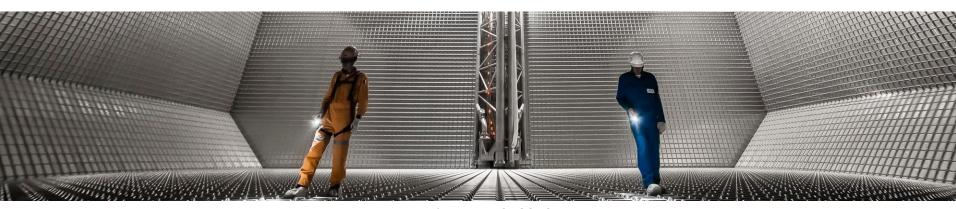


# **Investor Presentation**

#### 2017 Full Year Results



February 19, 2018

Safety Excellence Innovation Teamwork Transparency

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# Agenda

- 1. Company overview
- 2. Market update
- 3. Business activity
- 4. Financials
- 5. Outlook
- Appendices



1

Company overview



# GTT, a French engineering company, global leader in liquefied gas containment systems

#### **Profile**

- Leading engineering company
- Expert in liquefied gas containment systems
- More than 50-year track record

#### **Activities**

- Designs and licenses membrane technologies for containment of liquefied gas
  - Core business: LNG transportation and storage
  - New business: LNG as a fuel for vessel propulsion
- Provides design studies, construction assistance and innovative services

#### Consolidated key figures

in € million	2016	2017
Total Revenues	237	232
Royalties (newbuild) Services	227 10	218 14
Net Income	120	116



As at December 2017
333 employees<sup>(1)</sup>



## Key Highlights

Core business: orders upturn in 2017: 21 new orders vs 5 in 2016 / already 4 since beg. 2018

#### **CORE BUSINESS**

Order book: 89 units

71 LNGC/VLEC<sup>(1)</sup> 2 FLNG

13 FSRU/RV<sup>(1)</sup> 2 Onshore storage

1 Barge

2017 movements in the order book

New orders: 21 (12 LNGC, 8 FSRU, 1 FLNG)

Deliveries: 28 (24 LNGC/VLEC, 3 FSRU, 1 FLNG)

Emergence of LNG fuel: CMA CGM 1st ever LNG Fuel order for GTT (Q4)

#### **NEW BUSINESS (LNG FUEL)**

Order book: 9 Ultra Large Container Ships (ULCS)

- Partnerships with Wärtsilä (Finland), DSEC (South Korea) and Cosco Heavy Industries (China)

- New service offering
  - Global service agreement with Teekay (Q1) and Chevron (Q4)
  - Service contract for Shell Prelude FLNG (Q4)
- Acquisition of Ascenz (Q4)
  - Closing of the transaction: 31 January 2018
- Dividend maintained<sup>(2)</sup> at €2.66 per share

Notes: LNGC – Liquefied Natural Gas Carrier, VLEC – Very Large Ethane Carrier, FSRU – Floating Storage and Regasification Unit, RV – Regasification Vessel, FLNG – Floating Liquefied Natural Gas ,ULCS – Ultra Large Container Ships

(1) Including a LNGC order conversion into a FSRU order

(2) Subject to AGM approval

**New orders: 9 ULCS** 



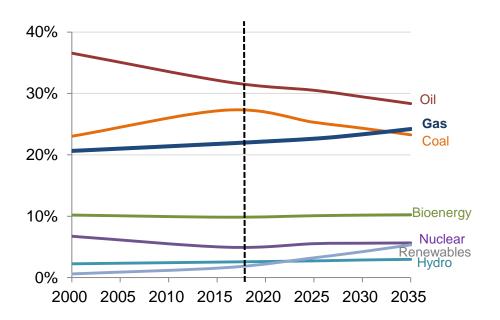
# 2

Market update



# Overall long term outlook bright for gas and LNG

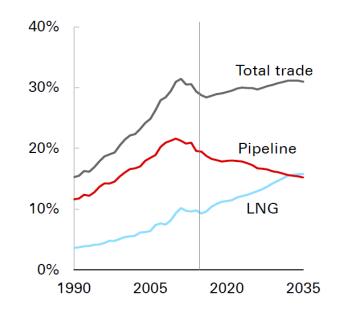
#### Gas share in the energy mix



# Gas is the only fossil energy to increase share in the energy mix

- Gas is expected to exceed coal by 2035
- Drivers: environmental properties, price and availability

#### LNG share in total gas trade



# Gas is increasingly exported thanks to LNG

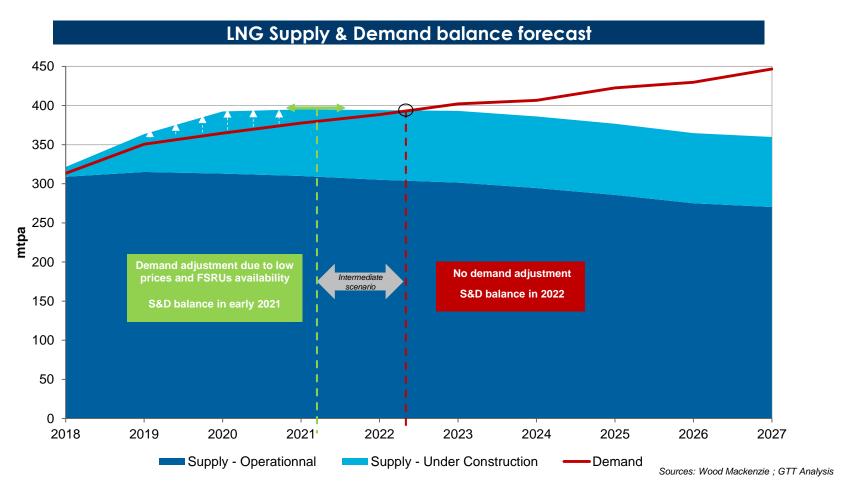
- LNG to overpass pipeline trade by 2035
- Driver: greater flexibility



Source: AIE (World energy outlook, GTT

Source: BP base case 2017 & 2016

# LNG Supply & Demand could balance from early 2021

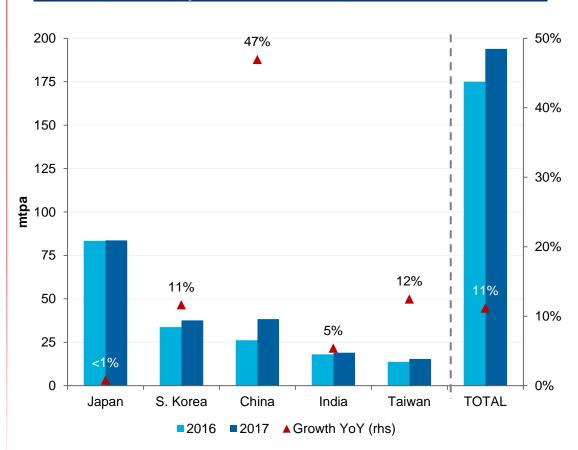


- Thanks to a vigorous demand, the expected oversupply by 2021 has reduced vs. previous forecasts
- New FIDs are expected in 2018



# Asian LNG imports growing in 2017 vs. 2016 due to structural energy mix evolution

#### Top-5 LNG importers demand comparison 2017 vs. 2016



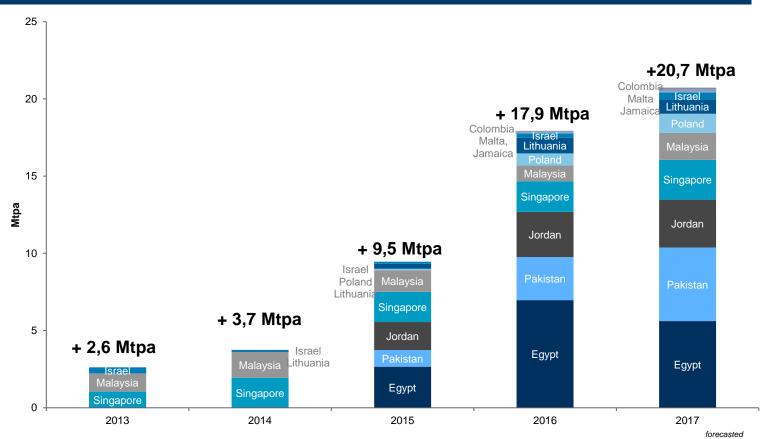
- Demand of top-5 LNG importing countries (2/3 of imports) grew by 11% in 2017 vs. 2016, mainly due to:
  - Coal to Gas switch, especially in China due to environmental considerations and LNG competitiveness vs. coal
  - Lower nuclear restart, especially in Japan due to social and legal issues
- China has over taken South Korea as #2 LNG importer
- Coal progressive slowdown in China and South Korea expected to strengthen in the mid/long term

Main sources: National Custody Agencies and Ministries; Wood Mackenzie



# New importing countries contribute to demand growth





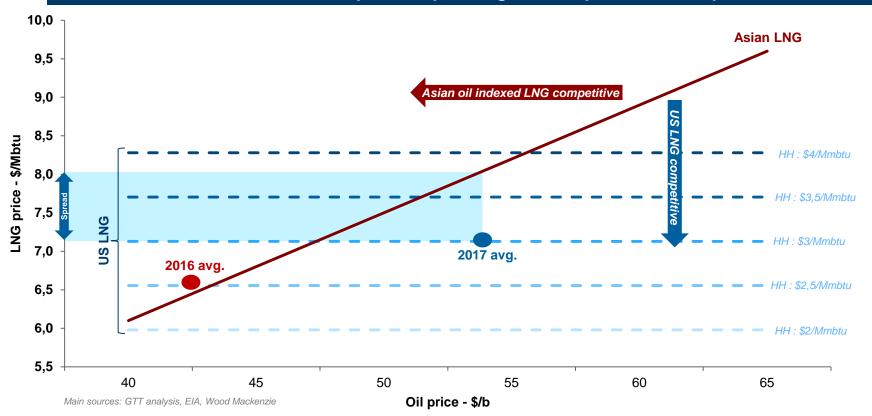
- ~7% of worldwide demand
- 40% of the additional demand since 2012



Source: Wood Mackenzie

# US LNG is competitive in Asia

#### US LNG vs. Asian LNG price depending on Henry Hub and Oil prices



- 2017 avg : JCC = \$53/bl and Henry Hub = \$3,0/Mmbtu
  - US LNG ≈ \$7.1/Mmbtu
  - Asian LNG ≈ \$8.0/Mmbtu

#### Hypothesis

#### US LNG:

- HH+15%
- · Tolling Fee: 2.25\$
- Shipping: 1.43\$ (US East ->Japan, 174k cbm Me-GI or X-DF)

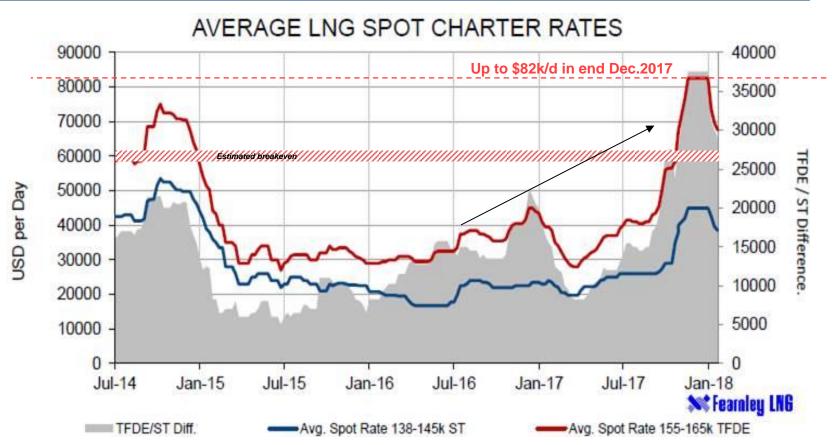
#### Asian LNG:

- · Slope: 14% of JCC price
- · Constant: 0.5\$



## LNG Shipping: spot market recovering trend

#### Spot chart rates evolution since 2011



- Recovering trend since 2016
- Currently reaching levels not observed for 4 years; above breakeven



# LNG Shipping: c.40 LNGC orders expected from under construction projects

LNGC requirements for under construction liquefaction projects						
Project	Location	Forecasted Start-Up	Contracted Capacity (mtpa)	LNGCs requirement		
Cameroon GoFLNG	Cameroon	Q2-18	1,2			
Wheatstone LNG T2	Australia	Q2-18	4,0			
Ichthys	Australia	Q2-18	8,5			
Prelude FLNG	Australia	Q3-18	3,6			
Yamal LNG T2	Russia	Q4-18	4,9			
Elba Island LNG Export	USA	Q4-18	2,5			
Freeport T1	USA	Q1-19	4,6			
Corpus Christi LNG T1	USA	Q1-19	4,5			
Cameron LNG Export T1	USA	Q2-19	4,0			
Cameron LNG Export T2	USA	Q3-19	4,0			
Sabine Pass Export Train 5	USA	Q2-19	4,5			
Freeport T2	USA	Q3-19	4,4			
Corpus Christi LNG T2	USA	Q2-19	4,5_			
Yamal LNG T3	Russia	Q3-19	4,9			
Freeport T3	USA	Q1-20	4,4			
Sengkang LNG	Indonesia	Q1-20	0,5			
Cameron LNG Export T3	USA	Q1-20	4,0			
PETRONAS FLNG 2	Malaysia	Q3-20	-			
Tangguh Phase 2	Indonesia	Q1-21	3,8			
Coral LNG	Mozambique	Q1-22	3,4			
			TOTAL	122.4		

TOTAL	132,4
- Current Orderbook*	86,3
- Overcapacity**	9,5
Expected orders	36,7

Project ahead of schedule or catching-up

Project in time

Project behind schedule or slowing-down

Projects associated with 2016 – 2017 LNGCs orders

Note: All LNGCs numbers normalized to 174k cbm gross capacity (164.4k cbm net)

- 12 LNGCs ordered in 2017 confirming market needs
- Still, c.40 LNGCs to secure to lift additional volumes
  - Vessels to be ordered mainly by 2018-2019
     (2-3 years construction time)
  - Downside risks:
    - Start-up delays and/or slow ramp-up
    - Additional LNG contracts swapping (shorter routes)
    - Spot vessels utilization as a bridging solution
- Wide majority of 2016 and 2017 LNGC orders were dedicated to projects under construction, with some speculative orders reflecting a short/mid term market confidence



<sup>\*</sup> Vessels on order for currently operational projects not counted

<sup>\*\*</sup> Recent / Competitive vessels: ≥160k cbm, D/TFDE, <30 y.o.

# Many liquefaction projects ready to be sanctioned soon in order to accompany demand growth

#### Several major liquefaction projects in planning phase with a potential FID in 2018

				Project Milestones						
Name	Operator	Country	Capacity (Mtpa)	Feedgas Availability	Concept/ Engineering	Environmental	Regulatory	Participation	Marketing	Financing
Fortuna FLNG	Ophir	Eq. Guinea	2.2							
Corpus Christi T3	Cheniere	USA	4.5							
Sabine Pass T6	Cheniere	USA	4.5							
Golden Pass	Golden Pass Prod.	USA	15.6							
Magnolia LNG	LNG Ltd	USA	8.0							
Cameron Expansion	Cameron LNG	USA	10.0							
Woodfibre LNG	Pacific O&G	Canada West	2.1							

Milestone reached or about to be reached

Progress is being made but details are not finalised

Fortuna FLNG and Corpus Christi T3 are the most likely to be sanctioned in 2018



# 

Business activity

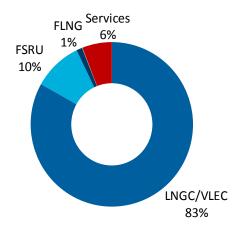


# Core business



### Core business

#### GTT 2017 Sales



#### GTT order estimates over 2018-2027

- LNGC: 225-240 units
  - 12 orders in 2017
- FSRU: between 30 and 40 units
  - 8 orders in 2017
- FLNG: between 5 and 10 units
  - 1 order in 2017
- Onshore tanks: between 5 and 10 units









#### LNGCs – Our main business

- Vessels equipped for transporting LNG
- Existing GTT fleet: 334 units
- In order: 71 units
- 24 construction shipyards under license



#### Our strengths

- Technological leadership, boil-off divided by 2 in the last 5 years
- Long term industrial partnerships with major shipyards
- A unique position in the LNG ecosystem, nurtured by 50 years of experience, expertise and customer orientation



# FSRUs – The game changer for new importing countries

- Major competitive advantage vs. land-based terminals:
  - Quick to build/deploy & mobile
  - Better local acceptability & easier permitting
  - Affordable / no upfront CapEx
  - Adapted to more volatile LNG prices
  - Quality controlled construction in shipyards with available and skilled workforce



- More than 30 FSRUs currently in service or under construction
- In order: 13 (incl.8 orders of since January 2017)
- Worldwide development
  - Asia (India, China, ...)
  - Europe (Turkey, Croatia, ...)
  - South & West Africa
  - LatAm & Carribeans







#### FLNGs – the new frontier of the LNG world

 Floating units which ensure treatment of gas, liquefy and store it

Existing GTT fleet: 2 units

In order: 2 units



#### Main drivers

- Monetisation of stranded offshore gas reserves
- Better acceptability (no NIMBY syndrom)

#### GTT key advantages

- Extended amortization perspectives
- Deck space available for liquefaction equipment
- More affordable cost

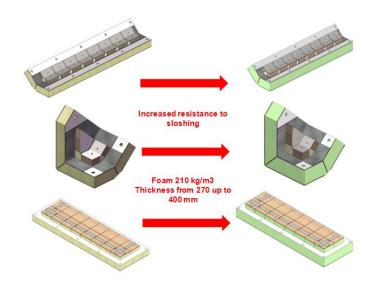


New businesses: LNG Fuel

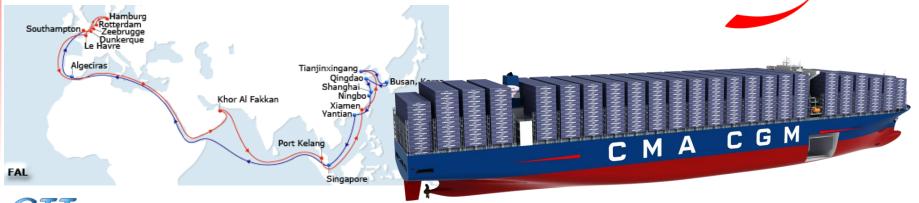


#### LNG Fuel focus – CMA CGM order

- 9 Ultra Large Container Ships with LNG integrated membrane tanks of 18,600 cbm each
  - Space optimization
  - Designed for one bunkering operation per round trip
- Mark III Flex technology for the fuel storage system
  - Sea proven technology
  - Guaranteed Boil Off Gas
  - Flexibility to handle and store Boil Off Gas (maximal pressure of 700 mbarg)
- Positive impact on global LNG demand
  - LNG Consumption of 300,000 tons per year for the 9 vessels, i.e. eq. 0.1% of LNG global production

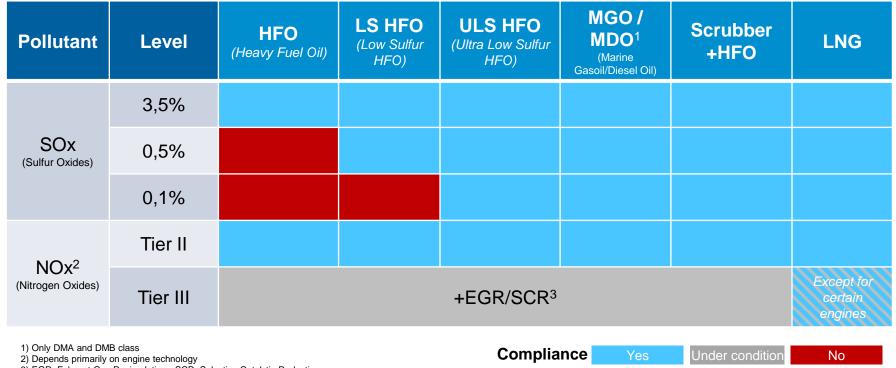








# LNG is the only solution allowing comprehensive environmental compliance

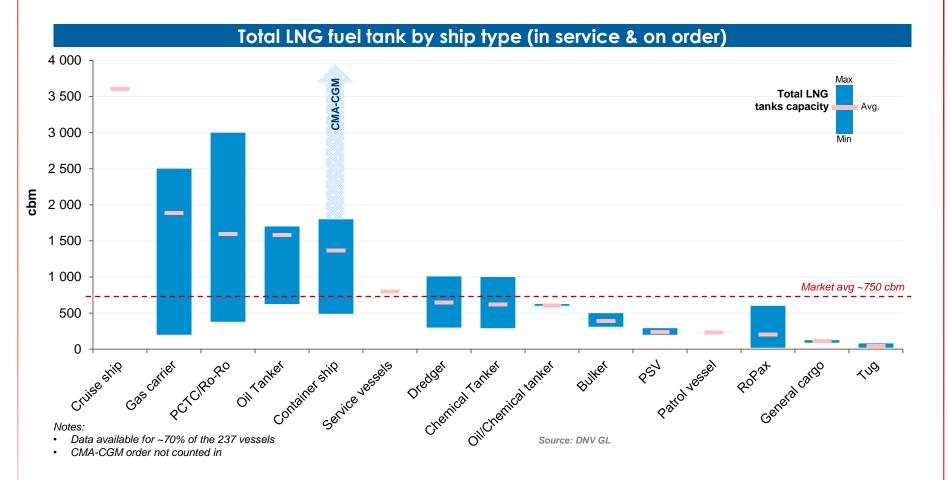


3) EGR: Exhaust Gas Recirculation : SCR: Selective Catalytic Reduction

- LNG is the only mature solution directly compliant with all environmental regulations
- Implementation of NOx reduction in Northern Europe will degrade oil fuel's and Scrubber's competitiveness



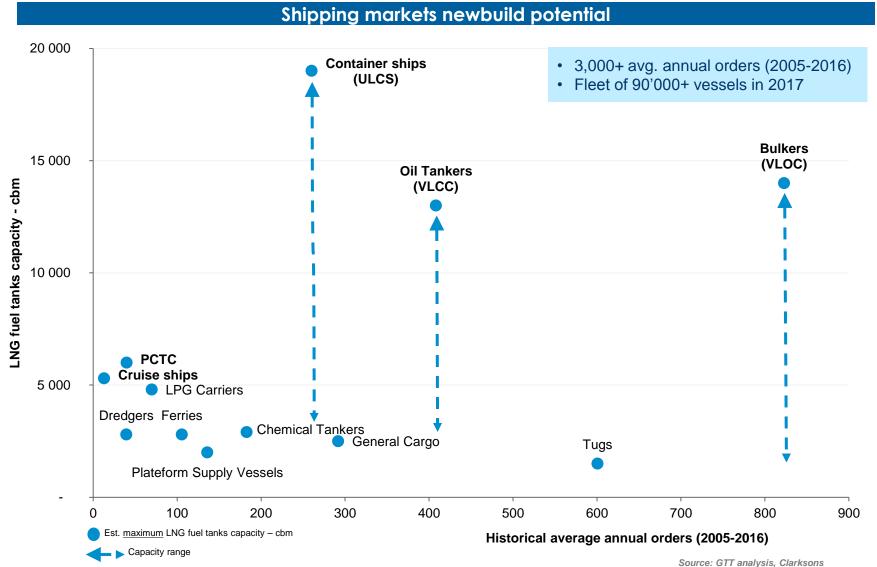
#### Current LNG Fuel market situation



- A recent market which has started with small ships and where Type C technology has been preferred (tugs, ferries, PSV, ... with LNG tanks up to several hundreds of m³)
- Large vessel segment, where GTT technologies are the most relevant, is just emerging (container ships, bulkers, ... with several thousands of m<sup>3</sup> and more)



# LNG Fuel market potential: to be driven by newbuilds





# LNG Fuel market potential for GTT

Shipping Markets	Relevant Market Segments for GTT	Historical avg. annual orders (2007-2016)	Fleet at end 2017				
Tier 1							
Container Ships			~4,700				
Bulkers	Large to Ultra Large	~320					
Oil Tankers							
Cruise Ships	> 2,000 passengers	~13	~400				
Car & Truck Carriers	> 6,000 CEU	~23	~400				
Tier 2							
Container Ships							
Bulkers	Medium to Large	~815	~13,500				
OilTankers							

Source: GTT analysis, Clarksons

- Global addressable market represents a pool of ~1,170 ships per year (newbuilds)
- GTT is particularly focusing on Tier 1 which represents an addressable segment of ~ 360 ships per year
- LNG as Fuel penetration will mainly depend on spread between LSHFO and LNG price



### GTT's LNG Fuel solutions offering

GTT has developed solutions for the main applications of LNG Fuel

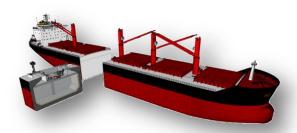




Solutions for Container Vessels new build and retrofit

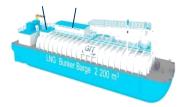


Cruise Ship – optimizing the space for additional passengers



Cost effective solution for bulk carriers





Lean bunker barge to standardize the market

A wide network of partnerships is being set up to benefit from these various opportunities



# Service activity



# Expand innovative services offer: customised services package fitting industry expectations



- Feasibility studiesFEED
  - On-site technical assistance

certification

Materials

Gas trials



#### **OPERATIONS**

 Training courses and customised training simulator



Smart on-board services

CRYOMETRICS



- Emergency hotline
- On-board technical assistance



#### **MAINTENANCE**

- Inspections, maintenance and repair assistance
- Smart membrane test solutions





Engineering support for retrofit, conversion, life extension projects



#### Ascenz transaction

- Acquisition of 75% of the share capital from founders and several investment funds
- Founders to retain 25% of the share capital and continue to manage the company
- Funded in cash
- Transaction closed on 31 January 2018
- No significant impact on GTT's financial structure
- Commercial and technical synergies

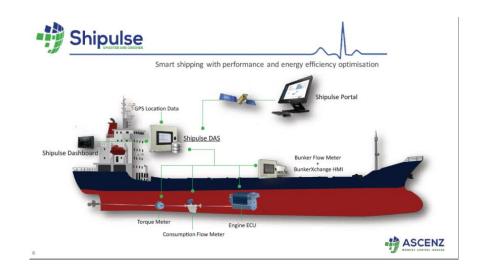




## Ascenz is a dynamic EMS<sup>1</sup> provider

#### Activities, markets & awards

- Based in Singapore, founded in 2008
- Provides remote fuel consumption and bunkering monitoring solutions
- Positioned on fast growing markets
- Markets: Offshore Supply Vessels (OSV), container ships, oil and crude carriers, bulk carriers, bunker ships and gas carriers (target) – 360+ ships equiped
- Recipient of the 2016 Singapore
   « Enterprise 50 award » for local
   companies excelling in their domain,
   Founders nominated as Singapore's EY
   Entrepreneurs of the year 2017
- Track record in real time data acquisition for a fleet of vessels





# GTT's strategic roadmap

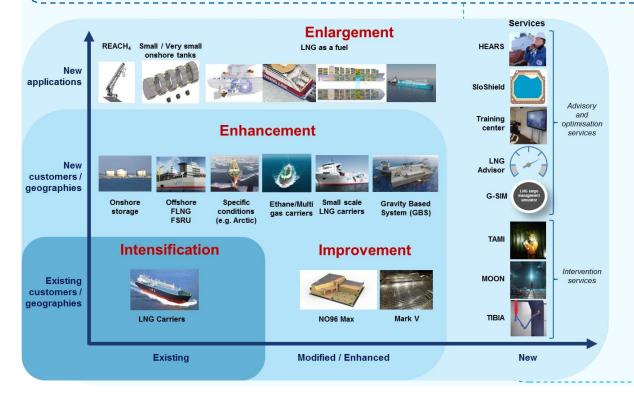
#### Gas handling technologies

Fuel Gas handling system for vessels

#### Growth, Technology, Transformation

Superior LNG
gas handling
systems
Superior LNG
Adv

Advanced decision support systems



Framework service and maintenance contract (Shell Prelude)





**Smart shipping** 



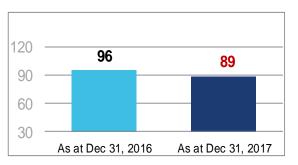
Financials



## Order book overview (core business) - IAS 18

#### Order book in units

In units

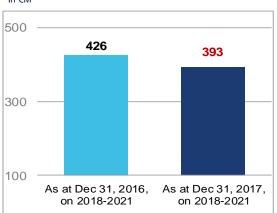


# Order book by year of delivery (units per year)

13 40 20 21 20 2018 2019 2020 2021 As at Dec 31, 2016 As at Dec 31, 2017

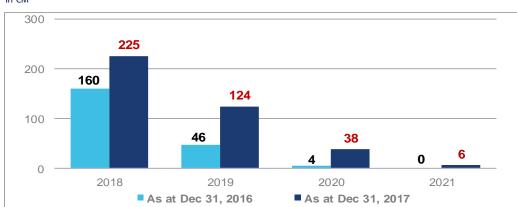
#### Order book in value

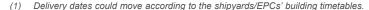
#### In €M



#### Revenues expected from current order book (royalties<sup>2</sup>)

In €M





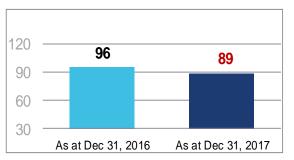
<sup>(2)</sup> Royalties from core business, i.e. excluding LNG as Fuel, services activity.



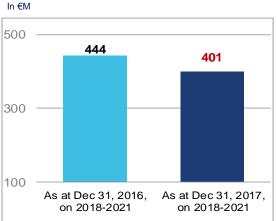
# Order book overview (core business) – IFRS 15

#### Order book in units

In units

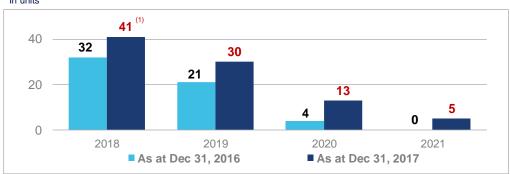


Order book in value



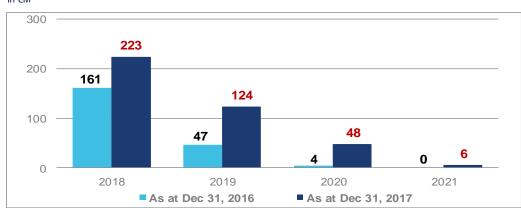
#### Order book by year of delivery (units per year)

In units



#### Revenues expected from current order book (royalties<sup>2</sup>)

In €M





Royalties from core business, i.e. excluding LNG as Fuel, services activity.



# Consolidated accounts

- Consolidated accounts prepared for the first time in 2017
- 2016 comparatives restated to show consolidated figures
- Consolidation perimeter excluding ASCENZ (closing signed on 31 January 2018)

			% of interest		Consolidation method	
Name	Activity	Country	31-Dec-17	31-Dec-16	31-Dec-17	31-Dec-16
Cryovision	Maintenance services	France	100,0	100,0	FC	FC
Cryometrics	On board services	France	100,0	100,0	FC	FC
GTT Training	Training services	United Kingdom	100,0	100,0	FC	FC
GTT North America	Sales office	United States of America	100,0	100,0	FC	FC
GTT SEA	Sales office	Singapore	100,0	100,0	FC	FC



# 2017 financial performance

Summary consolidated accounts				
In € M	Proforma 2016	2017	Change	
Total Revenues	237.0	231.6	-2,3%	
EBITDA <sup>(1)</sup>	146.4	142.1	-2.9%	
Margin (%)	61.8%	61.4%		
Operating Income	142.1	138.4	-2.7%	
Margin (%)	60.0%	59.7%		
Net income	119.9	116.2	-3.0%	
Margin (%)	50.6%	50.2%		
Free Cash Flow <sup>(2)</sup>	109.0	117.3	+7.6%	
Change in Working Capital <sup>(3)</sup>	32.8	21.3		
Capex	4.5	3.4	-24.0%	
Dividend paid	99.7	98.6	-1.1%	

in € M	Proforma 31/12/2016	31/12/2017	
Cash Position	78.2	99.9	+27,7%
Working Capital Requirement <sup>(4)</sup>	-0.5	20.8	

<sup>\* 2017</sup> Accounts restated from the impact of provision for tax adjustment

### Key highlights

- Limited decrease in revenues (-2.3% in FY 2017 vs -4.7% in H1)
  - Revenues derived from royalties: -3.9%, still reflecting the difficult market environment in 2016 which resulted in a low level of new orders
  - +36% increase in Service revenue, mainly thanks to good performance of maintenance services
- Lean cost management
  - Reported net margin > 50%
  - One-off items:
    - CIR claims 2009-11 & 2013: +€3.5 M
    - Provision for tax adjustment: -€15.2 M
  - Excluding the impact of the tax provision,
     increase in net margin ratio from 50.6% to 56.8%
     (+6pts)
- Low Capex
- Change in working capital (+€21.3 M) mainly due to cut-off effect (account receivable paid in January)
- Cash position up to €100 M despite strong pay-out (>80%)



<sup>(2)</sup> Defined as EBITDA - capex - change in working capital

<sup>(4)</sup> Defined as trade and other receivables + other current assets - trade and other payables - other current liabilities



<sup>(3)</sup> Defined as December 31, 2017 working capital – December 31, 2016 working capital

# Cost base

GTT consolidated operational costs				
in € M	2016	2017	Change (%)	
Cost of sales	(2.0)	(1.8)	-10%	
% sales	-1%	-1%		
Subcontracted Test and Studies	(18.0)	(12.6)	-30%	
Rental and Insurance	(5.6)	(5.8)	4%	
Travel Expenditures	(9.4)	(8.6)	-9%	
Other External Costs	(11.3)	(9.9)	-13%	
Total External Costs	(44.3)	(36.8)	-17%	
% sales	-19%	-16%		
Salaries and Social Charges	(36.3)	(34.3)	-6%	
Share-based payments	(0,9)	(0,8)	-6%	
Profit Sharing	(6,0)	(6,1)	1%	
Total Staff Costs	(43.2)	(41.2)	-5%	
% sales	-18%	-18%		

2.4

1%

3.7

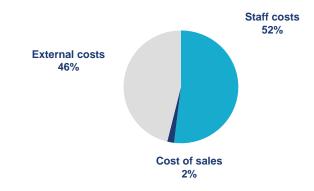
2%

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- External costs: -€7.5 M (-17%)
  - Subcontractors: -€5.4 M
  - Travel costs -€0.8 M
  - Other external costs -€1.5 M
- Staff costs down 5% due to a decrease in staff count

#### GTT 2017 costs<sup>(1)</sup> by nature



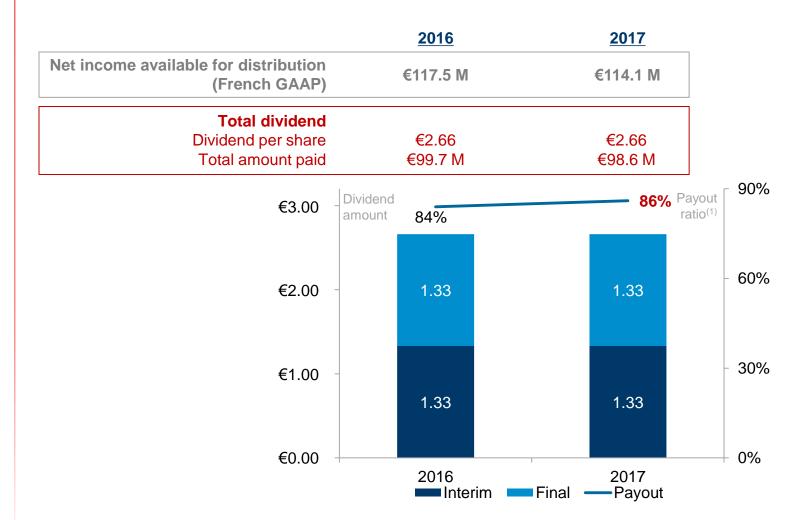


Other<sup>(1)</sup>

% sales

<sup>(1)</sup> Excluding depreciations, amortisations, provisions and impairment of assets

# Dividend





# 

# Outlook



## 2018 Outlook

**GTT** revenue<sup>(1)</sup>

2018 consolidated revenue estimated in a range of €235 M to €250 M

**EBITDA** 

2018 consolidated EBITDA estimated in a range of €145 M to €155 M

Dividend Payment<sup>(2)</sup>

- 2018 dividend amount at least equivalent to 2015 2017
- 2019 payout of at least 80%

<sup>(2)</sup> Subject to approval of Shareholders' meeting. GTT by-laws provide that dividends may be paid in cash or in shares based on each shareholder's preference



<sup>(1)</sup> In the absence of any significant delays or cancellations in orders. Variations in order intake between periods could lead to fluctuations in revenues

### A wide range of applications integrating GTT technologies









# Thank you for your attention



















Image courtesy of STX, Engie, Excelerate, SCF Group, Shell, CMA CGM, Matthieu Pesquet, Conrad



# Appendix



# A proactive sustainable development policy

### Environmental responsibility

#### Stakeholders

- Core business
  - Performance of GTT systems
  - Safety of installations and crew
- New business
  - Development of LNG Fuel
- Services
  - LNG training sessions for customers and partners
  - Hotline for shipowners

#### **GTT**

 Environmental responsibility at site

### Social responsibility

# CSR responsibilities form an integral part of GTT project

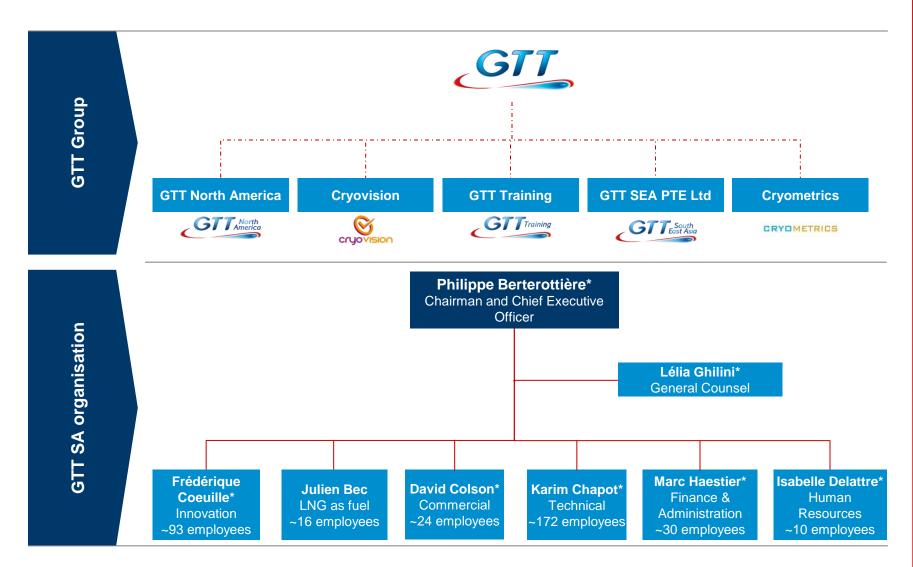
- Employment
- Compensation
- Training
- Health and Safety

# Societal responsibility

Continuous and constructive dialogue with all the LNG stakeholders



# Appendix: a streamlined group and organisation





\* Member of the executive committee

# Appendix: GTT exposure to the liquefied gas shipping and storage value chain

Off Take / **Exploration** Regasification Liquefaction **Shipping** & Production Consumption

Offshore clients: shipyards

**Onshore** clients: **EPC** 

contractors



Platform / Installation



Floating LNG Production, Storage and Offloading unit (FLNG)





**Onshore storage** liquefaction plant



**Liquefied Natural Gas** Carrier (LNGC)



Ethane/ multigas Carriers

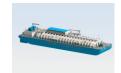






Floating Storage and **Regasification Unit (FSRU)** 





**LNG** fuelled

ship

Barge



Onshore storage regasification terminal



Tank in industrial plant



Gas-to-wire



Power plant

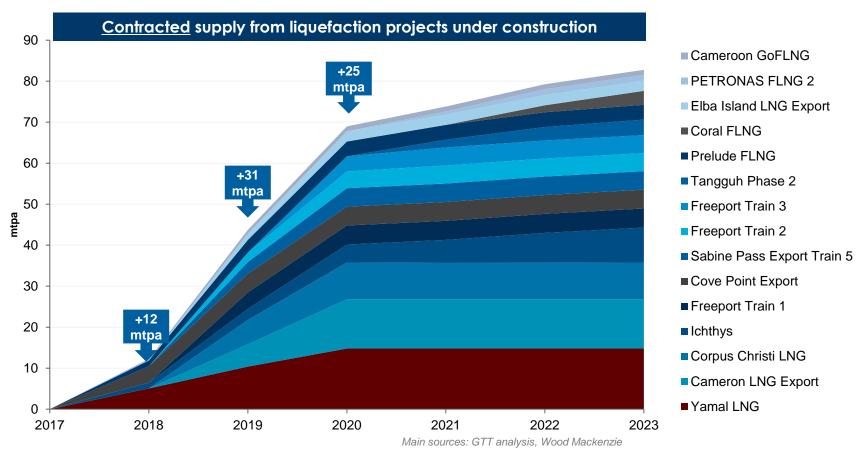


# Appendix: GTT ecosystem





# Important new LNG volumes to hit the market in 2019 and 2020



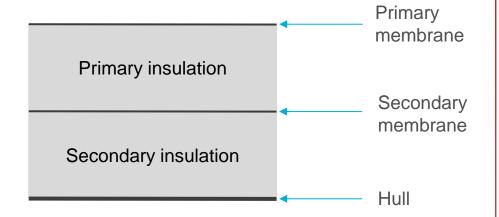
- ~ +70 Mtpa of contracted supply to come on stream by 2020
- New ship orders to be placed from early 2018 to be delivered in late 2019 / early 2020



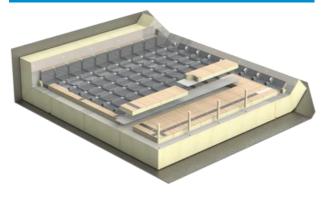
# GTT membrane technologies

### General principle:

- Two membranes
- Two layers of insulations
- Containment system anchored to the inner hull



### Mark III system









# Focus on GTT's competitive advantages

### GTT's technology positioning (1)

	GTT <b>I</b>	Moss 🟪	SPB •	KC-1 🤃
Technology	► Membrane	► Spherical tank	► Tank	► Membrane
Construction costs	<ul> <li>Requires less steel and aluminum than tanks for a given LNG capacity</li> </ul>	► Higher costs	► Higher costs	<ul><li>Slightly higher costs than GTT</li></ul>
Operating costs	<ul> <li>More efficient use of space</li> <li>Limited BOR (0.07%)</li> </ul>	► Higher fuel / fee costs	► Higher fuel / fee costs	► Higher opex due to BOR (0.16%)
LNGCs in construction	<b>▶</b> 71	▶ 19	<b>▶</b> 4	<b>2</b>
LNGCs in operation	▶ 334	<b>▶</b> 111	▶ 2 small	None
Other	► Value added services	<ul> <li>Higher centre of gravity; harder to navigate</li> </ul>	<ul> <li>Japanese technology developed 25 years ago.</li> <li>No significant experience</li> </ul>	Korean technology with no experience at sea

GTT technologies: cost effective, volume optimisation and high return of experience

Source: Company data and comment (Dec. 31, 2017), Clarksons

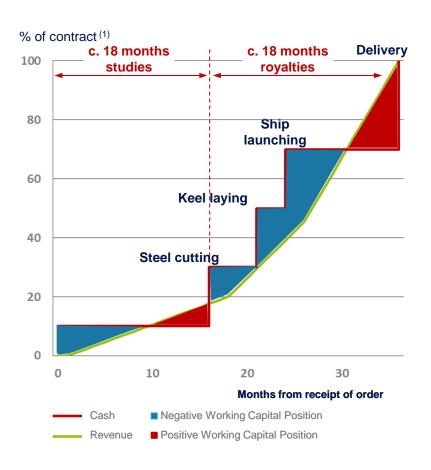
<sup>(1)</sup> Other technologies are being developed, however are not known to have obtained final certification or orders to date (e.g. DSME's Solidus). Excludes vessel orders below 30,000 m<sup>3</sup>



# An attractive business model supporting high cash generation

#### Invoicing and revenue recognition

#### Business model supports high cash generation



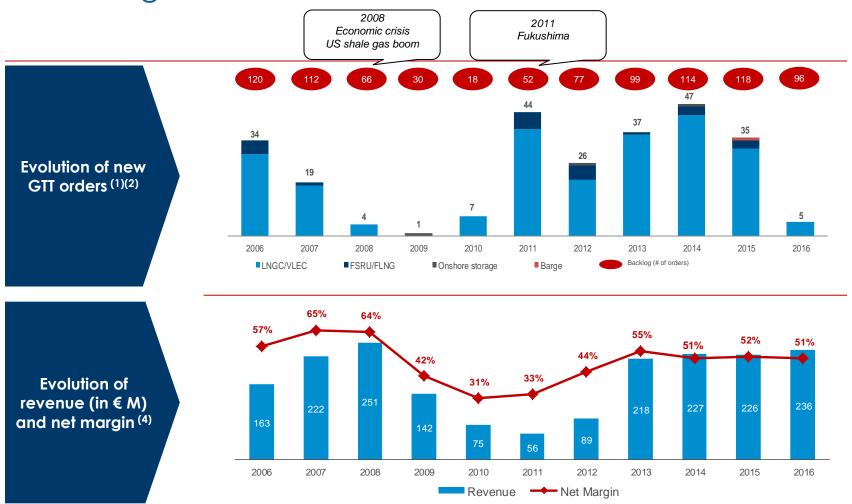
- Revenue is recognized pro-rata temporis between milestones
- Timing of invoicing and cash collection according to 5 milestones
- Initial payment collected from shipyards at the effective date of order of a particular vessel (10%)
  - Steel cutting (20%)
  - Keel laying (20%)
  - Ship launching (20%)
  - Delivery (30%)



<sup>(1)</sup> Illustrative cycle for the first LNGC ordered by a particular customer, including engineering studies completed by GTT



# Appendix: track record of high margin and strong increase in backlog since 2010



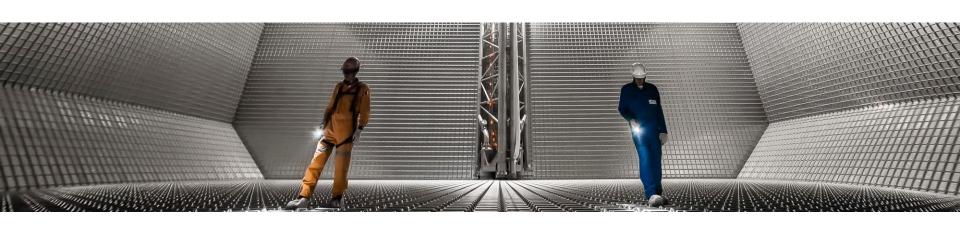
Source: Company

- Orders received by period
- 2) Excl. vessel conversions
- Represents order position as at December based on company data, including LNGC, VLEC, FLNG, FSRU and on-shore storage units
- (4) Figures presented in IFRS from 2010 to 2015, French GAAP from 2006 to 2009





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Safety Excellence Innovation Teamwork Transparency