# Financial Results for FY 18/3 2<sup>nd</sup> Quarter and Forecast for FY 18/3

October 31, 2017

2. Forecast for FY18/3	p.7-10
3. Overview of Each Industrial Segment	p.11-16
4. Financial Position	— p.17
5. Fleet in Operation	— p.18

**ONE = Ocean Network Express - Progress status report-**

1. Financial Highlights for FY18/3 2Q

### Contents

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(Attachment)

p.3-6

### Overview of FY 18/3 2<sup>nd</sup> Quarter Results



➤ Revenues and profit increased vs FY 17/3 2Q. Bottom line returned to the black.

Both Container and Dry bulk market improved on the back of strong cargo movement. FY18/3 2Q result improved vs previous forecast. (Please refer to page 10) Net income returned to the black vs FY 17/3 2Q when a large extraordinary loss was recorded.

Liner Trade Lifting volume stable and high utilization has been maintained.

Transpacific spot rates at a standstill due to excess capacity caused by some

carriers' extra loaders program

ONE has been included in the scope of consolidation as an equity-affiliated

company from 2Q.

Air Cargo Strong cargo demand led to high freight rates.

FY18/3 2Q significantly improved vs FY17/3 2Q.

Logistics Both ocean-freight forwarding and air-freight forwarding business struggled

with high procurement cost.

Bulk Shipping Dry bulk trade, especially iron ore, coal and grains as major commodities,

was active and the market improved.

Tanker market worse than expected due to oversupply of new builds.

LNG/Off shore business's high rate of engagement resulted in good profit.

Car carrier's strong volume to North America and Europe has been

maintained.

•2Q Extra-ordinary Loss Integration cost of container business JPY 4.2 billion

(The amount was included in the previous forecast.)

•2Q Net Income JPY 0.8 billion which is a significant improvement vs the previous forecast.

### FY 18/3 2<sup>nd</sup> Quarter Result (Summary)



➤ Revenues and profit increased vs FY 17/3 2Q. Bottom line returned to the black.

				FY17/3	3				FY18/3	3	Year-
(In billion yen)	<b>1Q</b>	2Q	1H	3Q	4Q	2H	Full- Year	1Q	<b>2</b> Q	1H	on- year
Revenues	470.7	457.8	928.5	485.9	509.3	995.2	1,923.8	521.7	542.5	1,064.2	135.6
Operating Income	-10.9	-11.5	-22.4	6.9	-2.5	4.3	-18.0	3.5	9.1	12.7	35.2
Recurring Profit	-9.9	-13.6	-23.6	25.9	-1.2	24.6	1.0	10.2	11.7	22.0	45.6
Net Income Attributable of owners of the Parent Company	-12.7	-219.0	-231.8	5.7	-39.6	-33.9	-265.7	5.3	0.8	6.2	238.1
Exchange rate Bunker Oil Prices	¥ 111.12 \$ 192.62	¥ 103.50 \$ 238.71	¥ 107.31 \$ 215.67	¥ 106.13 \$ 270.71	¥ 114.29 \$ 312.94	¥110.21 \$291.83	¥ 108.76 \$ 253.75	¥ 111.48 \$ 326.72	¥ 110.92 \$ 316.32	¥ 111.20 \$ 321.52	+ ¥ 3.89 + \$ 105.85

### **2<sup>nd</sup> quarter comparison by Industrial SEGs**







- > Strong cargo movement in container and dry bulk resulted in market improvement.
- > In Logistics, profit declined due to high procurement cost.

	Industrial Segment				FY17/3		,			FY18/3		Year-on-
G	(In Billion Yen)	1Q	2Q	1H	3Q	4Q	2H	Full-year	1Q	2Q	1H	year
0		141.4	139.1	280.5	149.8	155.4	305.3	585.9	171.5	179.0	350.5	69.9
bal I	Liner	-8.8	-6.4	-15.3	3.9	-1.3	2.5	-12.7	5.7	7.6	13.3	28.6
	Air Cargo	19.0	19.4	38.5	22.5	20.9	43.4	81.9	23.3	23.7	47.1	8.6
0	Air Cargo	-1.9	-1.4	-3.4	2.2	3.8	6.1	2.6	0.7	-0.8	-0.0	3.3
gis	Logistics	113.8	111.9	225.8	118.0	117.5	235.5	461.3	118.9	127.7	246.7	20.9
t i		2.1	2.4	4.6	2.0	0.9	3.0	7.6	-0.0	1.3	1.2	-3.4
C S	(Total)	274.3	270.6	544.9	290.4	293.8	584.2	1,129.1	313.9	330.5	644.4	99.5
Sh Bc		-8.6	-5.4	-14.1	8.2	3.4	11.6	-2.4	6.3	8.1	14.5	28.6
Bulk Shipping	Dulle Chinning	180.1	169.6	349.8	176.6	191.2	367.9	717.7	188.9	192.2	381.2	31.4
ρ	Bulk Shipping	-0.8	-8.5	-9.4	8.0	-2.7	5.2	-4.1	2.7	2.2	5.0	14.5
	Dool Estatos	2.4	2.4	4.8	2.5	2.0	4.5	9.4	1.9	1.9	3.9	-0.9
Others	Real Estates	0.9	0.9	1.8	9.4	0.7	10.1	12.0	0.6	0.8	1.4	-0.4
SJA	Other	32.0	34.5	66.6	37.0	42.8	79.9	146.6	39.0	40.0	79.1	12.4
	other	-0.6	0.1	-0.5	0.6	-1.6	-0.9	-1.4	1.1	0.9	2.0	2.5
	Elimination/Un	-18.2	-19.3	-37.6	-20.7	-20.6	-41.4	-79.0	-22.2	-22.1	-44.4	-6.8
	allocation	-0.7	-0.7	-1.4	-0.4	-1.0	-1.5	-2.9	-0.6	-0.4	-1.0	0.3
	Consolidated	470.7	457.8	928.5	485.9	509.3	995.2	1,923.8	521.7	542.5	1,064.2	135.6
	Consolidated	-9.9	-13.6	-23.6	25.9	-1.2	24.6	1.0	10.2	11.7	22.0	45.6

5

# Analysis of Change in Recurring Profit between FY 17/3 2<sup>nd</sup> and FY 18/3 2<sup>nd</sup>



(billion yen)

Yen Depreciation	1.3	¥111.20/\$ , Depreciated by ¥3.89
Higher Bunker Oil Price	-5.5	\$321.52/MT, Increased by \$105.85
Market Effects, etc.	31.0	
Cost Reduction	1.5	
Foreign Exchange Profit/Loss	9.2	
Others	8.1	(Structural reforms effect 8.0 included)
Total	45.6	

### Revised Forecast for FY 18/3



- ➤ Full-year revenues increase vs FY 17/3.

  Results expected to remarkably improve and return to the black.
- ➤ Net income: Make upward adjustment to the previous forecast.

>	Liner		rong cargo movement expected. A certain amount of integration st included in the forecast, but 2H bottom line expected to be in e black and improved YoY.					
>	Air Cargo	Recurring profit expected to increase with stable cargo volume and improve YoY. (One-off forex profit gained last year so operating profit significantly increase YoY.)						
>	Logistics	Make downward adjustment to previous forecast. Revenue expected to increase but profitability decline due to high procurement cost.						
>	Bulk Shipping	Make upward adjustment to Revenue and profit improve good profit by LNG/offshor	e YoY. Recovery in dry bulk market and					
>	Real estate	Making stable profit. Revenue and profit decreasing YoY but this is due to one-off profit recorded last year.						
>	Dividends	Interim: no payment	Year-end: TBD					

<sup>•</sup>Non-operating Loss: Cost related to preparation work for ONE started to be recognized from 2Q.

### Revised Forecast for FY 18/3 (Summary)







		FY :	L7/3 (R	esult)			FY 18/3	(Forecast)			Change
	1	Н	2	Н	Full-	Full- 1H (Result)			Full-	Year-on year	from previous
(In billion yen)	1Q	2Q	3Q	4Q	year	<b>1</b> Q	2Q	2H	year	y can	forecast (full-year)
Dovonuos	928.5		99	5.2	1 022 0	1,00	1,064.2		2,153.0	229.2	41.0
Revenues	470.7	457.8	485.9	509.3	1,923.8	521.7	542.5	1,088.8	2,155.0	229.2	41.0
Operating Income	-22.4 4.3		100	12.7		20.3	33.0	51.0	11.5		
	-10.9	-11.5	6.9	-2.5	-18.0	3.5	9.1	20.3	33.0	51.0	11.5
Recurring	-23	3.6	24	1.6	1.0	22.0		12.0	25.0	24.0	12.0
Profit	-9.9	-13.6	25.9	-1.2	1.0	10.2	11.7	13.0	35.0	34.0	12.0
Net Income Attributable to	-23	31.8	-3	3.9	265.7	6	.2	4.0	11.0	276.7	6.0
Owners of the parent company	-12.7	-219.0	5.7	-39.6	-265.7	5.3	0.8	4.8	11.0	276.7	6.0
Exchange Rate Bunker Oil Prices		¥ 103.50 \$ 238.71		¥ 114.29 \$312.94	¥ 108.76 \$253.75	¥ 111.48 \$326.72	¥ 110.92 \$316.32	¥ 110.00 \$350.00	¥ 110.60 \$335.76	¥ 1.84 \$82.01	

Sensitivity on Recurring Profit (2H)

Exchange Rate : 0.2 billion(2H) increase per ¥1/\$ depreciation

Bunker Oil Prices : 0.6 billion(2H) increase per \$10/MT decrease

Dividends Interim: no payment Year-end: TBD

### FY 18/3 Forecast by Industrial SEGs

### Forecast





	Industrial Segment		F	Y17/3 (Res	ult)			FY 1	8/3 (Foreca	ast)		Year-on
	(In billion yen)	1Q	2Q	1H	2H	Full-year	<b>1</b> Q	2Q	1H (Result)	2H	Full-year	Year
G l o	Linou	141.4	139.1	280.5	305.3	585.9	171.5	179.0	350.5	344.5	695.0	109.1
0 Ь	Liner	-8.8	-6.4	-15.3	2.5	-12.7	5.7	7.6	13.3	0.2	13.5	26.2
a –	Air Carae	19.0	19.4	38.5	43.4	81.9	23.3	23.7	47.1	47.9	95.0	13.1
Air Car	Air Cargo	-1.9	-1.4	-3.4	6.1	2.6	0.7	-0.8	-0.0	0.5	0.5	-2.1
LO .	Logistics	113.8	111.9	225.8	235.5	461.3	118.9	127.7	246.7	265.3	512.0	50.7
jisti	Logistics	2.1	2.4	4.6	3.0	7.6	-0.0	1.3	1.2	3.7	5.0	-2.6
CS	(Total)	274.3	270.6	544.9	584.2	1,129.1	313.9	330.5	644.4	657.7	1,302.0	172.9
S B		-8.6	-5.4	-14.1	11.6	-2.4	6.3	8.1	14.5	4.4	19.0	21.4
Bulk Shipping	Bulk	180.1	169.6	349.8	367.9	717.7	188.9	192.2	381.2	389.8	771.0	53.3
ing	Shipping	-0.8	-8.5	-9.4	5.2	-4.1	2.7	2.2	5.0	7.9	13.0	17.1
	Real	2.4	2.4	4.8	4.5	9.4	1.9	1.9	3.9	4.1	8.0	-1.4
Others	Estate	0.9	0.9	1.8	10.1	12.0	0.6	0.8	1.4	1.1	2.5	-9.5
ers	Ottle en	32.0	34.5	66.6	79.9	146.6	39.0	40.0	79.1	81.9	161.0	14.4
	Other	-0.6	0.1	-0.5	-0.9	-1.4	1.1	0.9	2.0	0.5	2.5	3.9
	Elimination/	-18.2	-19.3	-37.6	-41.4	-79.0	-22.2	-22.1	-44.4	-44.6	-89.0	-10.0
	Unallocation	-0.7	-0.7	-1.4	-1.5	-2.9	-0.6	-0.4	-1.0	-1.0	-2.0	0.9
	C	470.7	457.8	928.5	995.2	1,923.8	521.7	542.5	1,064.2	1,088.8	2,153.0	229.2
	Consolidated	-9.9	-13.6	-23.6	24.6	1.0	10.2	11.7	22.0	13.0	35.0	34.0

(Upper) Revenues (Lower) Recurring Profit

- A certain amount of integration cost included in the forecast.
- In Air Cargo and Real Estate, one-off profit recorded in the previous year (2H).

# FY18/3 Forecast vs latest Guidance by Industrial SEGs







Industrial Segment		Guidance			Forecast		Cha	ange Full	-year
(In billion yen)	1H	2H	Full-year	1H (Result)	2H	Full-year	1H	2H	Full Year
Linor	346.0	339.0	685.0	350.5	344.5	695.0	4.5	5.5	10.0
Liner	9.0	-4.0	5.0	13.3	0.2	13.5	4.3	4.2	8.5
Air Carro	48.0	47.0	95.0	47.1	47.9	95.0	-0.9	0.9	0.0
Air Cargo	0.5	1.0	1.5	-0.0	0.5	0.5	-0.5	-0.5	-1.0
Locietics	252.0	258.0	510.0	246.7	265.3	512.0	-5.3	7.3	2.0
Logistics	3.5	5.0	8.5	1.2	3.7	5.0	-2.3	-1.3	-3.5
(Total)	646.0	644.0	1,290.0	644.4	657.7	1,302.0	-1.6	13.7	12.0
(Total)	13.0	2.0	15.0	14.5	4.4	19.0	1.5	2.4	4.0
Bulk	369.0	374.0	743.0	381.2	389.8	771.0	12.2	15.8	28.0
Shipping	0.5	6.0	6.5	5.0	7.9	13.0	4.5	1.9	6.5
Dool Fatata	4.0	4.0	8.0	3.9	4.1	8.0	-0.1	0.1	0.0
Real Estate	1.0	1.5	2.5	1.4	1.1	2.5	0.4	-0.4	0.0
Othor	79.0	82.0	161.0	79.1	81.9	161.0	0.1	-0.1	0.0
Other	1.5	0.5	2.0	2.0	0.5	2.5	0.5	0.0	0.5
Elimination/	-45.0	-45.0	-90.0	-44.4	-44.6	-89.0	0.6	0.4	1.0
Allocation	-1.5	-1.5	-3.0	-1.0	-1.0	-2.0	0.5	0.5	1.0
Consolidated	1,053.0	1,059.0	2,112.0	1,064.2	1,088.8	2,153.0	11.2	29.8	41.0
Consolidated	14.5	8.5	23.0	22.0	13.0	35.0	7.5	4.5	12.0

(Lower) Recurring Profit

• Liner:

Stable cargo movement in the market. Expect more lifting volume than previous forecast. Terminal to make stable profit.

• Bulk Shipping:

Market expect to continue moderate recovering.

### 3. Segment-wise Overviews





Target to secure enough cargo volume in 2H (slack season).

Aim to maximize profit margin by flexible pricing and optimizing

cargo mixture.

Air Cargo Forecast stable cargo volume to continue. However, profit margin to decline due to expected some engine maintenances.

Logistics Expect high procurement situation to be eased over time.

Bulk Shipping

Dry Bulk Stable cargo and moderate market recovery expected to continue.

Liquid Tanker market expected to recover in 2H, a period of peak demand.

Car Carrier Strong cargo movement to Europe/America expected. Further optimize vessel allocation/operation.

### **Segment-wise: Global Logistics**







### **▶** 1. Liner Trade (Container Transportation)

Lifting	<ul> <li>Utilization</li> </ul>		17/3(Result)								
(1,000	OTEU)	1	.H	2	Н	Full-Year					
			2Q	3Q	4Q						
Asia →	Lifting (Guidance)	175	220	227	217	840					
North America	Utilization ( Guidance)	80%	92%	92%	90%	89%					
Asia →	Lifting ( Guidance)	117	128	124	129	498					
Europe	Utilization (Guidance )	91%	95%	97%	102%	96%					

18/3(Forecast)									
1H(R 1Q	esult) 2Q	2Н	Full-Year						
239	257	492	988						
(48	89)	(480)	(968)						
91%	96%	93%	93%						
(92	2%)	(91%)	(92%)						
166	176	343	685						
(34	44)	(322)	(666)						
96%	95%	95%	95%						
(96	5%)	(94%)	(95%)						

Freight Index (09/3 1Q = 100)
Asia→North America (Guidance )
Asia→Europe ( Guidance)

	17/3(Result)								
1	1H		2H						
1Q	2Q	3Q	4Q						
74	69	71	71	71					
42	46	47	51	46					

18/3(Forecast)									
1H(R	1H(Result)		Full-Year						
1Q	2Q	2H	Tull-Teal						
70	69	70	69						
(7	<b>'2</b> )	(71)	(71)						
50	55	52	52						
(5	52)	(53)	(52)						

### **Segment-wise: Global Logistics**





### **▶** 2. Air Cargo Transportation (NCA)

		FY17/3 (Result)					FY18/3 (	Change from			
	1	Н	2	Н	Full-year	1H(R	esult)	2H	Full-year	Previous forecast	
	1Q	2Q	3Q	4Q	Tun year	1Q	2Q	211		(Full-Year)	
Revenues	38	8.5	43	3.4	81.9	47	7.1	47.9	95.0	0.0	
(billion yen)	19.0	19.4	22.5	20.9	01.9	23.3	23.7	77.5	55.0	0.0	
Recurring Profit	-3	.4	6.	.1	2.6	-0	.0	0.5	0.5	-1.0	
(billion yen)	-1.9	-1.4	2.2	3.8	2.6	0.7	-0.8	0.5	0.5	-1.0	
Chargeable	24	16	26	53	510	28	36	279	565	12	
<b>Weight</b> (1,000 ton)	118	129	136	128		142	145	2/9		12	
Volume (RTK)	1,493 1,582		2.075	1,703		1,664	3,367	-46			
(mil.ton Kilo)	719	773	825	756	3,075	844	858	1,004	3,307	-40	
Capacity (ATK)	2,210 2,172		.72	4.202	2,401		2,314	4,715	22		
(mil.ton Kilo)	1,080	1,130	1,121	1,050	4,382	1,180	1,221	2,314	4,715	-32	
YIELD	7	2	7	8	75	8	2	82	82	0	
FY09/3 1Q=100	74	71	79	77	/5	81	82	02	02	O .	
MOPS	\$54 \$62		<b>+ F0</b>	\$6	52		<b>464</b>	0			
US\$ per bbl	\$54	\$54	\$60	\$64	\$ 58	\$61	\$64	\$65	\$64	0	

### **Segment-wise: Global Logistics**



### **▶** 3. Logistics

	FY	17/3 (Result)		FY18/	Change				
	1H	2H	Full-	1H(Re	1H(Result)		Full-	from Previous	
(billion yen)	1Q 2Q	3Q 4Q	year	1Q	2Q	2H	year	forecast (Full-year)	
	225.8	225.8 235.5		246.7		265.2	-100		
Revenues	113.8 111.9	118.0 117.5	461.3	118.9	127.7	265.3	512.0	2.0	
Recurring Profit	4.6	3.0	7.6	1.2		2.7			
	2.1 2.4	2.0 0.9	7.6	-0.0	1.3	3.7	5.0	-3.5	

### **Segment-wise (Bulk Shipping Business)**







### ▶ 4. Bulk Shipping – 1) Market trend and forecast

			F	/17/3 (Re	sult)			Previous			
		1Q	2Q	3Q	4Q	Full-Year	1Q (RSL)	2Q (RSL)	2Н	Full-Year	forecast (Full-Year)
Dry	BDI	610	736	997	936	820	1,018	1,137	1,176	1,127	1,051
Вч	Cape (5TC)	6,684	8,080	11,983	10,970	9,429	12,231	14,632	14,750	14,091	13,308
_ ×	Panamax (Pac)	4,546	5,743	7,338	7,481	6,277	8,304	9,811	10,250	9,654	8,451
Carı	Handymax (Pac)	4,836	6,509	5,841	5,972	5,789	7,832	8,657	10,000	9,123	8,208
 e	Handy (Pac)	3,951	5,755	5,895	5,812	5,353	6,778	7,112	8,500	7,723	6,820
Tanker	VLCC	43,686	19,549	49,208	31,483	35,982	22,582	13,541	40,000	29,031	31,896

### Segment-wise (Bulk Shipping Business)







### ► 4. Bulk Shipping – 2) Car Carrier

	FY17/3 (Result)					Change					
	1H		2H		Full-	1H(Result)		2Н	Full-	from previous forecast	
	1Q	2Q	3Q	4Q	year	1Q	2Q	2Π	year	(Full-year)	
All Trade	167 169		59	336	179		180	359	5		
(10,000cars)	84	83	86	83	330	88	91	100	339	3	
Year-on year	-1:	-11% -7%		%	00/	7%		60/	-01	40/	
	-11%	-11%	-12%	-1%	-9%	5%	10%	6%	<b>7</b> %	1%	

### 4. Financial Position



	FY16/3 (Result)	FY17/3 (Result)	FY17/9 (Result)	FY18/3 (Forecast)	FY18/ (Previous Forecast)
Interest-bearing Debt	940.5	945.3	960.6	1,000.0	1,000.0
Shareholders' equity	773.6	522.4	522.5	530.0	530.0
Shareholders' equity ratio	34%	26%	25%	25%	25%
DER	1.22	1.81	1.84	1.90	1.90
ROE	2.3%	-	_	2.1%	1.0%
Cash flow from Operating Activities	142.8	27.9	32.7	80.0	55.0
Cash flow from investing Activities	-46.8	-144.6	-61.1	-180.0	-150.0
(Depreciation and amortization)	(103.3)	(92.0)	(42.6)	(84.0)	(84.0)

### 5. Fleet in Operation





			9(Result)		FY17/9 (Result)							
Industrial Segment	Type of Vessel	Owned (incl.co-owned)	Total		Owned (incl.co-owned)		artered	Total				
		Vessels	Vessels	Vessels	Vessels	Kt(DWT)	Vessels	Kt(DWT)	Vessels	Kt(DWT)		
Liner Trade	Container Ships	22	76	98	29	1,925	70	4,848	99	6,773		
	Bulk Carriers (Capesize)	32	77	109	27	5,252	82	16,136	109	21,388		
	Bulk Carriers (Panamax)	40	67	107	39	3,489	56	4,623	95	8,112		
	Bulk Carriers (Handysize)	58	96	154	56	2,623	92	4,367	148	6,991		
Bulk	Wood Chip Carriers	8	34	42	9	460	33	1,806	42	2,267		
Shipping	Car carriers	29	86	115	35	619	82	1,529	117	2,148		
	Tankers	42	22	64	41	7,373	26	3,170	67	10,544		
	LNG carriers	65	3	68	67	5,400	3	228	70	5,629		
	Multi-Purpose carriers	18	33	51	23	427	18	260	41	688		
	Others	1	0	1	1	7	0	-	1	7		
Others	Cruise Ships	1	0	1	1	7	0	-	1	7		
	Total	316	494	810	328	27,587	462	36,970	790	64,558		
Official	Shuttle Tankers		-	26			-		29	3,437		
Offshore	FPS0			4					4	-		
	Drill Ships			1					1	-		
Gı	rand Total			841					824	67,996		

<sup>-</sup>Co-owned ship's dwt is including not only NYK Group companies' ownership but also other companies' ownership.

<sup>-</sup>The total number of LNG carriers owned includes vessels owned by equity method affiliates.

# OCEAN NETWORK EXPRESS

Operating Company for New Integrated Container Shipping Business -Progress status report for business launchoct 31ST 2017

## **Progress of Integration(1/3)**



Overall progress : No change from the original schedule



NewCo: Ocean Network Express is named as ONE



2017/7/10 @Press Conference (From Left K-Line: Eizo Murakami, MOL: Junichiro Ikeda, ONE: Jeremy Nixon, NYK: Tadaaki Naito)



# **Progress of Integration(2/3)**



# Regional Head Quarter and Local Entity Establishment

- Global Head Quarter : Marina One Office in Singapore will be open in Jan 2018
- All Regional Head Quarters (Singapore, Hong Kong, UK, USA, Brazil) and Japan Local Office start business
- Offices in other countries are in progress of establishment

# Antitrust license approval

- Only South Africa is under process of appeal. It will be concluded in Jan 2018.
- Procedure related to the business integration completed in other countries.

Contract with customers (Bid)

■ As for the contract effective from Apr 2018, we started to participate in bidding process invited by customers. (\*)

**Contract with vendors** 

As for the contract effective from Apr 2018, we started to talk with vendors. (\*)

(\*) Excluding South Africa Trade

# **Progress of Integration(3/3)**



Built a core system that combines best practices (Aug 2017) Training for booking launch (Feb 2018) started around the world (From IT Infrastructure Sep 2017) E-commerce : Developing multi functional Home Page for customer convenience Scheduled installation of state-of-the-art 24 hours vessel Safe Operation, operation center in GHQ office **Environment** Started to formulate ONE own safe navigation standard Started preparations for ISO14001 Decision of audit corporation Decided financial period (Apr – Mar) **Corporate Function** Adopted Global Cash Management System for the more efficient cash flow control

We will continue preparations for service start from Apr 2018