



Live Demonstration Event

02 Mar 2023

Poll results

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- Is SATCOM a key enabler for the missions and applications of interest for your organisation?
- Has the use of SATCOM increased over the last 3 years in your organisation?
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- What are the main barriers which may prevent or delay the use of GOVSATCOM services?
- What are the key technological trends that will drive the adoption of the GOVSATCOM services?
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- Which technological gaps do you consider that EU Research and Innovation should prioritise to support a quick uptake of secure SATCOM in EU?

Is SATCOM a key enabler for the missions and applications of interest for your organisation?

038

Yes, regularly as the main communication technology



Yes, when terrestrial communication means do not exist



Yes, when terrestrial communication means are not reliable enough



No



I don't know



Has the use of SATCOM increased over the last 3 years in your organisation?

0 4 5

Yes, substantially (< 30%)



Yes, moderately (10% - 30%)



Yes, marginally (5% - 10%)



No / I don't know



Will your user community keep using legacy solutions together with GOVSATCOM services?

0 4 2

No, they will likely rely on GOVSATCOM services only

 5 %

Yes, they will likely use both

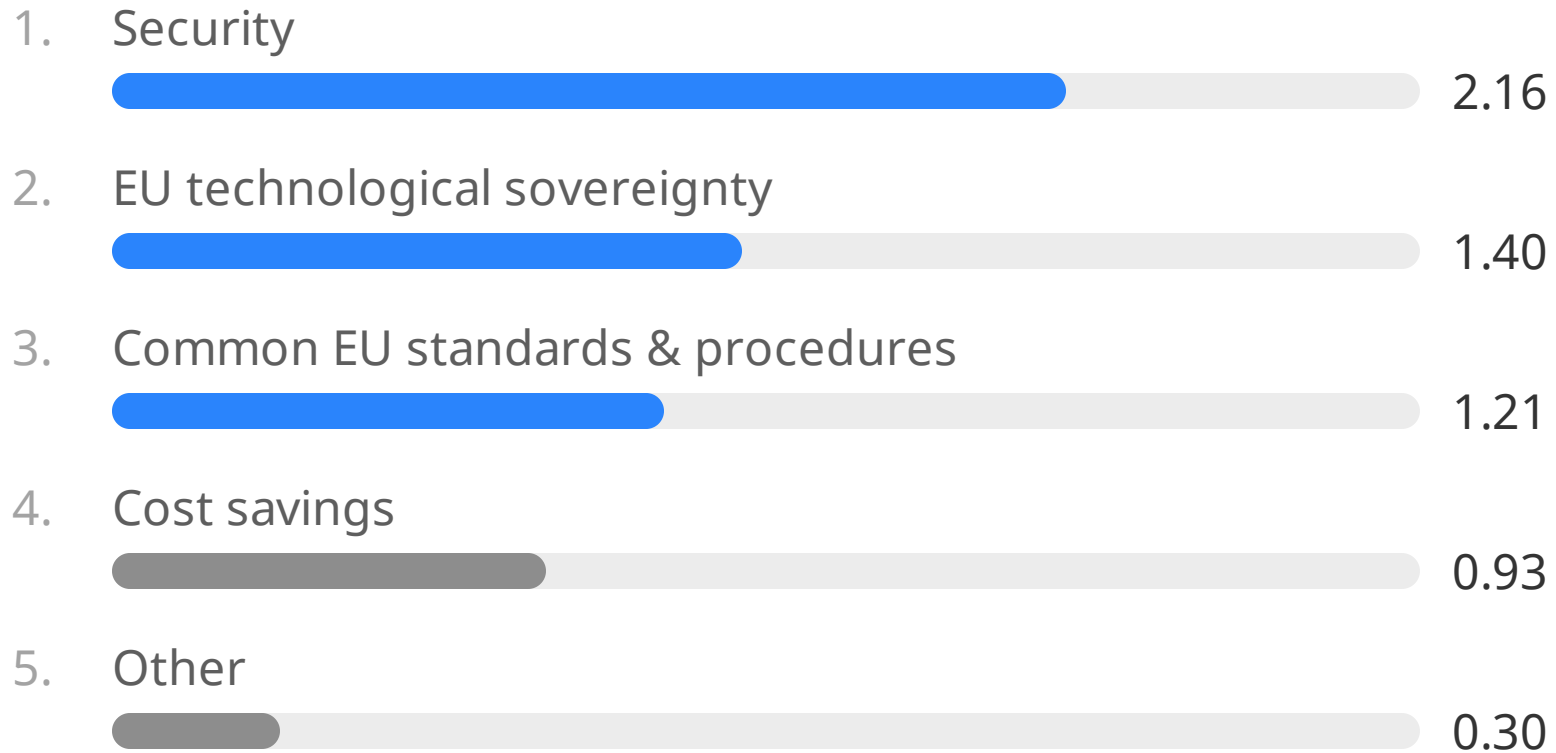
 79 %

I don't know

 17 %





In your opinion, what are the main factors that will drive the use of GOVSATCOM services?

0 4 3



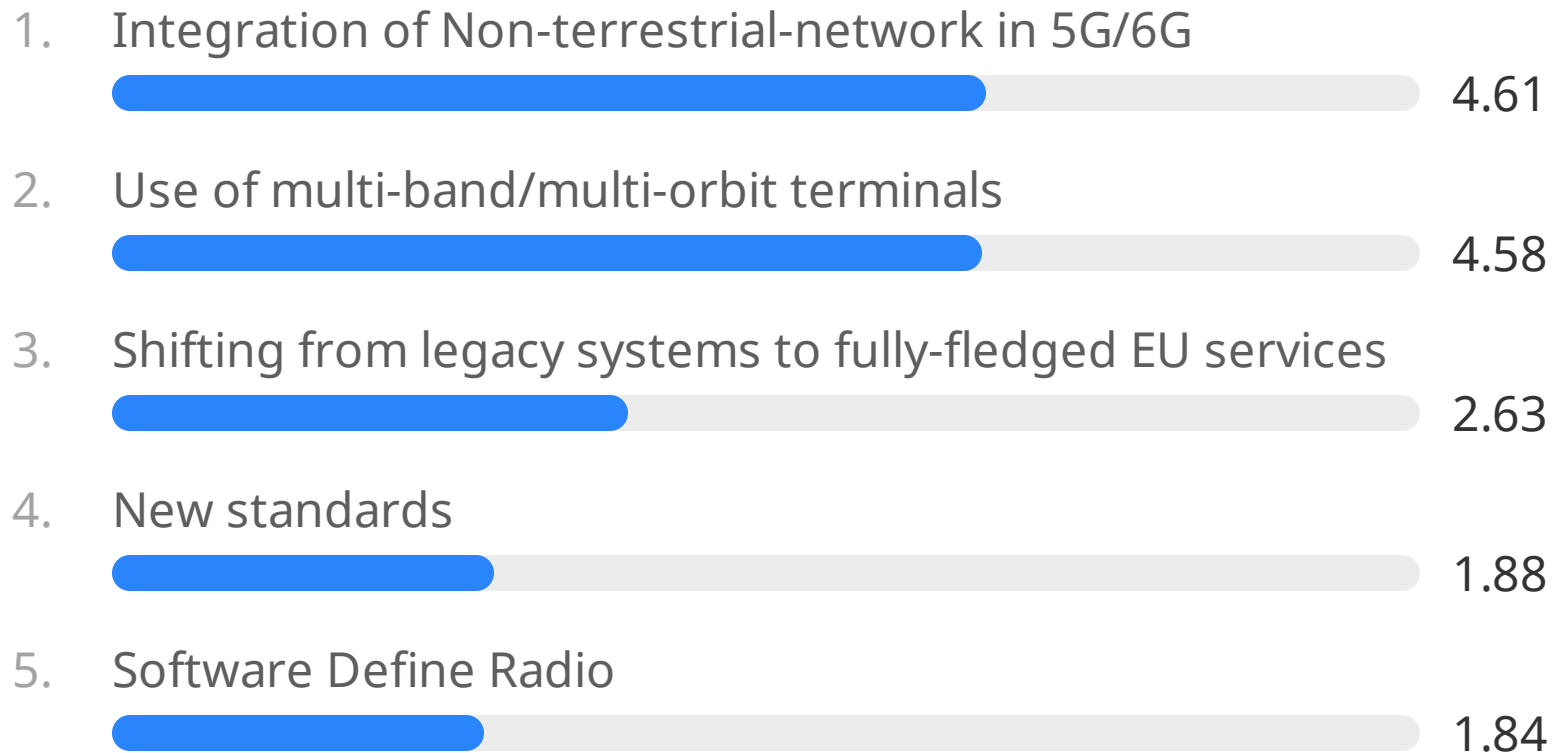
What are the main barriers which may prevent or delay the use of GOVSATCOM services?

0 4 3

1. Operational (e.g., interoperability, lack of standardisation among different technologies, staff training, etc.)
 2.07
2. Regulatory (e.g., policy or legal barriers, establishment of the national GOVSATCOM Competent Authority, etc.)
 1.79
3. Economic (e.g., cost of terminals, product lifecycle, existing/running contracts, etc.)
 1.77
4. Other
 0.37

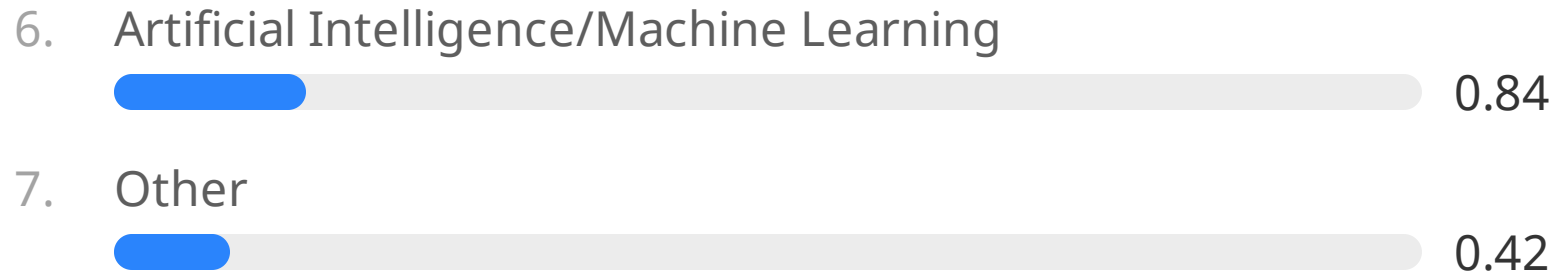
What are the key technological trends that will drive the adoption of the GOVSATCOM services? (1/2)

0 4 3



What are the key technological trends that will drive the adoption of the GOVSATCOM services?
(2/2)

0 4 3



0 3 2

What type of terminals (e.g., fixed terminals, on-the-move terminals, portable terminals or other) are necessary for your organisation? Do you already own such terminals or is it an investment that your organisation is planning make?

(1/3)

- Leasing because of operating system and Security updates are for only limited time available.
- Mobile & fixed suitable for maritime environment
- Portable terminals at this time. In the future, on the move terminals will be useful for the Organisation
- Integrated unit delivering a service for emergency responders
- Fixed
- All kind of terminals are necessary and owned by my organization.
- Fixed and on the move. Already owned but more to acquire more on the move
- NTN terminals
- Not necessary for the Dutch fisherie Monitoring Center (FMC).
- All type of the terminals.
- All 3. Fixed and on the move
- All types
- All types are needed.

0 3 2

What type of terminals (e.g., fixed terminals, on-the-move terminals, portable terminals or other) are necessary for your organisation? Do you already own such terminals or is it an investment that your organisation is planning make?

(2/3)

- Mobility is must.
- Mostly on-the-move and portable (vehicals and persons).
- All types, with focus on quick deploy
- On the move, portable Planning
- Standard 3gpp with NTN
- On-the-move and portable
- Fixed terminals, on-the move terminals, portable terminals. Not yet.
- On-the-move
- Fixed, on the move and portable. Preferable as a service when the need arises.
- Portable/manpack
- Maritime
- Fixed, owned.
- Quickly deployable
- All the type of terminal will be used in the future
- On the move terminals for terrestrial naval and aerial assets
- Fixed multi-orbit

0 3 2

What type of terminals (e.g., fixed terminals, on-the-move terminals, portable terminals or other) are necessary for your organisation? Do you already own such terminals or is it an investment that your organisation is planning make?

(3/3)

- multi-band terminals
- On-the-move and fixed Yes, we own such terminals
- All type of terminals pending on the use case and specific requirements
- 1. Fixed and movable. 2. Integrated with all communication methods. Terminals should be COTS.
- All 3 are necessary We already
- have fixed and on the move terminals
- Portable
- On the move and/or portable. I don't think we have those yet.
- Both fixed installation to vehicles but also portables
- On-the-move
- Fixed. No. My organisation is not yet considering the investment in SatCom terminals.
- Portable

What are your suggestions or recommended actions that could foster the uptake GOVSATCOM services in the near future?

0 2 9

(1/4)

- Look at existing SATCOM services that could potentially become GOVSATCOM (or not)
- Keep it simple.
- Explained on users language and terms, practical. No tech yargon.
- LEO satellite services available before 2027
- Workshops focused od specific user groups and incorporating specific needs of those groups. So far the technology is great but quite common for "solving itself" easily.
- Easy, cheap training packages using many formats, onsite online hybrid
- more information about the technical solution
- Procurement from European manufacturers
- Sensible definition of Requirements on GOVSATCOM and IRISS to make it as accessible as possible. Also more workshops involving users in demonstrations of capabilities.
- Training services

What are your suggestions or recommended actions that could foster the uptake GOVSATCOM services in the near future? (2/4)

0 2 9

- Share benefits of use
- More information change, interoperability services
- Avoid heavy security requirements
- Seamless connectivity
- Promote and elaborate on the benefits of the specific project
- Manage expectations, as capacity will come at a cost
- Interoperability of terminals and satellites. Trusting between actors. Easy of use and deploy. Robust services.
- User friendly booklet to be distributed to national users
- Easy access to Govsatcom services, well defined processes, interoperable standards and interfaces, complete range of Govsatcom services, well defined SLAs
- Publicity
- Cost effective terminals and services, coupled with new regulations on communication
- LEO satellites and broad range of terminals

What are your suggestions or recommended actions that could foster the uptake GOVSATCOM services in the near future? (3/4)

0 2 9

- More demonstrations including GCA proces. Especially when GSC becomes operational.
- Define the MRD(x)
- Include 5G/6G NTN
- Cheap and daily-basis used service - new normal, just one communication means in your work.
- Enable and support national space and telecom entities to act as promoters to users in their countries
- Promotion
- Reduce size of equipment
- Standardization and easy access to needed equipment
- Stronger coordination between european countries
- More visibility on the market.
- Workshop Luxembourg
- Foster development of cost efficient terminals
- Actions to broaden and strengthen European supply of GovSatCom terminals
- More information & promotion
- Aim for low barriers to entry, as

What are your suggestions or recommended actions that could foster the uptake GOVSATCOM services in the near future?

0 2 9

(4/4)

far as procedures and price are concerned

- More demos to increase visibility and show system performance
- Keep the time plan of IRISS
- Continue building a trustful user community
- More workshops like this

What GOVSATCOM use cases, which are not considered in the GOVSATCOM perimeter, do you envisage for IRIS2?

(1/2)

- What has the war in Ukraine taught us....
- Quantum encryption
- A satellite of a circular orbit of height of 300 km above the earth's surface for better throughput and indoor coverage
- Dependence of terrestrial terminals
- Arctic coverage.
- Monitoring, forecast (AI)
- Low latency, 5G/6G
- SVoIP
- Low latency / polar regions / QKD
- IRIS² will be a Service Provider of GovSatCom
- Classified communications
- Environmental monitoring in remote areas
- LEO supporting NTN
- Drones, robots
- Polar
- Terminal to terminal communication without going through a ground segment
- Low latency services. Direct-to-mobile (NTN) services.

What GOVSATCOM use cases, which are not considered in the GOVSATCOM perimeter, do you envisage for IRIS2?

(2/2)

- Commercial / critical infrastructure services.
- CIMIC operations
- Broadband internet access
- Worldwide maritime access
- LEO
- Tactical bubbles
- IoT
- Backup service for emergency services
- Low Latency
- None.
- NTN
- Maritime surveillance

Which technological gaps do you consider that EU Research and Innovation should prioritise to support a quick uptake of secure SATCOM in EU? (1/2)

0 1 7

- Affordable secure terminals and intergration with classified networks
- NTN performance and seamless transition. An also development of European autonomy for terminal chipsets
- Stratospheric balloon ..
- Q/V Band capabilities
- Low cost moving terminals.
- Low cost solutions.
- Microchips production
- What tools, systems can be used
- instead of traditional, eg smartphone, tablet...
- User friendly crypto
- Terminals
- Optical communication, Quantum technology
- Low cost, easy to use terminals
- SDR, Flat panel antennas, FPGAs, microchips Mass manufacturing, downsize, flexibility, eu sovereignty
- Micro Launchers, New Launch Capacities Worldwide
- QKD infrastructure development,

Which technological gaps do you consider that EU Research and Innovation should prioritise to support a quick uptake of secure SATCOM in EU? (2/2)

0 1 7

heavy launcher capabilities,
multiband and multi orbit terminals,
managed services, software defined
payload, software defined
waveforms

- Define cyber security requirements on used and related technologies.
- Optical Communication / QKD