## POB system for supporting safety in shipyards all over the world.

Our POB system has been built and being operated successfully in major shipyards in Korea.

The system has been applied in numerous maritime projects delivered from Korea to all over the world to contribute to safe work processes for the last a decade.

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OWNER COMPANY	PROJECT	YEAR	SHIP BUILDER
Petronas	Petronas	2016. 12 ~	Samsung HI
Appomattox	Appomattox	2016. 12 ~	Samsung HI
Stena	Stena Drilling	2016. 12 ~	Samsung HI
Total	Egina	2016. 10 ~	Samsung HI
Total	Martin Linge	2016.09 ~	Samsung HI
Statoil	Aasta Hansteen Spar	2015. 12 ~	Hyundai HI
Eni	Jangkrik FPU	2015. 12 ~	Hyundai HI
Total	MOHO FPU	2015. 08 ~	Hyundai HI
ExxonMobil	Hebron	2015. 01 ~	Hyundai HI
Total	MOHO TLP	2014. 12 ~	Hyundai HI
Inpex	Ichthys	2014. 08 ~	Samsung HI
BP	Q204	2014.06 ~	Hyundai HI
HSHI	LNG	2012. 08 ~	HSHI
DockWise	DockWise	2012. 03 ~	Hyundai HI
Eni	Goliat	2012.03 ~	Hyundai HI
HESS E&P	SHWE	2012. 03 ~	Hyundai HI
PTTEP	Bongkot	2011. 06 ~	Hyundai HI
HHI	Drillship	2010. 12 ~	Hyundai HI
Woodside	North Rankin 2	2010.10~	Hyundai HI
Total	USAN	2010.02 ~	Hyundai HI
HHI	FPSO	2006. 05 ~	Hyundai HI

BP&Solution Inc. provides system integration and information-strategy planning (ISP) services. The services consist of essential and professional steps including expert's consultation, info-system blueprint, development, set-up, operation supports, maintenance, and upgrade.

Moreover, our experts deal with the ever-changing IT and fulfil clients' needs by project managing skill improvement, end-less research for cutting-edge technologies, and communication for clients' satisfactory. Being a leader of Industrial IT integration is the biggest goal of our company.



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http://www.persononboard.com/



## POB SYSTEM Person On Board

#### Safety & Access Management of On-Board Shipyard Workers

POB system for establishing the safety first shipyard.

POB system has been supporting safety of aboard workers in domestic and overseas shipyards, and it also has been contributing to building a large number of offshore plants and ships delivered from Korea to all over the world.





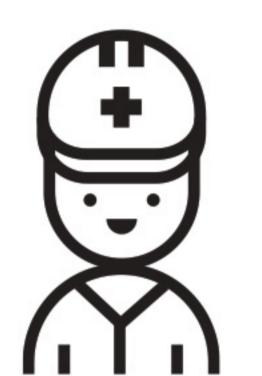


#### Why the POB system is necessary?



#### Improve Personnel Management

By POB system, real-time infor- The system only allows safe- In emergency such as fire or Data processing for valuable inmation of deployed workers per ty-training completed workers to physical accidents, POB system formation is commonly one of big vessel, per partner-company, per access work-areas in the vessel. alerts and shares details of the ac-challenges in management due job, and per gender is available to The restriction not only develops cident to all workers and relevant to size and variety. POB system check. Also, unauthorized person the safety first work-environment, department through emergency arranges data from the collection such as safety training uncomplet- but also workers' safety awareness alarm and text transmission. Also, step and supports user to utilize ed worker or suspicious person is interrupted to access workplace.



**Set Safety First** Culture



Advance Emergency Response

it keep checking the fallen behind the big data in various fields. workers in danger in real-time.



#### Utilize Big Data in Management

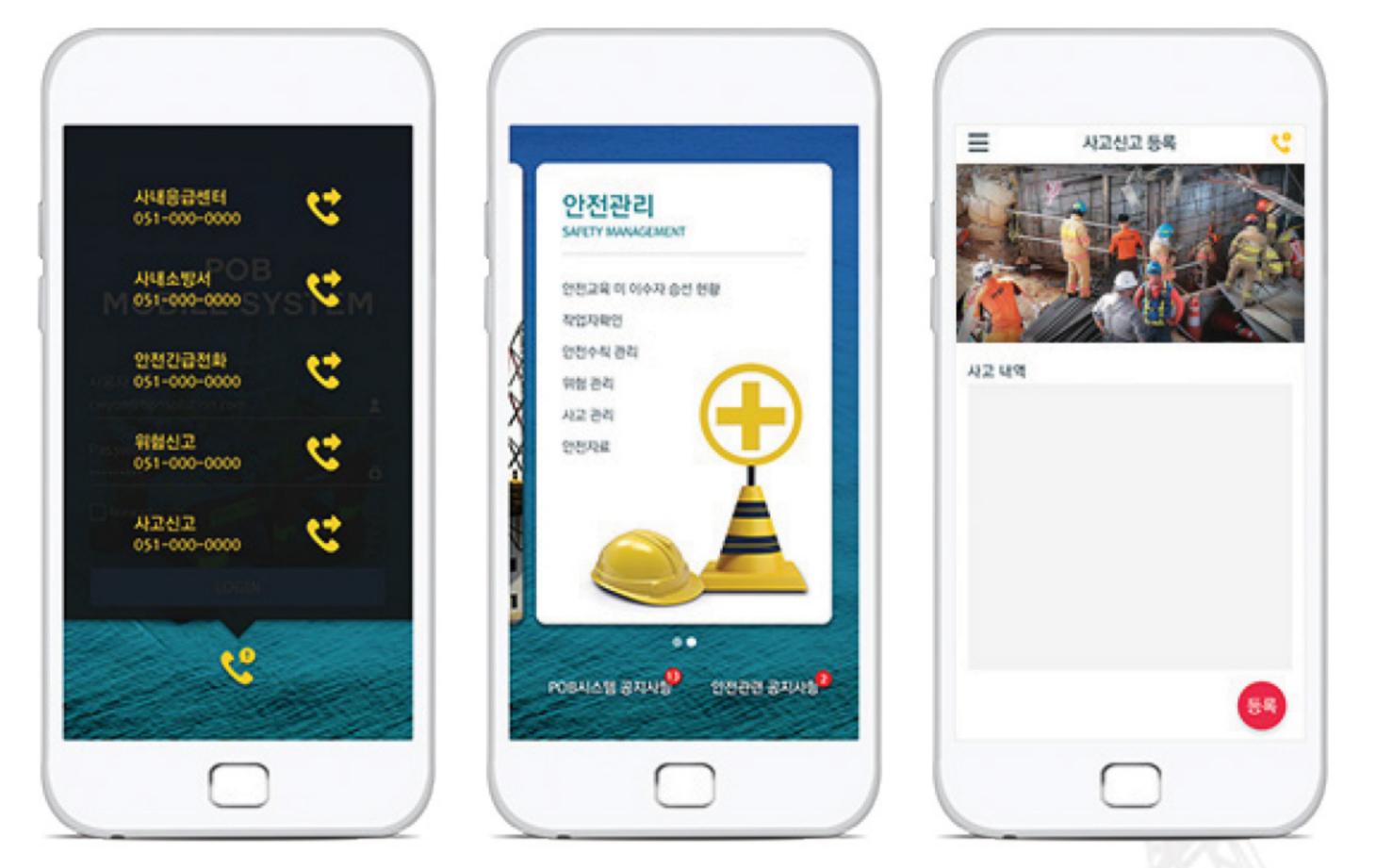
#### Person On Board (POB) System

Worksite for building offshore-plants and ships tends to be complicated, and various safety hazards lurk in every area always. Moreover, manually managing personnel and their health condition is a herculean task. Through the RFID which wirelessly recognizes the relevant info of personnel, workers can embark without any further identifying process or interruption, and all the data, especially which who are on-board, can be managed in real-time.

If in the event of emergency situation such as fire or explosion etc, emergency notification and the evacuation alert are transmitted to all of the on-board personnel by phone message, and the system checks the fallen-behind workers in danger.



### Basic Feature

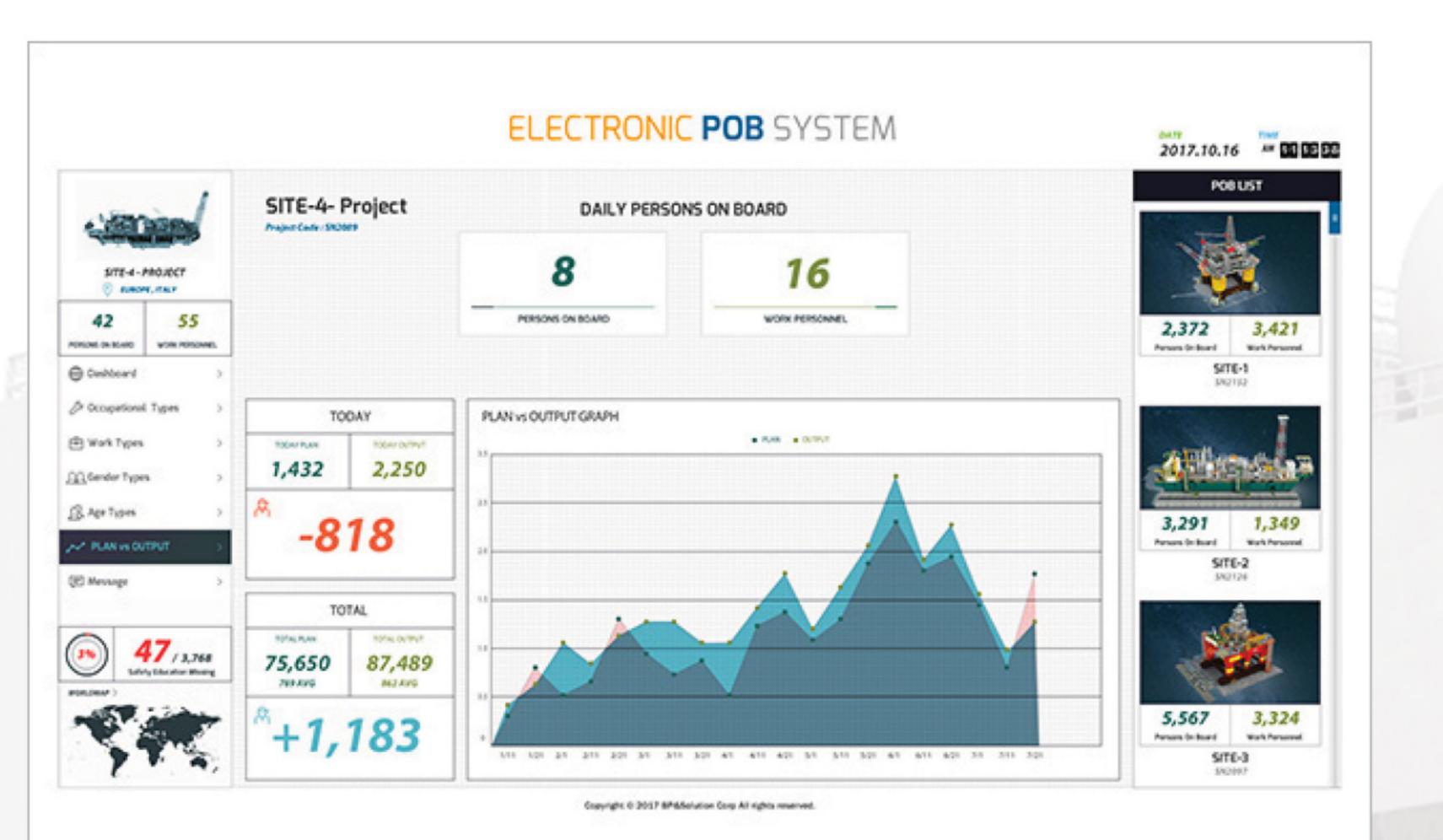


**ELECTRONIC POB** SYSTEM

#### Safety Management

In the event of emergency situation such as fire or critical accidents, emergency evacuation message can be transmitted to all of on-board personnel by one button. The system can issue alarm sound remotely on the whole vessel if emergency bell system is connected.

# Real-time



## Management of **Aboard Workers**

Status of on-board workers and work area access information are monitored in real-time and available to sort by vessel or partner-company. The functions can connect and interwork with fully integrated on-board personnel management system, punctuality management system, and security system.

#### Statistical Calculation by Big Data

Based on vessel-access-related big data which is collected by POB system, statistics and analysis information per time-range, per department, and per vessel are

### Extension

Various type of hazardous area exists in the vessel while being built, and a major portion of fatal accidents occurred from hazardous area. Health condition of worker in the area is checked in succession for rapid reaction if any kind of accidents arisen.



**Management System** for Worker in Hazardous Area 교위병 작업용-2

The system tracks location of on-board worker in real-time. If sensors recognize any abnormal status on worker (no movement, fall down etc), urgent notification and the detail info including location are sent to central control office and relevant department in order to support retrieve activities and

emergency response.



Track Worker System for Safety

#### Various Expansion Solutions

Various expansion solutions for extending POB system to diverse fields. Experience expansion solutions and select system as your needs.

**Mobile Based** Safety Management System

Interworking between POB system and

company access control system dramatical-

ly improves efficiency of access control and

accuracy of relevant data by double check-

Company Access

**Control System** 

ing worker's identification.

Users can share info of safety incident and accident location by the mobile application, and supervisors can utilize those in any activities dealing with safety vulnerable factors in shipyard.

**Emergency Bell Operation System** 

n-board workers in air-tight area are often threaten by various risks including being ex posed to flammable and toxic gas.

The system monitors relevant environmental factors such as gas density, temperature, and humidity in order to supports the proac tive response.

Air-Tight

Environment

**Monitoring System** 



erates properly regardless of external power

