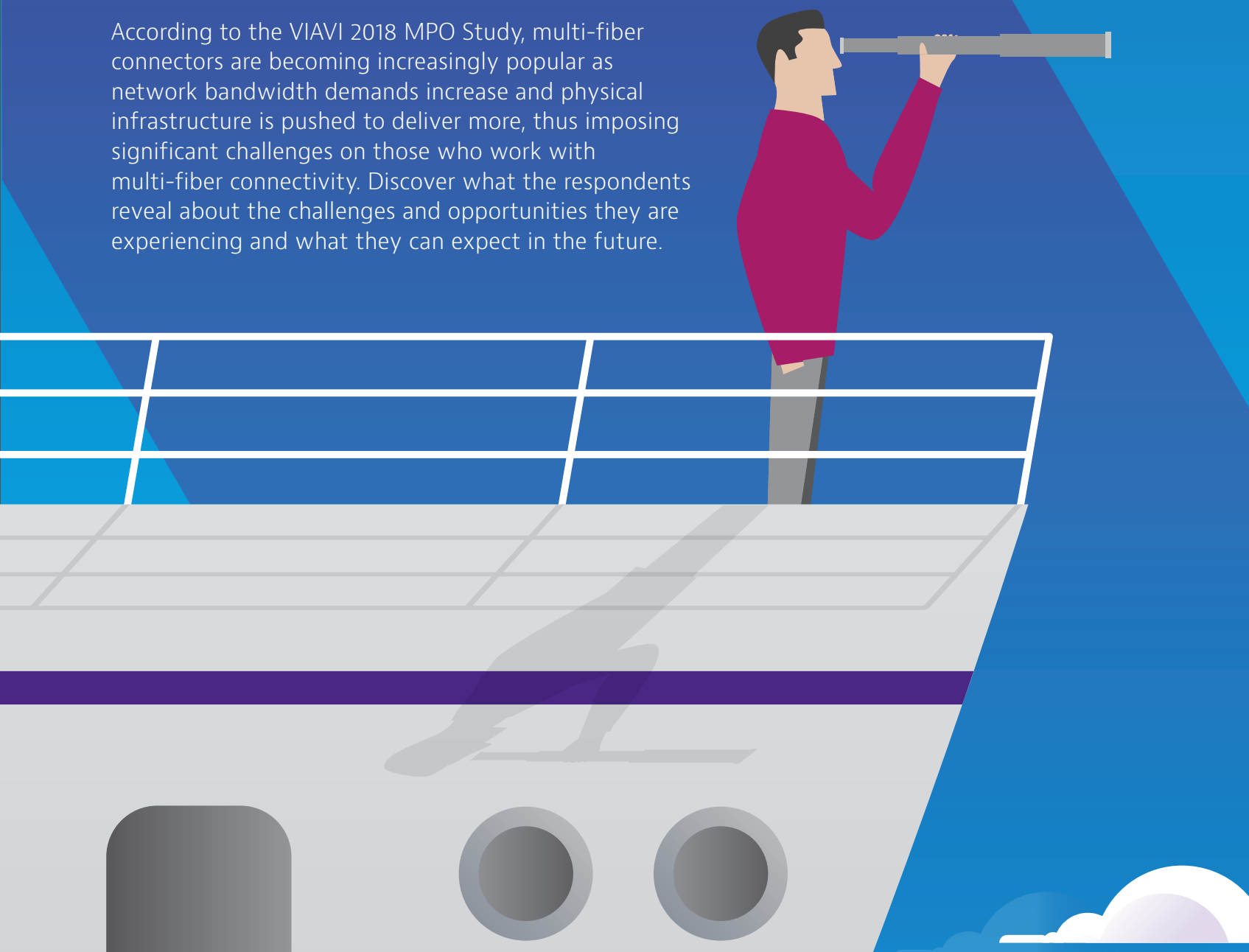
Infographic

Navigating MPO Waters

VIAVI Solutions

Designers, Installers, and Operators of Fiber Networks with MPO Connectivity Highlight Trends and Challenges

According to the VIAVI 2018 MPO Study, multi-fiber connectors are becoming increasingly popular as network bandwidth demands increase and physical infrastructure is pushed to deliver more, thus imposing significant challenges on those who work with multi-fiber connectivity. Discover what the respondents reveal about the challenges and opportunities they are experiencing and what they can expect in the future.



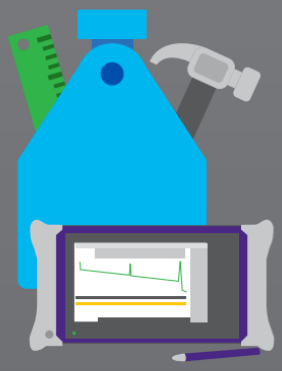
All Aboard

MPO is prevalent across multiple market segments and job responsibilities.

- Cabling Contractor
- Service Provider
- Internet Content Provider
- Large Enterprise
- Government
- Aerospace & Other

Job Responsibilities

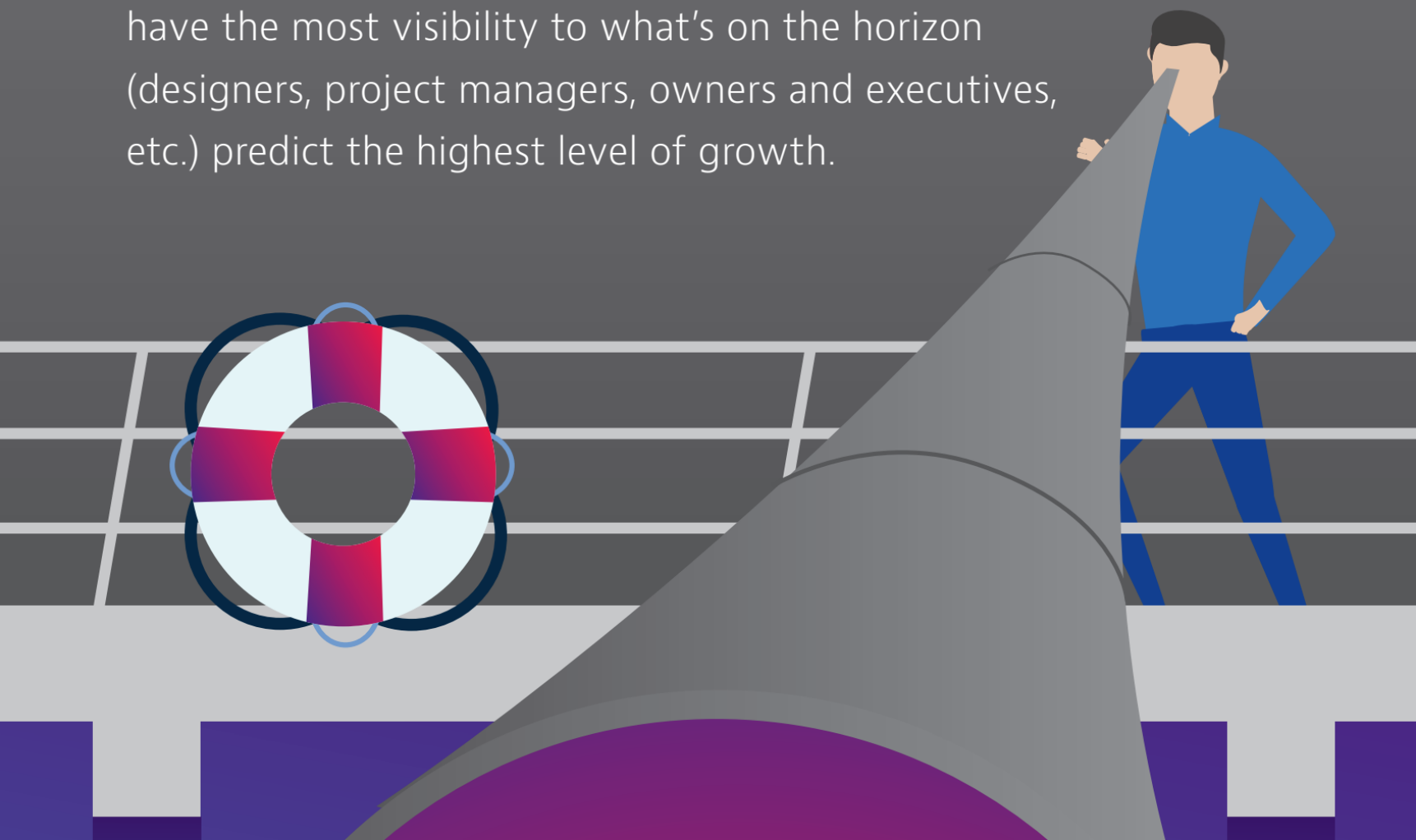
Owner/Exec
Design Engineer
Project Manager

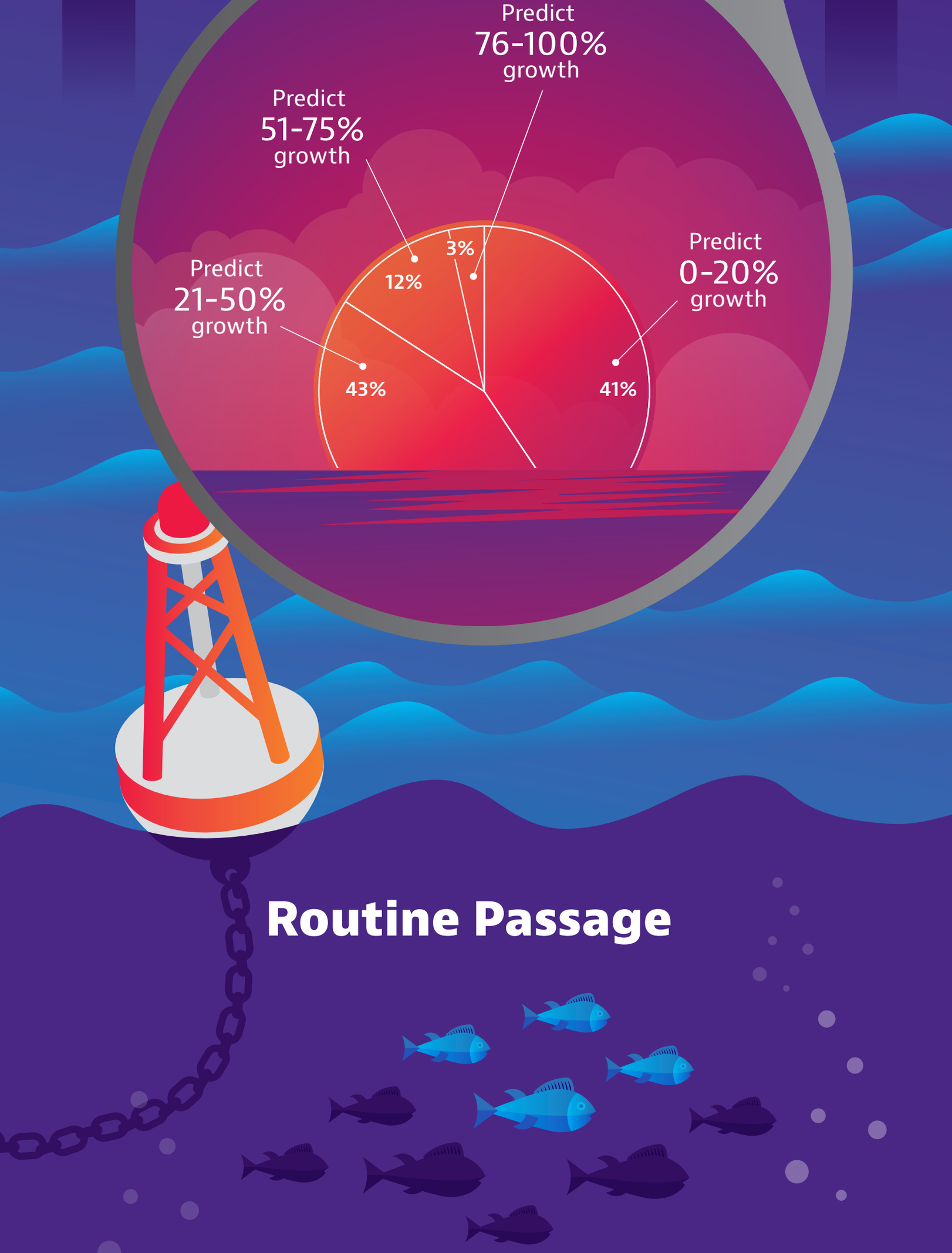


Installation Technician
Maintenance Technician
Design Engineering Consultants
System Integrators
Equipment Manufacturers

MPO: More than just on the horizon

Over half of the respondents predict MPO will grow by over 20% in the next three years. Captains, or rather those who have the most visibility to what's on the horizon (designers, project managers, owners and executives, etc.) predict the highest level of growth.



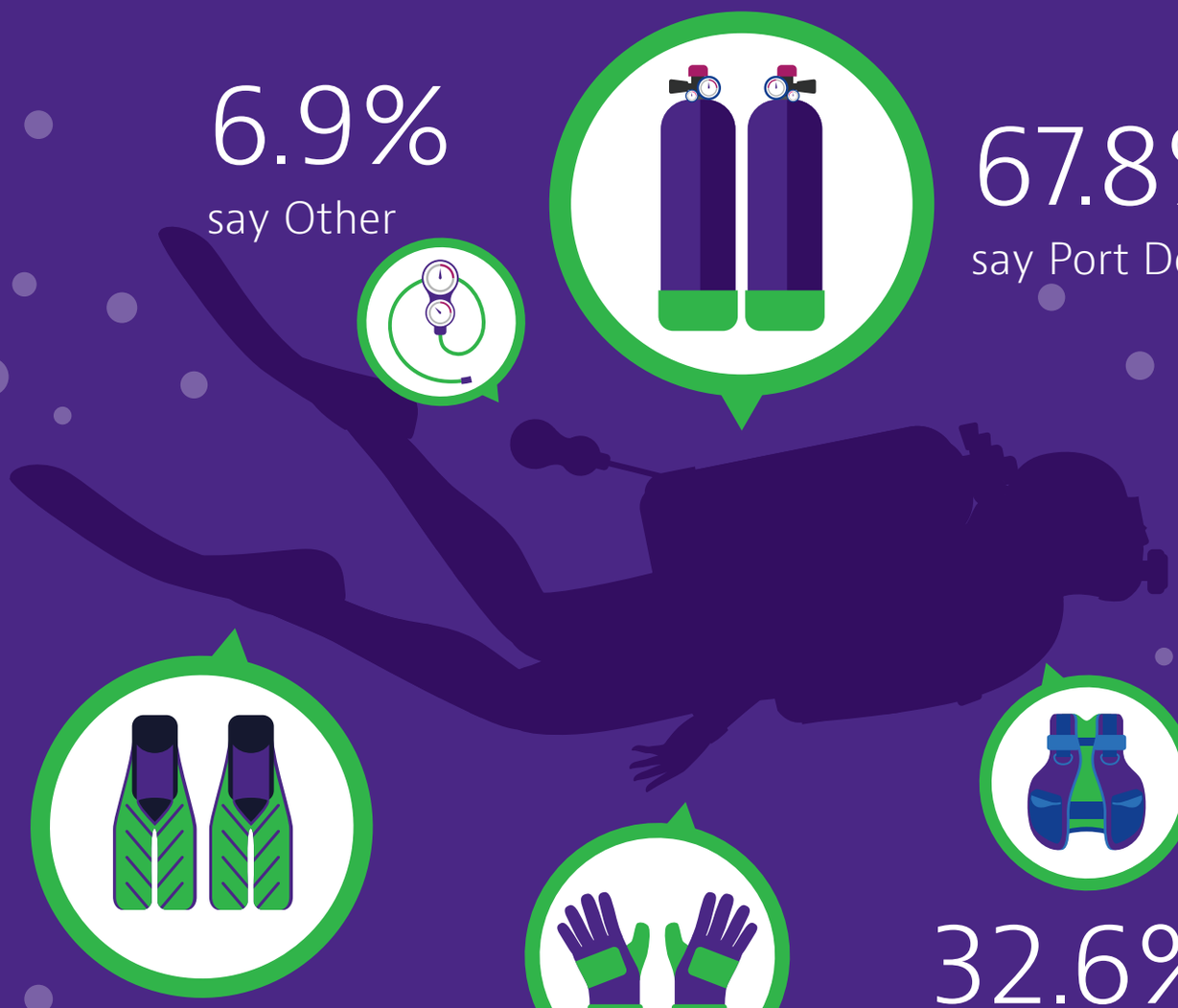


40% of respondents are already working with

MPO regularly (ie: more than 10 projects in a year)

Reasons to dive into an MPO Expedition

Port Density and faster speed were found to be the top reasons for MPO being implemented.



6.9%
say Other

67.8%
say Port Density

51.9%
say Faster Speed

44.0%
say Greater Flexibility

32.6%
say Ease of Migration

Ensure Smooth Sailing

MPO connections require the same tests as single-fiber connections...but using the same tools are cumbersome and extremely time-consuming. Using purpose-built tools for MPO testing ensures smooth sailing.

Basic/Tier 1 Certification
Measuring fiber Length, Loss, and Polarity

End Face Inspection
Ensuring clean fiber connections

Enhanced/Tier 2 Certification
OTDR Testing to see individual event characteristics

Top 3 MPO Testing Challenges

Testing multi-fiber connectors can make you feel under attack. Here are the top sea monsters the survey respondents feel are lurking in the deep.

44%

...say "Complexities using fan-out cables to test all fibers"

47%

...say “Difficulty keeping MPO end faces clean”

51%

...say “Time it takes to test all fibers”

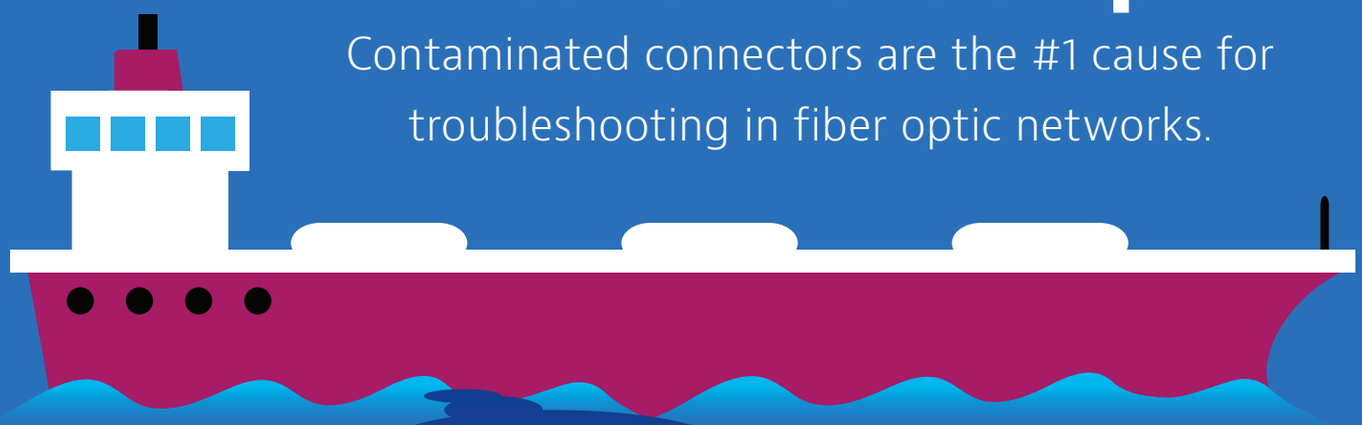
Lost at Sea

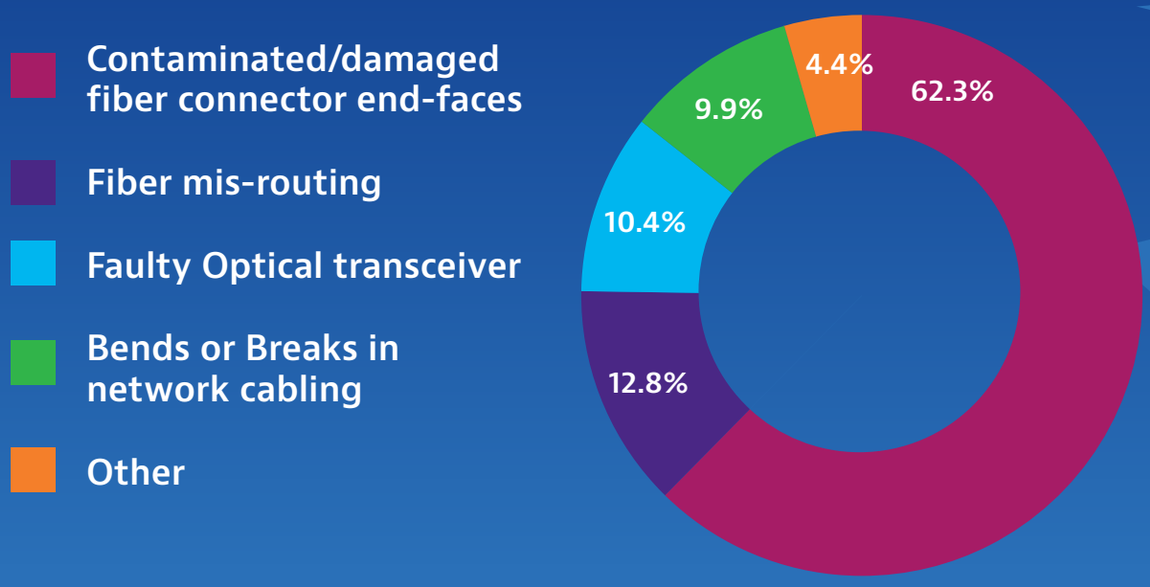
4 out of 5

...respondents spend up to 20% of their work week troubleshooting physical network issues.

Leaks in the Ship

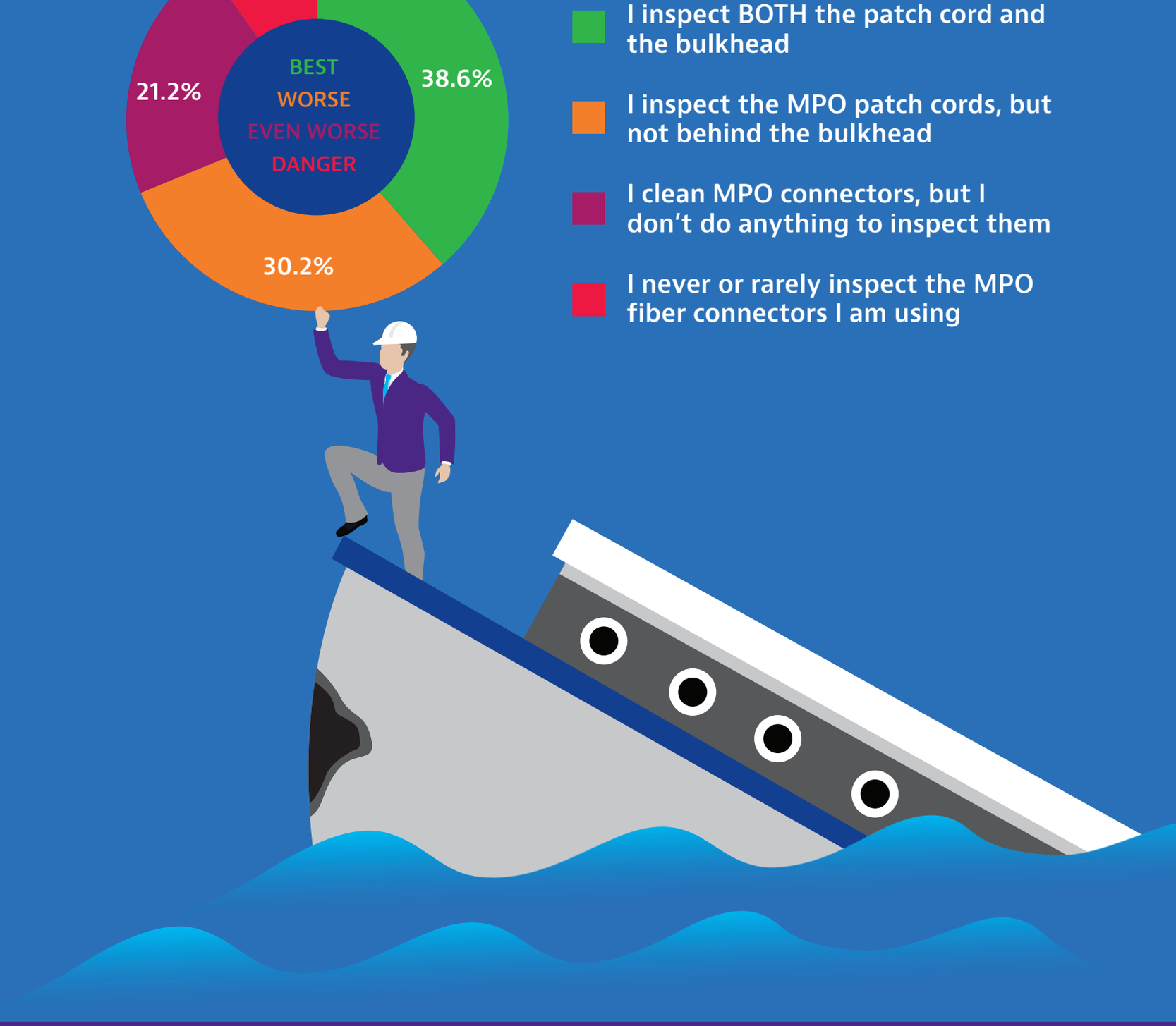
Contaminated connectors are the #1 cause for troubleshooting in fiber optic networks.





Current MPO Fiber Inspection Practices

Only 1/3 of the crew are actively inspecting both the patch cord and the bulkhead. This practice is essential in order to decrease the number of possible capsized vessels.



Whether you are successfully navigating the MPO seas, or planning a mutiny, you can access the full, complimentary report of the VIAVI 2018 MPO Study at

viavisolutions.com/MPO

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