

# S-131 Marine Harbour Infrastructure

#### User Research

Presented by Jo Marks/Chris Gill





#### Summary of phases

- Phase 1- Pre-S-131 standard availability survey interviews to identified users COMPLETE
- ▶ Phase 2 When version 1.0.0 is published we plan to resurvey participants to see if the standards meet their needs and could potentially work with a port to create a trial/test data set.



The survey



- Survey distributed to:
  - UK Harbour Masters Authority Approximately 450 members (via members portal)
  - 105 Port contacts (email)

66 responses representing approximately 100 ports/harbours



Varying sizes:
Largest Annual tonnage
46 300 000
Smallest 30 000





#### What did the survey focus on?

- Supply of data to UKHO
- Data types collect by port
  - Submitted to UKHO
  - Not submitted to UKHO
  - > Not collected by port
  - ➤ N/A Port doesn't have specified attribute
  - \*Data collected not in our list\*
- > Data management
- Data supply methods (current and preferred)





## Data types collected by port

We used a draft of the standard and combined some of the categories for a sensible number of data types.

Data Type	Data Type
Aids To Navigation	Limiting Conditions
Anchorages	Loading/Unloading Facilities (Cranes/Mobile Hoists/Lifts)
Areas of Social/Political importance	Local knowledge
Basins	No-Discharge Zones
Berthing Assistance Services	Repair Services
Berths	Safety Zones
Breakwaters and Jetties	Seaplane harbour/areas
Bridges	Security/Safety/Emergency/Rescue Services
Cables (inc sub-surface, overhead, cable ferries)	Shipping Safety Fairways
Channels	Small-Craft Facilities
Docks	Storage Facilities
Dumping Grounds	Supply Services
Harbour entry/general Information	Transportation Services
Harbour regulations	Vessel Arrival Inspections
Hazards	Waste Disposal Services
	Wharfs



## Conducting the research –

## Data Collection – Key stats

Data supplied

Manume Data Solutions	
Yes - Supplied to UKHO	
Aids To Navigation	78.95%
Harbour entry/general Information	65.79%
Channels	63.16%
Hazards	63.16%
Shipping Safety Fairways	52.94%
Breakwaters and Jetties	52.63%
Harbour regulations	52.63%
Berths	50.00%
Basins	42.11%
Docks	42.11%
Cables (inc sub-surface, overhead, cable ferries)	39.47%
Small-Craft Facilities	38.24%
Dumping Grounds	36.84%
Wharfs	35.29%
Local knowledge	26.47%
Bridges	26.32%
Anchorages	26.00%
Limiting Conditions	20.59%
Berthing Assistance Services	15.79%
Security/Safety/Emergency/Rescue Services	14.71%
Safety Zones	11.76%
Loading/Unloading Facilities (Cranes/Mobile Hoists/Lifts)	5.88%
Repair Services	5.88%
Transportation Services	5.88%
Seaplane harbour/areas	2.94%
Storage Facilities	2.94%
Supply Services	2.94%
Vessel Arrival Inspections	2.94%
Waste Disposal Services	2.94%
Areas of Social/Political importance	2.63%
No-Discharge Zones	0.00%



### Conducting the research –

## Data Collection – Key stats

## Data collected but not supplied

	Maritime Data Solutions	
Yes - NOT supplied to UKHO		
Waste Disposal Services		70.59%
Loading/Unloading Facilities (Cranes/Mobile Hoists/Lifts)		58.82%
Local knowledge		58.82%
Security/Safety/Emergency/Rescue Services		58.82%
Storage Facilities		47.06%
Limiting Conditions		44.12%
Harbour regulations		42.11%
Supply Services		41.18%
Repair Services		38.24%
Small-Craft Facilities		32.35%
Transportation Services		29.41%
Berthing Assistance Services		28.95%
Berths		28.95%
Harbour entry/general Information		28.95%
Wharfs		26.47%
Hazards		26.32%
Safety Zones		23.53%
Breakwaters and Jetties		18.42%
No-Discharge Zones		17.65%
Aids To Navigation		15.79%
Docks		15.79%
Channels		13.16%
Vessel Arrival Inspections		11.76%
Areas of Social/Political importance		10.53%
Bridges		10.53%
Cables (inc sub-surface, overhead, cable ferries)		7.89%
Shipping Safety Fairways		5.88%
Anchorages		5.26%
Dumping Grounds		5.26%
Seaplane harbour/areas		2.94%
Basins		2.63%



## Conducting the research –

## Data Collection – Key stats

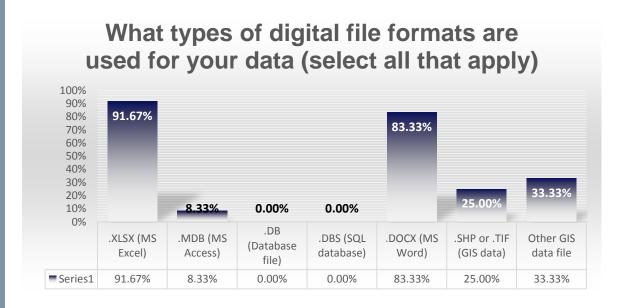
Data not collected

	Maritime Data Solutions	
No - We do not collect this information		
Areas of Social/Political importance	60.53%	
Vessel Arrival Inspections	58.82%	
Transportation Services	38.24%	
Supply Services	35.29%	
Repair Services	29.41%	
Anchorages	26.32%	
Berthing Assistance Services	26.32%	
Bridges	26.32%	
Cables (inc sub-surface, overhead, cable ferries)	23.68%	
Limiting Conditions	23.53%	
Storage Facilities	23.53%	
No-Discharge Zones	20.59%	
Safety Zones	20.59%	
Basins	18.42%	
Security/Safety/Emergency/Rescue Services	17.65%	
Breakwaters and Jetties	15.79%	
Docks	15.79%	
Dumping Grounds	15.79%	
Local knowledge	14.71%	
Seaplane harbour/areas	14.71%	
Berths	13.16%	
Channels	13.16%	
Loading/Unloading Facilities (Cranes/Mobile Hoists/Lifts)	11.76%	
Shipping Safety Fairways	11.76%	
Small-Craft Facilities	11.76%	
Waste Disposal Services	11.76%	
Wharfs	8.82%	
Aids To Navigation	5.26%	
Harbour entry/general Information	2.63%	
Harbour regulations	2.63%	
Hazards	0.00%	



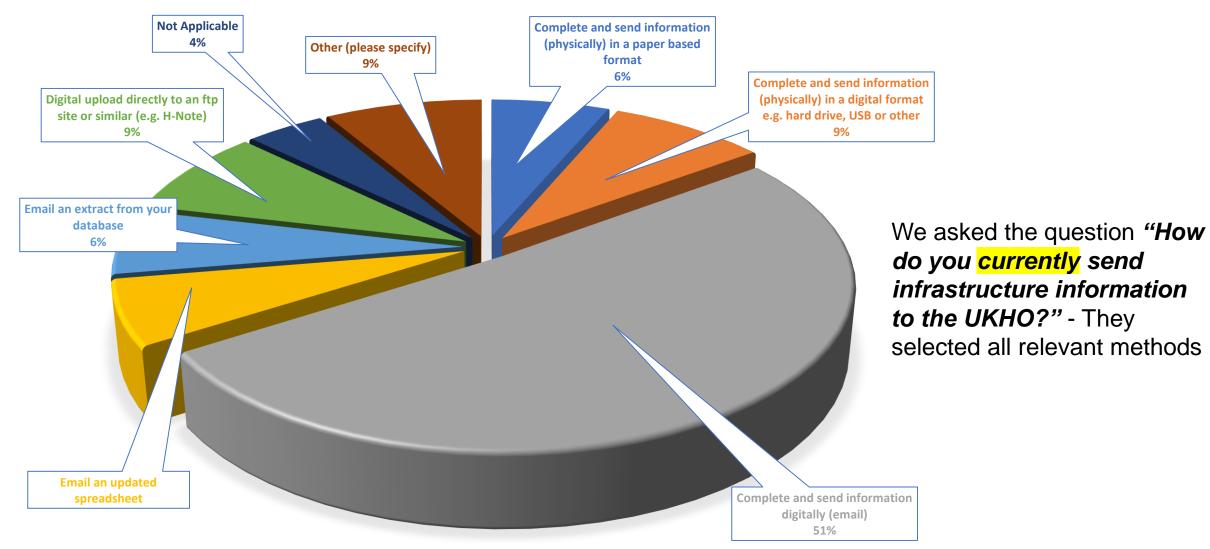
### Conducting the research –

#### Data management



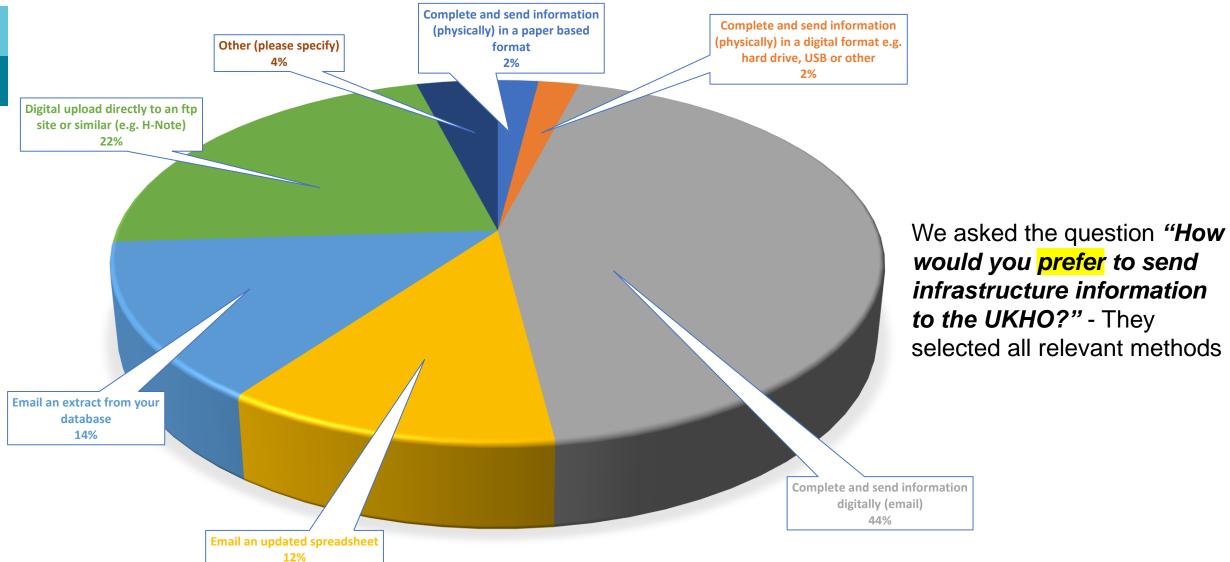
















### Data supply methodsPoints of interest...

- Preferred method to supply data by email drops by 7%
- Preferred method to supply by digital upload increases by 13%
- ➤ The preference to email a spreadsheet doubled whilst the desire to email a database extract more than doubled
- Combined both methods involving manual postage (paper based or physical digital) dropped by 11%





#### Summary

Next steps: When version 1.0.0 is published we plan to resurvey participants to see if the standards meet their needs and could potentially work with a port to create a trial/test data set.

#### **Data collection**

Varying degrees of data is collected, regardless of port size More infrastructure data is collected than sent to UKHO, some infrastructure data is not collected.

#### **Data management**

Management of infrastructure data ranges from analogue to spreadsheets to port management tools. Based on ports surveyed for this research only a third share that information in a GIS based format.

#### **Data supply**

➤ Large variety of how information is supplied but preference for the future is more direct uploading or extracts from databases.