ASSESSING THE VALUE OF A SUPERYACHT





TOPICS



- 1 A short introduction to VesselsValue
- 2 Valuation Methodologies
- 3 Challenges
- The beginning of our Superyacht Valuation Methodology

INTRODUCTION TO VESSELSVALUE

INTRODUCTION TO VESSELSVALUE



The Online Shipping & Offshore Market Intelligence and Valuation Service

- Established 2010
- Offices London (HQ), Isle of Wight (Data), Stoke (Coders), Singapore (Rep)
- Clients 750 logins, 360 companies, 48 countries
- Client types Banks, Owners, Funds, Governments, Regulators, Lawyers
- **People** 75 (from 4 in 2010)
- Press quoted in c.20 articles per week
 across >30 global and regional publications

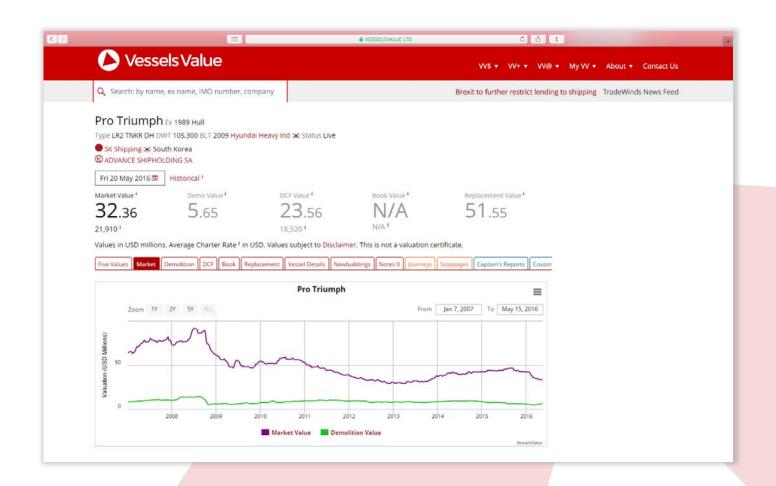


OVERVIEW OF SERVICES





- Daily updated values for Vessels, Companies, Portfolios
- Tankers, Bulkers, Containers,
 LNG, LPG, PSV's, AHTS's
- Accuracy tested and reported
- Full supporting information (time series, transactions etc)
- Instant valuation certificates

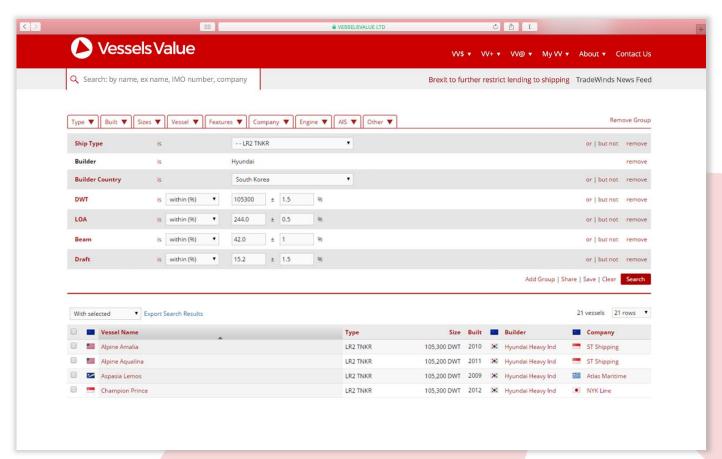


OVERVIEW OF SERVICES





- Advanced functionality:
 Search and compare by any combination of criteria
- Fleet search: vessels,
 companies, specifications,
 incidents, locations,
 laden/ballast
- Deals search: S&P, Newbuilds,Demolitions, Charters

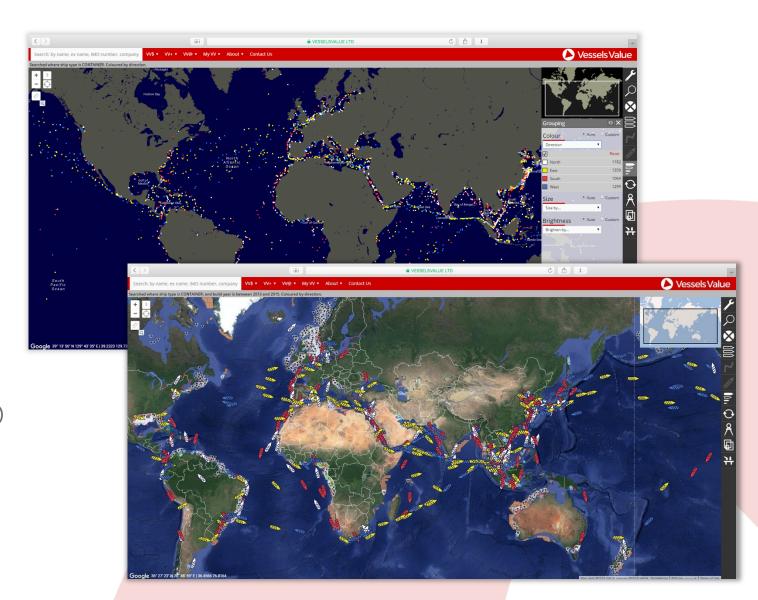


OVERVIEW OF SERVICES





- AIS Satellite and Terrestrial mapping/tracking
- GIS Maritime energy infrastructure (oil fields, platforms, pipelines, SBM's
- Automated alerts (i.e. sanction zones, OSV activity around rigs)



EXECUTIVE OFFICERS





RICHARD RIVLIN — CEO

- 40 years in the shipping market
- Founder of VesselsValue



GEORGINA GAVIN — CCO

- 10 years sales and management experience
- Founding employee at VV



ADRIAN ECONOMAKIS — COO

- 5 years in Energy consultancy
- 6 years VV
- Founding employee at VV
- MSc Shipping, Trade & Finance



BEN DURBER — CFO

- 1st class mathematics and computer programming degree
- 11 years experience in software development
- Founding employee at VV



London

















Isle of Wight











Consultants

Singapore









































































VALUATION METHODOLOGIES

THE 5 VALUES



Alexander the Great Ex New Paradise

Type VLCC DH DWT 298,000 BLT 2010 Universal
Status Live

Crude Carriers Corp 🔚 Greece

© ALEXANDER THE GREAT CARRIERS

Wed 14 Sep 2016 🌃 📗 H

Historical i

Market Value i

32,210 i

11.83

ı

Demo Value ⁱ

31.41

DCF Value i

23,650 i

Book Value i

51.81

31,470 ⁱ

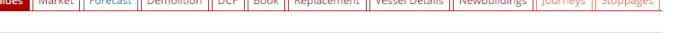
Replacement Value i

83.40

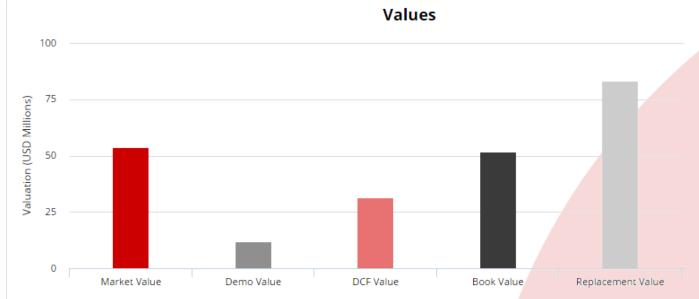
Values in USD millions. Average Charter Rate i in USD. Values subject to Disclaimer. This is not a valuation certificate.





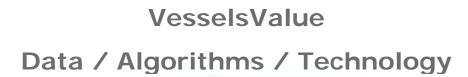


- 2 Demo end of life
- 3 DCF present value of future income
- Book accountants
- 5 Replacement new version





Traditional - Broker







ADVANTAGES OF VV METHOD



ALWAYS OBJECTIVE

IMMEDIATE & ALWAYS AVAILABLE

INTERACTIVE CHARTS & EXCEL EXPORTS

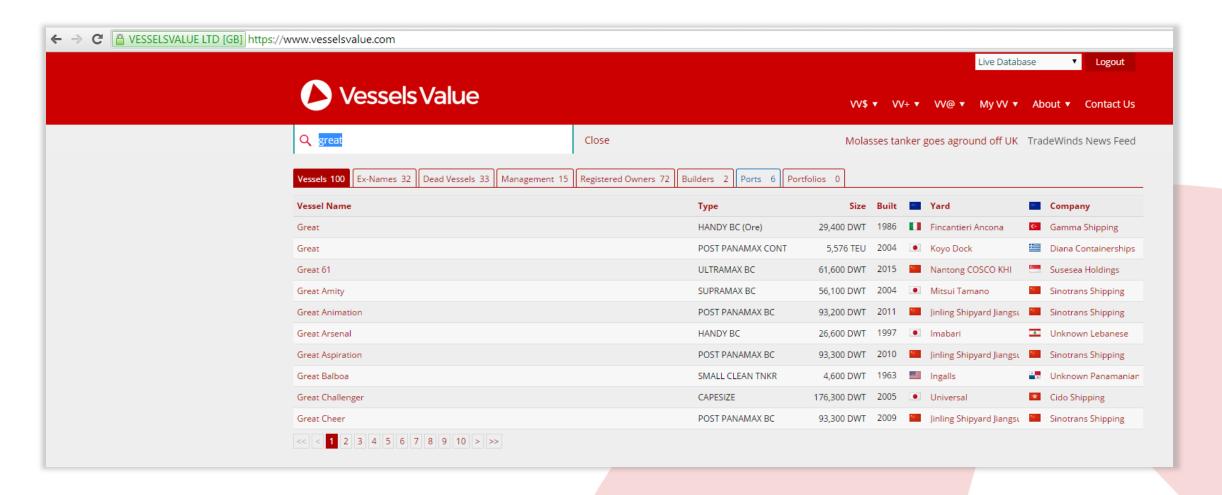
MEASURED ACCURACY

100% CONDIFENTIAL

✓ Vessels Value	TRADITIONAL VALUATION METHODS
	X
	X
	×
	×

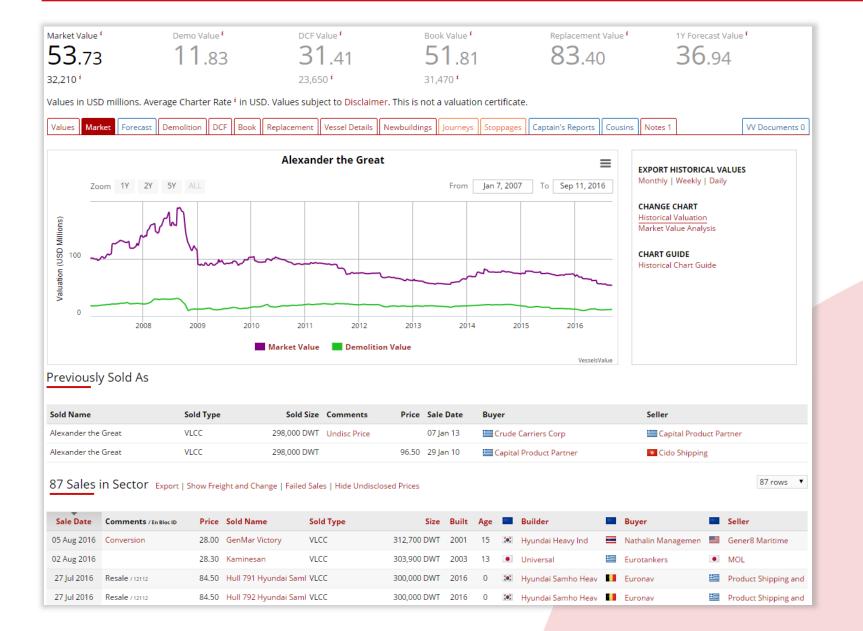
FIND YOUR VESSEL





EXAMPLE VALUATION PAGE





VV MARKET VALUE METHODOLOGY



Daily Recalibration



Type

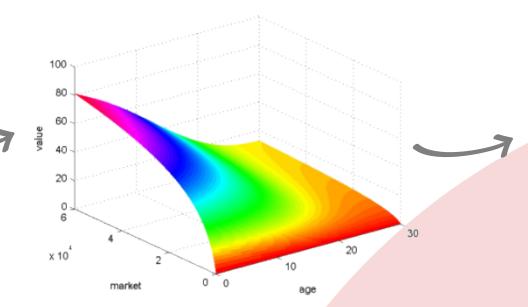
Size

Age

Other features

Transactions

Market sentiment



Instant Access

Ship, Fleet & Portfolio values

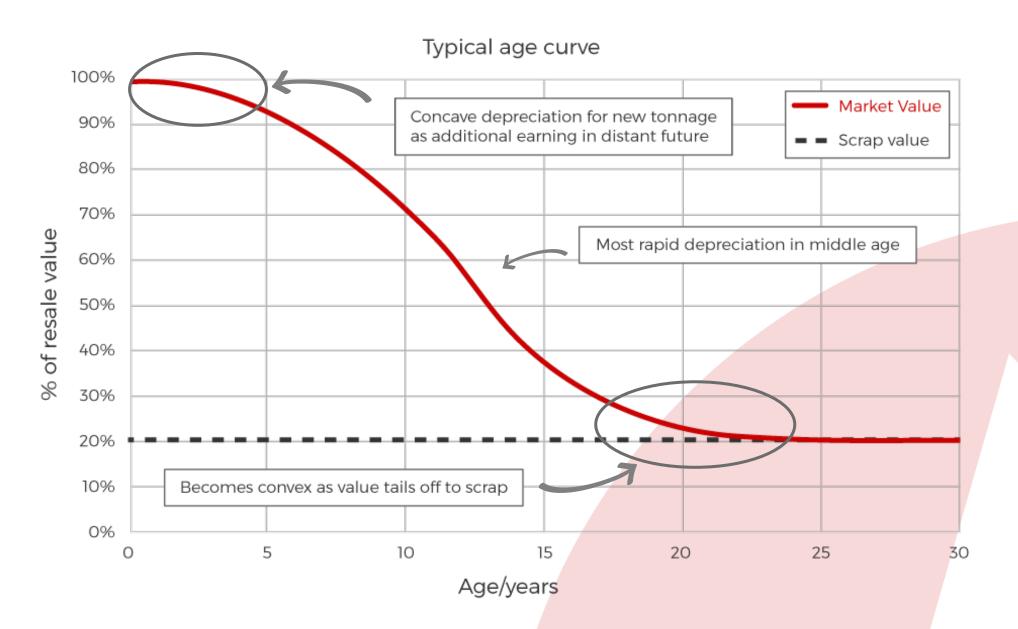
Historical Time Series

Fleet Statistics

Ownership/Relationships

AGE (DEPRECIATION)

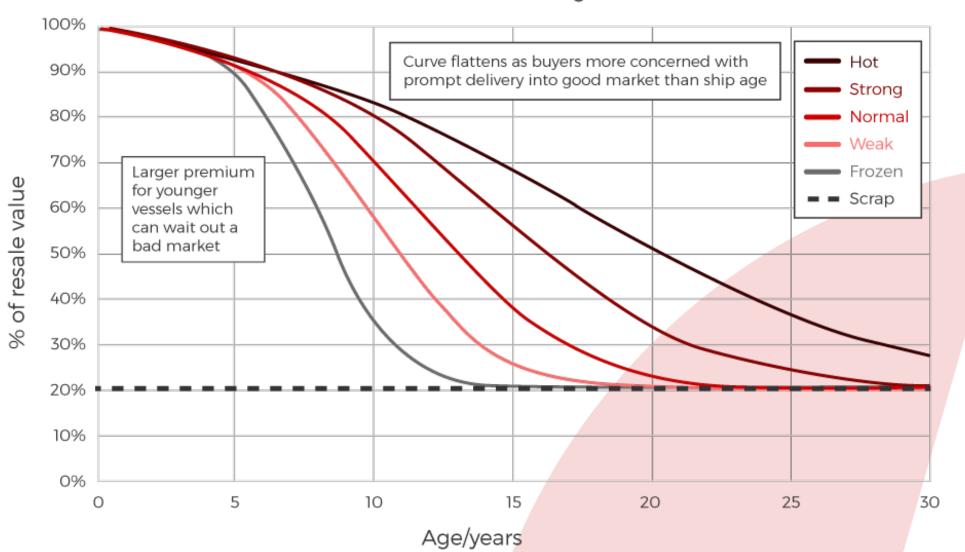




AGE (DEPRECIATION)



Different markets, different age curves



OTHER FEATURES - COMMERCIAL VESSELS



For commercial vessels, do the features help the vessel:

- Save money (i.e. engine efficiency, build quality)
- Make money (i.e. cargo systems, segregations)

Example of bespoke vessel (OSV) features VVs value

- DWT (PSV's)
- Bollard pull / BHP (AHTS's)
- Fire-fighting (FiFi) capability
- Deck strength
- Deck area
- Total accommodation
- Supply capacity (methanol/glycol etc.)
- Dynamic positioning

- Chain capacity
- Chain lockers
- Oil recovery
- Survivor capacity/equipment
- Generators
- Number of winches/drums
- Helideck
- Gearing
- Design

OTHER FEATURES - COMMERCIAL VESSELS



Incorporating features into value

Parameter space too large to model mathematically (the "art" of valuation)

Modelled heuristically through detailed quantitative and qualitative research

Feature scores converted into a logic module which interfaces with algorithms

Scores constantly updated (as trends change)

OTHER FEATURES - SUPERYACHTS



For Superyachts, more tricky:

- How do they make the owner feel?
- Saving money, making money can be secondary
- 2nd hand value (depreciation) may be important

Quantifying "Feel"?

- Taste is personal, especially for UHNWI
- For example most expensive houses are gutted by new owners (see Chelsea mansion, Angelopoulos full refurb quickly followed by Fredriksen full refurb)
- Quality is measurable premium for top outfitter (i.e. Winch), teak decking, paint, appearance
- Critical features are measurable pools, number of hull doors, balconies, commercial coding

OTHER FEATURES - SUPERYACHTS



- Premiums for features change over time and across different vessel classes
- Continuous updating and research required
- Accuracy testing to identify valuation errors
- Feedback loop for continued optimisation of values
- Client use further tightens up values (but must maintain objectivity)
- Benefits of being SPECIALIST VALUATION PROVIDER

MARKET VALUE ACCURACY



Behind the Screens

Accuracy Report

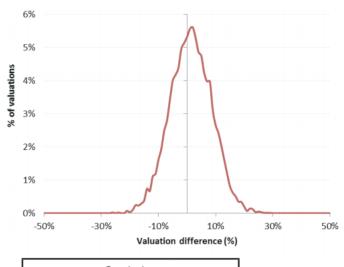
Analysis of valuations vs sales prices from 1.3.2011 to 1.3.2016

Valuation accuracy is assessed as the difference between the prices vessels are sold at and the VesselsValue valuations the day before the sale date. This is expressed as the % of valuations (as % of sales) within certain accuracy ranges and in chart format.

All Vessels (3633)

Sales	3633				
Mean age (yrs)	14				

Accuracy Range	% of Transactions					
+/- 1%	15.4%					
+/- 2%	25.4%					
+/- 3%	35.7%					
+/- 4%	45.7%					
+/- 5%	54.3%					
+/- 10%	84.9%					
+/- 20%	99.4%					
+/- 30%	100.0%					



Statistics					
Mean	0.8%				
Std dev	7.2%				

CHALLENGES

TRANSACTIONS



Transactions are the most significant variable to value

Valuation has been received from accredited brokers for all vessels. Due to a limited number of sale and purchase transactions in the current market, there is a large uncertainty related to the received broker estimates.

Notes on public shipping companies accounts

TRANSACTIONS



S/H Liquidity important (but not critical)

- VV Sparse market model (newbuild prices + depreciation + feature scores)
- NB prices, hard to find but not impossible
- Aviation true NB price is c40% of published prices by manufacturers / airlines (found out through research)

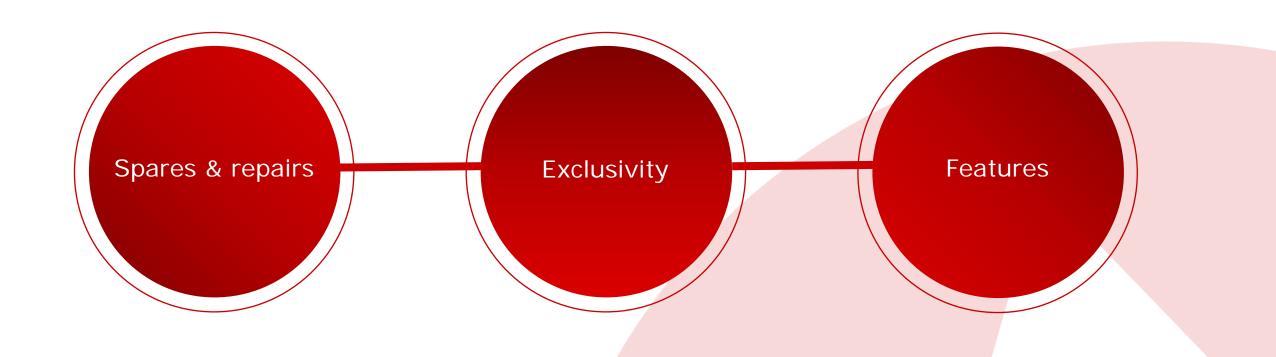
Transaction transparency very important

- Difficult to find true prices (newbuild and S/H)
- Lack of reporting / confidentiality
- Identifying other factors that may have affected the price (sold with finance, discount for personal relationships, distressed sale)
- Specifications and effects of value critical when analysing / using transaction (better vessels sell for more, must be separated from effects of the market)

LEVEL OF CUSTOMISATION



- Are one-off vessels more valuable than a series?
- Are there buyers for one-offs?



MARKET REACTION



Some Negative

Vessels Value does not know what they are doing and should concentrate on assessing the value of tankers and bulk carriers.

Norweigan Shipowner X, quoted in Dagens Naeringsliv (a Norwegian daily newspaper) in May 2016

Some Positive

Vessels Value have come a long way in setting the standard for blue sea shipping in precise, prompt valuations in a relatively short period of time. By applying similar metrics along with known differentiators in the offshore space they will achieve this too with their offshore product. ??

Singaporean Offshore Broker Y

DEALING WITH FANTASY



Huge variation in values provided by brokers

For example, same AHTS (blt 2016, 28k bhp), same day, charter free market value:

Far East offshore broker: USD 30m

Scandinavian offshore broker: USD 90m

c.200% spread, very limited supporting evidence = lack of confidence in values

REALITY







31 Sales in Sector Export Failed Sales Hide Undisclosed Prices										31 rows ▼			
Sale Date	Comments / En Bloc ID	Price	Sold Name	Sold Type	Size	Built	Age	-	Builder		Buyer	-	Seller
15 Apr 2016	Undisc Price		Pacific Brigand	AHTS (Large)	12,240 BHP	1998	18	+	Ulstein Verft		Red Sea International	0	Swire Pacific Offshore
03 Mar 2016	Undisc Price		Far Sea	AHTS (Very Large)	13,219 BHP	1991	25	#	Simek		Unknown	#	Farstad Shipping
19 Feb 2016		7.00	Union Bear	AHTS (Very Large)	15,000 BHP	1999	17		Kleven Verft	=	Smit International	XI.	Ship Finance Internat
18 Feb 2016		7.00	Sea Lynx	AHTS (Very Large)	15,000 BHP	1999	17	#	Loland Verft	_	Smit International	#	Deep Sea Supply
29 Jan 2016	Undisc Price		Hull 1152	AHTS (Super Large)	21,760 BHP	2017	-1	;• ;	SPP		Unknown	П	Rimorchiatori Riuniti
27 Jan 2016		1.30	Normand Skarven	AHTS (Very Large)	13,196 BHP	1986	30	#	Ulstein Verft	0	Karadeniz Holding	#	Solstad Offshore
23 Dec 2015	Undisc Price		Normand Drott	AHTS (Large)	12,000 BHP	1984	31	#=	Ulstein Verft	ш	SeaOwl France	#	Solstad Offshore
05 Nov 2015	Bank Sale	25.00	Malaviya Nine	AHTS (Very Large)	14,998 BHP	2008	7		Amursky		Unknown		GOL Offshore
15 Oct 2015	Undisc Price		Maersk Chignecto	AHTS (Large)	10,880 BHP	1983	32	(0)	Hyundai Heavy Ind	ē	Armamex Naviera SA	#	Maersk Supply Servic
28 Sep 2015	Undisc Price		Maersk Promoter	AHTS (Very Large)	15,598 BHP	1992	23	#	Vard Soviknes	+	Unknown Greek	+	Maersk Supply Service
14 Jul 2015		15.00	Pacific Banner	AHTS (Large)	12,240 BHP	1998	17	#	Ulstein Verft	-	Tag Offshore Ltd	Q.	Swire Pacific Offshor

Newbuilding History

Yard Hull No	Sold Type	Sold Size Comments	En Bloc Count	Price Sale	e Date	Buyer	Builder
802	AHTS (Super Large)	28,000 BHP		119.00 10 Fe	Feb 14	Bourbon	₩ Vard Brattvaag



Values and prices may have a large spread

Full supporting information can fill in the gaps

Information is power

BENEFITS VV MAY BRING TO SUPERYACHT FINANCE



Help increase bank lending – capital adequacy rules

Better informed owners - break the monopoly of information

Increased competition – better pricing

THANK YOU



Adrian Economakis

