



*Feel Empowered*

## Marine Update

Sasebo 28.11.2023

Tommi Henriksson

Product Manager - Asia

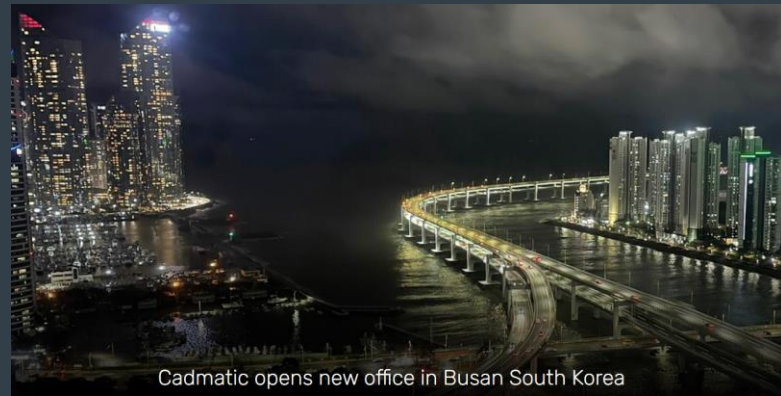
Image courtesy of  
Meyer Turku

## Marine Update

Today Cadmatic is the leading software provider in the Marine industry with over 1000 customers in 56 countries worldwide.

Global office and technical support presence

Known for its in-house **shipbuilding knowhow**, **continuous technological development** and **future-oriented mindset**.



Cadmatic opens new office in Busan South Korea



CADMATIC expands presence in CANADA

## Cadmatic Today

A leading CAD and information management software provider to the marine, process and building industries



>€35m revenue with 20% annual growth since 2015



>6,000 customers in > 60 countries

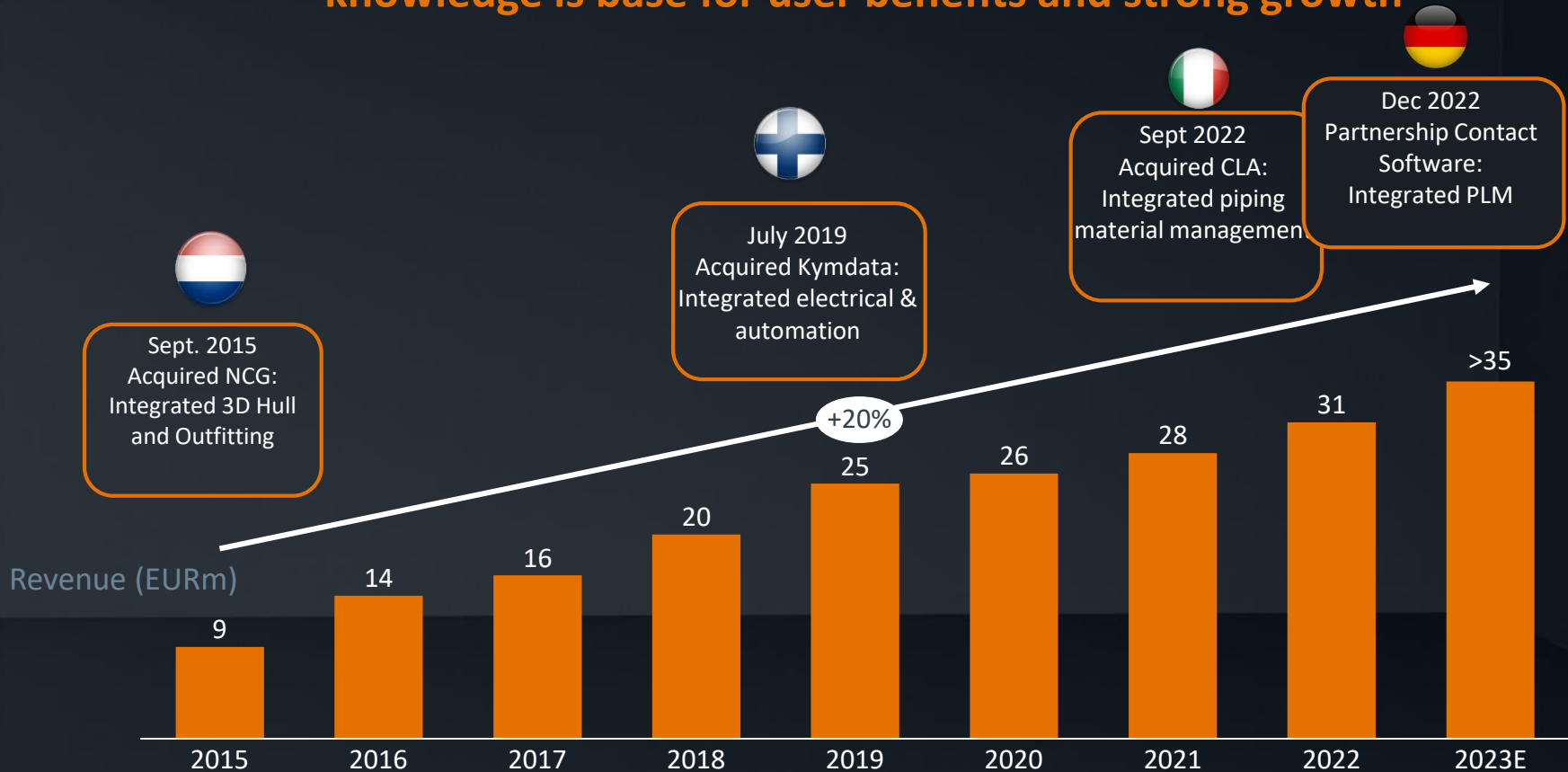


>335 employees



>40% of shipyards use Cadmatic software

# Development of seamlessly integrated product portfolio and high industry knowledge is base for user benefits and strong growth



# Cadmatic CEO Jukka Rantala is 2023 “Software Entrepreneur of the Year” in Finland

On Thursday November 9th, the [Software Finland Association](#) announced Jukka Rantala as the 2023 “Software Entrepreneur of the Year”. The award has a tradition spanning over 20 years.

In bestowing the award, the association especially highlighted Cadmatic’s long-term work as well as its well-timed decisions and solutions to support strong and profitable international growth.



Some of the latest new clients in 2023, in total  
60 new clients so far during 2023



# HAV Design, Norway

## Design office. Change from a competitor to CADMATIC after a pilot test of 11 weeks

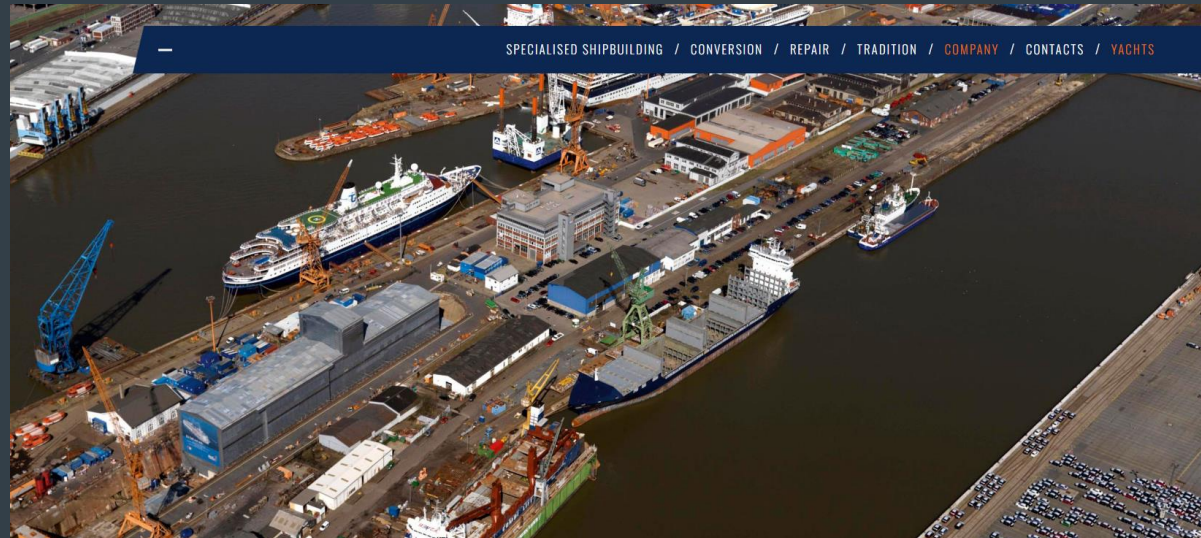
- Scope of work: basic, detail design.
- Type of vessels: ferries, wind support vessels, small arctic cruises, etc
- Group: Part of Havyard Group
- Offices: Main in Norway and others in Poland and Croatia.
- CAD: CADMATIC after using 30 years another CAD



# Lloyd Werft, Germany

Implemented CADMATIC Complete package to meet the following criteria and after throughout comparison between 3 software providers:

- The yard's technical requirements for their design activities (scope of required functionalities)
- Available and existing network of design companies for subcontracting
- Ease of use / short learning curve / implementation time





# Fincantieri Bay, USA

## Implemented CADMATIC completed package in spring 2023

- Specialist in the construction, repair, and conversion of Coast Guard and commercial vessels including ATBs and OSVs. FBS is building the two largest LNG bunker barges ever built in the United States.
- 1<sup>st</sup> CADMATIC projects ongoing currently
- Concurrent engineering with the design offices in Europe



NAVY



LNG BUNKER BARGE



**FINCANTIERI BAY SHIPBUILDING**

Building Quality Ships For  
Commercial Applications



# Jong Shyn Shipbuilding, Taiwan

## Implemented CADMATIC Hull in summer 2023

- Largest private shipbuilder in Taiwan
- Specialized in building Navy-vessels, also tugboats, ferries fishing boats and tankers
- Selected CADMATIC after detail comparison with two other softwares



Freighter



Frigate



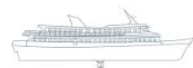
Tugboat



Shuttle Boat



Fishing Boat



Ferry



Yacht



Special Ships



Oil Tanker



Research Vessel



Land-based Engineering

# Cochin Shipyard, India



Implemented CADMATIC in summer 2023 and currently doing 1<sup>st</sup> project

- Incorporated in the year 1972 as a fully owned Government of India company. In the last three decades the company has emerged as a forerunner in the Indian Shipbuilding & Ship repair industry. This yard can build and repair the largest vessels in India.
- Selected CADMATIC due to current software becoming out-of-date and wanted to invest in modern, future oriented and shipbuilding-specific software



## Forerunner with continuous technological development

- New technologies changing the industry
- Data-driven shipbuilding is here and now and can bring massive return-on-investments when implemented right
- Shipbuilding practices will continue to vary from one country to another
- Support for early adapters as well as laggards



# Forerunner with continuous technological development

- Active involvement in several different groups seeking technological innovations and more productive and efficient shipbuilding
- Continuous and active collaboration not only with shipyards, design offices and ship owners, but also with maritime institutes and universities



Cadmatic is part of consortium leading EU-funded SEUS project for smarter and more productive shipbuilding

## Meyer NEcOLEAP - Co-Innovation Project Virtual Sea Trial

- **Future sea trials** will consist of both virtual and physical elements.
- **Virtual commissioning** will start as early as possible in the ship-building project, years earlier than current sea trials start.
- **Left-shift testing** lowers the risk of implementing new technologies and saves time and manpower from trials.
- A **unified, distributed, multivendor test environment** for the whole shipbuilding ecosystem is to be created in this project.
- **Help us define the future ship commissioning practices, guidelines, and technologies!**



DALL-E 2023 "Virtual Sea Trial"

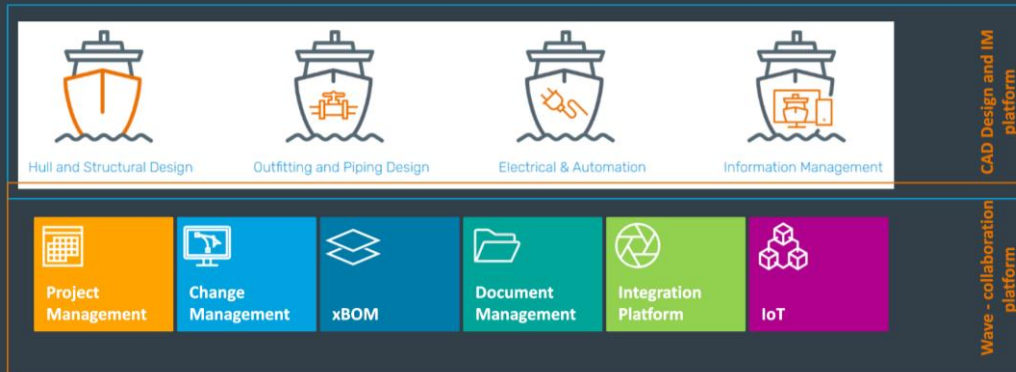
# Forerunner with continuous technological development

Cadmatic and CONTACT Software enter strategic partnership to bring the first shipbuilding-specific PLM solutions to shipyards

- Continuous development of our traditional CAD tools
- Expanding the portfolio into new areas
- Continuous expansion of licensing and service models

## Cadmatic extended portfolio for Marine

*Composable solution for shipbuilding design and collaboration*



The purpose of Cadmatic Shipbuilding Lifecycle Management system – Ship design-centered highly composable solution for shipyards and networks with open integration platform possibilities to ILS and IoT

# NAPA-CADMATIC Design Process

## Business process

Financial Accounting Engineering Sales & Services Document Management Supply chain Lifecycle Management Maintenance Quality Management Manufacturing Operations

## Systems

ERP/PDM/PLM systems



NAPA



## Process step

Tender	Initial Design	Basic Design	Detail Design	Production Engineering	Production/Manufacturing		Assembly/Erection	Outfitting	Delivery	Operation/Maintenance
					Parts	Pipes				

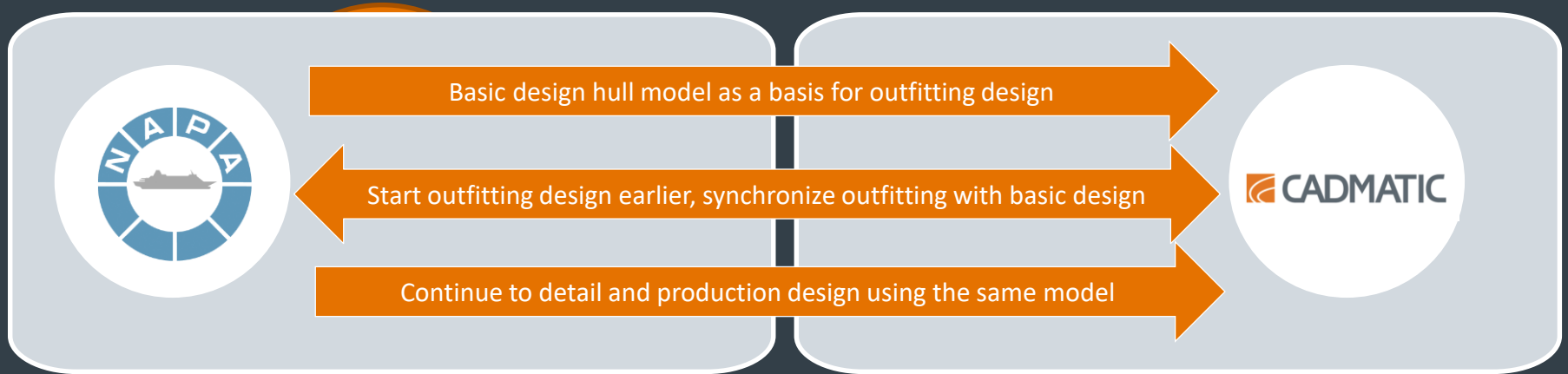
## Output or Activity

Reference ships Weight & CoG	Hull form Hydrostatics Stability Damage stability Loading conditions Design Manager Weight & CoG	General arrangement 3D Construction plan P&ID's Machinery layouts Classification drawings FEM & Rule Check	Block drawings Construction drawings Piping drawings Outfitting drawings System drawings	Workshop drawings Nesting Profile sketches Shellplates Profile nestings Reports Material lists	Plate cutting Plate bending Profile cutting Profile bending	Pipe cutting Pipe profiling Pipe bending	Panels Micro panels Sub assemblies	Assemblies Pre-outfitting Blocks Rings
---------------------------------	--	---	--	--	--	--	--	---

## Production

Shipyards  
production lines (CNC)

# Smart Integration from early stages of design to production and beyond



- No need to replicate data
- Facilitate communication
- Single source of data on each stage
- Freedom of choice in design tools for different stages
- Reduce hours and possible errors
- Change management with inbuilt checks for detailed design and production stages



# AI AS ENABLER FOR DIGITAL SHIPYARDS

## DIGITAL SHIPYARD

Our vision is that our suite of software packages serves not only to optimally design and build ships but also to facilitate all the yard processes and enable the complete digitalization of the shipyard through automation.

We believe that AI will play an essential role by automizing tasks, optimizing tasks and output, and help us make better decisions.

ENGINEERING  
AUTOMATION

OUTPUT  
OPTIMISATION

PRODUCTION  
AUTOMATION



Thank you!

[tommi.henriksson@cadmatic.com](mailto:tommi.henriksson@cadmatic.com)

