

# WÄRTSILÄ SERVICES GOES DIGITAL

SOLUTIONS FOR THE MARINE, OIL & GAS AND ENERGY SECTORS CARNEGIE BANK'S SEMINAR, 1 MARCH 2016

Pierpaolo Barbone, President & EVP, Wärtsilä Services



#### Content

- Who are we? Wärtsilä Services in brief
- Digitalisation in Services
- Customer engagement: Wärtsilä Online Services
- Digital Maintenance Services: Remote support
- Asset Performance Optimisation: Wärtsilä Genius
- Co-creation in the digital age: Wärtsilä Marine Mastermind
- Digitalisation through the eyes of Wärtsilä Services
- Our digital story in a nutshell



# Wärtsilä Services' Mission and Strategic Goal



#### Wärtsilä Services' Mission

We create lifecycle services with our customers, enhancing their business – whenever, wherever.

### Wärtsilä Services' Strategic Goal

Our customers recognize us as their most valued and competitive service partner: competent, reliable and easy to deal with.



### Wärtsilä Services 2015 in brief

The size and scope of the Services business provides a platform for further growth.



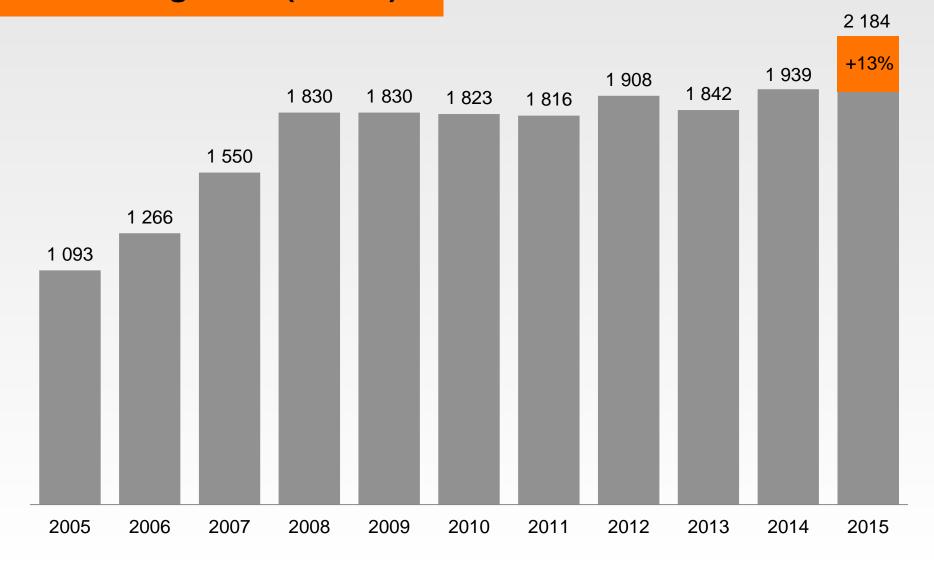


Net Sales [MEUR]	2015	2014	Change
Services	2,184	1,939	+13%
Wärtsilä group	5,029	4,779	+5%

Personnel	2015	2014	Change
Services	10,592	10,692	-1%
Wärtsilä group	18,856	17,717	+6%



# **Net sales growth (MEUR)**





### We are where our customers need us to be

11,000 service professionals in 70 countries, 160 locations...



- Marine installed base by operating country
- Power installed base by operating country
- Service locations



#### Services in a nutshell

In one year:

We serve

12,000

customers

115,000 deliveries, constituting more than 900,000 line items, packed in 134,000 packages

117,000 unique materials stored 16,300,000 kg of parts, with a total volume of 46,700 m<sup>3</sup>

...One promise

to the customer:

We offer expertise,

proximity, reliability and



66,700 export declarations

Around 106,000 transportations making use of roughly 150 carrier modalities

We maintain knowledge and skills for 350 different product types

responsiveness for our customers in the most sustainable way

Our 3,600 field service professionals perform 100,000 field services jobs



We provide **20,000** technical answers

We maintain
450
installations
under longterm contract



### Who are our customers?



**OFFSHORE** 

**MERCHANT** 

**CRUISE & FERRY** 

SPECIAL VESSELS & NAVY

**ENERGY** 

**HYDRO** 

OIL & GAS

**MARINE** 

- +181 GW installed base
- +24 GW and approx. 600 installations covered by service agreements
- +14'500 installations connected to Wärtsilä Online Services



# A broad range of expertise and services



Engine services



Propulsion services



Electrical and Automation services



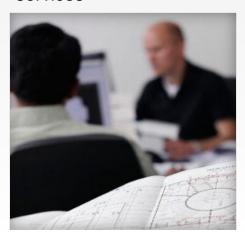
Hydro & Industrial services



Seals and Bearings services



Service agreements



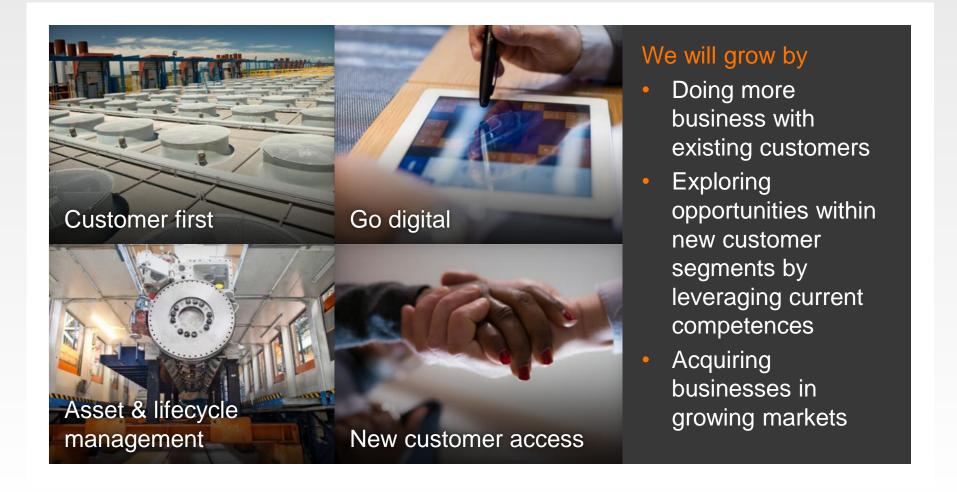
Service projects



Training services



## The only way forward is growth





10

# Megatrends that drive digitalisation



# The digital transformation

- Digitalisation is about rethinking services with the help of modern technology to make services easier, faster and more valuable.
- Digitalisation can also offer new ways to increase revenue and growth potential.
- Wärtsilä is utilising connectivity and data gathering to develop a comprehensive digitalised approach to optimising operations and enabling growth together with our customers.



Digitalisation has already created new opportunities for companies to look for growth. It is changing how companies create value for their customers.

# **Dimensions of digitalisation**

#### **Human behaviour**

Ultimately, digitalisation is about change in human behaviour. It's a cultural change that's having a net positive effect on our lives on many levels, from our daily interactions with each other to job descriptions.

#### **New business models**

Digitalisation is changing how companies create value for their customers, and these changes can be profound, going as deep as re-evaluating the nature of their business as completely new business models become available.

### User experience

User experience is central, as user expectations keep growing. This will lead to a demand for seamless and effortless solutions, with a focus on e.g. data visualisations and even wow effects.

### **Technology**

Digitalisation is driven by technological developments, but its significance is in the changes made possible by these technologies.

# Wärtsilä's focus areas for digital value creation

Customer engagement:

Online Services 2.

Digital maintenance services:

Remote Support 3.

Asset performance optimisation:

Genius



## Wärtsilä Online Services – transparency for the customers



My installations



**Parts Online** 



Technical knowledge



**TechRequest** 



Warranty Online

Wärtsilä Online services, brings savings to your operations by less handovers and manual steps

## Wärtsilä Online Services – optimising our processes



Procurement



Logistics



Fleet or installation administrative tasks



Technical support



Operations and maintenance

Tehnical knowledge: Manuals and bulletins

My installations: access and manage information on your installations and equipment

Parts Online: Spare Part Catalogues, RFQ's, purchase orders

Create and view: TechRequest

Create and view: Warranty Online (and Monitoring)

**Full overview** 

Maintenance planning, document management, cost and process optimization

# **Digital maintenance services** Interactive and real-time data helps secure and optimise the operation of power plants and vessels. Utilising this data can help predict maintenance and competence needs well in advance, enabling better planning. Transparency of real-time data from order to invoicing. 29 February 2016 Carnegie Digitalisation Seminar 2016

## Digitalisation happened yesterday...

- Data and sophisticated data analysis are becoming a key part of operations.
- Information based on analytics can help secure and optimise the operations of power plants and vessels, and therefore improve e.g. safety and efficiency of equipment.
- Utilising data can enable better operations and business planning.
- Already today we are able to remotely access and monitor installations even if they are in remote, difficult-to-access locations.
- Combining e.g. condition based maintenance, operation optimisation, analytics and advisory the installation's fuel consumption and maintenance intervals can be optimised.

## **Virtual concepts**

Solutions based on 3D design can offer new ways to benefit from real-time information and knowledge to:

- Enhance technical assistance
- Support maintenance and servicing
- Enable new types of virtual training concepts from video training to holograms and augmented reality.
- Increase the availability of selected components through 3D printing.



# **Asset & lifecycle management**

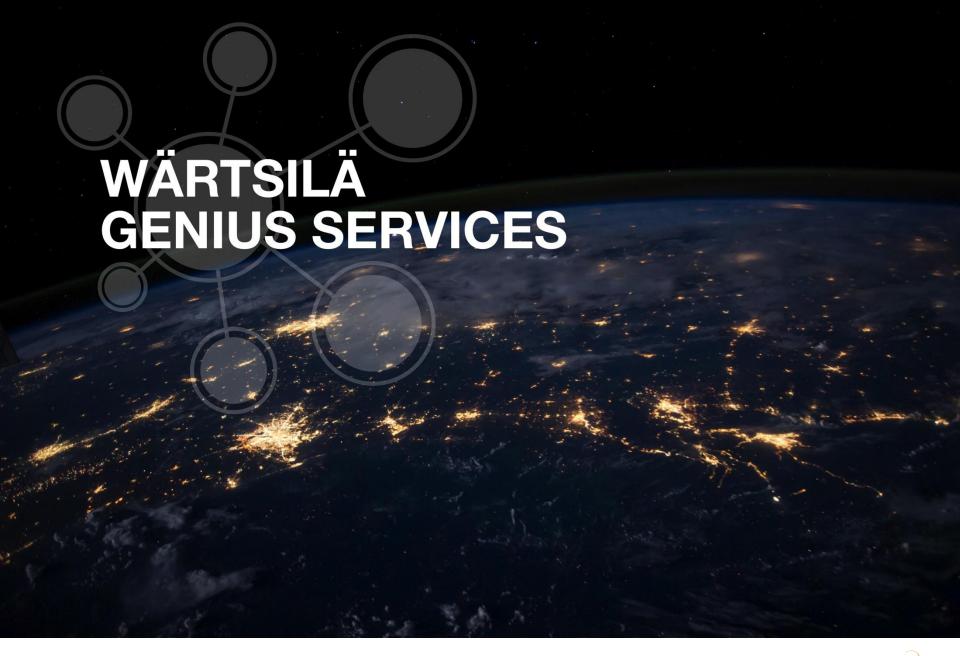
We will continue to develop and commercialise our portfolio of value-adding services:

- Asset performance management agreements
- Retrofits
- Upgrading of installed base
- Solutions for remote monitoring and real-time optimisation

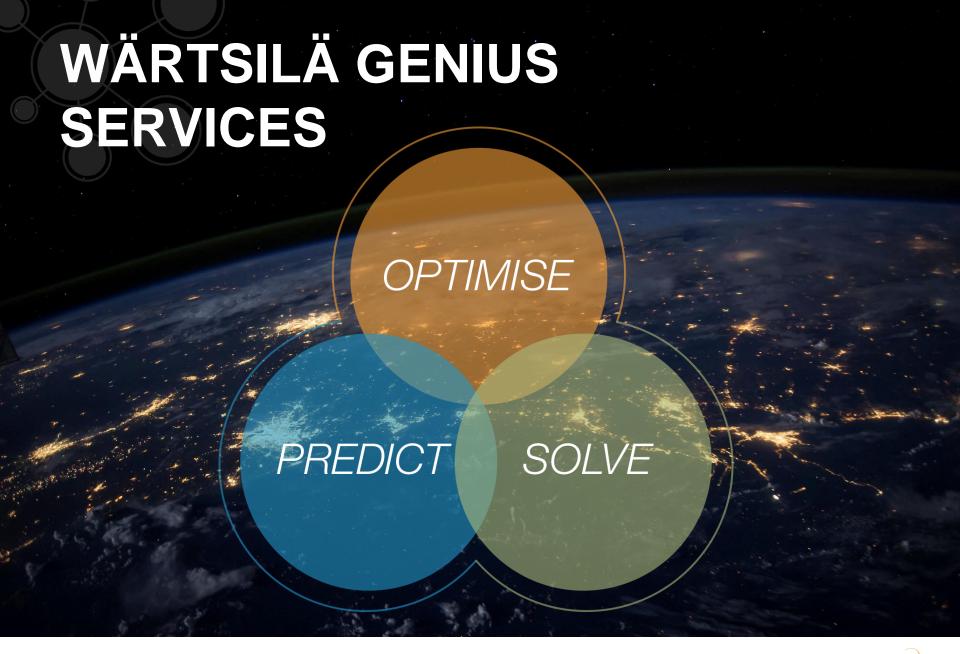
#### Focus areas for agreements:

- Marine: LNG carriers, cruise
- Oil and gas: offshore drilling and production, OSV's
- Power Plants











### Wärtsilä Genius services

- Asset performance optimisation develops and manages services and solutions that enhance the performance of our customers' assets and business
- We will be recognised as industry leader in Digitalisation and increase Wärtsilä service sales by improving our customers' satisfaction through enhancing the performance of their assets and increasing their business





Wärtsilä Genius services will enhance the performance of your assets as well as help your business top line growth

# OPTIMISE BY WÄRTSILÄ GENIUS SERVICES

Increase competitiveness and effectiveness in your daily operations with real-time optimisation





## Would you like to Optimise?

Increase your operational efficiency Explore others' best practises

Manage fuel and other operating costs



Optimise your asset according to your operation strategy

Use the most convenient, safe and cost-efficient sea route



Marine

# PREDICT BY WÄRTSILÄ GENIUS SERVICES

Improve your asset and business availability and predictability with lifecycle maintenance





## Would you like to Predict?

Align operational decisions on the actual condition of the equipment

Match maintenance to your operational profile

Financial predictability







Get the most profitable routes for your vessels by using the holistic market view



Increase your revenue with more efficient usage of your fleet throughout its lifetime

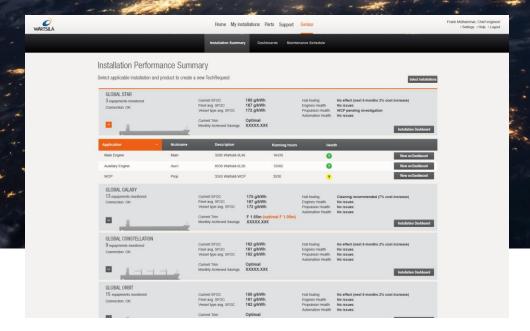


Ensure capacity and availability of your operations

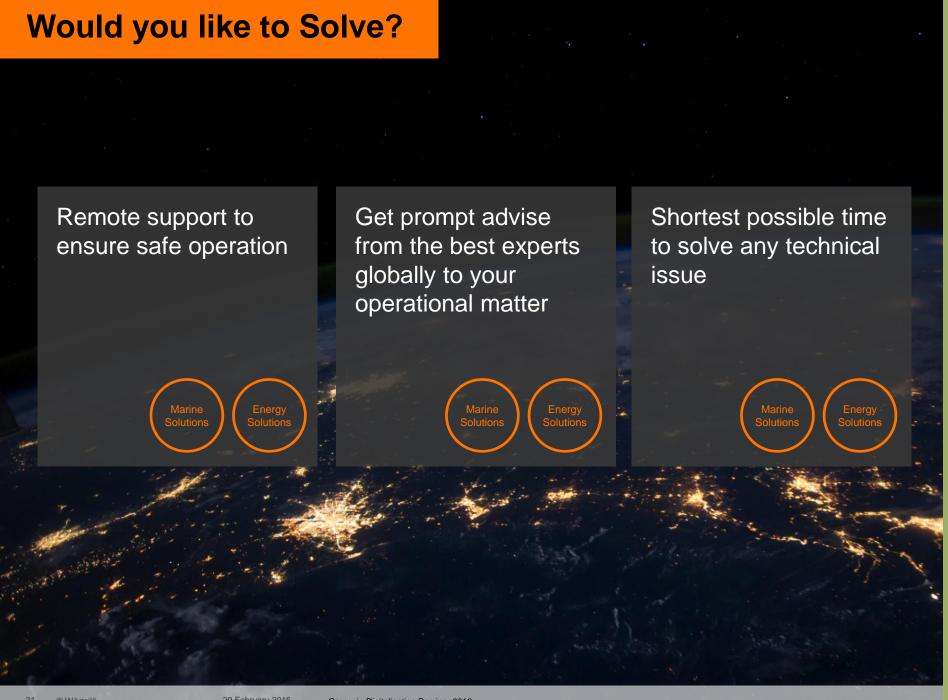


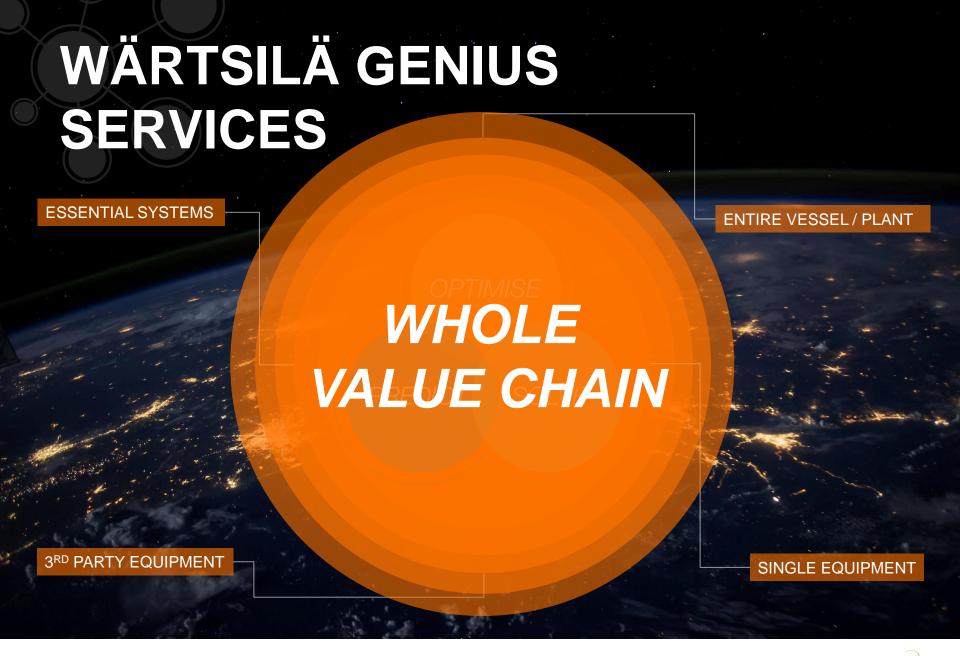
# SOLVE BY WÄRTSILÄ GENIUS SERVICES

Ensure the safety of your operations and get instant support whenever and wherever you need it











## Co-creation in the digital age

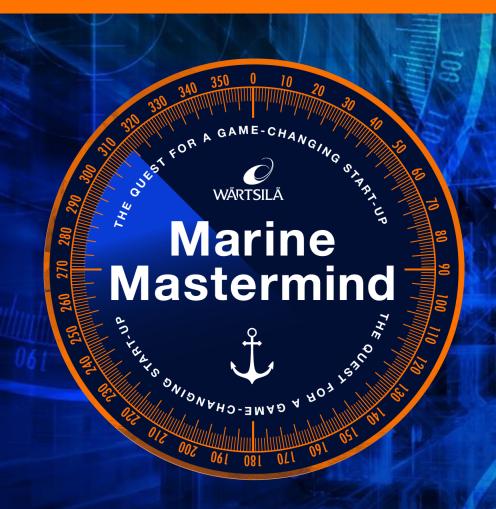
- Digitalisation rewrites the rules of competition
  - Lower entry barriers
- Networking between companies is a must to succeed
  - Open interfaces
  - Co-creation across the value chain







# Wärtsilä Marine Mastermind – Open Innovation Contest



- Digitalised service offering in marine business
- Targeted for start-ups and growth companies
- Objective for Wärtsilä to:
  - Explore the disruptive initiativesLearn from lean start-up mindset
- Launched in Slush 2015

www.wartsila.com/marinemastermind



# Digitalisation through the eyes of Wärtsilä Services

- Digitalisation is about rethinking the services with the help of modern information technology to make operations easier, faster and more valuable.
- The value of digital services comes from sophisticated data collection, analytics and information.
- Digitalisation creates new opportunities for growth. It is changing how to create value and enabling new business models.
- Wärtsilä has the ambition to work together with its customers towards a comprehensive digitalised approach to optimising operations and enabling growth. We take a complete lifecycle perspective for the marine, oil and gas and energy industries.

# Our digital story in a nutshell

- Long history in digitalisation
- Digitalisation is a cornerstone of our growth strategy
  - Expect clear gains going into the future
  - Further ramp-up hundreds of people involved
- More product launches and incremental improvements to Wärtsilä Genius and Wärtsilä Online Services
- Additional new services and products to be launched to the market and internal efficiency gains to be harvested
- From idea to product in 3 months mind-set within digital solutions



www.wartsila.com