

GALILEO USER SATISFACTION SURVEY - 2019



The European GNSS Agency (GSA) launched the third Galileo User Satisfaction Survey between 3rd December 2019 and 14th April 2020. The aim is to gather valuable information regarding:

- perception and expectations about Galileo service.
- the specific needs by the users within different market-related segments and use.
- suggestions for improvement of the European GNSS Service Centre (GSC).

Thanks for your trust and contribution to improving the Galileo service! This survey is intended to give voice to the growing Galileo User Community and build a continuous dialogue for the improvement of the Galileo system and its services.

Galileo is Europe's Global Navigation Satellite (GNSS), System providing improved positioning timing and information, public and serving authorities, businesses and citizens across Europe and beyond.



GALILEO USER SATISFACTION SURVEY - 2019

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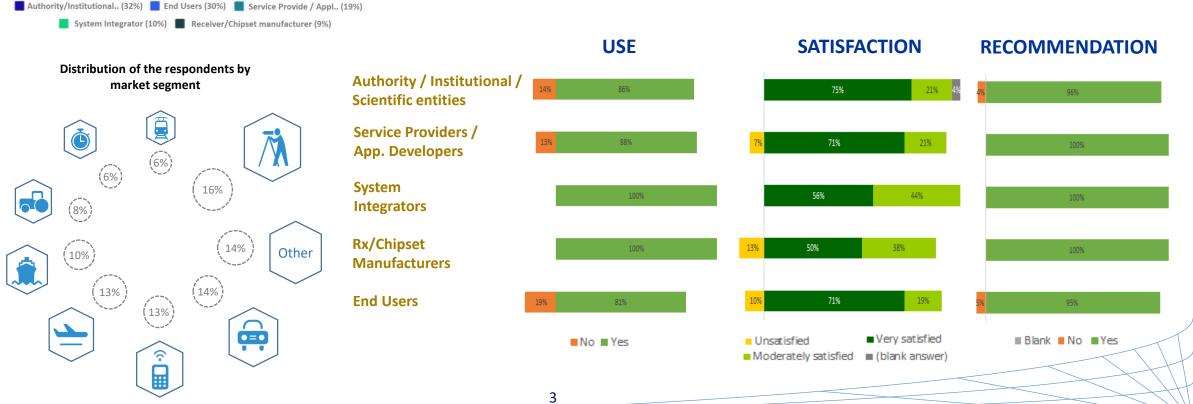
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Distribution of the respondents by downstream actor







FEEDBACK ABOUT GALILEO

Galileo Users

Top-5 reasons to use Galileo

There are more satellites available	83%
It is a European project designed for civil purposes	51%
I experience better positioning performance	50%
Position solution is not lost in harsh environments	37%
My customers appreciate the inclusion of Galileo	29%

Top-5 features expected from Galileo

Better performance (accuracy, availability)	53%
Strong confidence regarding positioning error	51%
Stronger protection regarding jamming/spoofing	41%
Lower time to obtain the first position	29%
More precise timing/synchronization information	21%

Non-Galileo users

Top-3 reasons to not use Galileo	
My device is not Galileo compatible	45%
Galileo cannot be activated in my device (even if it is Galileo compatible)	36%
Other	18%

Top-5 features expected from Galileo

Possibility to get authenticated GNSS signals	82%
Resistance to interferences (jamming, spoofing)	73%
Better performance in harsh environments	73%
Higher accuracy	73%
Less time needed to fix my first position	64%

Most repeated comments: Return Link Service is mentioned several times as an important reason to use Galileo, while expansion of Metadata information and implementation of High Accuracy Services on E6B appear to be important features expected from Galileo in the near future for some users.

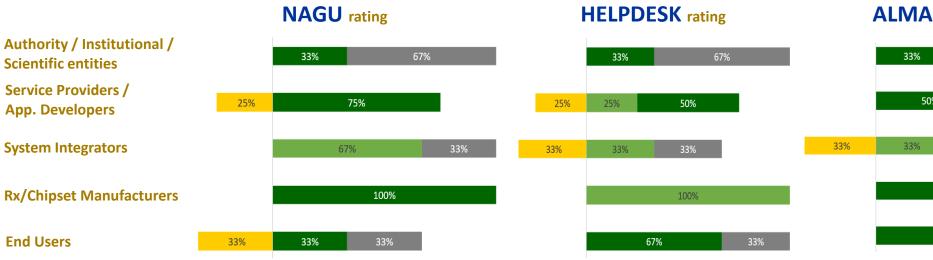
Note: for all questions, users could select one or more answers

GSC-RELATED QUESTIONS

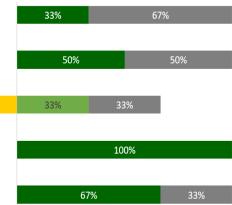
						2019	9 2018	
16% of respondents are	16% of respondents are REGISTERED in the GSC				NAGU satisfaction (1-5 scale)	3.60	4.12	-
Global Statistics					HELPDESK satisfaction (1-5 scale)	3.60	3.57	
		2019	2018		ALMANACS satisfaction (1-5 scale)	4.00	3.91	
KNOW about the GSC		75%	72%					
					ELECTRONIC LIBRARY satisfaction	(1-5 scale) 3.50	4.06	
have VISITED the GSC		49%	57%	•	INCIDENT REPORTS satisfaction (1	-5 scale) 3.30	3.59	
overall ASSESSMENT	for the GSC (1-5 scale)	3.66	3.92	₽	SATELLITE METADATA satisfaction	(1-5 scale) 4.10	4.03	1
	KNOW about the GSC			have VISITED the GSC are REGISTERED in t				
Scientific entities	Authority / Institutional / Scientific entities	71%			32% 39% 29%	11%		
Service Providers / App. Developers	19% 81%			19% 63% 31%	25% 6%			
System Integrators	11%		89%		44% 44%	33%		

Ser Ар **System Integrators** 11/0 **Rx/Chipset Manufacturers** 25% 50% 13% **End Users** 31% 23% 35% ■ (Blank answer) ■ No ■ Yes ■No ■Yes ■No ■Yes 5

FEEDBACK ABOUT GSC SERVICES



ALMANACS rating

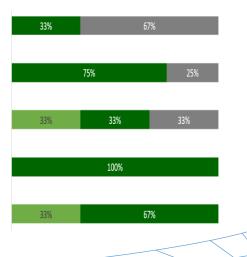


ELECT. LIBRARY rating **INCIDENT REPORTS** rating Authority / Institutional / 33% 67% 33% 33% **Scientific entities** Service Providers / 25% 25% 50% 50% **App. Developers System Integrators** 33% 33% 67% 33% **Rx/Chipset Manufacturers** 100% 100% **End Users** 33% 67% 33%

■ Unsatisfied ■ Moderately satisfied ■ Very satisfied ■ No opinion

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SATELLITE METADATA rating



ACTIONS PERFORMED TO STRENGTHEN THE GNSS SERVICE CENTRE (GSC) (SHORT/MEDIUM TERM)

Some actions have already been implemented to strengthen the European GNSS Service Centre (GSC):

- 1. Publication of the NeQuick G source code as part of the Support to Developers section
- 2. Creation of the SAR Information page, containing the status of the SAR Forward and Return Link Services.
- 3. Addition of the Archive of all the Service Notices published up to now.
- 4. The ongoing process to update the GNSS Simulation and Testing section (formerly known as GSTI), with the forthcoming publication of new tools before end of the year.
- 5. The publication of Success Stories on the use of Galileo by third parties and users segments, something that will be continued in the years to come.

SAR/Galileo Satellites Information

- SAR/Galileo Satellites Information
 Description of the fields
- > SAR Payload Characteristics
- > SAR/Galileo Reference Beacons
- SAR/Galileo Server

The GNSS Simulation and Testing tools database

Tools
User Guidelines
Developer Registration

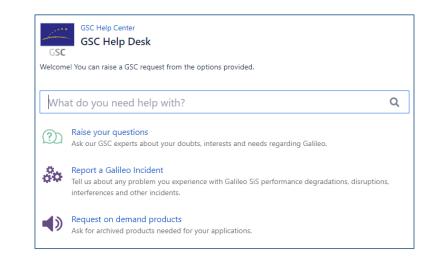
NeQuick G Source Code

Download NeQuick G source code

FURTHER RECOMMENDATIONS TO STRENGTHEN THE GNSS SERVICE CENTRE (GSC) (SHORT/MEDIUM TERM)

The most repeated comments regarding the European GNSS Service Centre (GSC) have generated the following recommendations.

- 1. To further explain the purpose of the Incident Reports service or to re-scope it to avoid confusion with NAGUs Provision Service.
- 2. To provide more information in cases of outages or similar situations.
- 3. To implement new user support tools in the GSC (such as graphics for Galileo performance, tools for Galileo representation, training resources, etc.).
- 4. To provide information (guidelines, training) on Galileo activation on different devices.
- 5. To improve content differentiation between GSA and GSC web portals.



RECOMMENDATIONS FOR ACTIONS TO STRENGTHEN THE GNSS SERVICE CENTRE (GSC) (SHORT/MEDIUM TERM)

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- 6. To include in the GSC web portal timely information on future Galileo services under development.
- 7. To offer additional technical data on the Galileo Satellite Metadata page.



THANK YOU!



European Global Navigation Satellite Systems Agency

www.gsa.europa.eu



Linking space to user needs





