

What do you see?

cartography tools

map compass ruler

ontologist professor

map and navigation tools

map compass and norcia

map compass ruler map

a map with compass

tools

test

measurement tools

compass

a slide from the workshop

a map and compasses

navigation equipment

a long journey

navigation aids

mappinginstruments

navigation tools

compass sextant

map and respective tools

a toolbox for using maps

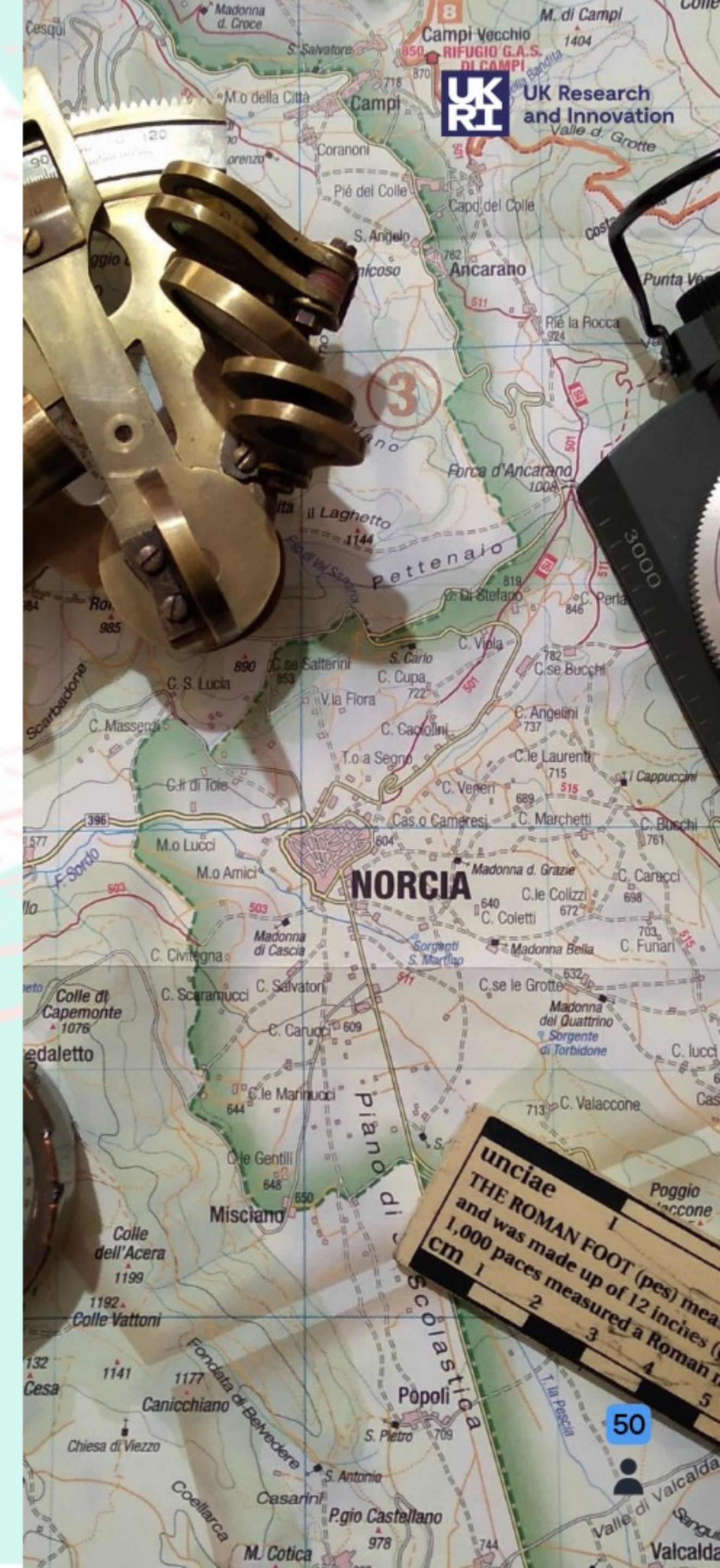
landscape and tools

a map and instruments

navigation equipment

a map

map



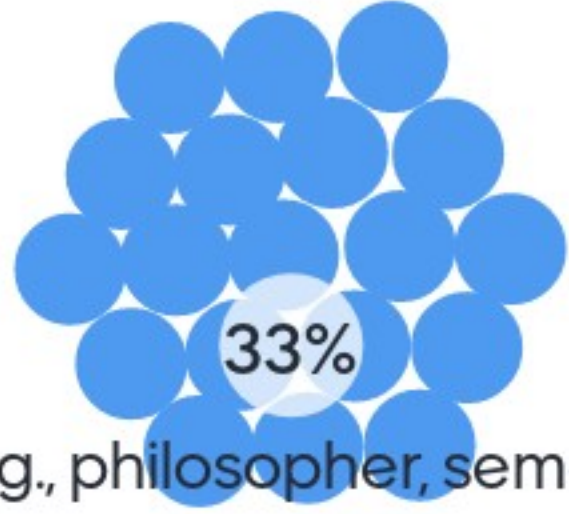
What is your professional role?



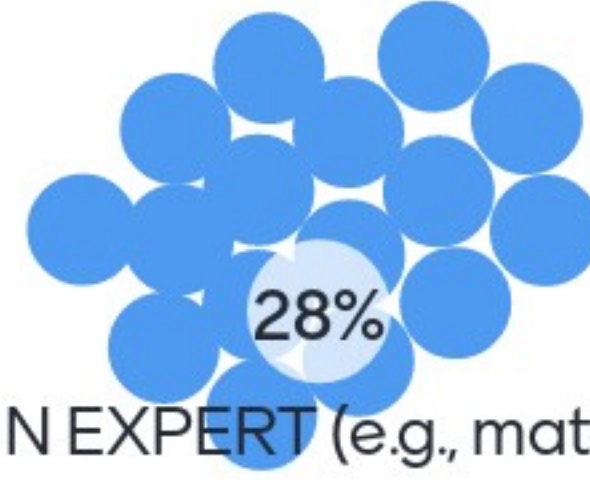
What are your main fields of expertise?



In which role are you here today?



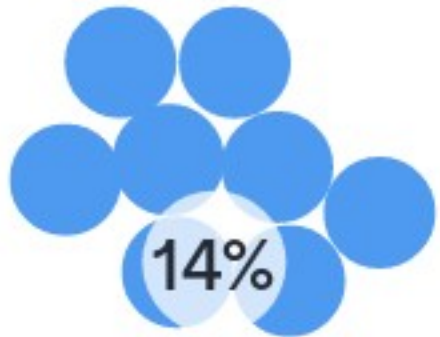
ONTOLOGIST (e.g., philosopher, semantic web expert)



M&M DOMAIN EXPERT (e.g., materials scientist)



IMPLEMENTER (e.g., database expert)



APPLICATION DEVELOPER

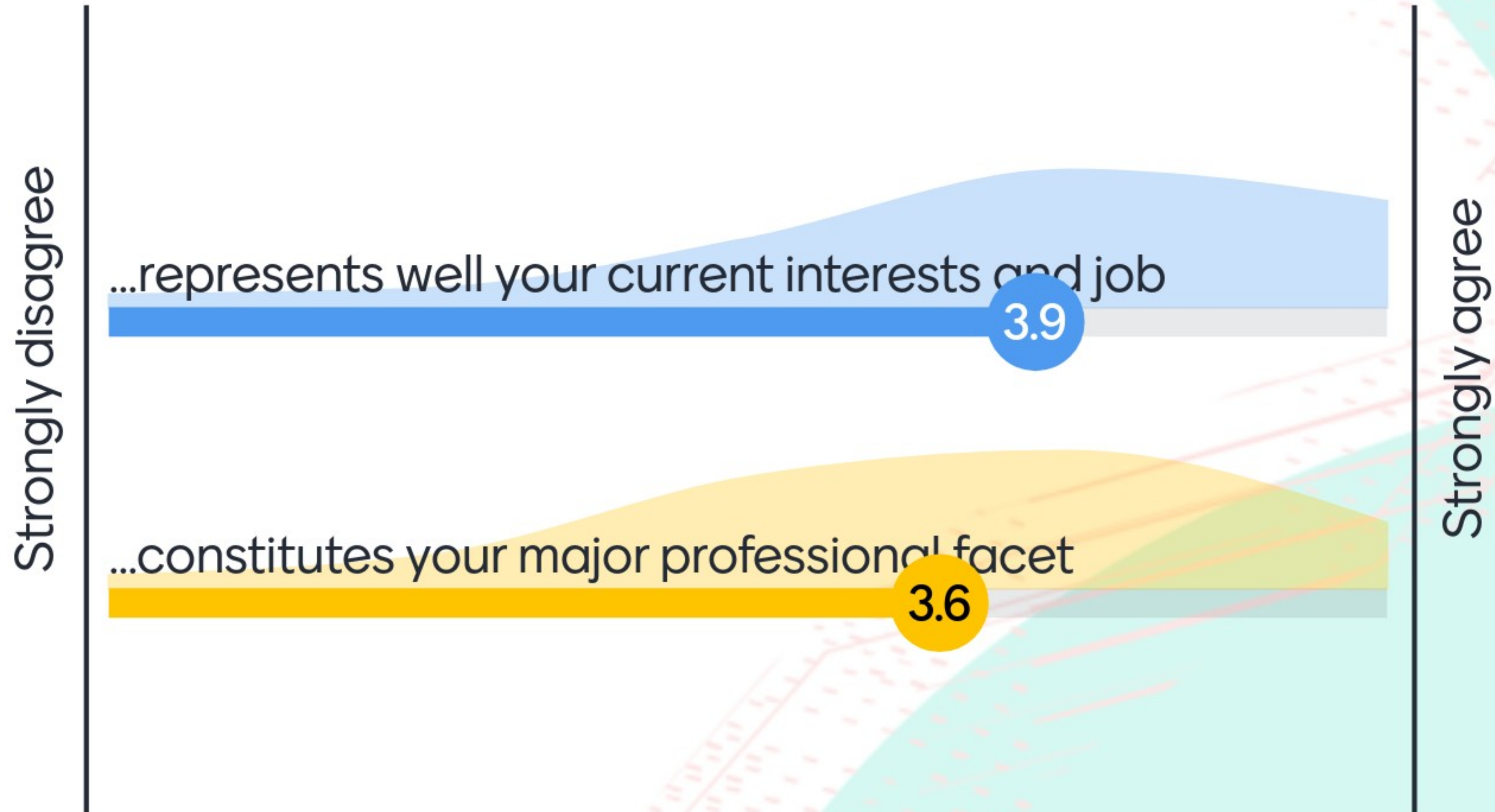


END USER (e.g., manufacturer)



OTHER

This role...



Which national and international initiatives (projects, communities, repositories) should OntoCommons be aware of?

IOF

NFDI in Germany

NOMAD Laboratory

IOF

EMMC

Hets

OntoCAPE COGents CAPE-OPEN
DEXPI CFIHOS

LabCore Digital Notebook

Nomad

Which national and international initiatives (projects, communities, repositories) should OntoCommons be aware of?

Industry Ontology Foundry

Industry Commons

Semantically Connected
SemiConductor Supply Chains (SC3)
European Project

Platform MaterialDigital (PMD)

IOF

IOF

Platform MaterialDigital

funStep

Material Digital (Germany)

Which national and international initiatives (projects, communities, repositories) should OntoCommons be aware of?

CoLan

IOF

OPTIMADE

VimmpMaterial digital (Germany)

IOFCOLORE

IOF, EMMC, EUOS

Dexpi, CFIHOS, POSC César

NFDI4Cat, NFDI4Chem, NFDI4Ing,
NFDI e.V., RDA, EMMC, IAOA, EOSC,
NIST databases

EMMC

Which national and international initiatives (projects, communities, repositories) should OntoCommons be aware of?

Industrial Ontology Foundry

EMMC, Materialsmine.org, MARDA

Manufacturing modelling semantics
work at NIST; Metamodelica.

OntoCape

IOF

IOF

industry Commons

ETSI, BDVA, EDGEX FOUNDRY

UK National Digital Twin
programmeISO TC 184/SC4 AHG2 -
Industrial TerminologyCFIHOS

Which national and international initiatives (projects, communities, repositories) should OntoCommons be aware of?

EMMCEMMOBFODOLCHEASE
Optimade

BIM4EEB

Any initiative on sustainability
development

MUSICODE EU

EMMC

UFO

ISO 15926, IOF, BFO, DOLCE, SAREF,
IOGP, READI,

EOSC

MUSICODE

Which national and international initiatives (projects, communities, repositories) should OntoCommons be aware of?

Industry common

.

VIMMP, Marketplace

.

ISO 14040

What standards (of any type) are relevant for your work?

CAPE-OPEN

EOSC

OAGi

EMMMo

Industry4.0

IUPAC

UBL

programming languages

EMMO

What standards (of any type) are relevant for your work?

ISO

ISA-88, ISA-95

DEXPI, OntoCAPE, SFIHOS

JSON-API

EMMO

RESQML

AS9145 and AS6500

ISO 15926 ISO 21838 ISO 8000

ISO 15926

What standards (of any type) are relevant for your work?

ISO/TS 14048

MQTT, MODBUS, PLC, PROFINET,
STEP, CAD

IUPAC, Programming language

BFO

UML

ISO REACHIUPAC

ISA-88, ISA-99

I 4.0

MODA CWA 17284

What standards (of any type) are relevant for your work?

ISO 16739

Common LogicISO TC184 SC4ISO 20534

IUPAC, ISO, DIN, ASTM, DCOM

STEP

DOLCE

EMMO, SI, WIP, CIF, JSON, JSON-LD, ISO 80000

BFO, OWL

UFO

BFO, EMMO

What standards (of any type) are relevant for your work?

MQTT, foundational ontologies

UFO

BFO

API, programming languages

INCHI, JSON-LD, Semantic Web,

ISO/IEC 81346, ISO 15926, ISO 14721,
Asset Administration Shell, EN 13306,
EN 17007, Open source,

ISO 5087, ISO 14224, OWL, RDF

BFO, EMMO, OWL

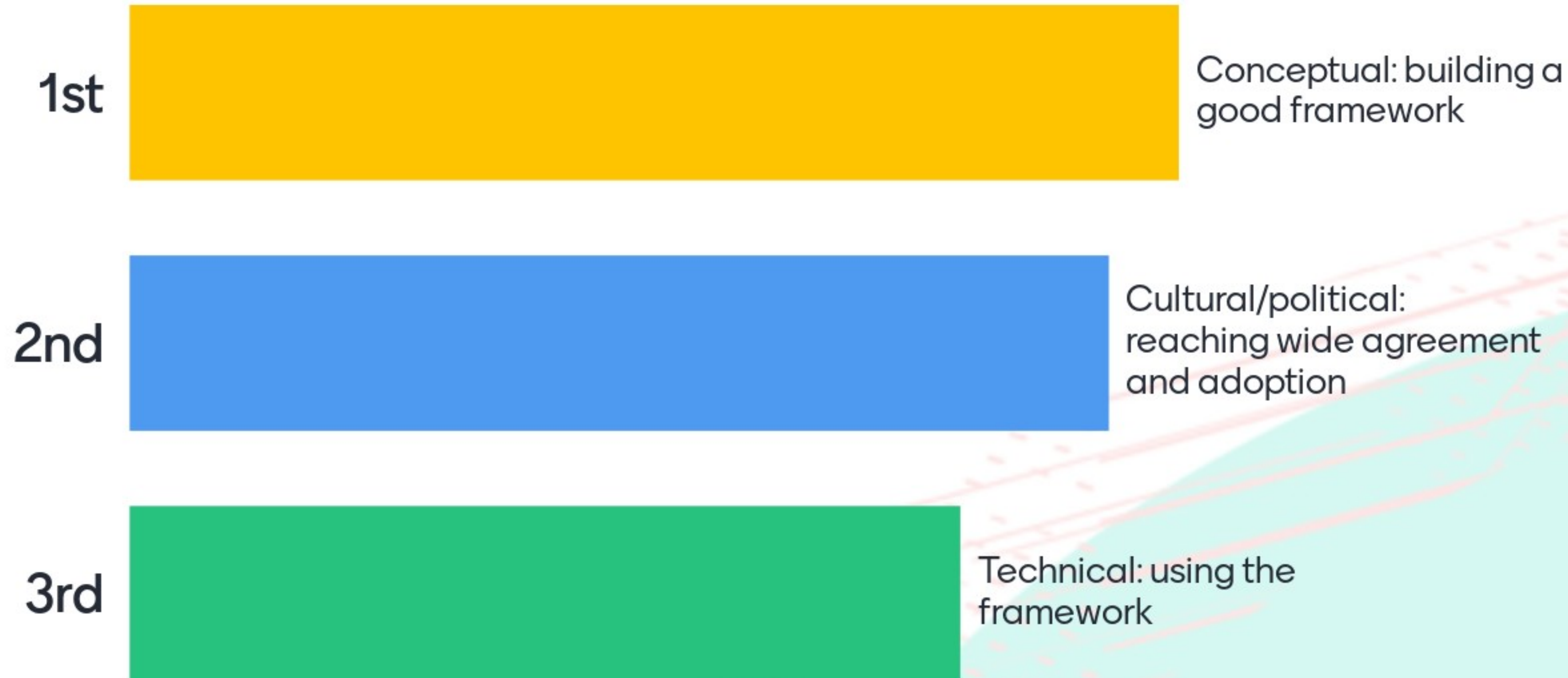
EMMO, EVMPO

What standards (of any type) are relevant for your work?

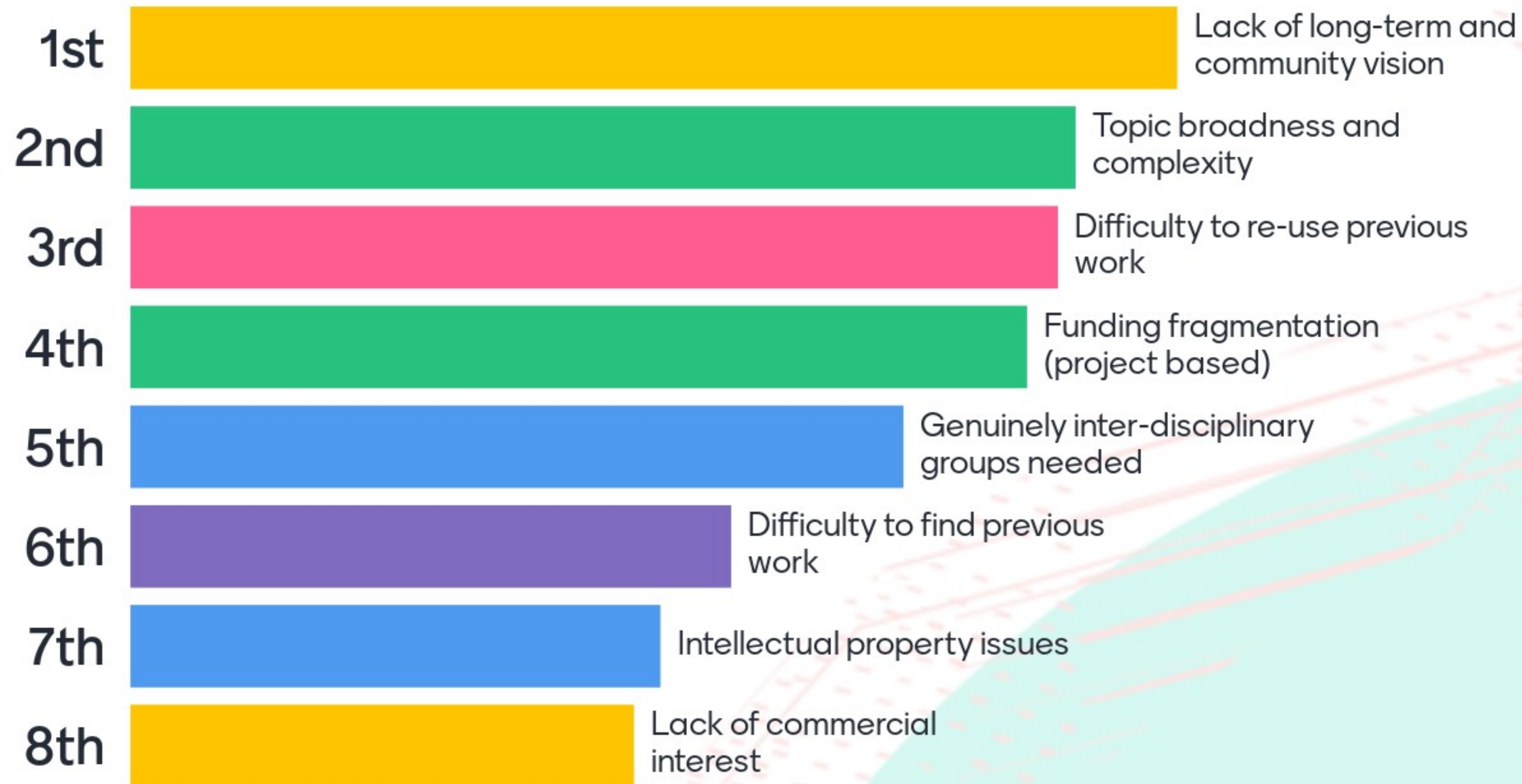
RDF, GeoSPARQL, OWL, INSPIRE,

.

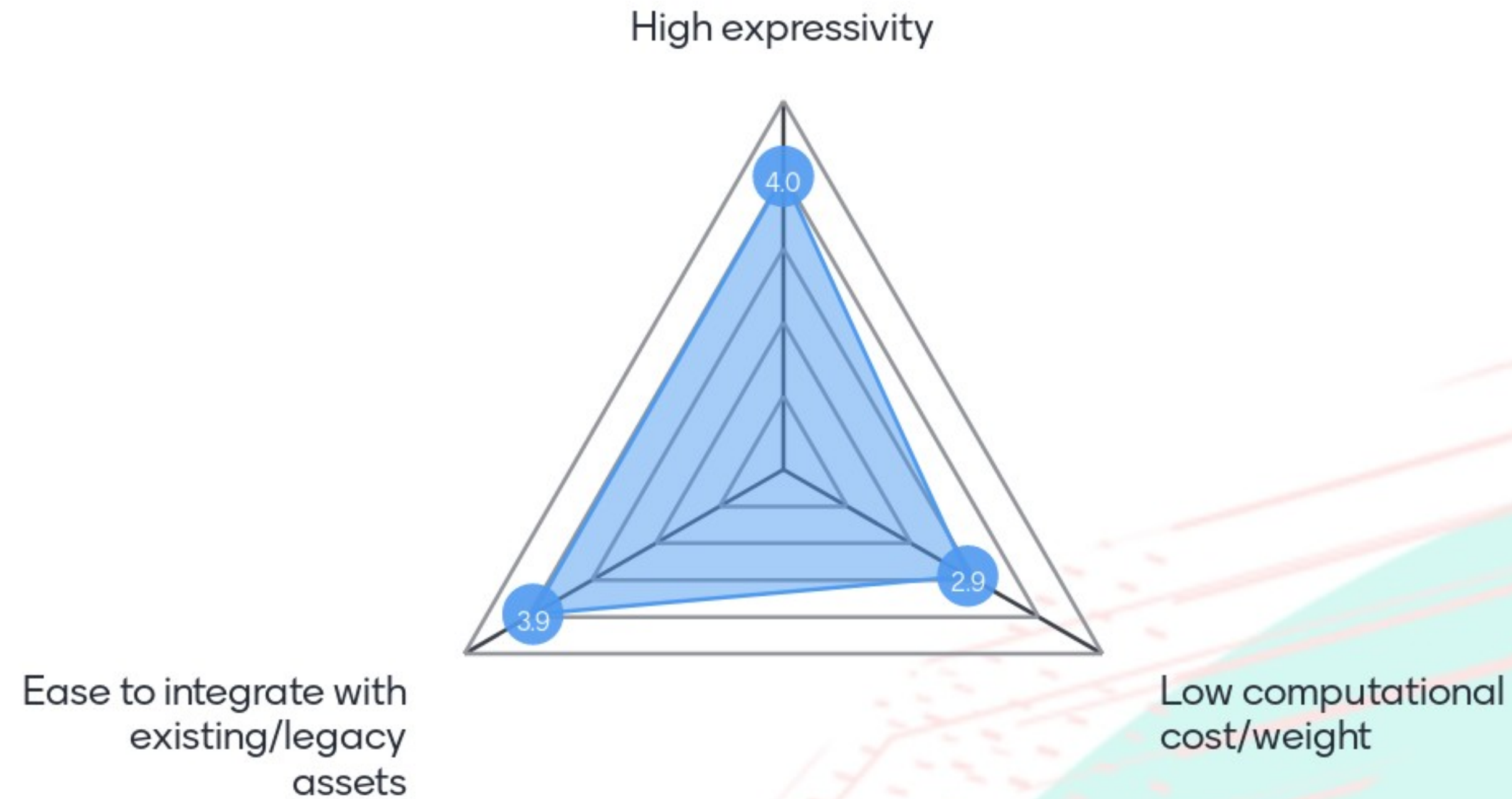
What are the main difficulties for standardization in general?



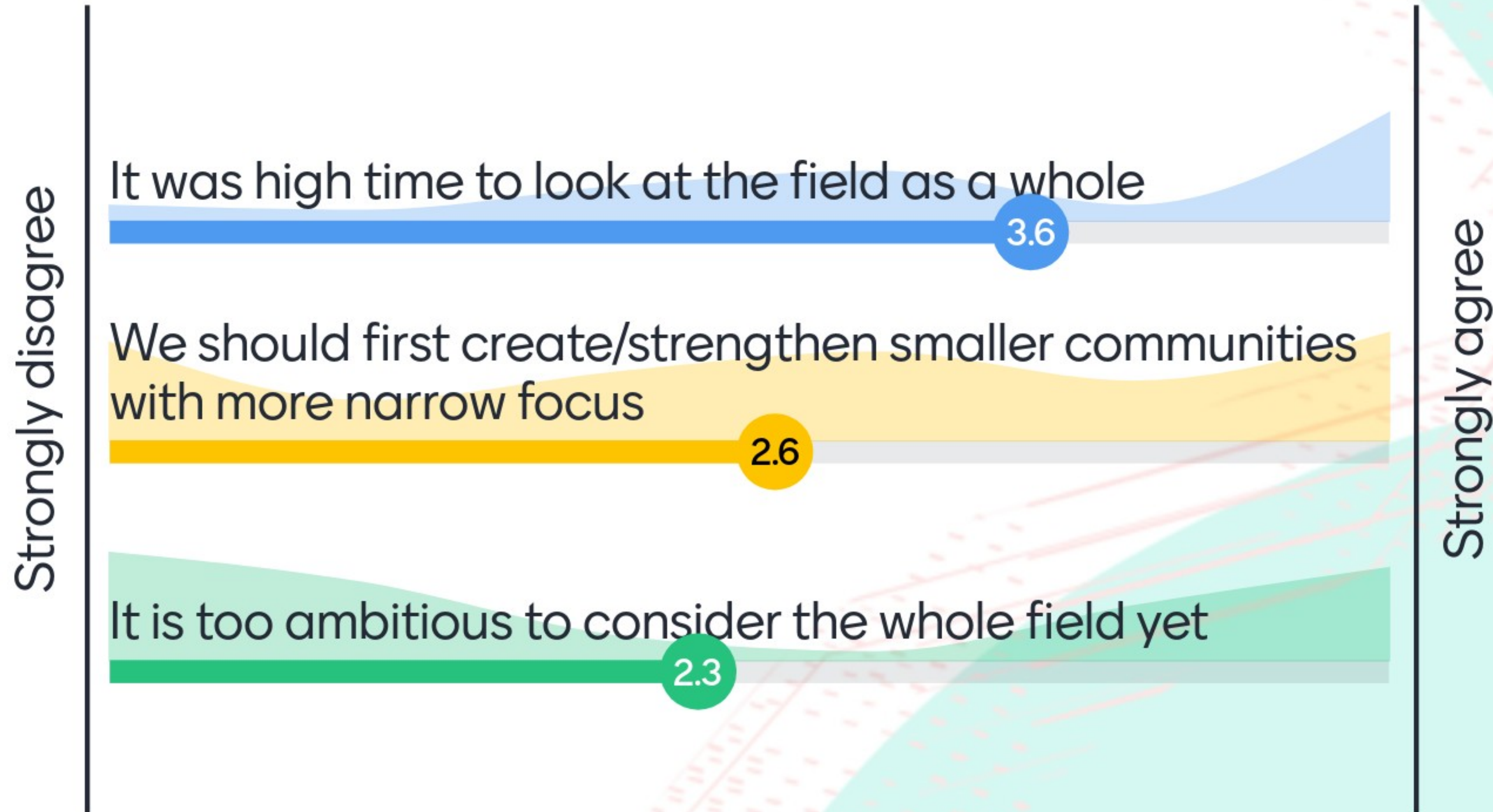
What are the main adverse factors for standardization of data documentation in M&M?



How do you value these aspects when choosing a framework/language?

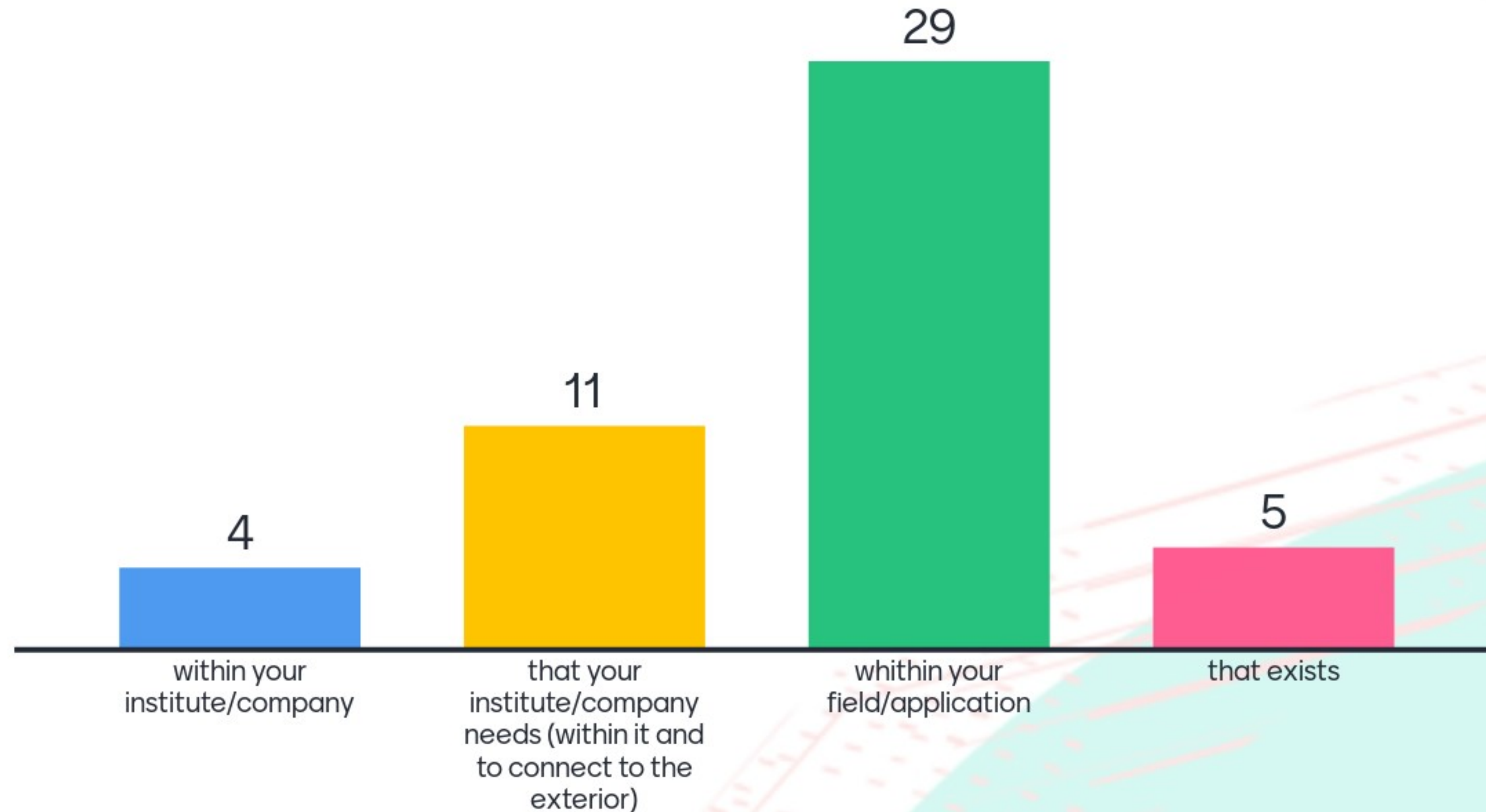


Strategies and views for the M&M field:



What is a desirable and reasonable aim for the next future?

To standardize all the knowledge...



Which part of the semantic landscape are you more interested in?



Physics and Chemistry



Mechanical and Industrial Engineering

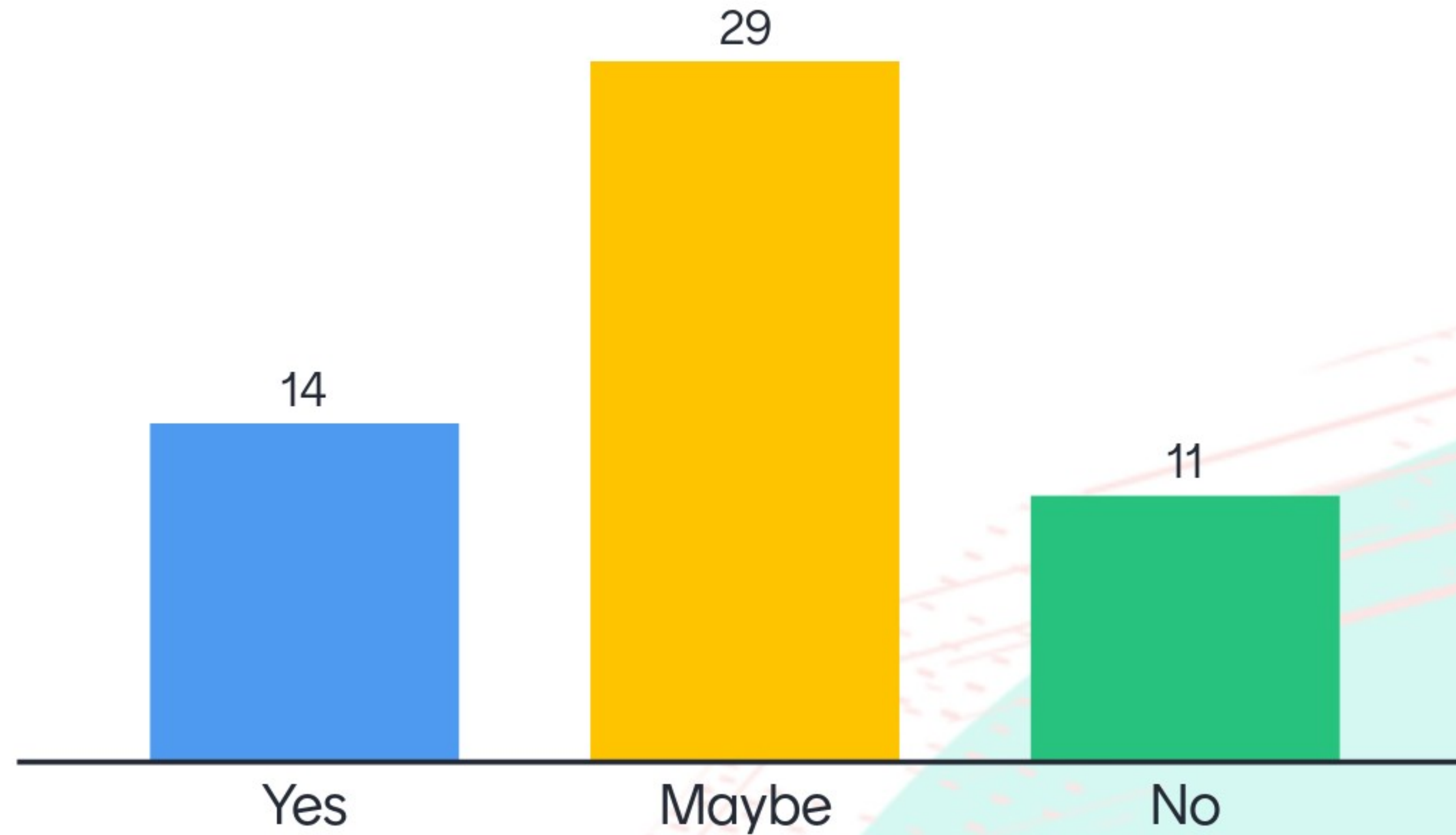


Thermal Engineering/Process Engineering

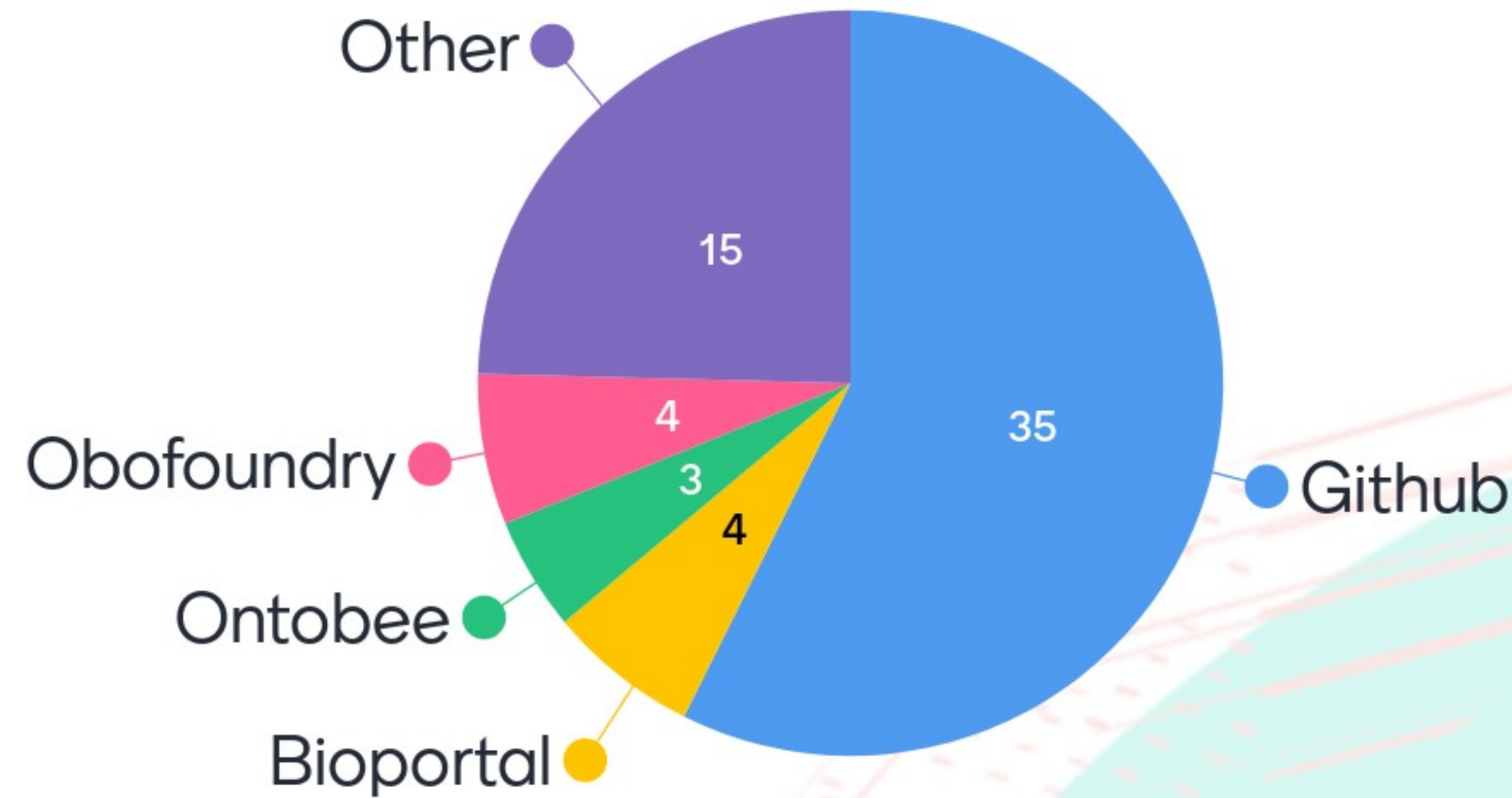


Material Science and Engineering

Do you know where to find ontologies for your field?



On which platforms do you publish your ontologies or look for existing ones?



Do you have a clear understanding of how semantic technologies can support your work?



What positive impact do you have/expect from semantic technologies?

semantic data integration

interoperability

replace documentation

semantic grounding, conceptual clarification

Interoperability

Interoperability

Data harmonization

interoperability

clear framing for a discipline

What positive impact do you have/expect from semantic technologies?

A better world

data integration & reasoning

Improve adoption of materials modelling routes

Data sharing

data harmonisation

interoperability

Cost savings

integration

FAIR

What positive impact do you have/expect from semantic technologies?

Improving the ability to share and integrate data from different sources.

link with other applications

interoperability with databases and models

development of cognitive support systems for cross-domain applications

AI improvements

better quality timely information to support decision making

Interoperability

interoperability

interoperability (in particular theory - experiment)

What positive impact do you have/expect from semantic technologies?

Data Integration, Semantic Web Service

Rule base Reasoning

FAIR data

semantic desambiguity

better knowledge management and intelligence

Reach industrial data and supply chain data interoperability

interoperability

trust

Common language, referencing resources, data and application integration

What positive impact do you have/expect from semantic technologies?

Data integration

FAIR

Explore implications of definitions

data sharing and integrating

Data sharing

Organizing and speed up workflow (especially data-driven)

Interoperability, Data sharing

Data interoperability

data integration
data sharing
metadata description
develop rich applications

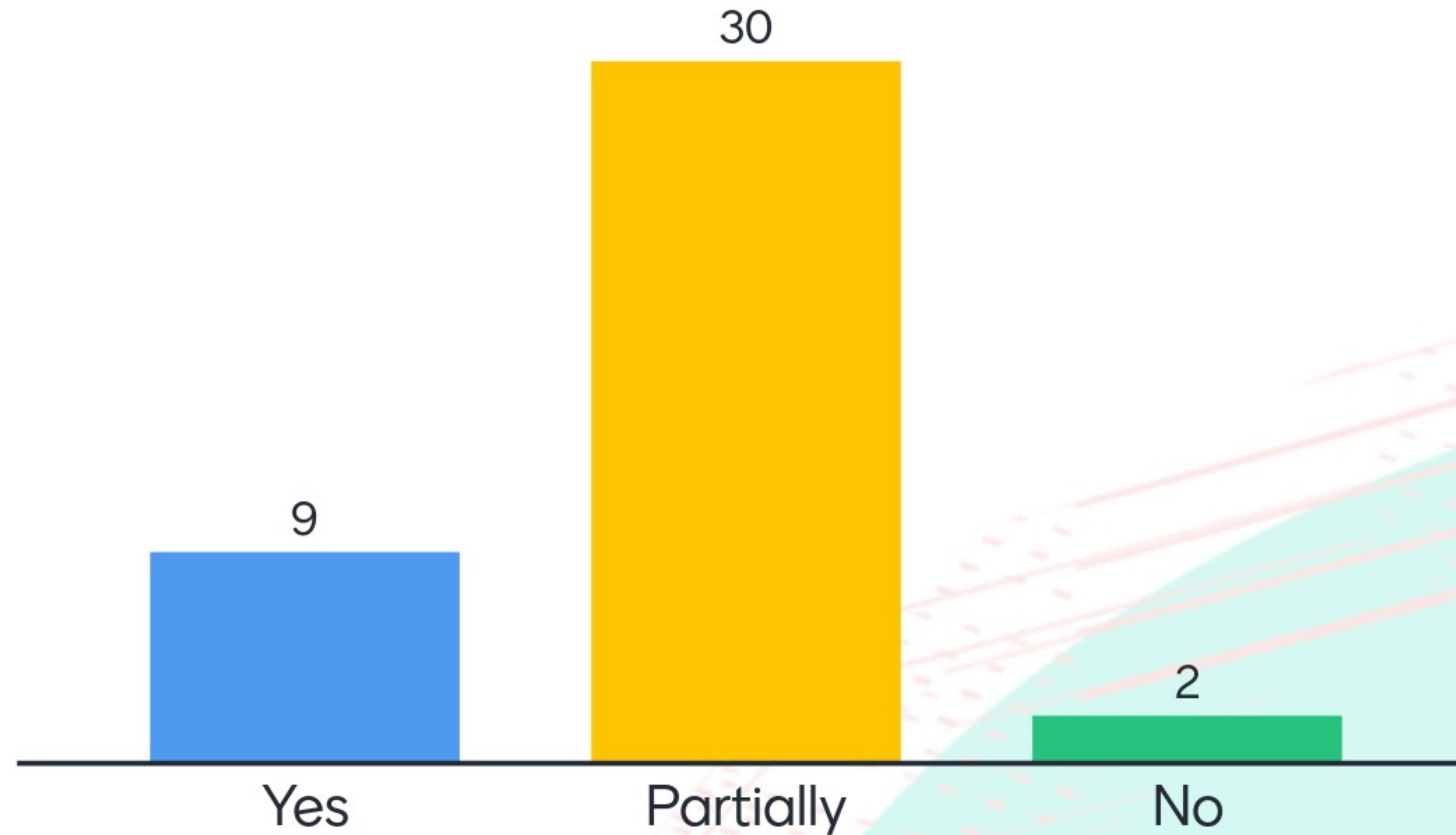
What positive impact do you have/expect from semantic technologies?

Interoperability

Integration of heterogeneous data

Interoperability

We used the DFG taxonomy of topics in the registration: did you find it appropriate?



Would you suggest an alternative classification of M&M topics?

no I wouldn't, the DFG system is great

Not now

No

By Industry and its domains

Not yet

I don't know

Not yet clear to me

?

not aware

Would you suggest an alternative classification of M&M topics?

?

not know

Not clear to me

By industry domains

not clear

not clear

No

Not yet clear

:(

Would you suggest an alternative classification of M&M topics?

Don't know

No