

Instructions

Go to

www.menti.com

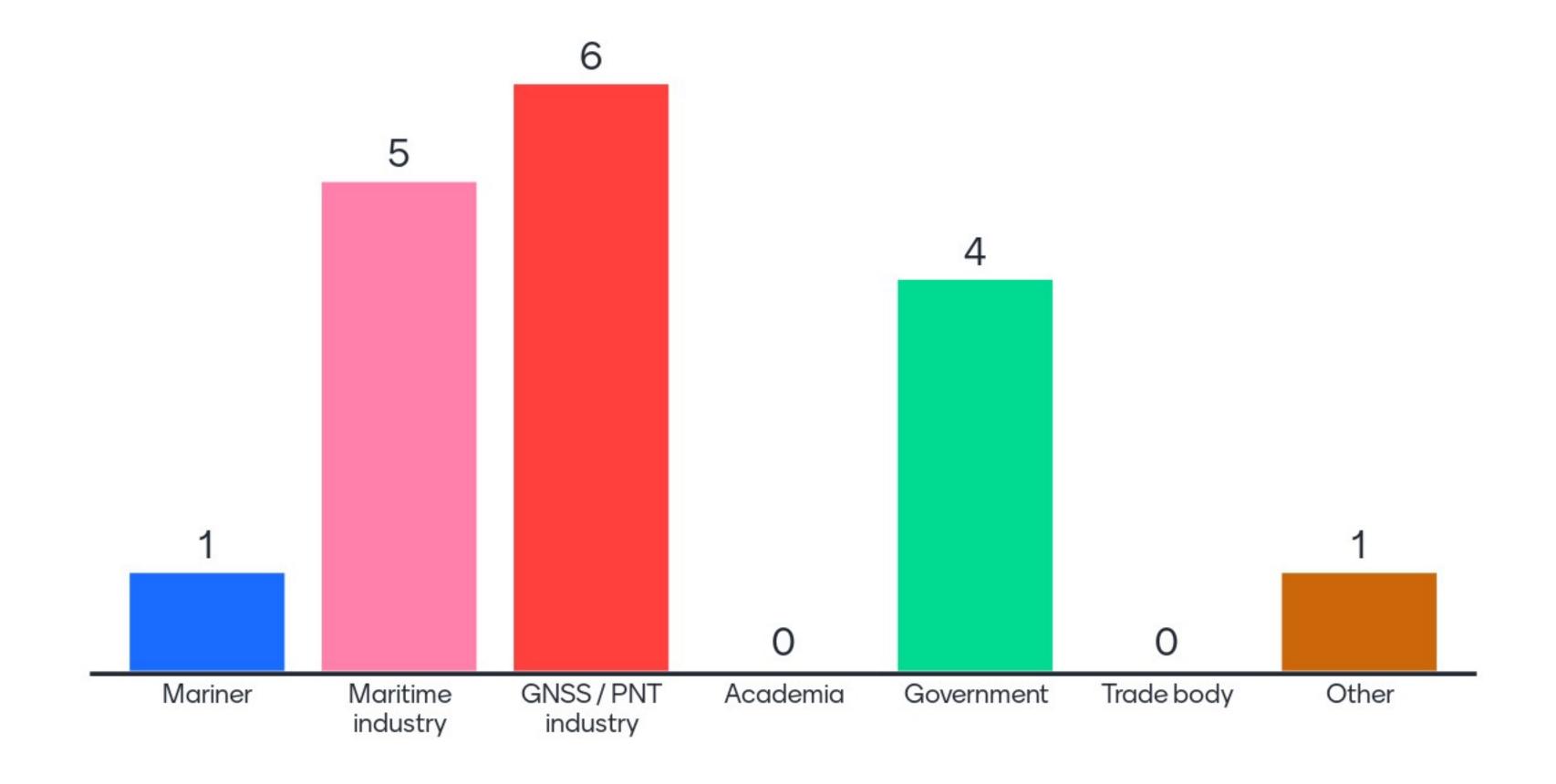
Enter the code



Or use QR code

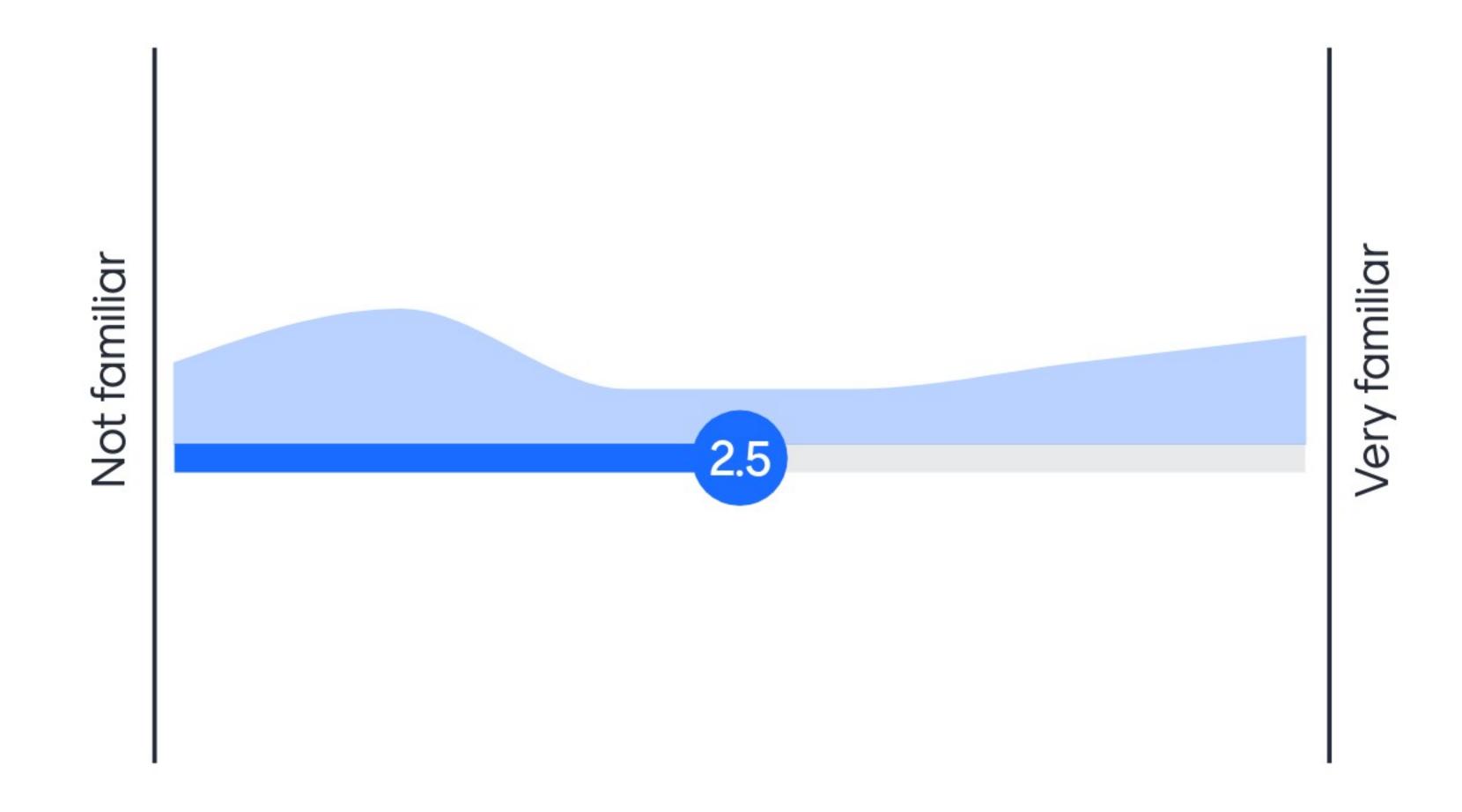


Which best describes your organisation?





How familiar are you with MarRINav?





What does "integrity" mean to you?

Reliable

Available Assurance Reliable quality

Accurate The ability to "trust" what you are seeing

Alert in event of performance out of spec

Trust. Also not well understood generally. Often misinterpreted



What does "integrity" mean to you?

Trust from user

Trustworthy

A key element of safety at sea

It will reliably work when needed

The degree to which we can trust (PNT) systems on which we rely.

Trust

The trust you can have in a position

Washington

Trustworthy



What does "integrity" mean to you?

Understanding system performance in terms of reliability

Flag for user

Always available

Honest and reliable

Trustworthy

Hi love, what's for dinner tonight?

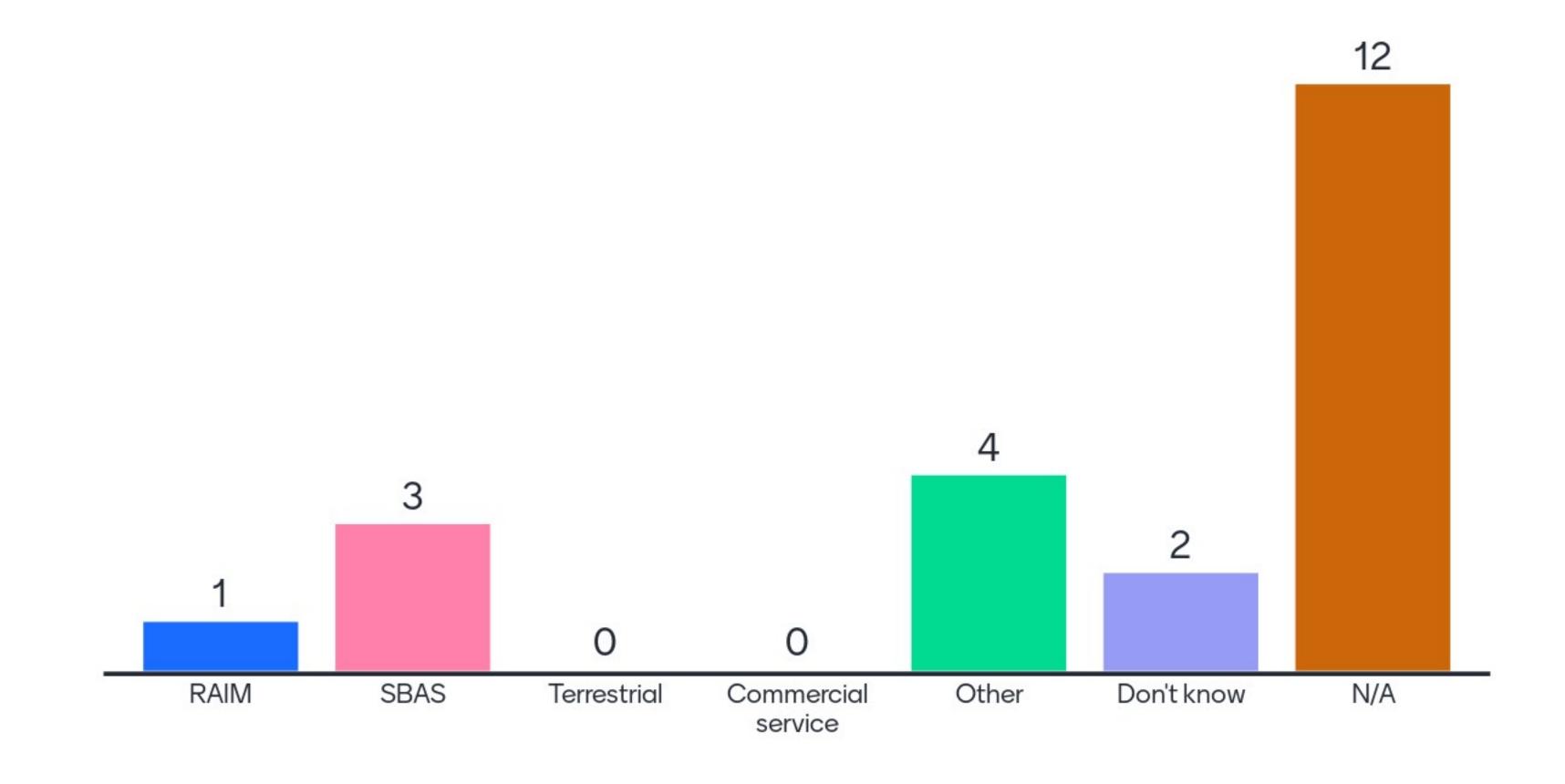
Fault detection and safety. The ability to Alert the user in time.

Needs an accurate definition!

Quality operation

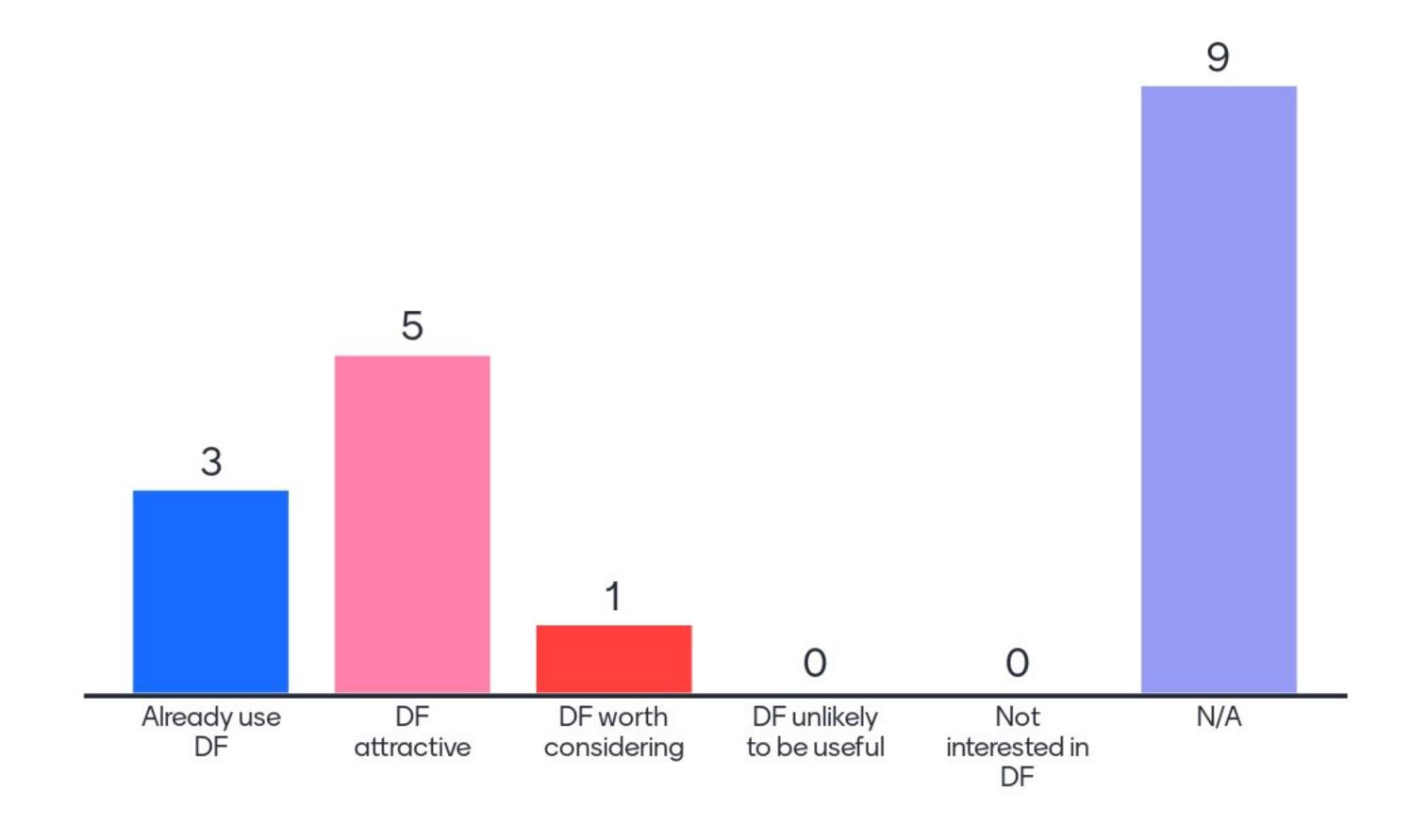


What is your source of integrity?



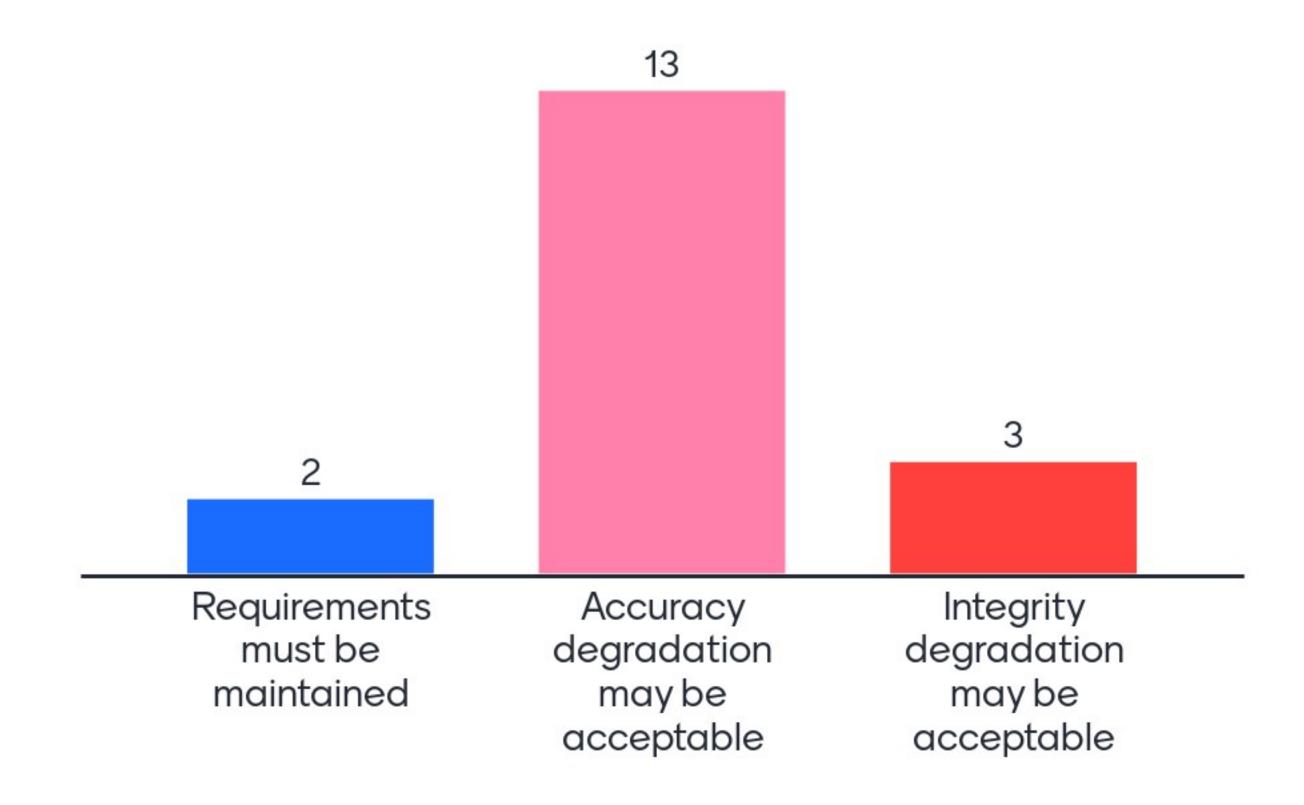


Dual frequency (DF) benefits



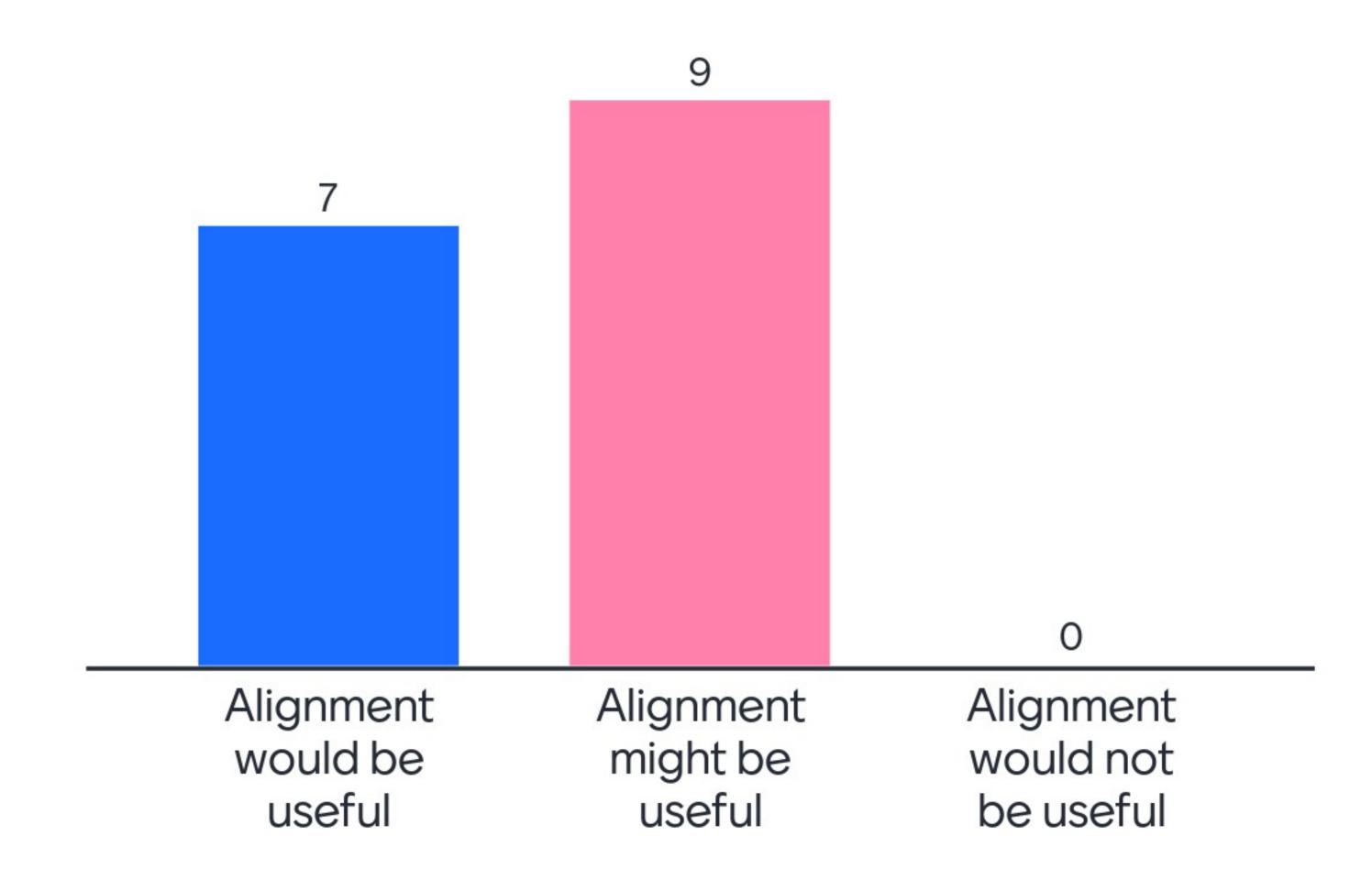


Accuracy and integrity degrade with distance from shore



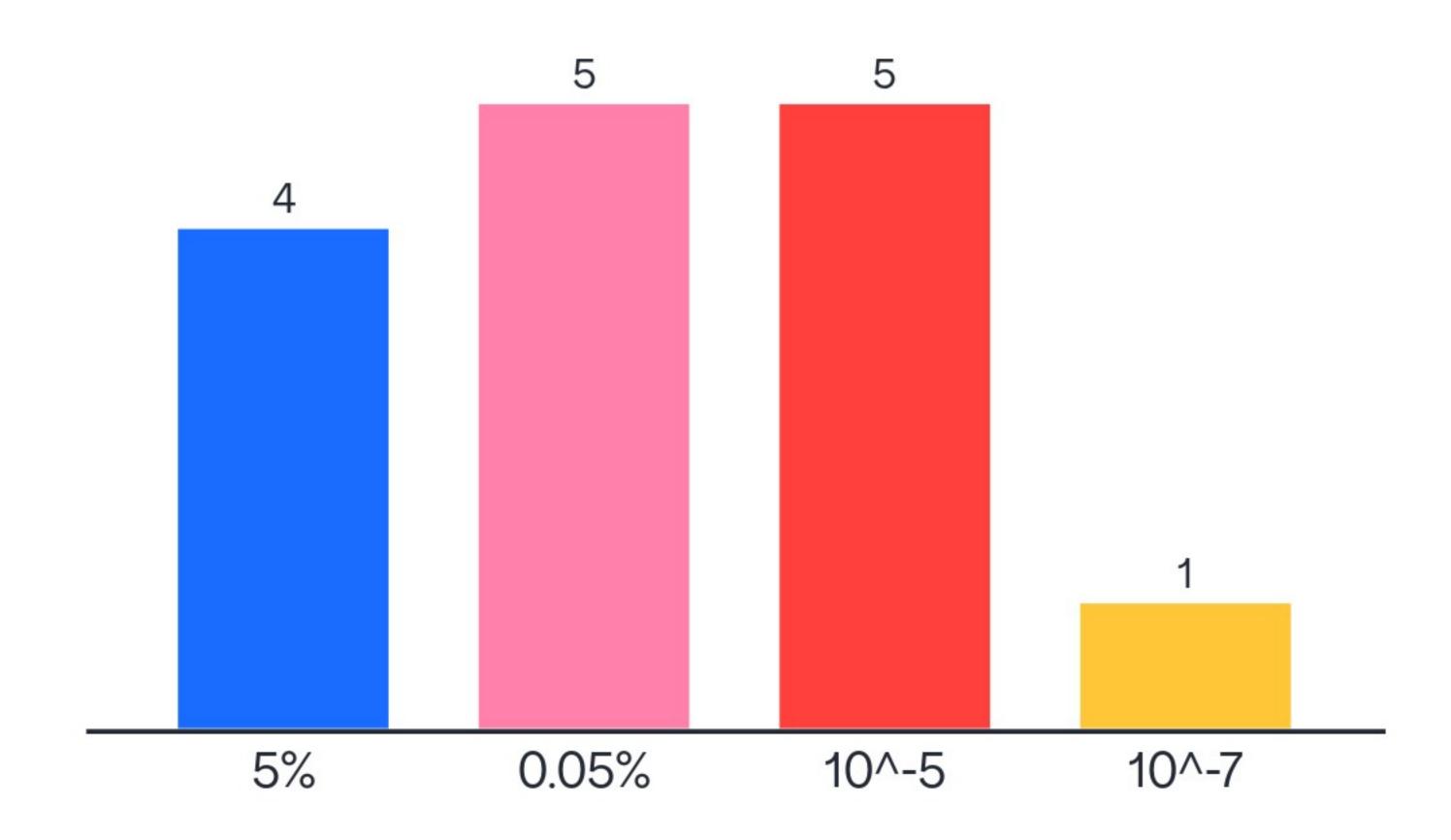


Time alignment UTC to GPS or Galileo



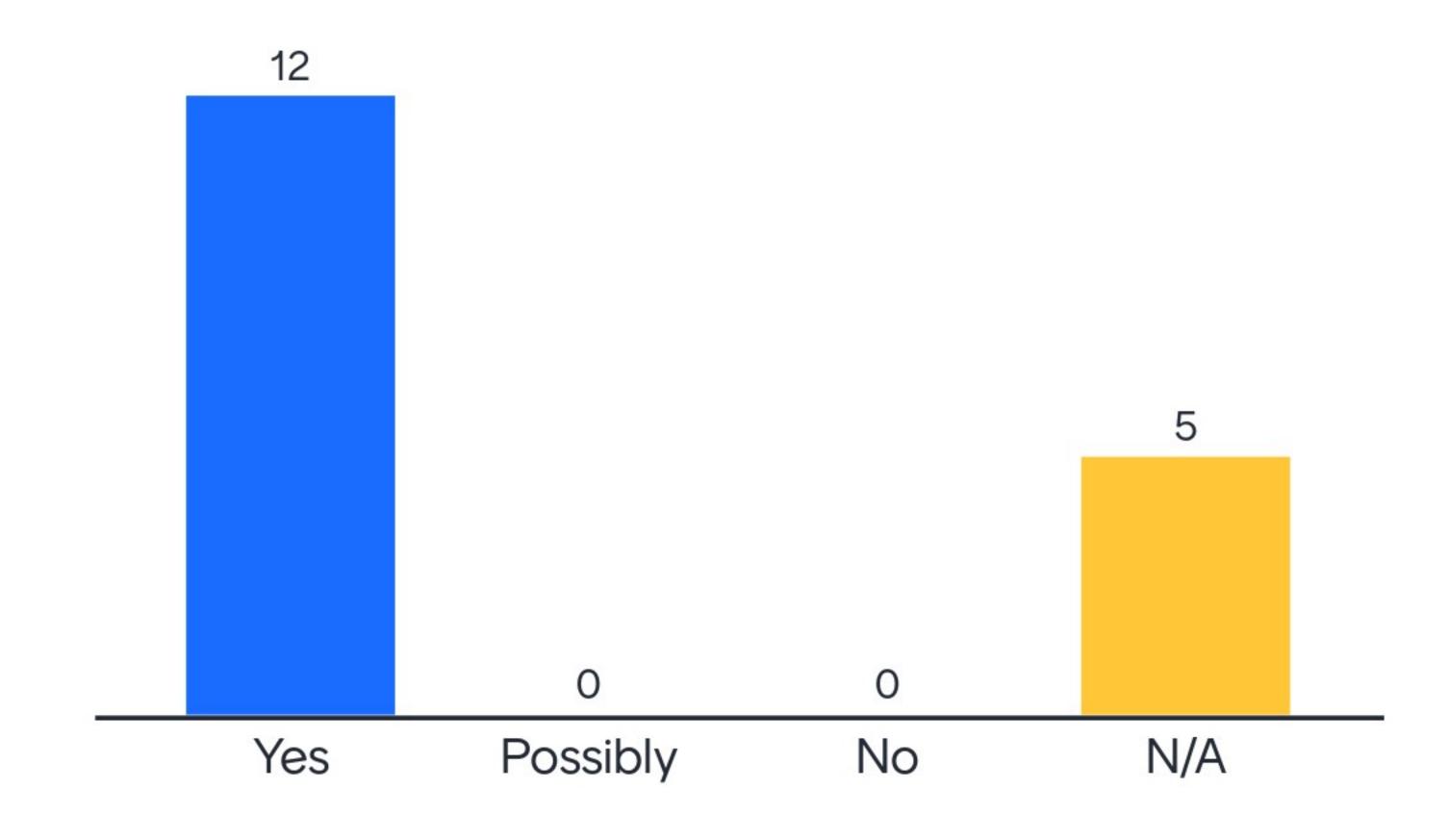


What residual integrity risk is acceptable?



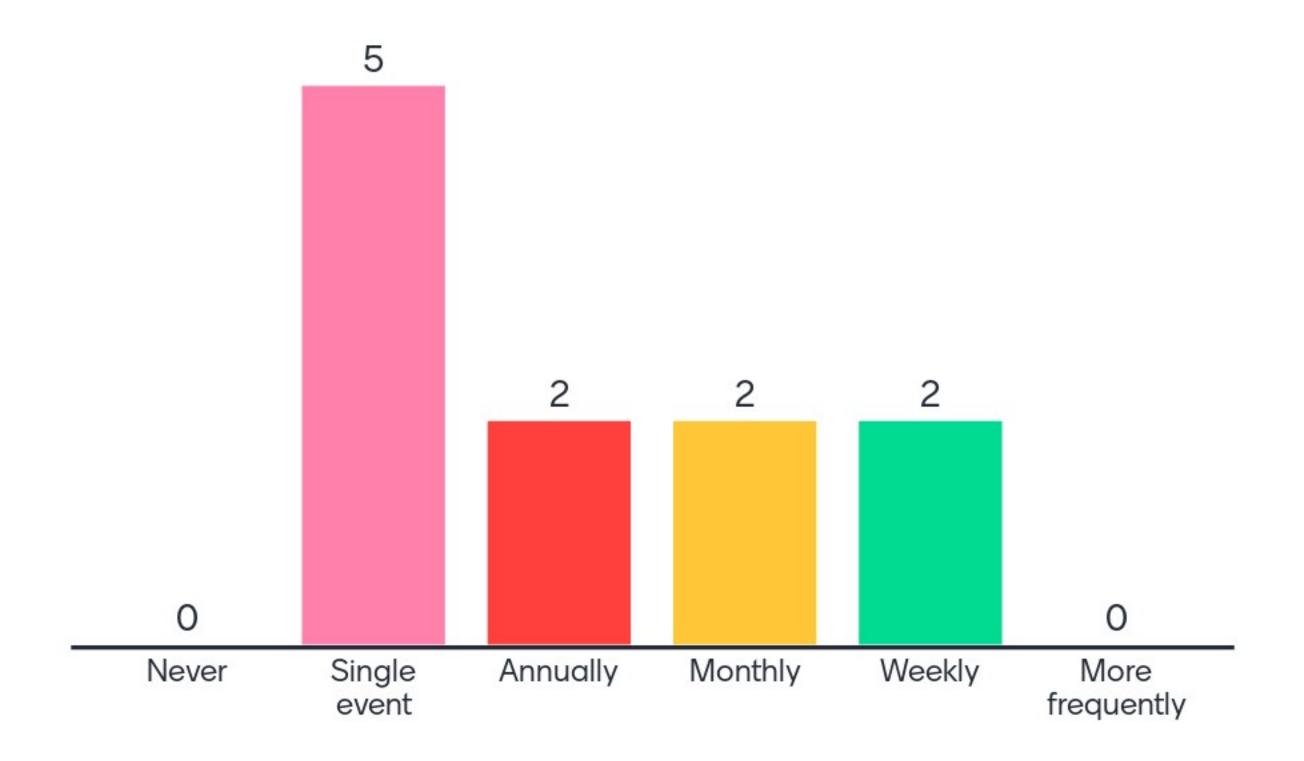


Have you ever experienced GNSS failure?



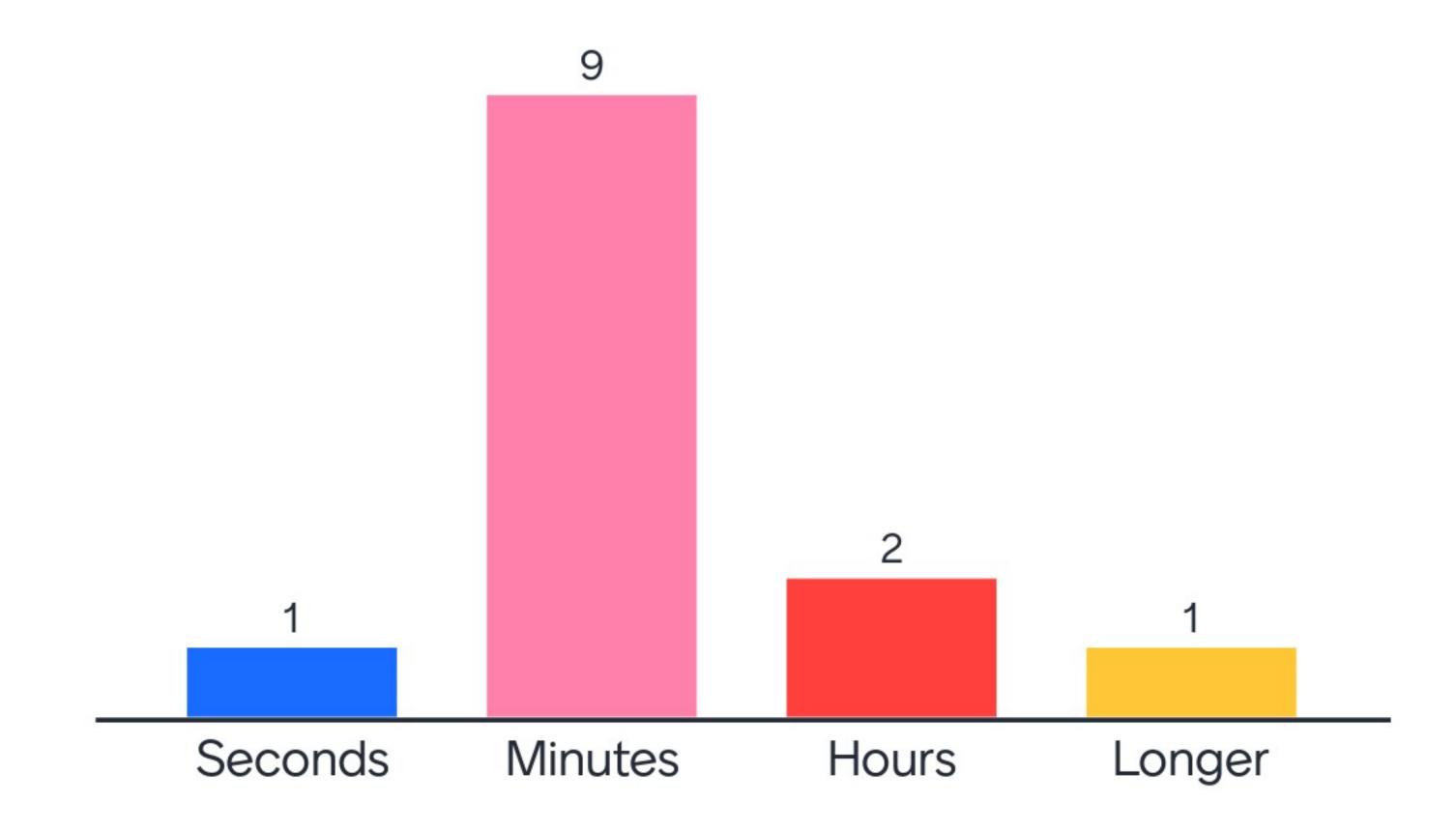


How often (if ever) have you experienced GNSS **Mentimeter failures?





Hoe long was the GNSS failure?





How widespread was the failure?

 Not sure
 Regional
 Galileo system failure was global

 Don't know.
 Apparently localised. (Port)
 Don't know

 Own ship
 Regional
 Localised - probable "white van"



How widespread was the failure?

GPS system errors have been regional/hemispheric

Need lateral thinking to continue mission

Own vessel

Regional failure has been the worst though as a mariner you experience daily 'glitches' Not sure. appeared localised, but we did not move from the vicinity during the failure

Never sure if it's operator error or system / equipment failure

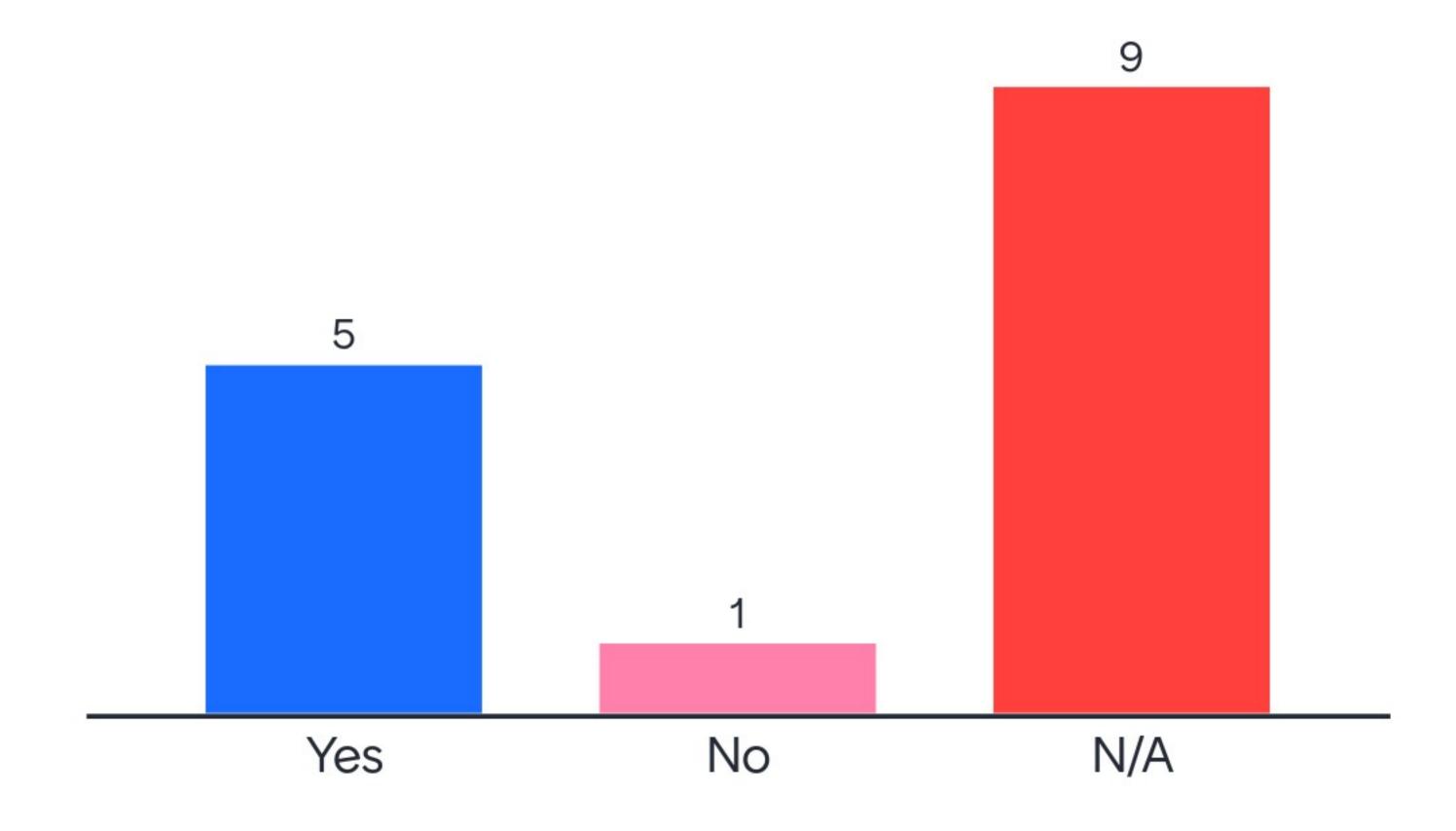
Picnic

Just my yatch



Has anyone experienced integrity failures?

Mentimeter





If yes, what was the technical impact?

Insufficient nav accuracy for mission

Minimal, we transitioned to alternative fixing methods

Had to look out of window

As integrity not routinely used in maritime, impacts challenging to quantify

As a mariner it is 'in your bloodstream' to suspect information given and adapt

Insufficient update to inertial sustems

Erroneous GPS position on ECDIS

Unknown

Technical impact was an alarm and then using an alternative source to verify position



If yes, what was the technical impact?

Na

None



What was the financial impact?

Nil	NQ	NQ
None	Unquantified	None
NQ	N/A	None

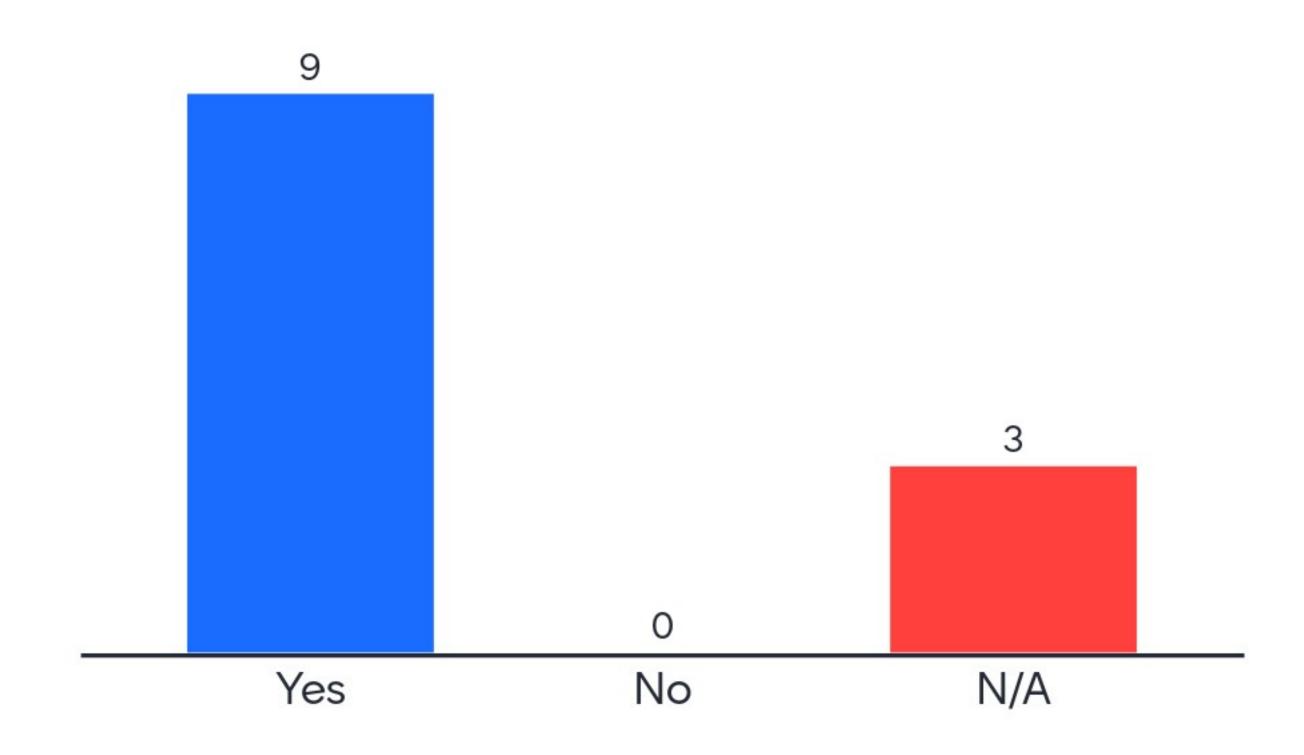


What was the financial impact?

£4.26



Does anyone take action beyond SBAS to improve integrity?





If you are paying for better integrity, how much?



N/a

N/a

N/A

N/A

15k a year (RTK)

They pay me

Should be included in system cost

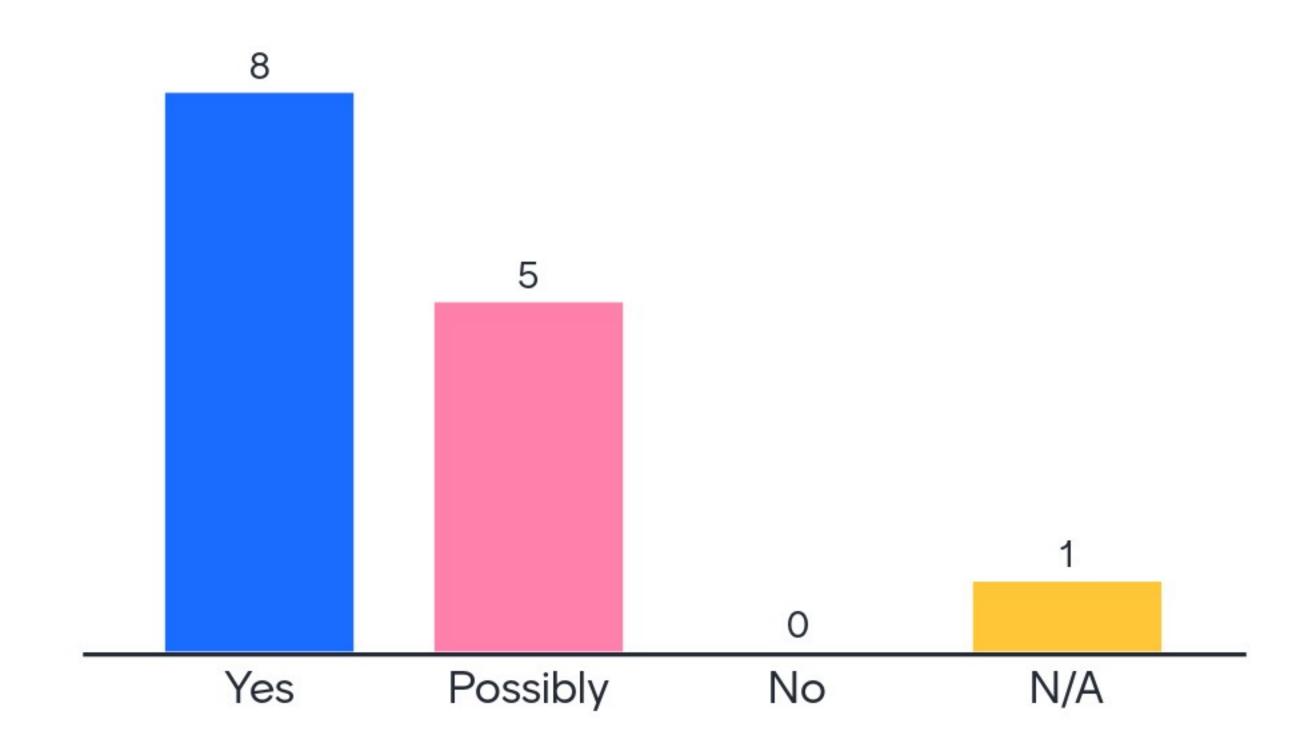
Paying in staff training and skill so cannot be quantified

N/A

£3.67



Would better integrity enable more efficient operations?





If yes, what would better integrity enable?

Greater confidence

Autonomous navigation

More rapid decision making

Pilotage in restricted visibility

Trust leading to optimised operations

Mitigate human error

Room for maneuver

Understanding of risk

Confidently Squeezing more activity into a confined, high hazard space



If yes, what would better integrity enable?

Confidence in connectivity.

System confidence

Longer at the ukkers table

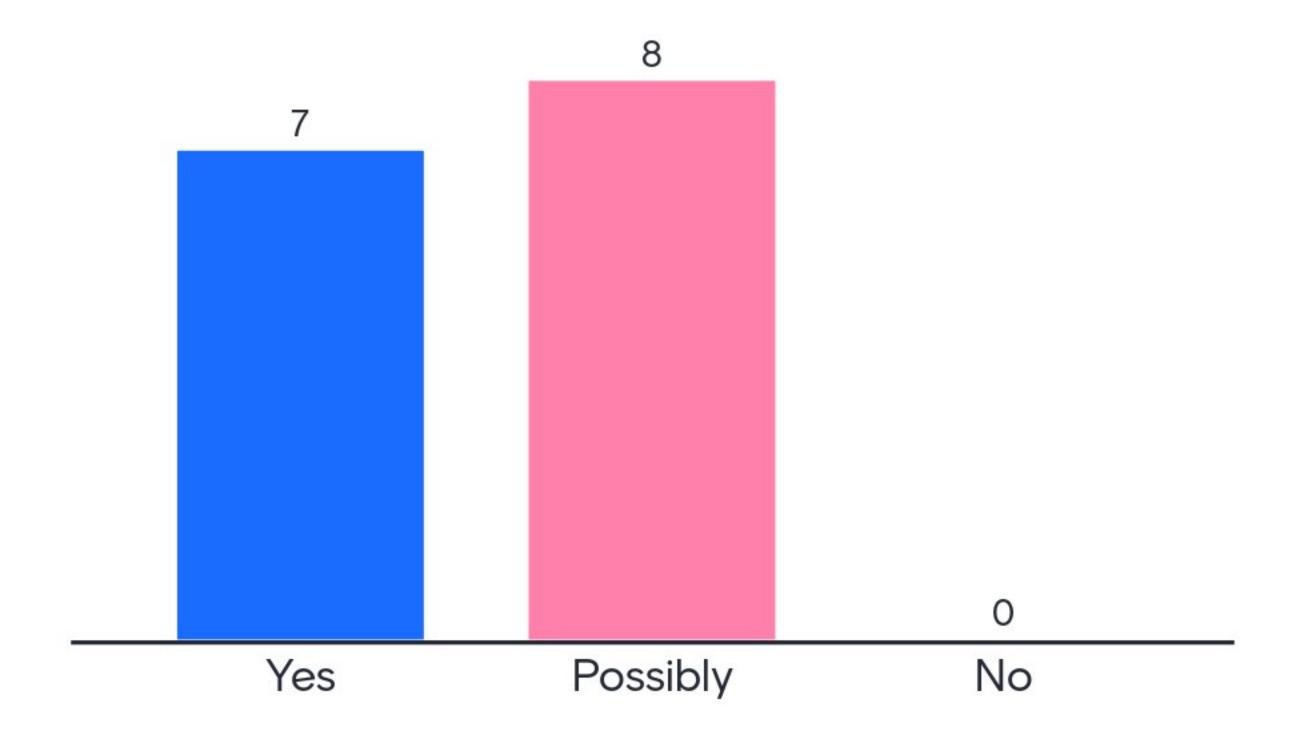
MASS, greater efficiency, better situational awareness

Integration of crewed and uncrewed activity in the same (busy) space

What times lunch?



Could an INSPIRe solution replace a commercial integrity source?





Are there any other use case you would like considered?

Any other comments?



