



SNS-OPS/SNS CO-OP Survey Results on Vision aspects of Call 3 SNS Projects

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The background is a solid blue color with a faint, repeating pattern of circuit board traces. At the bottom, there are several horizontal, wavy lines in a slightly lighter shade of blue, creating a sense of movement or layers.

VISION SECTION

Vision Section

Societal Challenges

Societal Values

**Key Value Indicators
(KVs)**

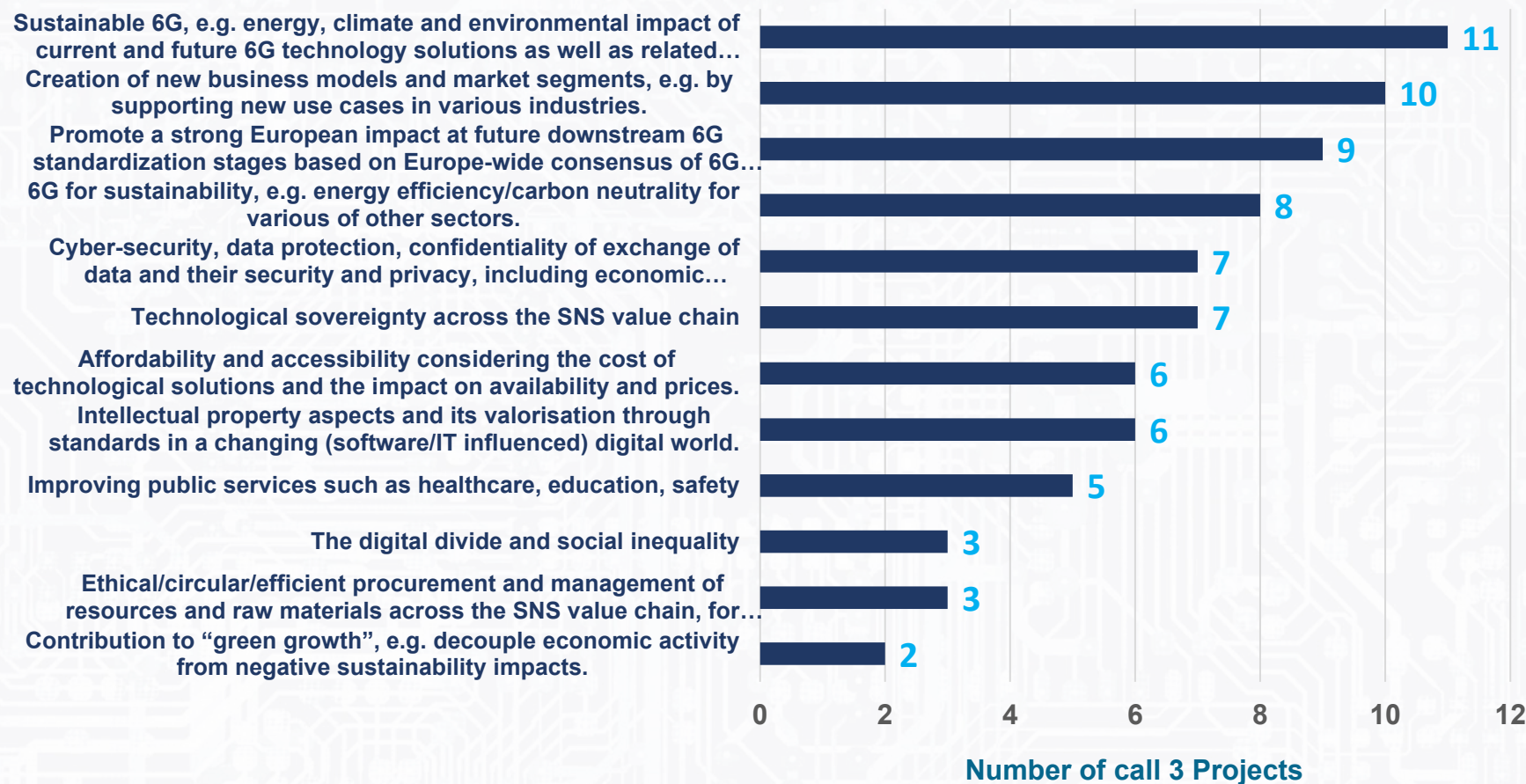
6G Vision

Sustainability

- **Sustainable 6G, New business models and market segments, and Strong European impact** are considered the most important **societal challenges**
- **Energy efficiency** is considered the most important **societal value**, followed by **privacy, security and human safety**
- Most project will use **trials and experiments** to assess **Key Value Indicators (KVI)**
- **The transition from 5G** to sustain and enhance 5G innovations are most important contributions to the **6G Vision**, together with the **integration of new service capabilities**
- **Industry, Innovation and Infrastructure**, together with **Sustainable Cities and Communities**, are most important **UN SDGs**

Vision, V1:

Which SNS Societal Challenges are addressed in your Project?



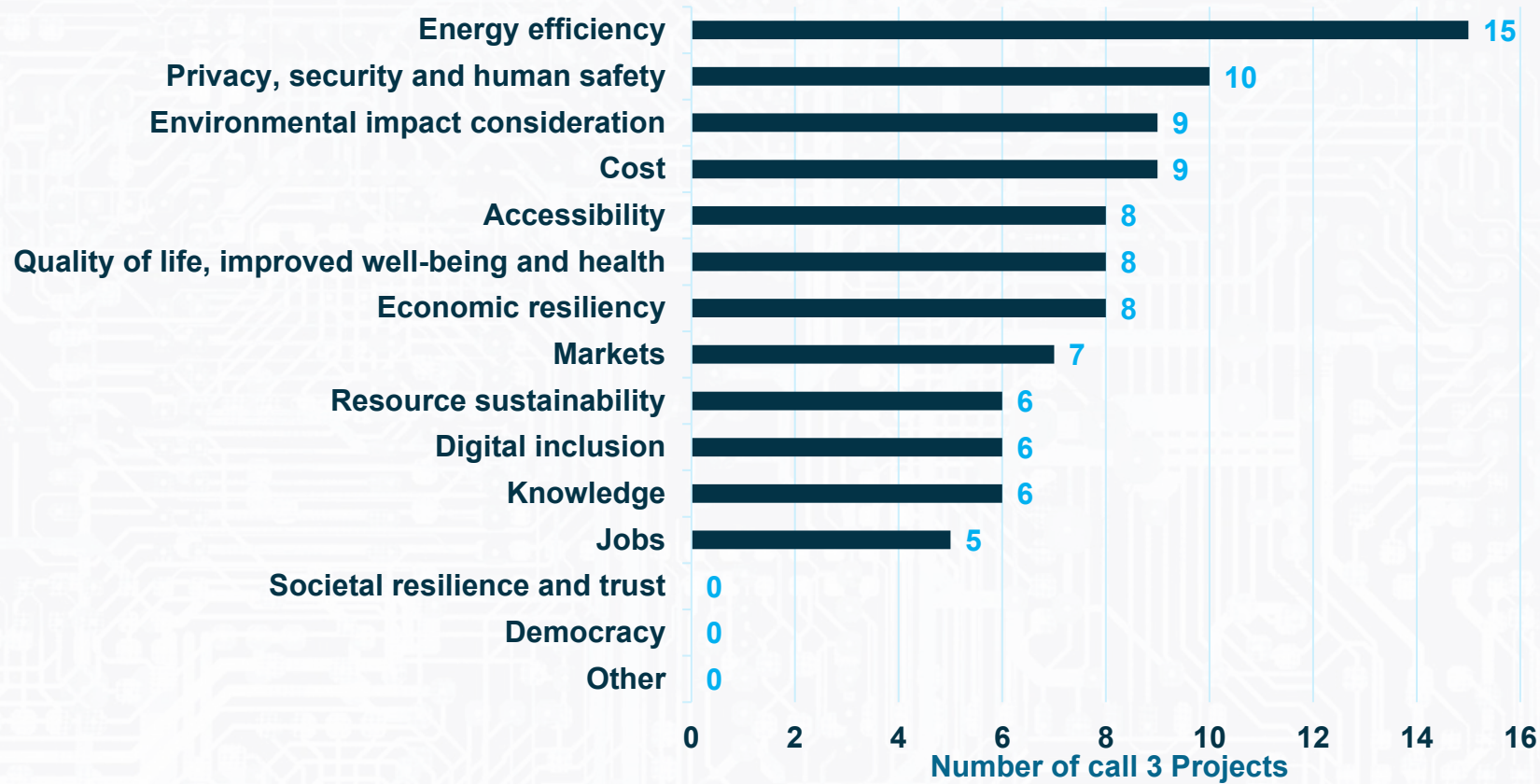
Insights

- In focus:
 - Sustainable 6G
 - New business models and market segments
 - Strong European impact

Compared to the call 2 survey in 2024, Sustainability has now been classified as a challenge, while it was previously categorized as a value. Comparing across shows that it maintains top focus.

Vision, V2:

Does your project address any societal values mentioned below?

**Insights**

- *Energy efficiency* is addressed by all
- Close followers are *Privacy, Security and Human safety*
- No focus on *Resilience, Trust and Democracy*

One project also mentions:

Technological sovereignty and Intellectual property valorisation through standardisation.

These aspects are covered under question V1 for this survey

Developments in projects' focus on societal challenges and values from Call 1 to Call 3



- **Sustainability:**

- Has been top rated by projects in all three calls. For Call 1 and Call 2, sustainability was discussed as a societal value, but in the Call 3 questionnaire, this was moved to the question on societal challenges.
- Related challenges comprises aspects of energy consumption and efficiency, carbon footprint etc. Sustainability has been rated to have medium to high importance by projects in all three calls.



- **Security, confidentiality and privacy:**

- Rated above medium for Call 1 (value and challenge). Slightly lower attention in Call 2, while more important in Call 3.



- **Sovereignty:**

- Same question asked for all three calls, and has been rated medium and stable

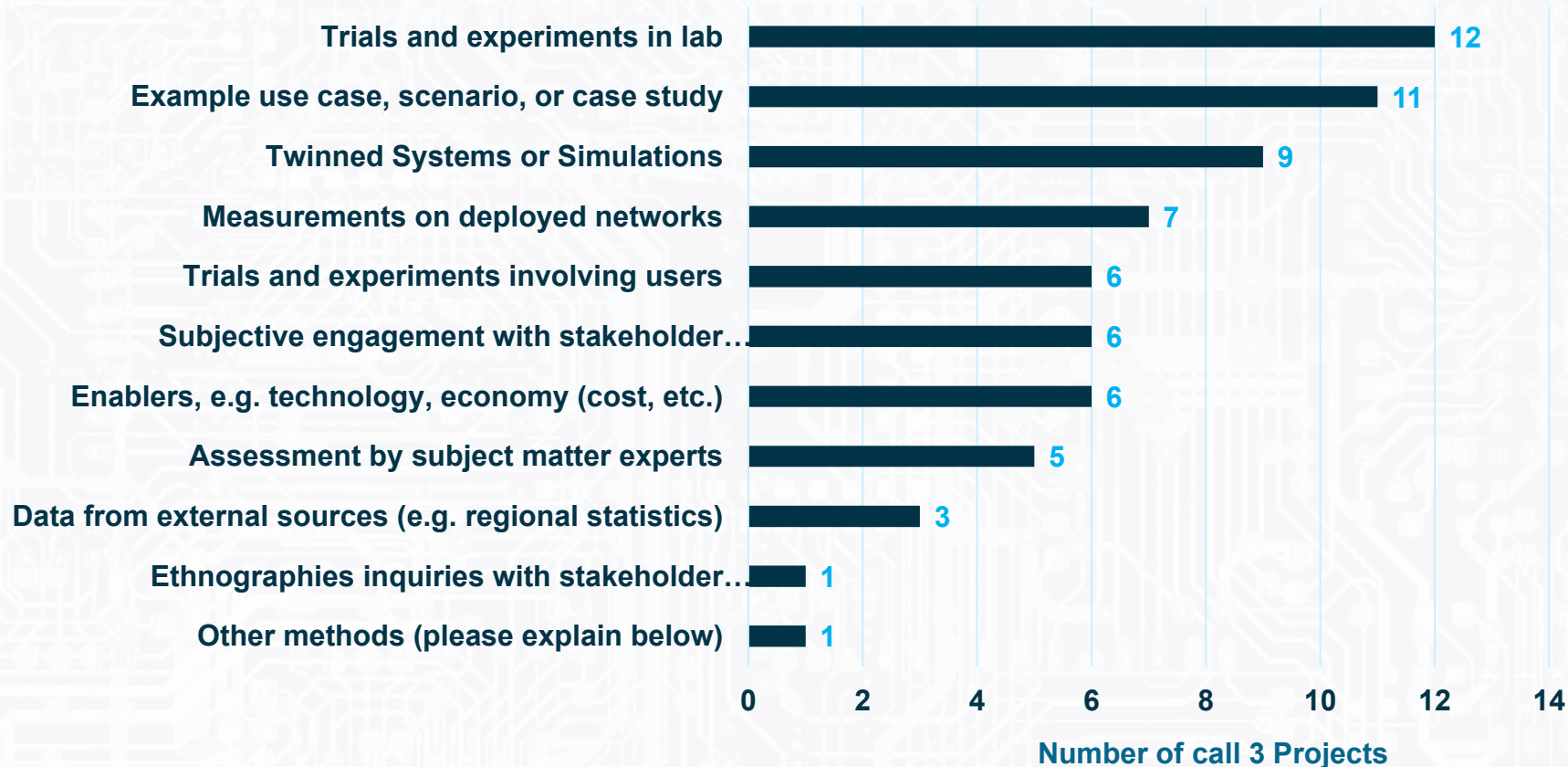


- **European perspective:**

- This was not explicitly addressed in the first questionnaire (Call 1) in 2023. For Call 2 and Call 3 this was addressed in the question on challenges referring to European value-based approach, and European impact on standardization, respectively, and received top-3 ratings both times.

Vision, V3:

Does your project assess Key Value Indicators (KVs)? If yes, which validation and assessment methods do you plan to use?

**Insights**

- Most projects plan to use *trials and experiments* to address KVs
- *Example use cases, scenarios* or *case studies* are also significant

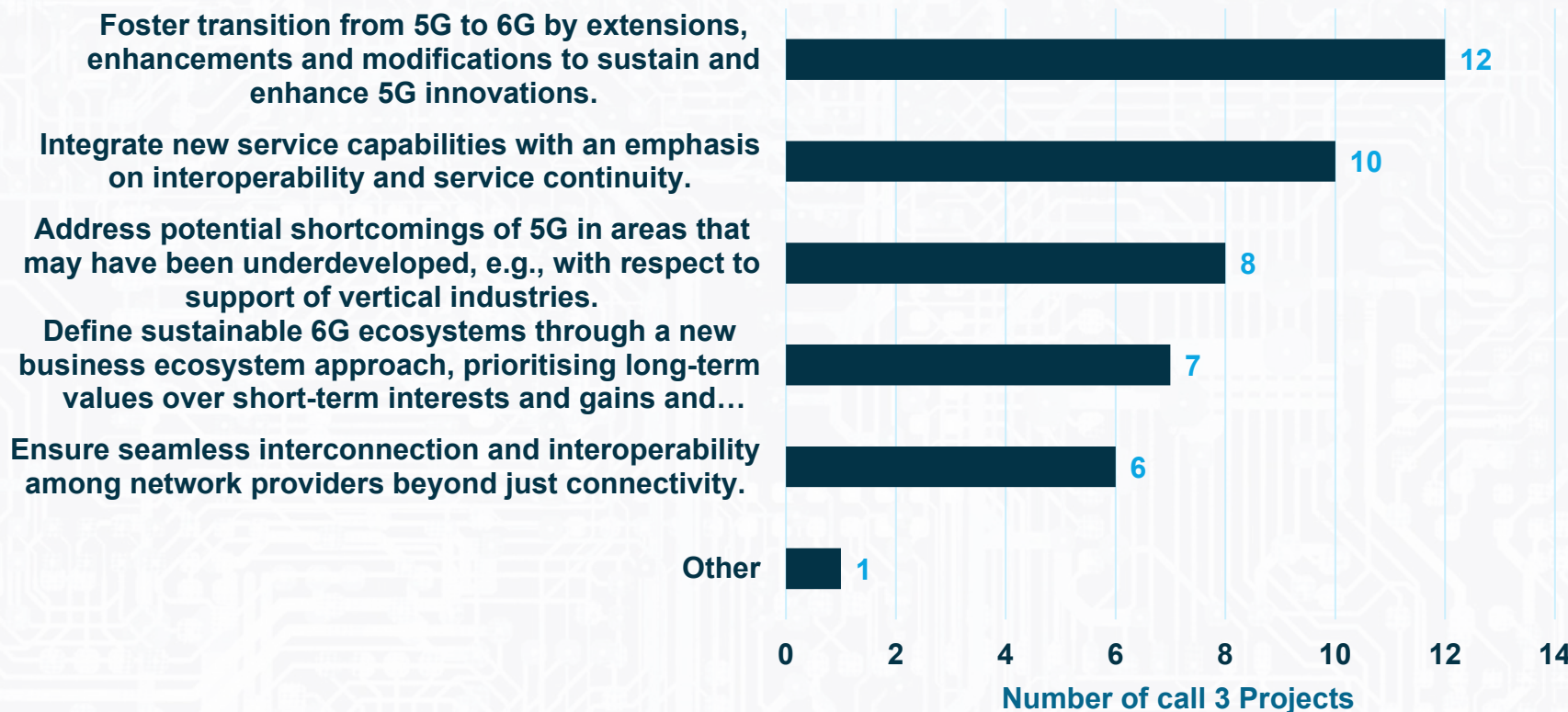
Other mentions:

Proof-of-Concept (PoC) demonstrations conducted on large-scale testbeds and infrastructures.

Vision V3: Assessment of KVIs: Developments from Call 2 to Call 3

- **Question V3 in Call 1 was significantly different from Call 2 and Call 3:**
 - Asking about KVs in Call 1 – now handled in the technical section. Call 2 and Call 3 questions are focussing on KVI assessment methods
- **Three options were continued:**
 - *Trials and experiments*, *Measurements on deployed networks*, and *Assessment by subject matter experts*.
 - All three options have increased focus in Call 3 compared to Call 2, if the number of projects in each call is taken into account.
- **Two options were replaced:**
 - Instead of asking about *Interviews* and *Focus groups*, we asked about more specific towards stakeholders on *Subjective engagements* and *Ethographic inquiries*.
- **Four new options were introduced:**
 - *Use cases, scenarios and and case studies*; the use of *Twinned systes or simulators*; *Technology or economic enablers*; and the use of *Data from external sources*.
- **The option on using *Questionnaires* was removed:**
 - However covered to some degree by the above (addressing stakeholders).

Trials and experiments		Measurements on deployed networks	Assessment by subject matter experts
54.5%		33.3%	15.2%
Lab	With users	46.7%	33.3%
80%	40%		

Vision, V4:**How do you contribute to the 6G Vision in your project?****Insights**

- Projects are focusing on *transition from 5G* to sustain and enhance 5G innovations
- The *integration of new service capabilities* is also important

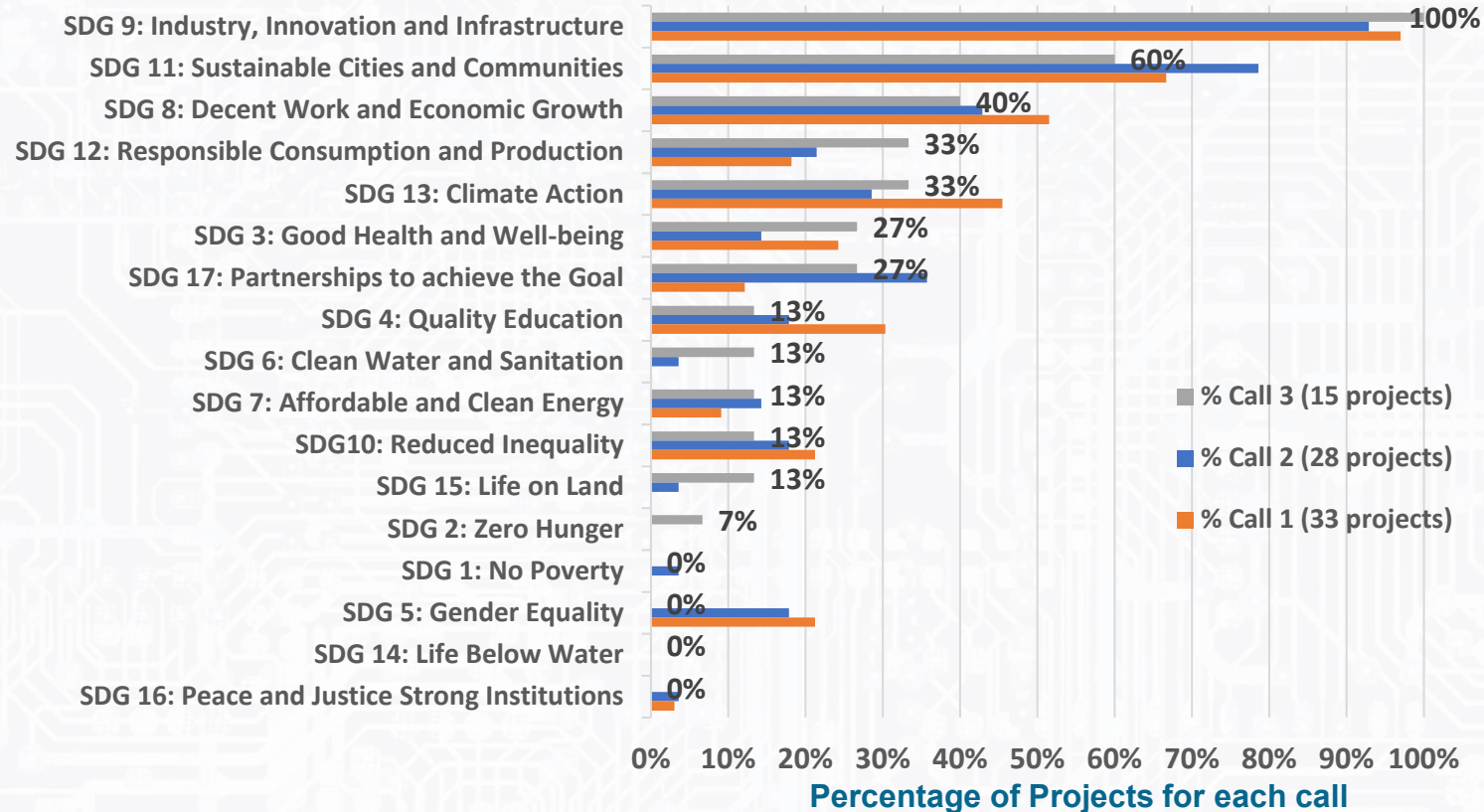
Options in Call 3 are different from Call 2, reflecting the development in the objectives of the work programme

One project mentions:

Advancing 6G through AI/ML-driven predictive wireless communications; Development and standardisation of novel antenna concepts; Creation of open, disaggregated network architectures.

Vision, V5:

Which UN Sustainable Development Goals (SDGs) will your project contribute to?



Insights

- The SNS Work Programme is specifically asking for contributions to 4 SDGs and *all 4 of them are on top*
- There is a *significant increase* in support for SDGs 12, 6, 15 and 17 from call 1 to call 3
- There is a *significant drop in* support for SDG 5 from call 2 to call 3

Compared to the 2023 and 2024 survey of Call 1 and Call 2 projects:
Same SDGs on top: 9, 11 and 8. Some changes in order between SDGs 12, 13 and 17.

Open comments to the Vision section from the projects



- **A “Network of Networks” vision:**

- “... intelligent, distributed, and modular 6G ecosystem that seamlessly integrates terrestrial and non-terrestrial networks (NTNs), ensuring scalability, resilience, and ultra-low latency.”



- **From performance to purpose:**

- “... the emphasis on semantic and goal-oriented communications ... a major paradigm shift from traditional performance-centric networking toward intelligent, efficient, and purposeful communication, which significantly reduces network resource usage, enhances energy efficiency, and contributes to overall sustainability.”



- **The importance of data:**

- “Remove the barrier of 6G dataset scarcity, by building the first comprehensive 6G Dataspace.”



- **European sovereignty:**

- “... addressing European Technology Sovereignty from Silicon and III-V Processes foundries to Networks in a vertical value chain.”



THANK YOU FOR YOUR ATTENTION



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