

#### **Facility Management Services**

#### Hitachi, Ltd. Water & Environment Business Unit

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## Asset Management System System overview



#### Data conversion and utilization of unmanaged information

- Equipment ledger achieves operational visualization by integrating information such as facilities, working records, operation, malfunction and repair into one DB.
- Integrated DB enables users to identify appropriate repair time and place and allows users to prevent failures, reduce repair cost and achieve stable operation.

Maintenance Plan			Facility Information DB		Spare-parts Management				
April, 2014	Inspection					ltem	Model	Number of stocks	
May, 2014	4 Component replacement		Equipment name	Compressor		Pump	SA10	15	
June, 2014 Periodic inspection		Manufacturer	Hitachi		Filter	PF02	5		
Julie, 2014 Periodic Inspection			Model Y012-Q034				1102	5	
Inspect	tion Descriptio	n / History		Serial number	X19972011		Loc	ation Mana	gement
Dated on May 8, 2014			Location	Building A, B-3					
Electricity consumption 140kWh			Output the data	File attachment					
Intake water temperature 33°C			A117/ 10 6-48140						
Ventilation gas temperature 108°C									
Malfunction History / Request for Work					Analytics				
	Dated on De	c. 8, 2013 at 2:24pn	<u>n</u>	Key Note: System m	anagement	1	27-0-112 3511-01 75.385.475/9227/7 288 7- 11-5/122 74- 95.886 40 281 28 576 958 468 468 161 411 415 281 8 2169 203 558 408 40 405 281 8	N 2003 Internet	1 mm 1 ( ) 1
Incident	Component damage		Users can freely add	1	AND THE REAL PROPERTY OF THE R	Bana Arion Bana Arion Bana Arion Bana Arion Arion Arion Arion Arion	- Analytic parameter		
Cause Operational error		and management iter		79-C28 1010 103		- Soundness - Risk			
Counter measure Component replacement			utilizing by the tool fo				- Life Cycle Cost		
			-	even after installing th	ie system.				

#### Asset Management System System overview

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## Asset Management System (2) Operation flow and functions





## Asset Management System Main functions - Portal display (Dashboard) -



お知らせ Point 1		監視保	R全活動一覧	Point 3			SmartFAM	R	
		No.	操作 業務名	保全活動名	担当者	警戒 / 警告	開始予定日	開始日	
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		3	○ 点検履歴	場内巡視点検		0/0	2019/10/24 0		
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	◆ Poir	No. 該当する	操作 案件ID	案件種別現	ステップ 進歩 Point 3	担当者	申請者	申請日	
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## Asset Management System (3) Main functions - Spare parts management -





## Asset Management System Main functions - Location -





# Asset Management System Supporting on-site inspection work using tablets

#### Input error prevention, work efficiency improvement, and time saving

Download the inspection plan and maintenance in the field. Data entered in the field will be uploaded automatically to the system.



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#### 2. Two-way communication with wearable devices



\* HMD : Head Mounted Display

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#### 2. Two-way communication with wearable devices

- Connectable from 4 locations. Grasping the situation from the management base and carrying out inspection work
- Contributes to the advancement and efficiency of facility maintenance by providing remote work support in emergency situations and recording and viewing work images.



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