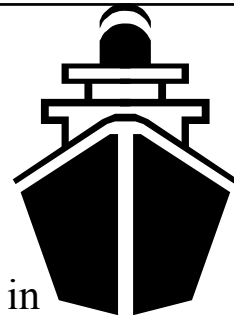


## STOCZNIA GDYNIA S.A.

Major challenges in development of  
IT at Stocznia Gdynia S.A.

March 2002

## The Shipyard History



- Established in 1922
- Rebuilt in early 50ties, modernized in 70ties, again modernized and redesigned in 90ties
- Over 550 different ships built since the 50ties
- Total DWT exceeding million tons
- More then 100 designs

# The Shipyard

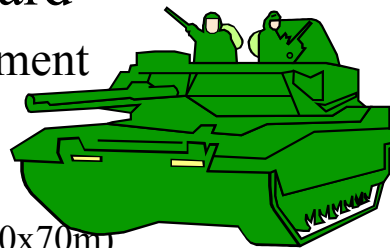
## The People



- More than 4600 direct production personnel
- Over 80% with vocational education
- High level of experience
- Good work discipline
- 13% of shares in the hands of employees

# The Shipyard

## Heavy Equipment



- 2 dry docks (240x41m and 380x70m)
- 2 gantry cranes, 500t and 1000t
- 10, 80 and 150t cranes
- Horizontal moving platforms (5000 tons)
- Painting trains with full environment protection

## The Shipyard The Best Way To Do It



- Optimal technological flow:
- - Priming chamber
- - Oxygen and plasma cutting machines
- - Panel line
- - Section painting chamber
- - LPG insulation chamber
- - Outfitting in sections results in 80% readiness at launching

## The Shipyard Potential for productivity gains

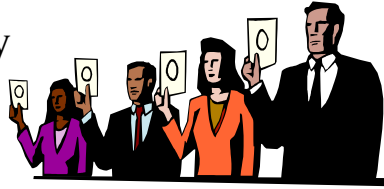


- Motivating wages' system
- More numerically controlled machines
- Of the shelf fitting modules
- Restructuring
- ERP system implementation

# The Shipyard

## The Best Means ...

- Uncompromising quality
- LRQA ISO 9001
- Low CGT cost
- Short production time



# The Shipyard

## Types of Vessels

- Container carriers  
(1.000 to 5.000 TEU)
- Tankers (up to 110.000 DWT)
- Bulk carriers (up to 165.000 DWT)



## The Shipyard

### Types of Vessels



- Product/chemical carriers (up to 70.000 DWT)
- LPG gas carriers (up to 78.500 m<sup>3</sup>)

## The Shipyard

### Types of Vessels

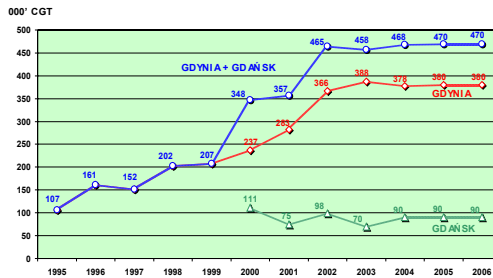


- Ro-Ro car carriers (up to 6400 passenger cars)
- Multipurpose vessels (up to 45.000 DWT)

# The Shipyard



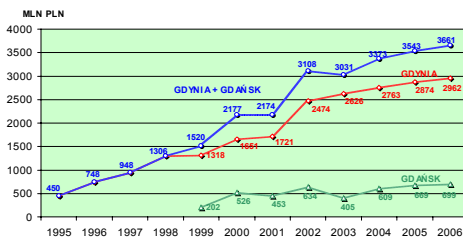
**PRODUCTION SOLD IN THOUSAND CGT  
1995- 2006**



# The Shipyard



**INCOME FROM THE SALES OF THE VESSELS  
1995- 2006**



# The Shipyard Design Office



## Design Office People Are Our Main Asset

- Staff of 480
- 300 university graduates
- 160 technicians
- Cooperation with Technical University and Centre of Ship Research (CTO) in Gdańsk



## Design Office



- 220 computer design stations
- 100 other work stations
- CAD/CAM TRIBON, AUTOCAD, PROCHEM C, NAPA and more than 35 other applications
- LAN/WAN
- Intranet & Internet

## Design Office Cooperation



- Participation in COREDES (Committee for Research & Development in European Shipbuilding)
- Government sponsored R&D programs
- Involvement in EC projects



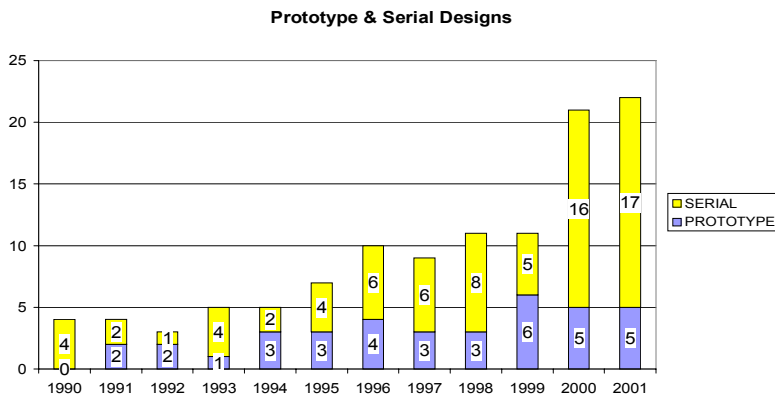
# Design Office

## Cooperation – R&D Programs

- OPTIPOD project – Design & implementation of POD propulsion units
- Universal Car Carrier project
- 2000-3000 TEU Container Vessels of extended operational parameters
- Cargo ships with propulsion units of great power

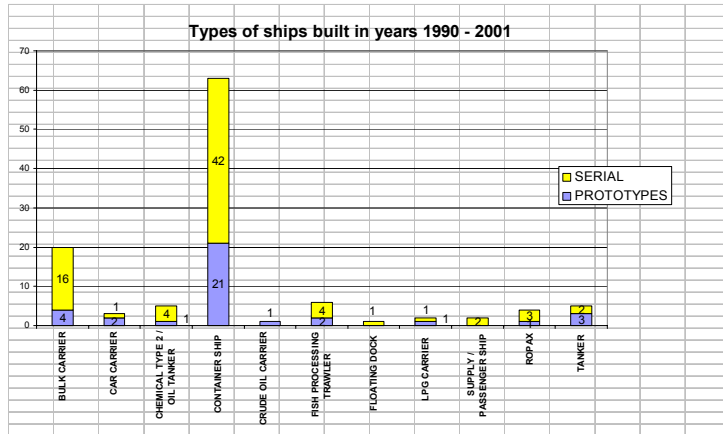
# Design Office

## Results



# Design Office

## Experience brings Results



# The Shipyard

## IT



## IT The People



- Over 40 persons employed
- 38 technical university graduates
- Constant cooperation with renowned consulting agencies, like Accenture (previous name Andersen Consulting) and Ernst & Young

## IT The Hardware



- 16 kilometres of fibre optic ATM fast Ethernet
- 56 active nodes delivered by COMPAC
- Modern servers by COMPAC and SUN
- 1050 work stations (including 850 connected by LAN)

## IT Software



- 3 operating systems:
- - VMS (CAD/CAM TRIBON system)
- - UNIX (management systems)
- - WINDOWS NT (intranet, internet, end users)

## IT Software - Applications



- Fully integrated financial, accounting, controlling and material management applications of SAP system
- mySAP.com – 600 users (early implementation stage)

# IT Software - Applications



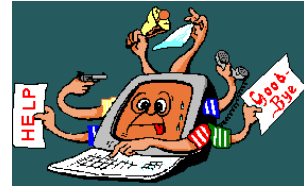
- Over 100 in-house developed applications accessible through the Yard's network
- Intranet communication (1000 users)
- Internet access covering all the Yard's needs

# IT Safety



- Strict software piracy policy
- Protected access to company servers
- None successful hacking attempt

# IT Development Milestones



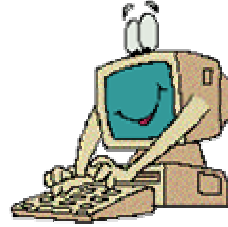
- **1998** – The Board’s decision on the Strategy for IT Development at Stocznia Gdynia S.A.
- **1999** – Yard’s LAN first put into service
- Implementation of in-house developed HR system
- Completion of first stage of SAP implementation (financial, accounting and controlling)

# IT Development Milestones

**UNDER CONSTRUCTION**

- **2000** – Pre-implementation analysis and selection of material management system (TBM or SAP R/3)
- Implementation of the second stage of SAP - Material Management (Purchasing and Stock)
- Intranet access

## IT Development Milestones



- **2001** – Material Management System - SAP R/3 first put to service
- Broad internet access
- First purchase of material over the internet (auction)

## IT Development Milestones



- **2002** – Migration from SAP R/3 to mySAP.com platform
- Implementation of mySAP.com Project Management and e-Commerce programs (early stages)

# IT Development

## Major challenge of Today



- Lack of interpretation between TRIBON CAD/CAM system and mySAP.com

The End

Thank you