smm-hamburg.com

the leading international maritime trade fair

Strand and and the

amburg



SMM Maritime Industry Report 2019

Outlook on the future of the maritime sector



Hamburg Messe + Congress

SMM Maritime Industry Report 2019 Content



1	Sample Structure	4
2	Business Climate	8
3	Shipping	13
4	Shipyards	27
5	Suppliers	43
6	Marine Interiors	56

Hamburg Meese + Congree

SMM Maritime Industry Report 2019 Background and Objectives

With about 50,000 visitors and more than 2,200 exhibitors, SMM Hamburg is the leading international maritime trade fair. In order to keep track of the latest developments and business climate, the SMM Maritime Industry Report provides valuable insights into shipping and the shipyard industry along with their suppliers. New this time is a special section on marine interiors.

Visitors and exhibitors of SMM Hamburg from all over the world were invited to take part in the SMM Maritime Industry Report survey.

This report collects their assessments of the current situation, outlook on the future and opinions on various topics that concern the maritime industry.

3









SAMPLE STRUCTURE



6,73% of all invitation links were used and about 1/2 of these interviews were completed by the participants.

Participation rate 2019 (2017)

Number of invitations	44,787* (69,606**)	~ in %	100% (100%)	
Interviews started Interviews finished	3,016 (3,794) 1,493 (2,513)		6.73% (5.45%) 3.33% (3.61%)	A participation rate of over 5% is on a good level for a non-panel sample.

Final sample

	Total	Ô	Ô	•	\bigcirc
2019	1493	269	192	932	100
2017	2454	466	315	1673	-

Please note: in 2017, an additional number of 52 interviews with port and port operations were also included. New this year is the category of marine interiors

C=Complete | N = Non-Complete

*Size of adjusted sample, bounce-back addresses were removed from sample after sending out invitations

** Smaller sample base for 2019 caused by data base adaptations according to new data protection standards (GDPR)



Very similar sample composition compared with 2017, the vast majority are SMM visitors and come from supplier companies.





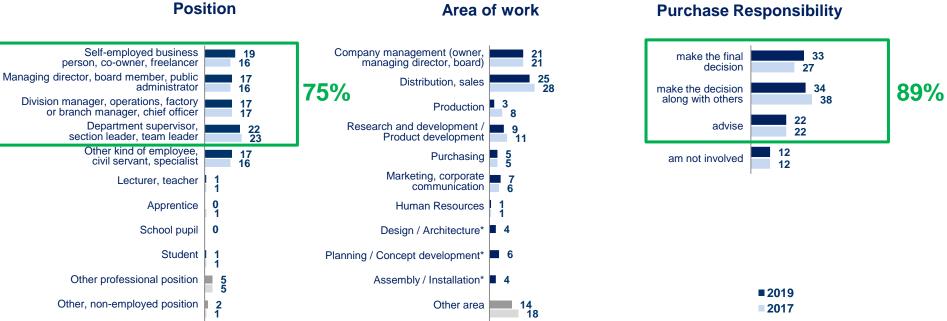
Categorization

Respective Total (n=2506|1493|2506|1493) | in % | *not asked for in 2017 | **not asked for in 2019 S1|S2|S2a: Are you ... | In which of the following sectors can your company/organization be primarily allocated?

Base

As in 2017, participants most commonly carry managerial responsibility and over 2/3 are meaningfully involved in purchasing decisions.





Area of work

Base Respective Total (n=1493|2506|1493|2506|1460|2455) | in % | *not asked for in 2017

S3|S4|S5 What position do you hold in your company? I in which area do you work? I To what extent are you involved in purchasing decisions within your area of the company?



BUSINESS CLIMATE

Hamburg Messe + Congres

SMM Maritime Industry Report 2019 The Maritime Industry Business Climate Indicator



This indicator is calculated as an approximation of the general business climate in the maritime industry. Based on all questions on business and growth potential from the different industry sectors, a balance of the shares of positive and negative forecasts is calculated.*

This is based on the following questions:



From shipping - R2-R4c: In your opinion, to what extent will the degree of capacity utilization/cargo rates/charter rates change in your fleet by the end of 2020?



<u>From shipyards – W2a-d & W5a-d</u>: In your opinion, how will order/repair activities for the building of new ships develop in relation to cargo ships/ cruise ships/ work ships/ navy ships/ yachts and others up to the end of 2020?



From suppliers – Z3: In general, how do you rate the sales potential of your products in the shipbuilding industry?

*Formula of Business Climate Indicator = [(($T2B_{R2-4c} \text{ in } \% \text{ - } L2B_{R2-4c} \text{ in } \%) \text{ * } n_{R2-4c}$) + (($T2B_{W2a-d} \text{ in } \% \text{ - } L2B_{W2a-d} \text{ in } \%)$ +($T2B_{W5a-d} \text{ in } \%$) +($T2B_{W5a-d} \text{ in } \%$) +($T2B_{W5a-d} \text{ in } \%$))/2 * $n_{W2a-dW5a-d} \text{ in } \%$))/2 * $n_{W2a-dW5a-d} \text{ in } \%$) +($T2B_{Z3} \text{ in } \% \text{ - } L2B_{Z3} \text{ in } \%)$ * n_{Z3}]) / ($n_{R2-4c} \text{ + } n_{W2a-dW5a-d} \text{ + } n_{Z3}$)



The overall 2020 business outlook is pointing upward, which is mostly driven by the suppliers. In comparison, shipping and shipyards are less optimistic.



Maritime Industry Score



10

The consolidation process within the shipping industry remains in full swing. As in 2017, 2/3 of the shipping respondents believe that it will continue.



Consolidation processes*

Consolidation process continues The shipping sector is still dominated by the three main alliances (2M Alliance, Ocean Alliance and "The" Alliance), which make up almost 80% of the sector. Additional recent news regarding the process:

- Further consolidation in the first half of 2018 has reduced the number of 15 carriers controlling 70% of fleet capacity to only 10! For example, through the OOCL take over by COSCO.
- Furthermore HMM becomes a member of "The" Alliance after the 2M Alliance refused a full membership.

Source: UNCTAD, Review of Maritime Transport 2018

Respective Total (n=192|315) | in %

W3: In your opinion, to what extent will the consolidation processes (takeovers, mergers or insolvencies) develop in your market segment/s?

Base

SMM Maritime Industry Report 2019 What is the situation like?



Overall, the participants from all sectors gave a rather **positive general outlook** on the economical situation of the maritime industry.

In spite of the good business opportunities, the situation remains tense: Especially the shipping and shipyard industry is characterized by fierce competition and very often consolidation processes like corporate mergers and acquisitions of smaller companies that couldn't withstand the economical pressure of the highly competitive market anymore. At the same time, the prospects appear to be much more positive for the suppliers, who see a considerably greater demand compared with shipping and ship yards.

In the following, the results from each sector will be presented individually to give detailed insights into the current situation and future trends. New this time is a special section on marine interiors.





Main Content - Shipping sector 🕥



What developments can be expected in terms of business climate?

What developments can be assumed in the field of investment activities?

How will the shipping sector be affected by the 0.5% sulphur emissions limit which will be applied world wide by 2020?

Which improvements will occur in fuel options?

Establishment of unmanned shipping within the next 20 years?

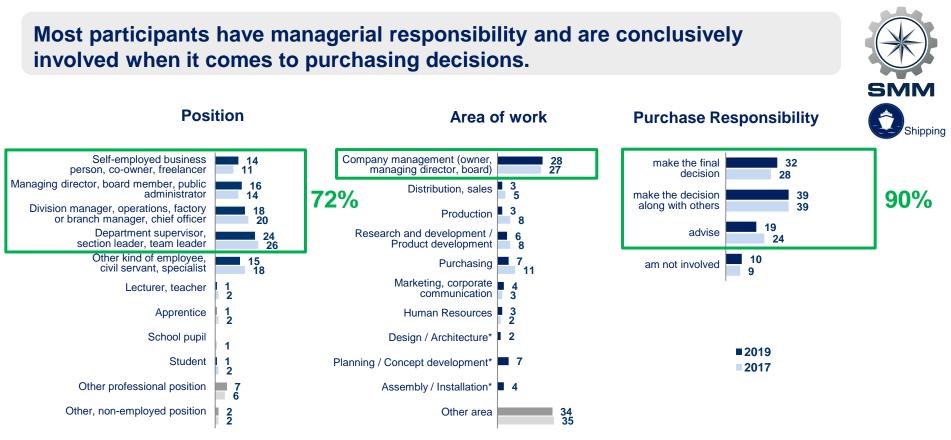
How important is cyber security?

Shipping industry members only (n=269)

3

5

6



Base Respective Total (n=269|466|269|466|260|451) | in % | *not asked for in 2017

S3|S4|S5 What position do you hold in your company? | In which area do you work? | To what extent are you involved in purchasing decisions within your area of the company?

Technical management remains the predominant position of the participants from the shipping sector, the various other functions are much less common.

2019

2017

Role in Shipping Company



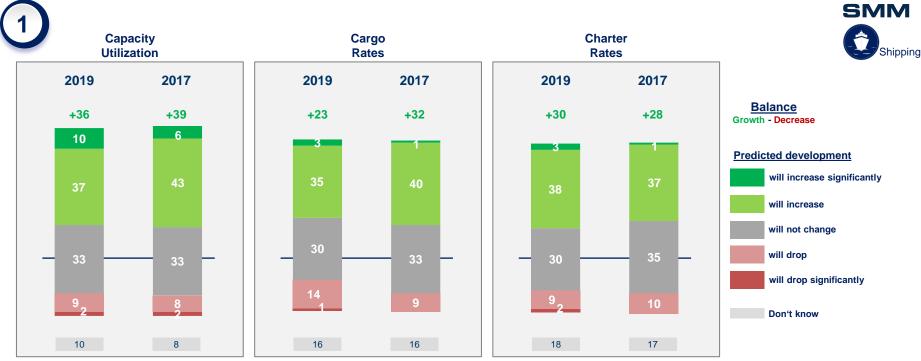
BaseTotal (n=269|466) | in % | *not asked for in 2017R1:What is your main activity in the shipping sector?



Large share of technical management in sample grants insights into technical developments.

> Hamburg Messe + Congress

As in 2017, the outlook remains positive, however, apart from capacity utilization, only very few expect significant increases.



Respective Total (n=269|466|269|466|269|466) | in %

Base R2|R3|R4:

In your opinion, to what extent will the degree of capacity utilization change in your fleet by the end of 2020? | How do you think the cargo rates will develop up until the end of 2020? | And how do you think the charter rates will develop up until the end of 2020?

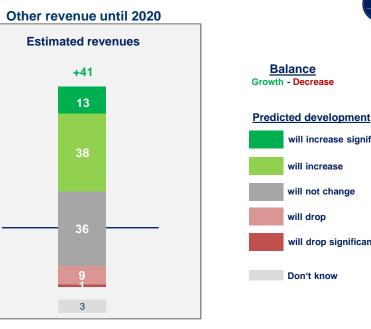
Other revenue streams are also likely to increase. The type of revenue is broad, including management fees, port services and technical support.



And others

Respective Total (n=77) | in %

R4b|R4c: If you cannot classify your compensation under freight or charter rates, what kind of other revenue do you have? How do you estimate the development of your other revenue by 2020?





Balance

will increase significantly

will increase

will drop

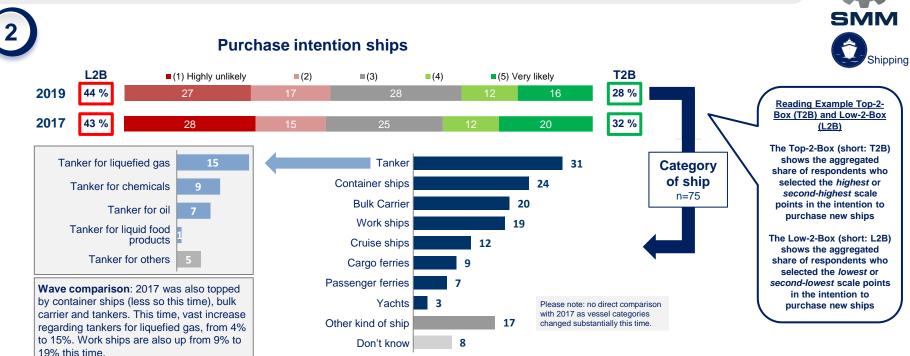
Don't know

will not change

will drop significantly

Base

Less than 1/3 are planning to buy new ships, slightly lower compared with 2017 – an equal amount is unlikely to make a new purchase.



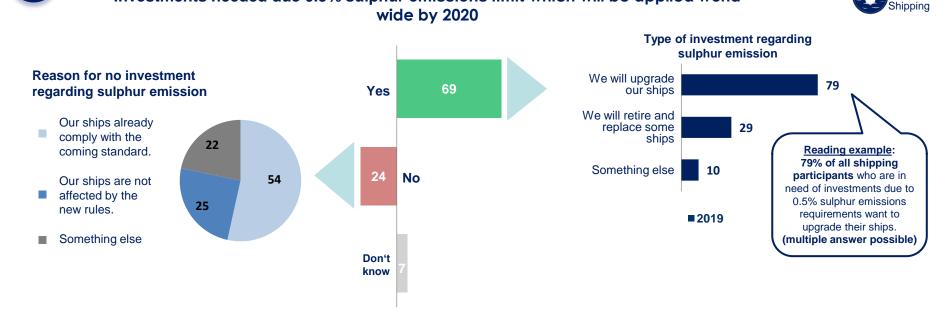
Respective Total (n=466|269|75) | in %

R8|R8a: How likely is it that you will purchase (or recommend purchasing) one or more ships for your fleet by the end of 2020? | Which types of ship are you most likely to purchase for your fleet by the end of 2020?

Base

Over 2/3 anticipate investments to adhere to emission standards. Most likely they will upgrade their fleet rather then retire and replace ships.

Investments needed due 0.5% sulphur emissions limit which will be applied world



Base Respective Total (n=269|185|65) | in %

R5|R5a|R5b: 0.5% Sulphur emissions in Chinese maritime area... Do you think this will require investments in your fleet within the next two years? | To what extent do you think you will need to invest in the fleet? | You stated that no investments will be needed because of the new emissions regulations. Why not?

Hamburg Meese + Congrees LNG has the highest single share, but MDO and HFO/MFO combined remain higher. Preference for MDO/LNG declined notably compared with last time.

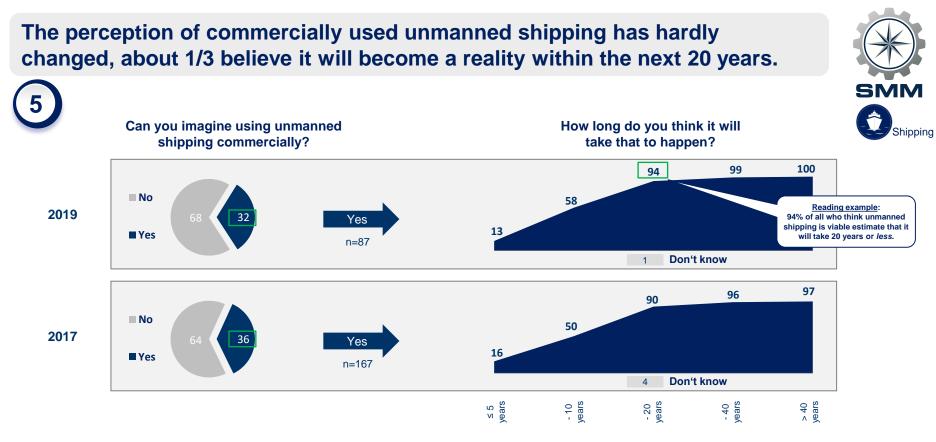
Choice of fuel Hybrid drive technology – Combination of fuels î Shipping 45 LNG - Liquefied Natural Gas 44 48 MDO / Electric 49 38 MDO - Marine Diesel Oil 39 39 LNG / Electric* Hybrid drive technologies / 31 combination of different fuels 36 n=84 37 MDO / LNG 20 52 HFO / MFO - Heavy Fuel Oil 21 12 HFO / MDO 10 Wind 15 q 10 Following fuels/technologies Methanol 8 LPG - Liquefied 8 I am not sure vet Petroleum Gas* 13 MDO/Electric and LNG/Electric* are the Electricity-based most popular combination of fuels. synthetic fuels 8 Both provide a flexibility of cost-efficiency Solar and cleanliness (e.g. limit or almost q eliminate sulphur emissions). Others 2019 Don't know 2017 9

SMN

Respective Total (n=269|84) | in % | *not asked for in 2017

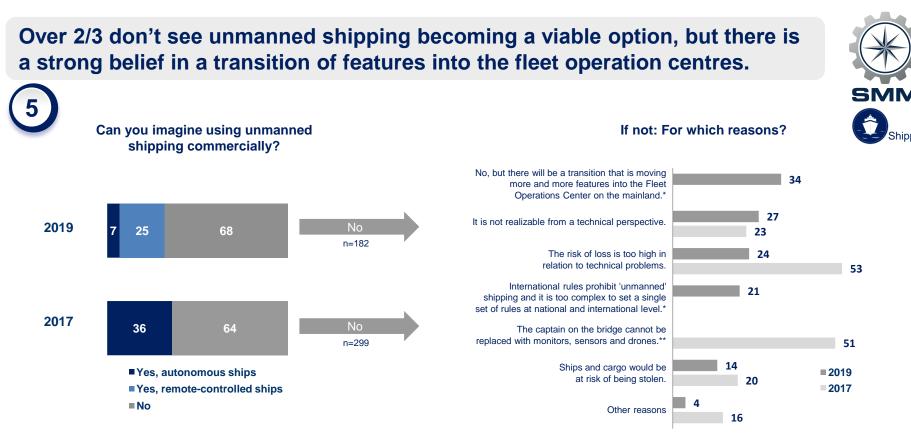
Which kinds of fuels will you prefer when making future investments? | You said that you would prefer a combination of different fuels/drive technologies in future. Which combination(s) of fuels/drive technologies do you mean?

Base R6|R6a:



Base Respective Total (n=466|167|269|87) | in %

R7|R7a: "Unmanned shipping" ... Can you imagine using this vision commercially? | You stated that the subject of "unmanned shipping" will become reality. How long do you think it will take that to happen?



Base Total (n=269|182|466|299) | Shipping industry members only (n=413|270) | in % | *not asked for in 2017 | **not asked for in 2019 R7:

"Unmanned shipping ... Can you imagine using this vision commercially? | You stated that the subject of "unmanned shipping" will become reality. How long do you think it will take that to happen?

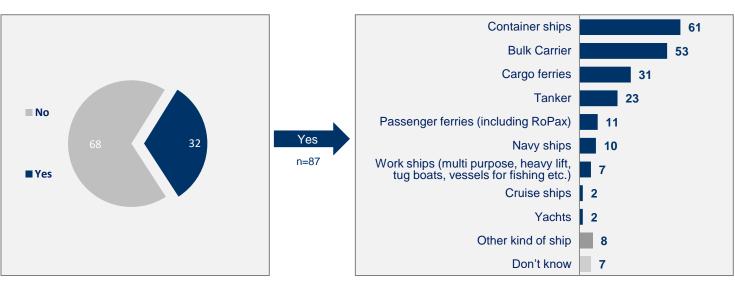
Shippina

In case unmanned shipping becomes a reality, freight carrying vessels show the most likely opportunity.



Can you imagine using unmanned shipping commercially?

Commercial use of unmanned shipping - Forecast If yes: Can you imagine using unmanned shipping commercially?





Base R7c: Total (n=87) | in %

For which types of vessels do you most likely see the commercial use of 'unmanned shipping'?

Cyber security remains a crucial topic for most. Most likely measures in this regard are virus and protection software, training and IT expertise. SM Importance of Cyber Security Shippina T₂B (4) Not important at all (3) Not very important (2) Important (1) Verv important 2019 47 83 % 3 Don't know 2017 48 80 % 5 Don't know **Cyber Security** Measures 73 Regular updates of virus and protection software 78 n=223 59 Regular crew training ΔΔ IT systems are supported around the clock by 52 55 security experts Private IT devices, USB sticks, smartphones 25 are forbidden on board 18 The most common measure is keeping the anti-Other virus software up-to-date, but 59% train their 2019 crew regularly and 52% also maintain a 24h Don't know 6 IT support. 2017

Base Respective Total (n=269|223|466) | in %

R10|R10a: In general, how important is cyber security in your company? | You have stated that cybersecurity plays an important role in your company. Which specific measures do or have you carried out?

Hamburg Meese + Congrees

Private devices are allowed in most cases.

Summary - Shipping sector





Most participants expect improved cargo and charter rates, along with a better capacity utilization. The pattern is very similar compared with 2017.



However, only 28% are planning to buy new ships until the end of 2020, while a relative majority (44%) has no such plans.



The 0.5% sulphur emissions limit requires fleet investments for about 69%, who strongly prefer upgrading their ships rather than purchasing new ones.



LNG is the single most promising fuel option for the future, but as in 2017 MDO and HFO/MFO together have a higher share for future investments.



1/3 see unmanned shipping as a viable commercial option, potentially within the next 20 years, a view that hardly changed compared with 2017.



Cyber security remains of utmost importance, with virus and protection software, training and constant IT systems support as most crucial measures.

Shipping industry members only (n=269)



Main Content – Shipyards 🚱





Establishment of unmanned shipping within the next 20 years?

Shipyard industry members only (n=192)

5

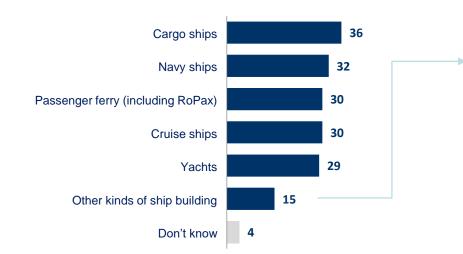
Nearly all shipyard participants are involved in the purchasing process. Almost half work in management, design, planning and development. SMN Position Area of work **Purchase Responsibility** Shipyard Self-employed business Company management (owner, 18 15 29 make the final person, co-owner, freelancer 15 managing director, board) 14 decision 24 Managing director, board member, public 11 87 Distribution, sales administrator 10 71% make the decision 39 92% along with others 41 Division manager, operations, factory 13 Production or branch manager, chief officer 23 17 24 advise Department supervisor. 29 2<u>5</u> Research and development / 23 section leader, team leader Product development 15 Other kind of employee. 9 18 9 7 Purchasing am not involved civil servant, specialist 25 12 Marketing, corporate 5 1 Lecturer, teacher communication 8 Decrease in "production" 22 Apprentice Human Resources 1 most likely caused by newly included work areas. School pupil 13 Design / Architecture* such as design, planning and assembly. 13 22 Student Planning / Concept development* 5 Other professional position 5 4 Assembly / Installation* 2019 Other, non-employed position - 4 19 Other area 2017

Base Respective Total (n=192|315|192|315|181|306) | in % | *not asked for in 2017

S3|S4|S5 What position do you hold in your company? | In which area do you work? | To what extent are you involved in purchasing decisions within your area of the company?

Shipyard participants cover all market segments, with cargo ships being the biggest category by a narrow margin.

SMM Shipyard



Market segment ship building

Other kinds of shipbuilding

Out of the variety of other options, often mentioned areas are structures / installations, e.g. wind turbines, oil

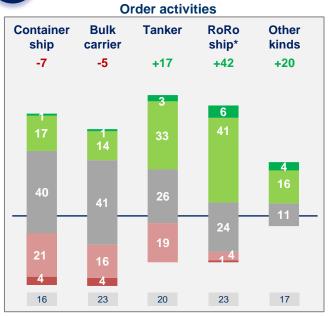
Additionally, there are individual mentions of icebreakers, ship repair, consulting and engineering.

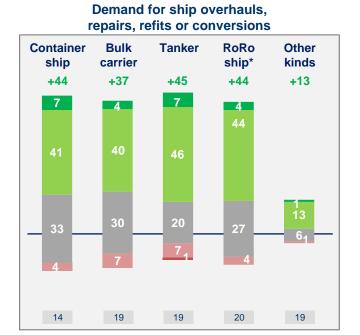
Base Total (n=192) | in %

W1: In which market segments are you active or what types of ships are you building respectively?

The business climate remains positive, particularly for repairs. RoRo ships are in strong demand, much less so are container ships and bulk carriers.

Cargo ships







Balance Growth - Decrease Predicted development will increase significantly will increase will not change will drop will drop will drop significantly Don't know

Base Respective Total (n=70|70) | in % W2a In your opinion, how will order act

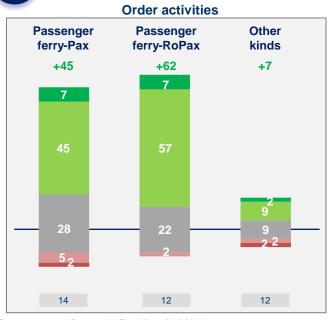
In your opinion, how will order activities for the building of new ships develop in relation to cargo ships up to the end of 2020?

W5a In your opinion, how will the demand for ship overhauls, repairs, refits or conversions develop in relation to cargo ships up to the end of 2020?

*In questionnaire asked as "cargo ferry"

Participants of the ferry business see growing demand for new ships as well as repairs. There is a somewhat higher demand for RoPax ferries.

Passenger ferries





SMM Shipyard

 Balance

 Growth - Decrease

 Predicted development

 will increase significantly

 will increase

 will not change

 will drop

 will drop significantly

 Don't know

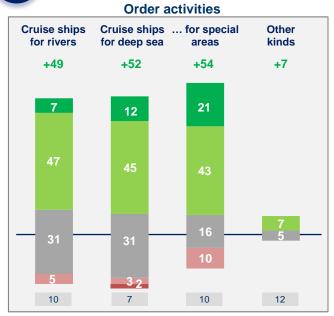
Base Respective Total (n=58|58) | in % W2ab In your opinion, how will order act

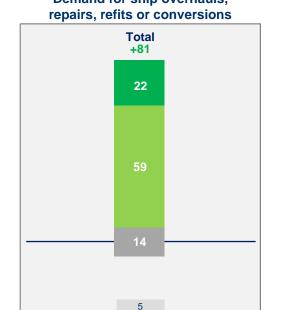
In your opinion, how will order activities for the building of new ships develop in relation to passenger ferries (Pax and RoPax) up to the end of 2020?

W5a1 In your opinion, how will the demand for ship overhauls, repairs, refits or conversions develop in relation to passenger ferries (Pax, RoPax) up to the end of 2020?

The demand for all cruise ship types appears to be high – more than 80% see repairs increasing up to the end of 2020.

Cruise ships





Demand for ship overhauls,



Base Respective Total (n=58|58) | in % W2ac

In your opinion, how will order activities for the building of new ships develop in relation to cruise ships up to the end of 2020?

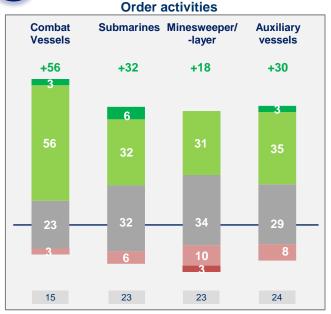
In your opinion, how will the demand for ship overhauls, repairs, refits or conversions develop in relation to cruise ships up to the end of 2020? W5a2

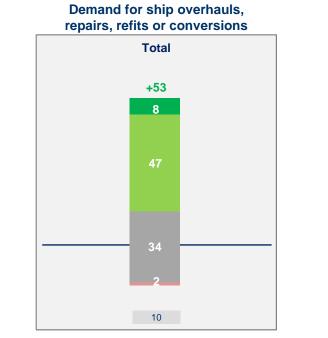
SMN

Shipvard

Combat vessels show the highest expected increase, but all types of navy ships show a net-demand. Expected need for repairs is also at a high level.

Navy ships







 Balance

 Growth - Decrease

 Predicted development

 will increase significantly

 will increase

 will not change

 will drop

 will drop significantly

 Don't know

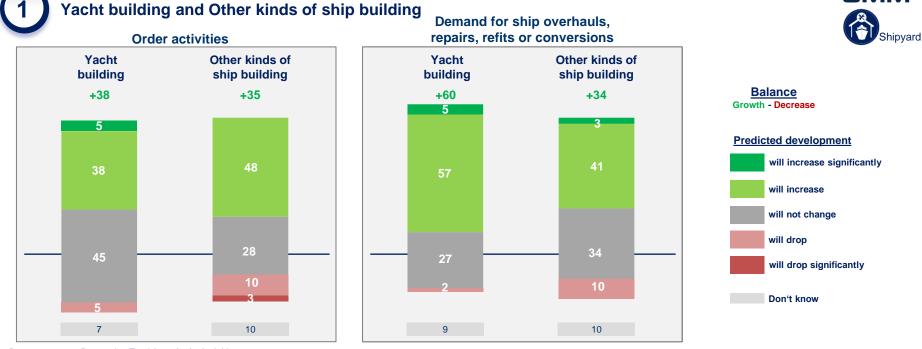
Base Respective Total (n=62|62) | in % W2c In your opinion, how will order act

In your opinion, how will order activities for the building of new ships develop in relation to navy ships up to the end of 2020?

W5c2 In your opinion, how will the demand for ship overhauls, repairs, refits or conversions develop in relation to navy ship building up to the end of 2020?



Yacht and other kinds of ship building also show net-positive increases, but only a minority of the participants see a significant growth.

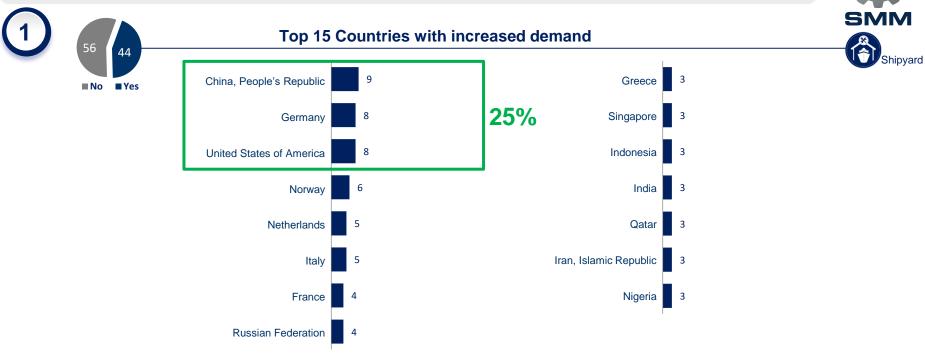


BaseRespective Total (n=56|29|56|29) | in %W2b1|W2dIn your opinion, how will order activities

In your opinion, how will order activities for the building of new ships develop in relation to yachts/ in the following areas up to the end of 2020?

W5b/W5d In your opinion, how will the demand for ship overhauls, repairs, refits or conversions develop in relation to yacht building/ in the following areas up to the end of 2020?

Increasing demand comes from a large array of countries, although 1/4 mentioned China, Germany and the USA.



Base Respective Total (n=192) | in %

W5e Are there any specific countries from which you expect increased demand by the end of 2020?

The consolidation process within the maritime sector remains in full swing. As in 2017, 2/3 of the shipbuilding participants believe that it will continue.

Consolidation processes 2019 2017 21 13 8 67 Don't know Further consolidation will take place **No further consolidation will take place**

Base Respective Total (n=192|315) | in %

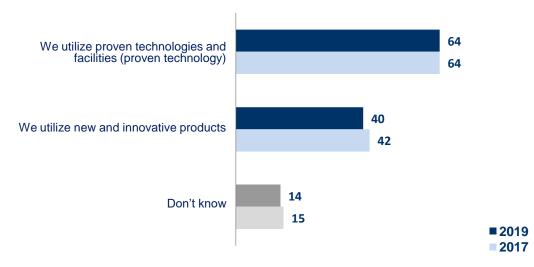
W3: In your opinion, to what extent will the consolidation processes (takeovers, mergers or insolvencies) develop in your market segment/s?



Like in 2017, about 40% focus on new and innovative products when creating a makers list for new or conversion projects.



Makers list for new or conversion projects

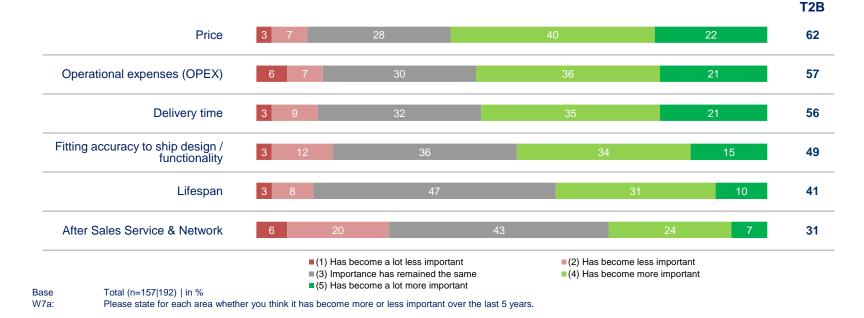


 Base
 Respective Total (n=192|315) | in % | multiple answers possible

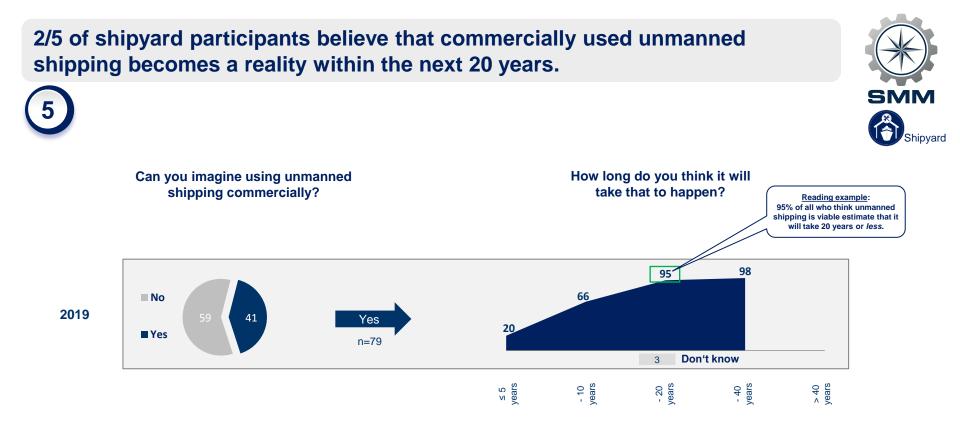
 W6
 What do you utilize when creating a makers list for new or conversion projects?

SMM Shipyard For well over half of the participants, price related aspects and delivery times have become more important over the past five years.

Areas that have become more or less important over the last 5 years

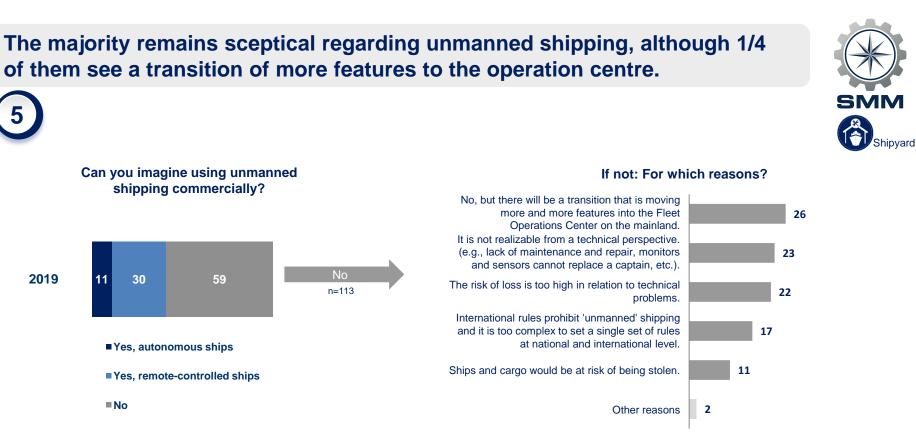


SMM Shipyard



Base Respective Total (n=192|79) | in %

W4|W4a: The subject of "unmanned shipping" is currently being talked about a lot, and a number of test ships are currently under development or are in trial already. Can you imagine that this vision can be used commercially? | You stated that the subject of "unmanned shipping" will become reality. How long do you think it will take that to happen?



Base Respective Total (n=192|113) | in %

W4: The subject of "unmanned shipping" is currently being talked about a lot, and a number of test ships are currently under development or are in trial already. Can you imagine that this vision can be used commercially?

2019

Summary – Shipyards







Participants remain mostly positive regarding orders until 2020, particularly regarding ship repairs. Cruise ships and ferries are in particular demand.



The consolidation within the sector will most likely continue, as 2/3 of the participants have this view, which is very similar compared with 2017.



40% focus on new and innovative products when creating a makers list for new or conversion projects.



Financial aspects (price and OPEX) and delivery times have become more important for most over the past five years.



2/5 see unmanned shipping as a viable commercial option, potentially within the next 20 years, which leaves a majority not sharing that view.

Shipyard industry members only (n=192)











What developments can be expected in terms of innovations and business climate?



What are the attitudes toward innovation?



Which compromises are possible in regarding price, delivery times and other industry related aspects?



5

What importance have LNG and hybrid refuelling systems already from the suppliers point of view?

Establishment of unmanned shipping within the next 20 years?

Suppliers only (n=932)



Suppliers are mainly present through sales representatives, followed by company management. Most are in decisive or advising positions. SMN Position Area of work **Purchase Responsibility** Supplier Self-employed business 20 17 Company management (owner, 20 21 34 make the final person, co-owner, freelancer managing director, board) decision 28 Managing director, board member, public 18 17 35 Distribution, sales 88% administrator 40 make the decision 32 75% along with others 38 Division manager, operations, factory 17 3 Production 45% or branch manager, chief officer 6 16 22 Department supervisor. advise Research and development / 20 11 22 section leader, team leader Product development 22 11 Other kind of employee. 18 13 4 Purchasing am not involved civil servant, specialist 13 21 Marketing, corporate 8 Lecturer, teacher communication 0 Apprentice Human Resources 3 School pupil Design / Architecture* 5 Student Planning / Concept development* 1 Other professional position 5 4 4 Assembly / Installation* 2019 8 11 Other, non-employed position Other area 2017

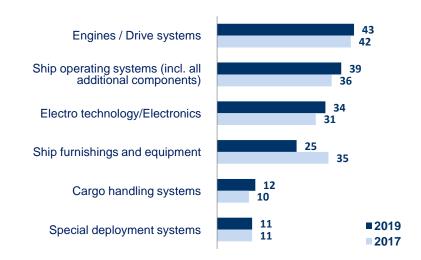
Base Respective Total (n=932|1673|932|1673|920|1649) | in % | *not asked for in 2017

S3|S4|S5 What position do you hold in your company? | In which area do you work? | To what extent are you involved in purchasing decisions within your area of the company?

Suppliers represent a broad range of product categories, of which the most common are engine / drive systems, ship operating systems and electronics.



Product Categories



Base Total (n=932|1673) | in % Z1: In which categories do your products generally belong?

> Hamburg Messe + Congrea

The business outlook of suppliers is very positive, over 2/3 see at least high sales potential, with only a very small fraction on the low demand side.



T₂B

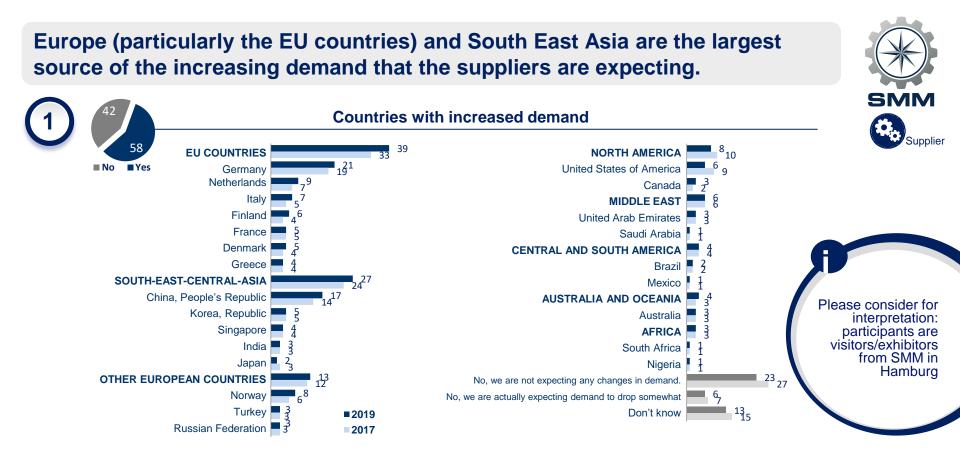
■(5) Very low ■(4) Low ■(3) Depends ■(2) High ■(1) Very high

Sales possibilities ship building

2019	13	28	47	22	69 %	
2017	1 3	31	48	18	66 %	

Base Total (n=932|1673) | in %

Z3: In general, how do you rate the sales potential of your products in the shipbuilding industry?

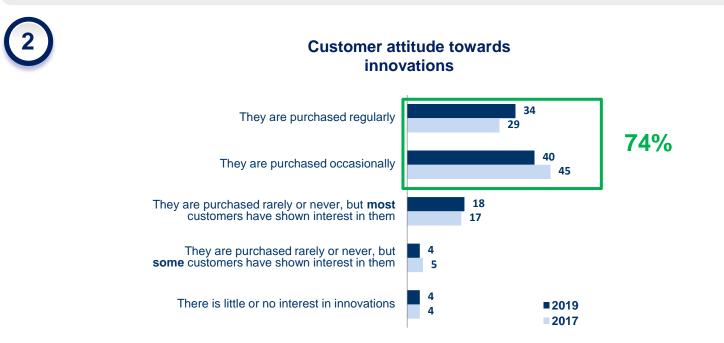


Base Total (n=932|1673) | in %

Are there any countries from which you are expecting increased demand by the end of 2020?

Z4:

Product innovations of the suppliers are accepted by the market: 74% say that they can sell their innovations at least occasionally.



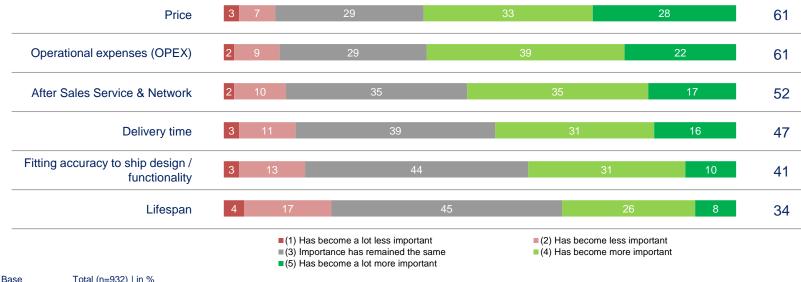
SMM Supplier

 Base
 Total (n=932|1673) | in %

 Z8:
 What do your customers think about the innovations that you offer?

Over the last five years, price related aspects have become more important for almost 2/3, followed by After Sales Service & Network (more than 1/2).

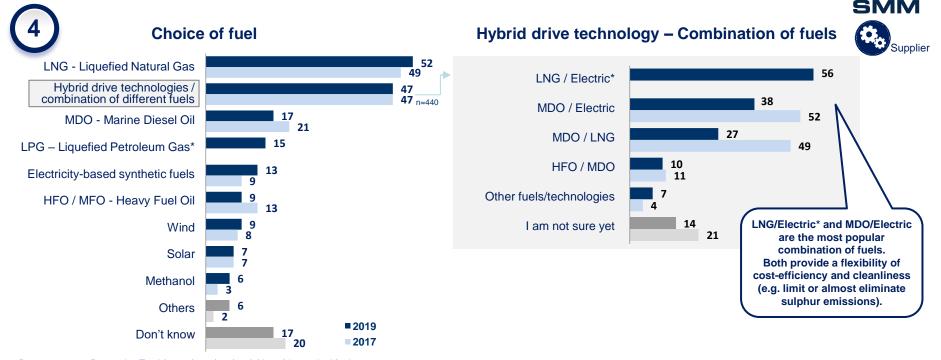
Areas that have become more or less important over the last 5 years



Total (n=932) | in %

Z7a: Please state for each area whether you think it has become more or less important over the last 5 years. **T2B**

Demand for LNG is on the rise, whether as stand alone fuel or within a hybrid drive environment, where LNG / Electric is at the top of the list.



Base Z5|Z5a: Respective Total (n=932|1673|440|794) | in % | *not asked for in 2017 In your opinion, which fuels will be in greatest demand in future in the shipping industry? | You stated that you expect significant demand for a combination of different fuels/drive technologies in future. Which combination(s) of fuels/drive technologies do you mean?

> Hamburg Meese + Congrees

Suppliers and shipping companies believe in the future importance of LNG, but for shipping companies MDO and HFO / MFO remain highly important.

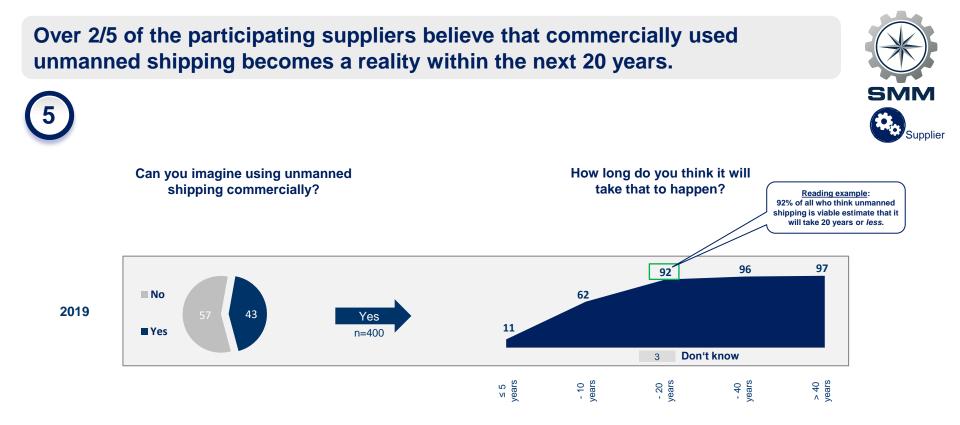




 Base
 Respective Total (n=269|466|932|1673) | in % | *not asked for in 2017

 R6|Z5:
 In your opinion, which fuels will be in greatest demand in future in the shipping industry?

Hamburg Messe + Congress

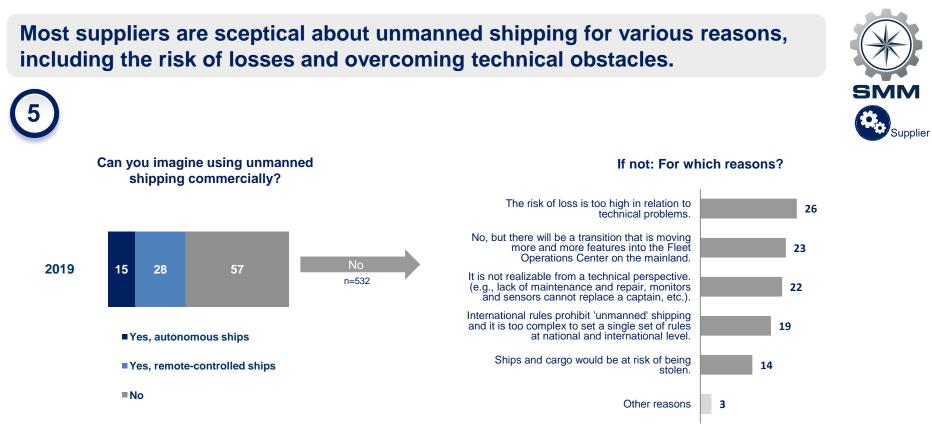


Base Respective Total (n=932|400) | in %

Z9|Z9a:

The subject of "unmanned shipping" is currently being talked about a lot, and a number of test ships are currently under development or are in trial already. Can you imagine that this vision can be used commercially? | You stated that the subject of "unmanned shipping" will become reality. How long do you think it will take that to happen?

Hamburg Messe + Congress



Base Respective Total (n=932|532) | in %

The subject of "unmanned shipping" is currently being talked about a lot, and a number of test ships are currently under development or are in trial already. Can you imagine that this vision can be used commercially?

Z9:

Summary – Suppliers







Suppliers are very optimistic with regard to their sales opportunities, well over 1/3 see high potential (22% say the potential is very high).



Innovations by the suppliers are well regarded by their customers, almost 3/4 sell their innovations at least occasionally.



For the majority, price related aspects (price and OPEX) have become more important within the past five years. After Sales Service became also more crucial from the perspective of slightly over half of the respondents.



The demand for LNG is rising, whether it is as a stand alone fuel choice or within a hybrid drive setup, where LNG / Electric is the most important type.



Over 2/5 see unmanned shipping as a viable commercial option, potentially within the next 20 years, but most remain skeptical.

Suppliers only (n=932)





Messe + Congres

Main Content – Marine Interiors







What is the most likely expenditure choosing between newly build ships and refits?



5

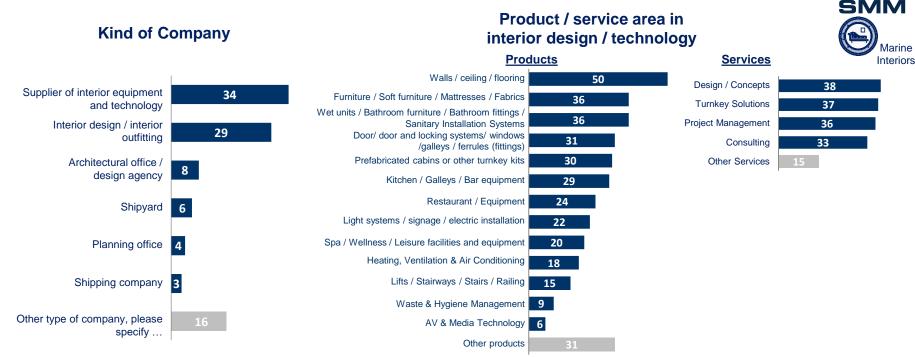
How is the market balanced between turnkey and third party project control?

What are the key challenges within the industry?

Are there market barriers and how to overcome them?

All participants of this special sections only (n=162)

Marine interior specialists are most commonly suppliers of interior equipment and technology or active in designing and outfitting



Base Respective Total (n=100|100) Respondents of Ship interior outfitting / interior decoration / interior design | in %

CF1|CF2: What kind of company do you work for? | In which product / service area in interior design / technology are you active?

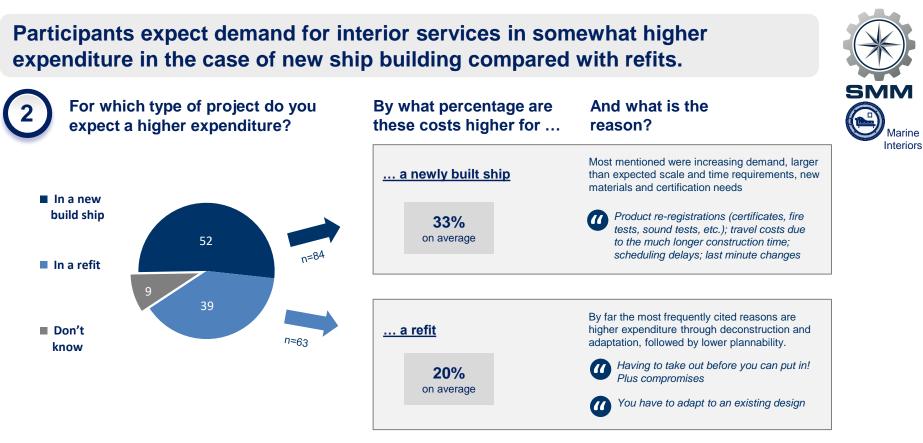
Well over 1/3 see demand for products and services for ship interiors by 2020. The need is spread across the full range of products and services.



Base Respective Total (n=321|126) | in %

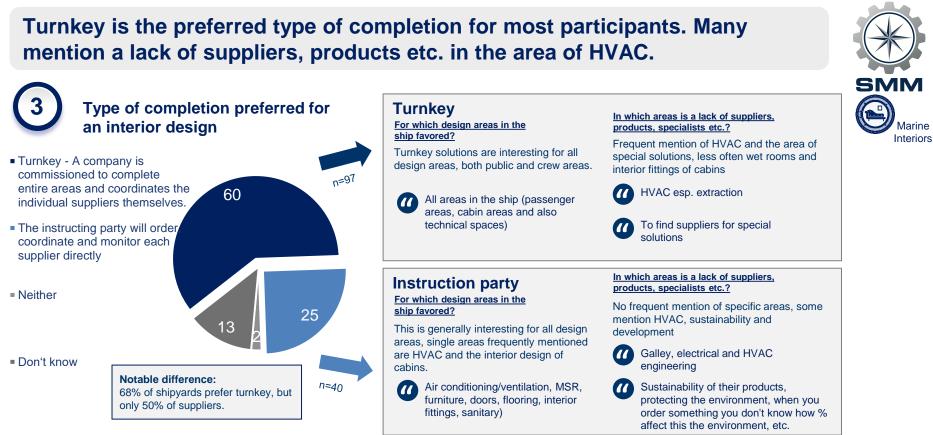
CF3|CF4: Do you have any need for products and services for ship interiors by 2020? | Which of the following product groups do you need?

Hamburg Meese + Congrees



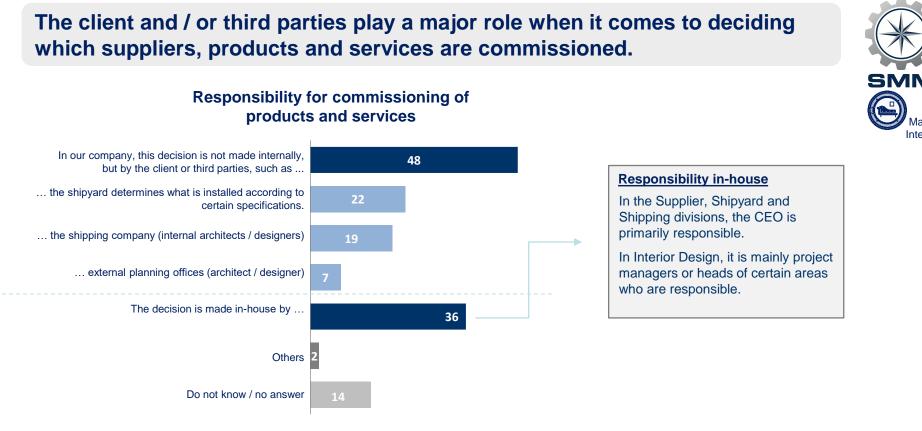
Base Respective Total (n=162|84|63) | in %

CF5|5a|b|c|d: What kind of investment projects regarding the interior design of ships do you expect to incur in higher expenditures? | By how many % are your costs higher in a newly built ship/ in a refit, as compared to a refit/ a newly built ship? What is, in your opinion, the cause?



Base Respective Total (n=162|97|97|40|40) | in %

CF6|CF6a|b|c|d: Which type of completion of an interior design would you prefer? | For which design areas in the ship would this be particularly favoured? | In which product areas are system providers/ suppliers, specialists and products particularly lacking?



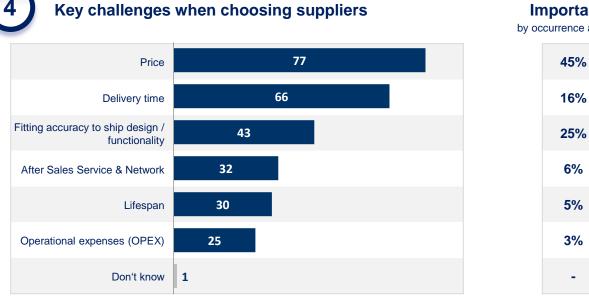
Marine Interiors

Base Respective Total (n=162) | in %

CF7 Who decides in your company which suppliers, products and services are commissioned / purchased for the interior outfitting of ships?

Price is the single most important challenge, followed by fitting accuracy and delivery times. In comparisons, other aspects appear less crucial.

What are the biggest challenges in choosing suppliers, products and services? | Please sort the selected challenges according to their importance?



Importance by occurrence at rank 1

25% 6% 5% 3%



Base CF8a|b: Respective Total (n=162|130) | in %

1/3 of the participants are already active in Asia and about 1/5 are planning to follow. However, a considerable share has no such plans.

Business extension into Asia



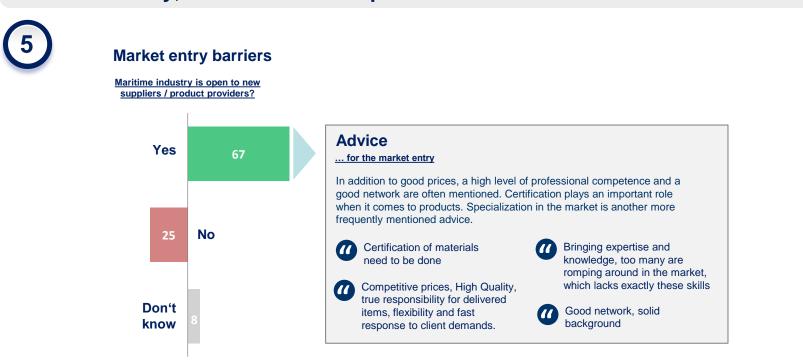
SMM

Marine

Interiors

CF9:

The majority believes that the maritime industry is open to new suppliers. Price sensitivity, certification and specialisation are crucial for new entrants.



Respective Total (n=162|109) | in %

CF10|a: Do you think the maritime industry is open to new suppliers / product providers? | What advice would you give a provider for the market entry?

Base

Various features and trends were mentioned by the participants, of which many take the use of modern technology into account to increase comfort.

Latest trends in cabin and interior design of passenger ships

Apart from voice control in the cabins for light, etc., natural furnishing elements and bright colors as well as floorto-ceiling windows



The latest trends ...

... follow very much the suggested and already anticipated pattern and can be summed up as follows:

- Smart cabins and the improvement of the Internet on board
- Better operability of e.g. air conditioning or intelligent illumination
- Innovations that increase passenger comfort overall

Adaptive lighting / Ambilight for the cabin, depending on the weather or user requirements; interactive screen walls showing rainforest, desert or similar.

Better/faster/cheaper broadband connection (internet)

A little more 3D realistic presentations – I mean 3D images on windows about surrounding nature etc., evening visual effects .. Larger windows/sliding doors with self-tinting smart glass powered by Sun.

On both type river and sea pass. vessels - adjustable interior (of course partly) to let passengers to have some more (at least feeling) freedom to adjust their comfort during journey.

Integrated control with memory features

Blue tooth connectivity in cabins to connect to high quality speakers and control of devices

 Base
 Respective Total (n=162) | in %

 CF11:
 Which interior design or which special features could you imagine additionally?

Well over half the participants heard about the Marine Interiors and plans a visit to see exhibitors, products, get new ideas, network among other things.

Interests Planning to visit? Heard of exhibition? Potential visitors are interested to see the range of exhibitors and suppliers, get inspiration and ideas, network and many have specific product areas they want to know more about. A60 doors / Marine **(**7) Futuristic designs, panels / floors / wet n=91 stands closer to space modules nature For a first time in Exhibitors. 77 general, check the suppliers, available information and contacts, trends try to extend own overview **Barriers** No time 33 56 Topic not relevant 22 n=18 Other reasons 17 Unfavorable date 6 Don't know Yes No Don't know 6

Awareness and participation of exhibition

Base Respective Total (n=162|162|91|18) | in %

CF12|a|b|c: Which interior design or which special features could you imagine additionally? | Have you heard before about our new exhibition, Marine Interiors, in September 2019? | Are you planning to visit the fair Marine Interiors?



Hamburg Meese + Congress

Summary – Interior Design







Well over 1/3 of the participants see demand for products and services for ship interiors by 2020. Needs include the full product and service range.



The demand for interior products and services requires somewhat higher expenditure in the case of new ship building compared with refits.



Turnkey is the preferred type of completion for most participants, rather than working under coordination of an instructive third party



Price is the key challenge when choosing a supplier and is also the most important topic, followed by delivery time and accuracy.



Most trust that the maritime industry is open to new suppliers, but price sensitivity, certification and specialization are crucial for new entrants.

All participants of this special sections only (n=162)



PR CONTACT: NORA.HIRSCHFELD@HAMBURG-MESSE.DE

