

**CSSC | SWS**

# Moving forward from Speed to Scale as an FPSO Specialist

**Shanghai Waigaoqiao Shipbuilding Co., Ltd.**

**Dec. 2025**



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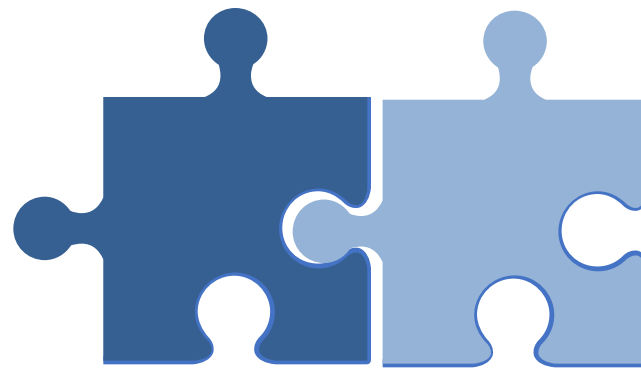
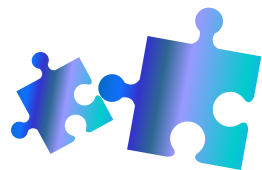


01

Company  
Introduction



# OWNERSHIP STRUCTURE



# LOCATION





# BASES INFORMATION OVERVIEW

SWS



SWSO



Area	1.46M m2	1.03M m2
Quayside	1726 m	1131m
Major Facilities	No.1 Dry Dock: 480mx106mx12.3m 1x1000 & 2x600 tons Gantry Crane	1 Skid Way
	No.2 Dry Dock: 740mx76mx14.3m 1x600 & 1x800 tons Gantry Crane	Gantry Cranes: 1x1,200 Tons 1x600 Tons 1x300 Tons
Steel Plate Treatment	500,000 Tons / Year	200,000 Tons / Year



# HULL CONSTRUCTION

## SWS YARD

Blasting & Painting Shops

Erection Area

Pre-outfitting Area

Dry-dock

Commissioning Quaysides

Panel Blocks Fabrication Shops

Curved Blocks Fabrication Shops

Steel Cutting Shops

Piping Shops

Material Quayside



# FPSO MODULES FABRICATION

**SWSO YARD**





# TRACK RECORD

Delivered Total **606**

Cruise	Merchant Vessels					Offshore			
									
Cruise ship	Bulk Carrier	Oil Tanker	Containership	PCTC	Gas Carrier	FPSO	Drilling Unit	Jack-up	PSV
13.35 GT 14.19 GT	Capesize Dunkirkmax Newcastle VLOC	Aframax Suezmax VLCC	ULCV 7000TEU Panamax	8600CEU DF 9000CEU 10800CEU DF	83000m <sup>3</sup> VLGC 85000m <sup>3</sup> VLGC	2.3 M Barrel 2 M Barrel 1.2 M Barrel	3,000 m Sub- Drilling Rig	JU2000E CJ46 CJ50	PX121
<i>Delivered</i> <b>1</b>	<i>Delivered</i> <b>341</b>	<i>Delivered</i> <b>147</b>	<i>Delivered</i> <b>74</b>	<i>Delivered</i> <b>6</b>	<i>Delivered</i> <b>10</b>	<i>Delivered</i> <b>8</b>	<i>Delivered</i> <b>1</b>	<i>Delivered</i> <b>13</b>	<i>Delivered</i> <b>4</b>
<p>Capesize bulk: account for 16.6% of the global fleet market share, ranking first in the world for 18 consecutive years</p> <p>Aframax: orderbook account for 11.2% of the global share, ranking second in the world</p> <p>Container: the first Chinese shipyard to build the super large containership,7000TEU's market share of segmented ship types is about 23%, ranking first in the world.</p>									

(Update:20241016)

02

Our  
FPSOs





# OUR FPSOs

2001 ~ Jun. 2003



FPSO HYSY 111

Dec. 2002 ~ Jul. 2004



FPSO HYSY 113

2005 ~ May 2007



FPSO HYSY 117

Jul. 2017 ~ Dec. 2019



MPF1 FPSO Unity

MPF1.0

MPF2.0

Nov. 2018 ~ Aug 2020



MPF2 FPSO Prosperity

Dec. 2019 ~ Jan. 2022



MPF3 FPSO One Guyana

Aug. 2022 ~ Apr. 2023



MPF4 FPSO Alexandre de Gusmao

Aug. 2022 ~ Nov. 2024



MPF5 FPSO Jaguar

MPF3.0

# OUR FPSOs

## (1) PANYU 4-2 / 5-1-1M BARRELS



Overall Length 262 m

Breadth (Moulded) 46 m

Depth (Moulded) 24.6 m

Scantling draught 17.1 m

Owner: CNOOC

Scope of Work:

Detailed design, procurement and construction for ***FPSO hull, Integration TOPSIDE*** with FPSO hull, Mechanical Completion / Pre-commissioning and commissioning for the FPSO

Kick-off Meeting: Sep. 2001

Delivery date: Jun. 2003



# OUR FPSOs

## (2) BZ 25-1 FPSO (1.2 M BARRELS)



Overall Length 323 m

Breadth (Moulded) 63 m

Depth (Moulded) 32.5 m

Scantling Draught 20.8 m

Owner: CNOOC

Scope of Work: Detail design, procurement and construction for **FPSO hull**, oil treatment and water treatment topside **modules fabrication, Integration** TOPSIDE with FPSO hull, Mechanical Completion / Pre-commissioning and Commissioning for FPSO

Contract Signing: Dec. 2002

Delivery date: Jul. 2004

# OUR FPSOs

## (3 ) BOHAI PHASE II FPSO (2M BARRELS)



Overall Length 323 m

Breadth (Moulded) 63 m

Depth (Moulded) 32.5 m

Scantling Draught 20.8 m

Owner: CNOOC/ConocoPhillips

Scope of Work: Basic design; detail and production design, hull, LQ, topside support, mooring **structure** fabrication, procurement all equipments and material; Mechanical Completion; Pre-commissioning and Commissioning of Hull Part.

Steel Plate P/O: Jul. 2005

Delivery date: May. 2007



# OUR FPSOs

## (4 ) FAST4WARD FPSO (2 M BARRELS) – MPF 1



Overall Length	336.36 m
Breadth (Moulded)	60 m
Depth (Moulded)	32.8 m
Scantling draught	25 m

Owner: SBM/Exxon Mobil

Scope of Work: Detailed and production *design, procurement and construction for FPSO hull*, MPF Series 1.0 Ship Type, PSPC

Noise 2 \*Auto machinery

Contract Signing:	Jul. 2017
Delivery date:	Dec. 2019

# OUR FPSOs

## (5) FAST4WARD FPSO (2 M BARRELS) – MPF 2



Overall Length	336.36 m
Breadth (Moulded)	60 m
Depth (Moulded)	32.8 m
Scantling draught	25 m

Owner: SBM/Exxon Mobil

Scope of Work: Detailed and production *design, procurement and construction for FPSO hull*, MPF Series 1.0 Ship Type, PSPC

Noise 2 , \*Auto Machinery, 2 Thrusters

Contract signing: Nov. 2018

Delivery date: Aug. 2020



# OUR FPSOs

## (6) FAST4WARD FPSO (2 M BARRELS) – MPF 3



Overall Length	334.20 m
Breadth (Moulded)	60 m
Depth (Moulded)	33.5 m
Scantling draught	25 m

Owner: SBM/Exxon Mobil

Scope of Work: Detailed and production *design, procurement and construction for FPSO hull*, MPF Series 1.0 Ship Type, PSPC

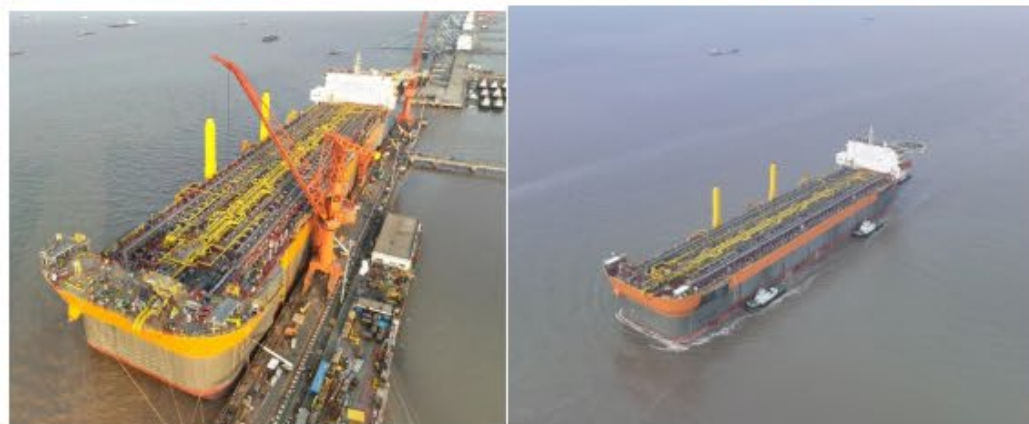
Noise 2 , \*Auto Machinery

Contract signing: Dec. 2019

Delivery date: Jan. 2022

# OUR FPSOs

## (7) FAST4WARD FPSO (2.3 M BARRELS) MPF 4



Overall Length	334.20 m
Breadth (Moulded)	60 m
Depth (Moulded)	33.5 m
Scantling draught	25 m

Owner: SBM/Petrobras

Scope of Work: Detailed and production *design, procurement and construction for FPSO hull*, MPF Series 2.0, PSPC, Noise 2, HFE Requirement

\*Auto Machinery, Brazilian Compliance

Contract signing: Feb. 2021

Delivery date: Apr. 2023



# OUR FPSOs

## (8) FAST4WARD FPSO (2.3 M BARRELS) MPF 5



Overall Length	334.20 m
Breadth (Moulded)	60 m
Depth (Moulded)	33.5 m
Scantling draught	25 m

Owner: SBM/Exxon Mobil

Scope of Work: Detailed and production *design, procurement and construction for FPSO hull*, MPF Series 2.0, PSPC, Noise 2, HFE Requirement

\*Auto Machinery, SUSTAINABILITY

Contract signing: Aug. 2022

Delivery date: Nov. 2024

# 03

## Capability & Management





# **OUR CAPABILITIES**

## ◆ **Engineering Capability**

Engineer Team **1000 P +**

Authorized Patent **800 +**

Technical Standard **100 +**

### **Research and Development Dept.**

- Product Development

### **Design Dept.1** **(Merchant Ship and Large Cruise Ship)**

- Detailed Design
- Production Design
- Completion Design

### **Design Dept.2** **(Offshore and Oil & gas Product)**

- Detailed Design
- Production Design
- Completion Design



## **Engineer Team**

### **Digital Design Research Institute**

- 3D Digital Design

### **Construction Technology and Method Dept.**

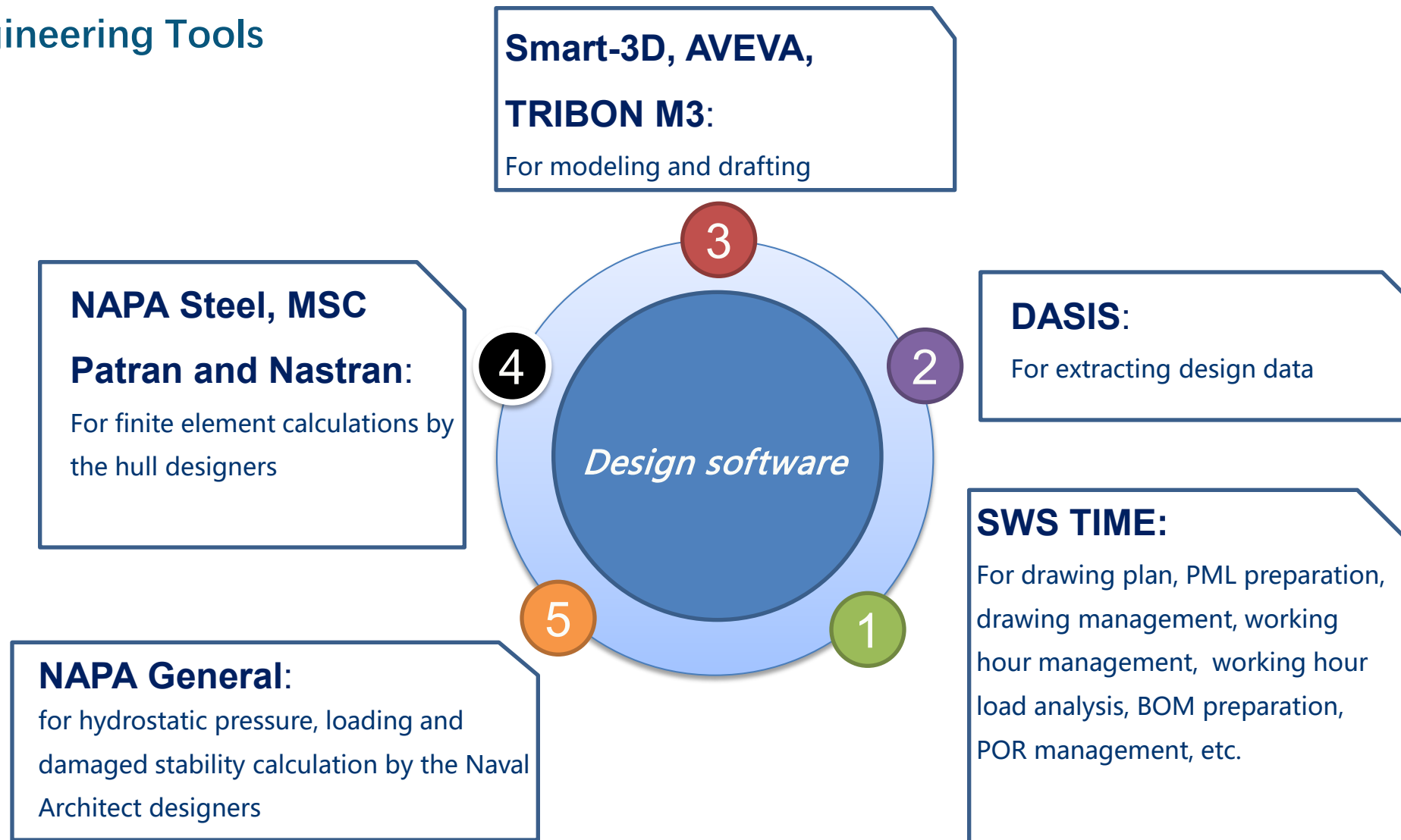
- Process and Construction Method Design
- Coating Design
- Tooling Development
- Welding
- Physical and Chemical Testing

### **SWSO Engineering Dept.**

- Production Design for LQ

# OUR CAPABILITIES

## ◆ Engineering Tools

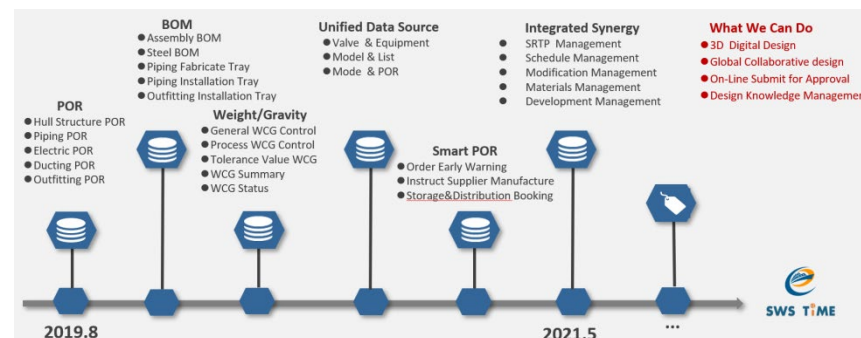




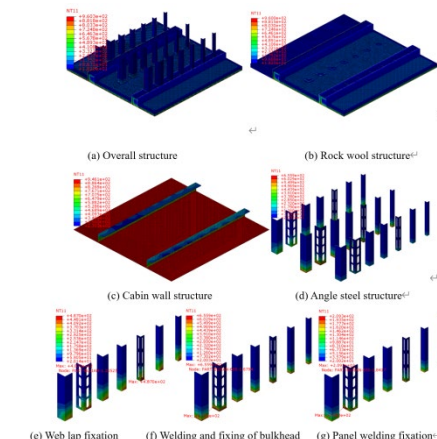
# OUR CAPABILITIES

## Professional full-coverage design

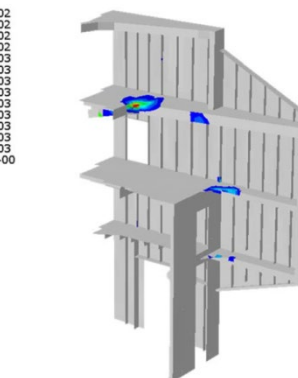
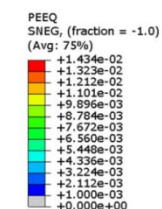
- Smart 3D system runs through the entire production design cycle
- Smart P&ID marine system design
- Structural blast response analysis
- Finite Element Method and Analysis
- Thermal conductivity calculation
- Pipeline hydraulic analysis
- Pipe flexibility and stress analysis
- Quay Mooring Analysis



Smart 3D System

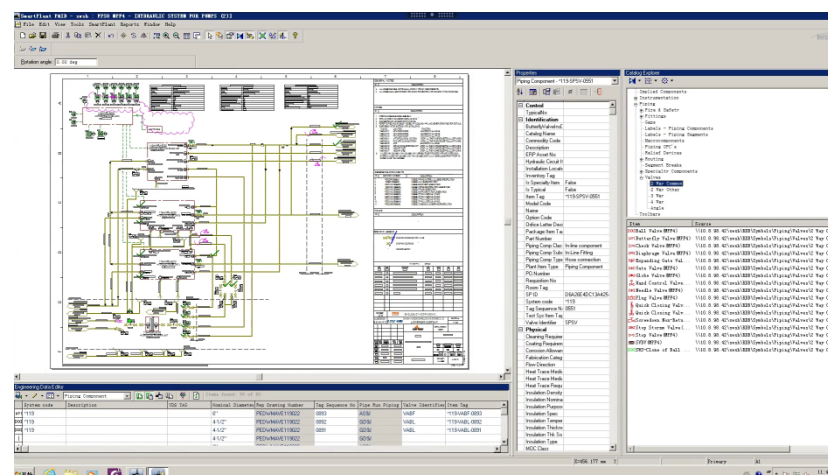


Thermal conductivity



(c) Plastic Strain distribution

ABAQUS model



Smart P&ID

## ◆ HSSE Management

### HSSE Principles

Safety is the red line,  
safety is caring



- **HSSE Simulation Center**——The first company in Chinese shipbuilding enterprises to establish an experiential HSSE education venue



- **First -class HSSE Culture Construction**



Safety leadership



Safety inspiration

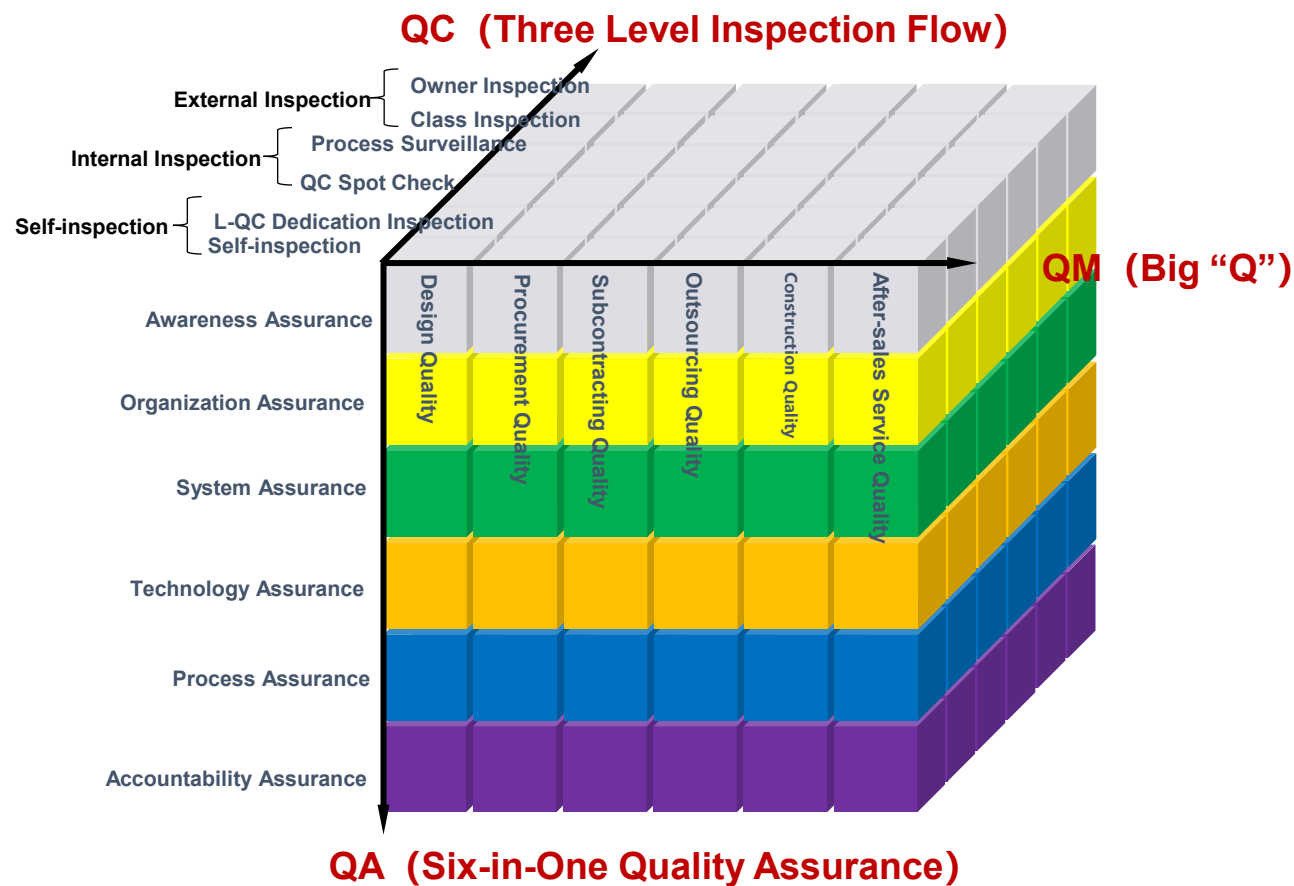


CPR operation experience



# OUR MANAGEMENT

## ◆ Quality Management



**X Direction**

Big “Q” management covering design, procurement, subcontracting, outsourcing, construction and after-sales service.

**Y Direction**

Established the “Six in One” quality assurance system which is consist of three aspects of advanced planning, intermediate monitoring and close loop management.

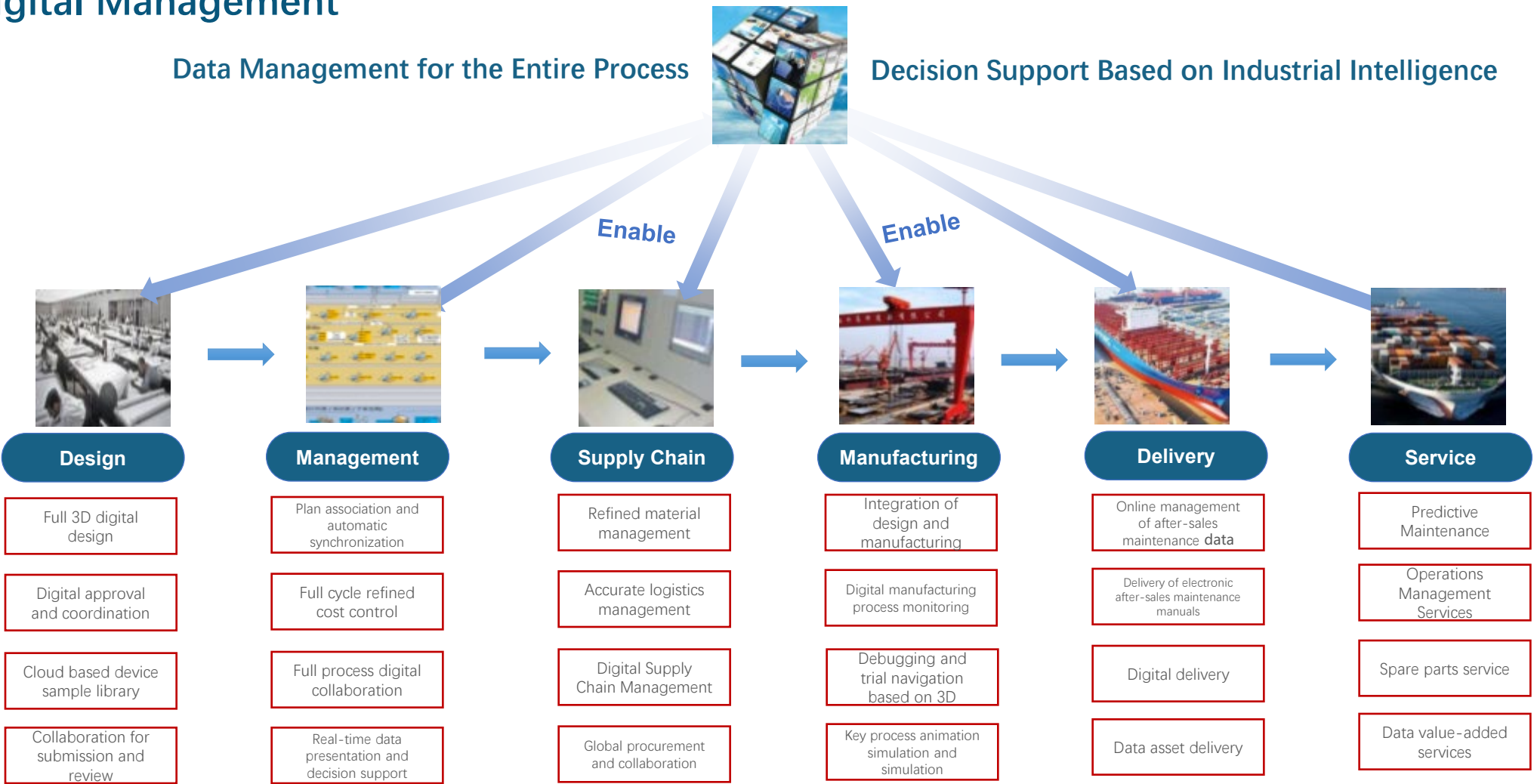
**Z Direction**

Implement the three-level quality control and continuously promote the digitization for quality inspection and quality management

3D Quality Management

# OUR MANAGEMENT

## ◆ Digital Management





# 04

*STS*

Speed to Scale

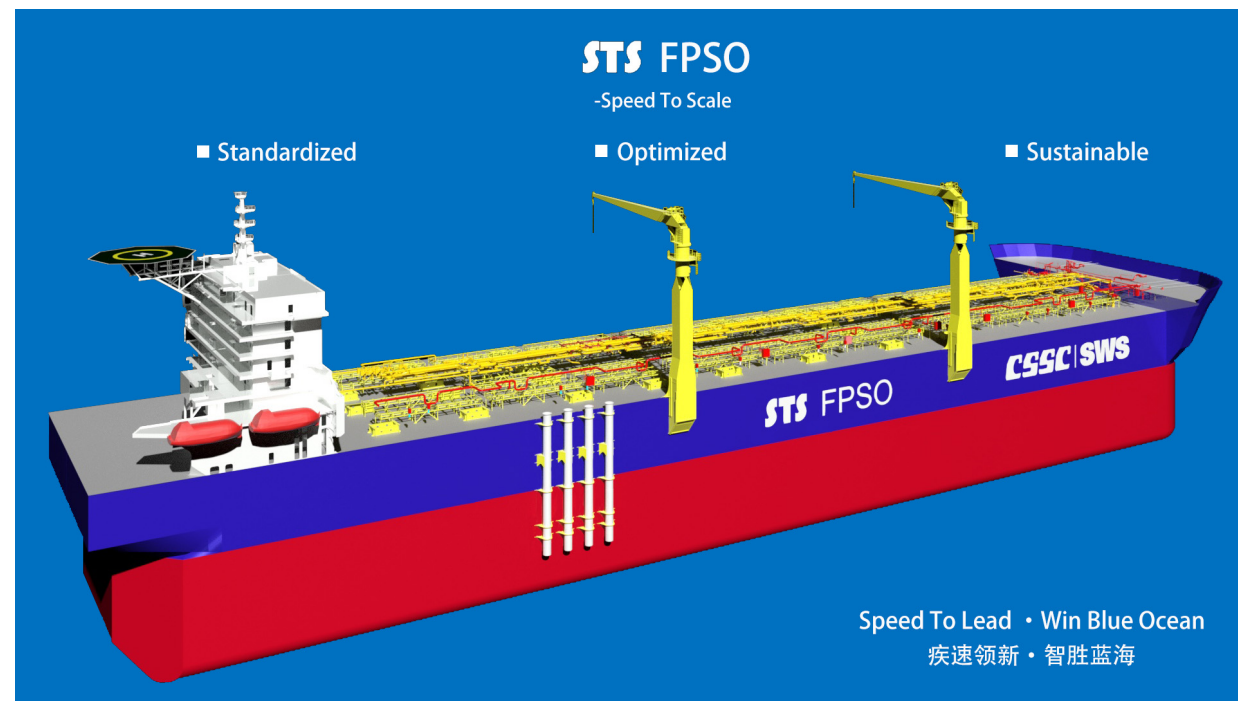


# *New Design*

## ◆ Speed to Scale

### Main Particulars of STS FPSO

No.	Description	STS
1	Length over All	346.740m
2	Breadth Moduled	64m
3	Moduled Depth	34.3m
4	Area of Modules	17,000+ m2
5	Weight of Modules	65,000+ Tons
6	POB	250P
7	Design Life	30 Years
8	Cargo Area Structure	Double
9	Storage Capacity	2.5mmbbl
10	Offload Capacity	7,800m3/h



Target Area: South America, West Africa

Mooring : Spread Mooring

Operation WD: 2,000~2,400m

Class: ABS/BV

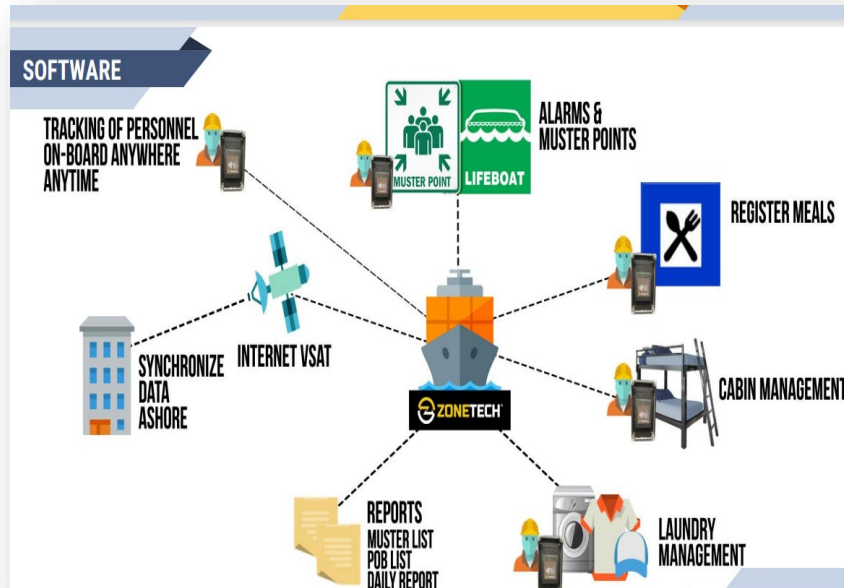


# *New Design*

## ◆ Better Working Environment

### 250 POB High Standard Comfortable LQ

- Low Noise: Cabin Area < 45 dBA
- Large Space: > 7000m<sup>2</sup>
- Aesthetic Design
- Personnel Intelligent Management System
- Ergonomics
- TR



T H A N K Y O U

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