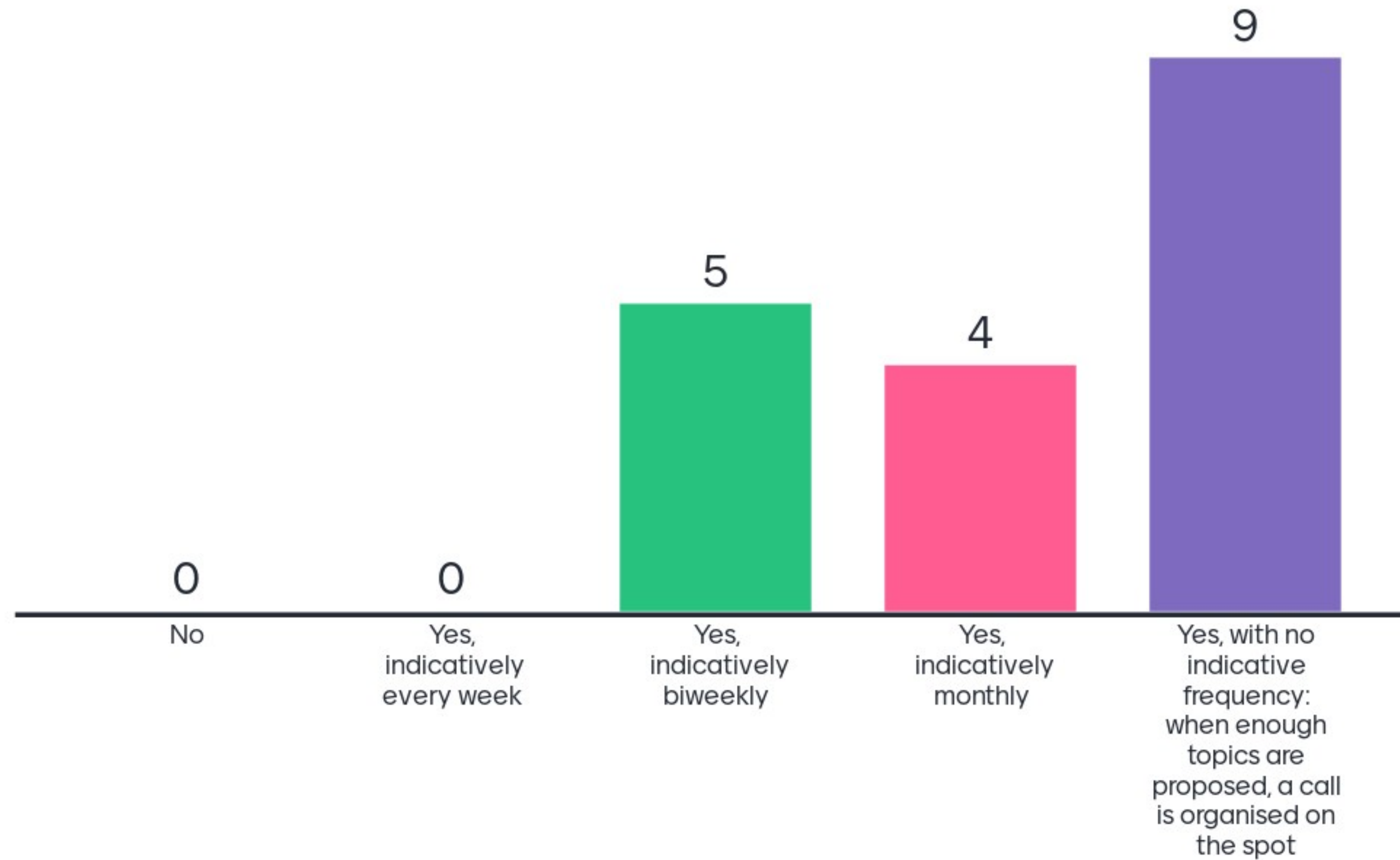
25) Would periodic infoshares/webinars informing about other NRENs' Cloud ongoing activities and plans be useful?

	Yes, a lot	Yes, partially at least	Not really
	10	10	0

GÉANT

20

26) If useful, how frequently would you be interested to attend a 1-hour webinar about another NREN's Cloud activities?

27) Would it be useful to have a 1-2 hours call (on selected topics to be defined on the spot, according to wishes) among NRENs Cloud Operators?
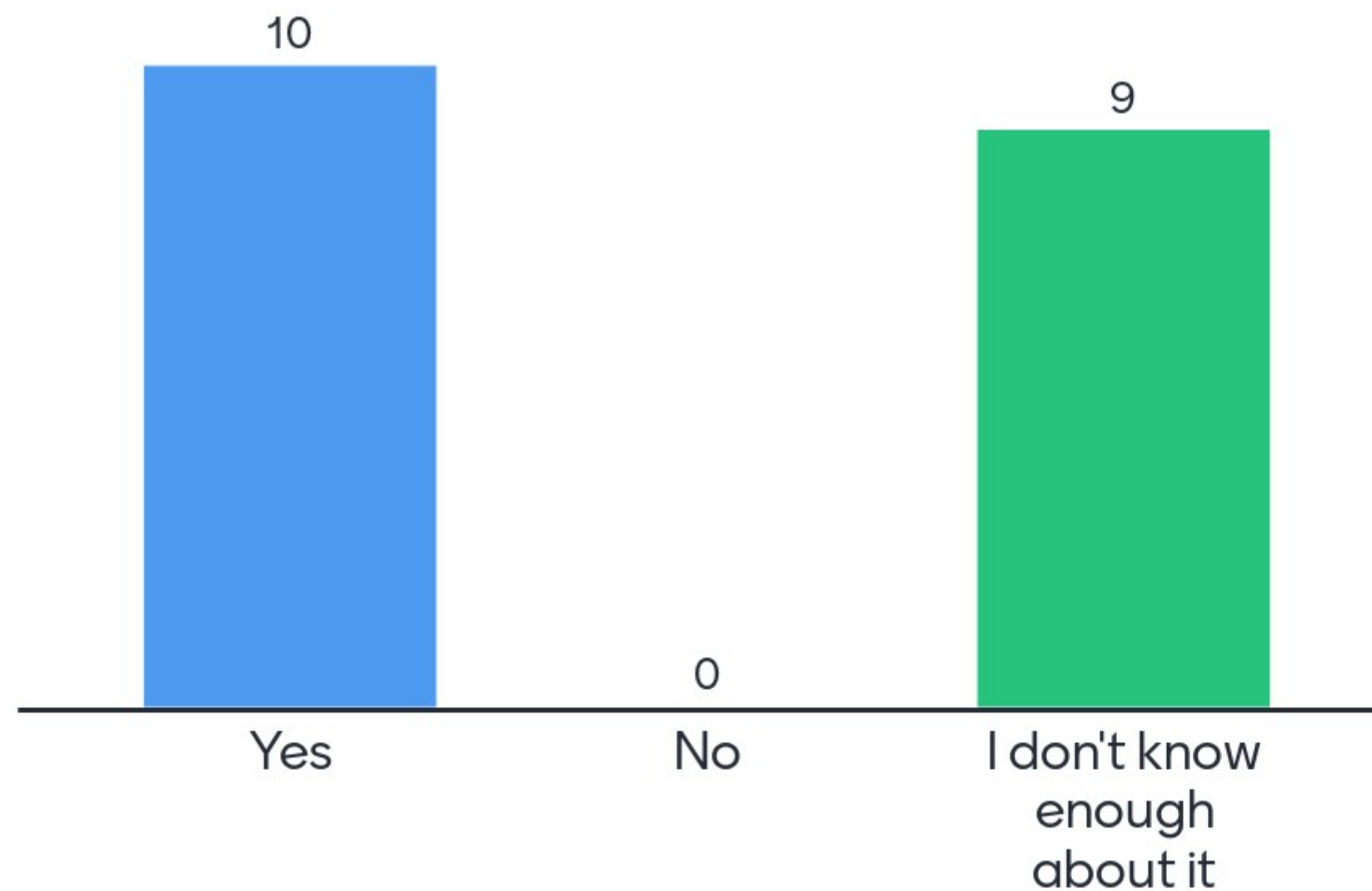

Category	Value
No	0
Yes, indicatively every week	0
Yes, indicatively biweekly	5
Yes, indicatively monthly	4
Yes, with no indicative frequency: when enough topics are proposed, a call is organised on the spot	9

Done ! Thank you !

:-)