5713

2nd Quarter of FY2016 Progress of Business Strategy

November 17, 2016

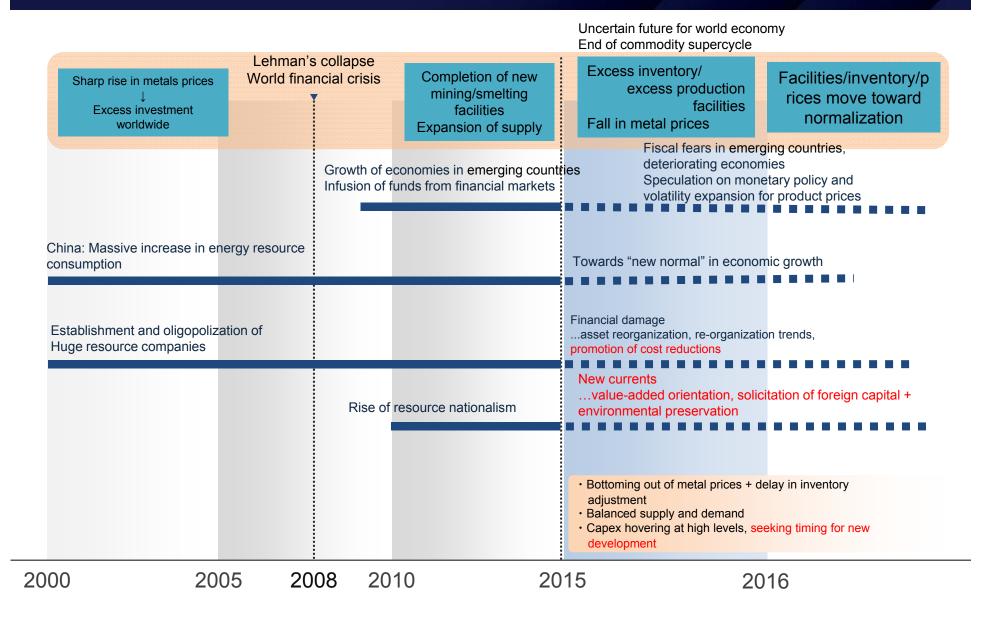


Yoshiaki Nakazato President and Representative Director

I. Addressing Management Issues and Future Markets



1) Business Environment



2) Long-Term Vision

Aiming to be a World Leader in the Non-Ferrous Metals Industry and an Excellent Company of Japan

Targets

World Leader in the Non-Ferrous Metals Industry

FY2021



Nickel

150 kt



New materials

Copper interests

Recurring profit

¥5 billion

300 kt

Excellent Company of Japan

Net Sales ¥1 trillion

Net Income* ¥100 billion (Recurring profit ¥150 billion)



- Grow steadily to achieve on our Long-Term Vision
- Reconsideration of strategy based on external business environment changes

Head Office building entrance Monument presented by Freeport-McMoRan Inc. to commemorate acquisition of additional interest in the Morenci Copper Mine

^{*} Profit attributable to owners of parent

3) Top Priorities in the 15 3-Yr Business Plan

Mineral Resources / Smelting & Refining Metals market conditions: Adjustment phase → all companies focusing on cost reductions and productivity improvements

Materials Business Active investment in growth areas and markets

Batteries: Further reinforcement from 1,850 t/mo. → 3,550 t/mo. capacity in FY 2017

Crystals: Certain implementation of 300K substrates/mo. → 400K substrates/mo. capacity in FY 2017

Lead frames: Decision on transfer of / withdrawal from business

Mineral Resources

- · Full-scale production at the Sierra Gorda Copper Mine
- · Acquire new Gold mine interests

Smelting & Refining

- Expand Taganito HPAL
- Advance growth strategies using HPAL peripheral technologies
- Enhance competitiveness of copper smelting business

Materials

- Profit contribution from expanded battery material and LT/LN substrate production
- Continuously create and adapt new products

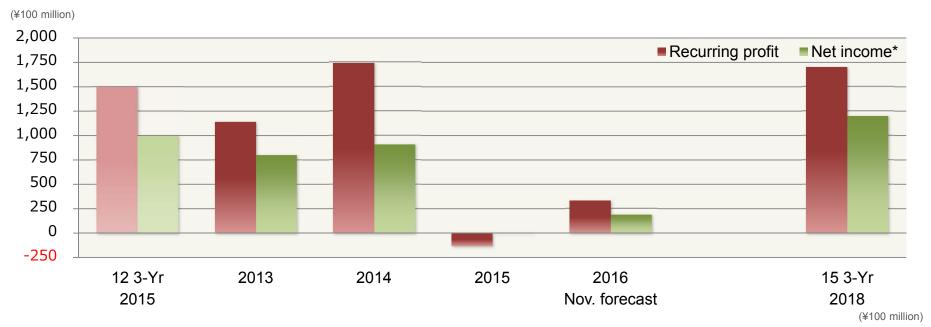
R&D

· Develop new products and processes



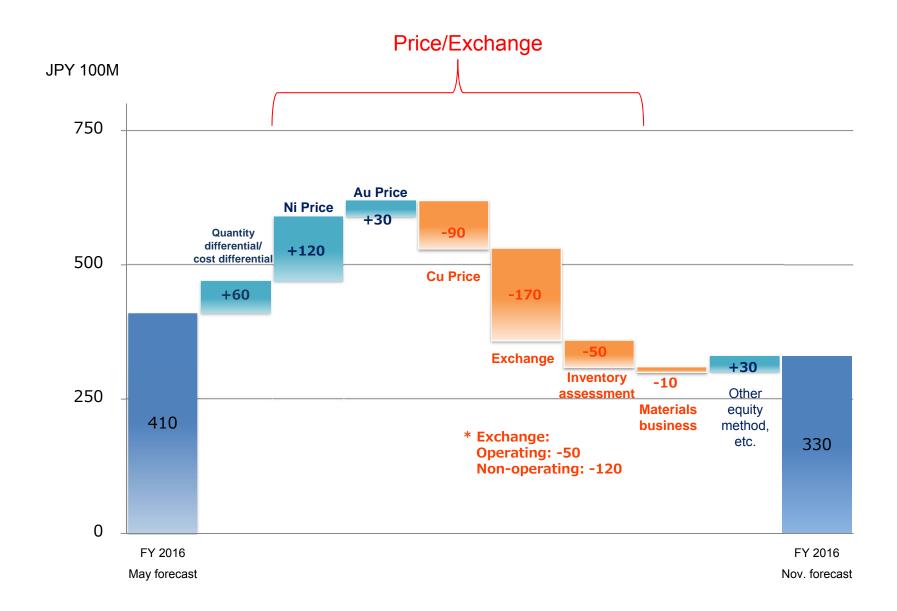
Make efforts to secure profits under low metals prices

4) Recurring Profit



	12 3-Yr Plan 2015	2013	2014	2015	2016 May forecast	2016 Nov. forecast	15 3-Yr Plan 2018
Recurring profit (¥100 million)	1,500	1,144	1,742	-128	410	330	1,700
Net income* (¥100 million) *Profit attributable to owners of parent	1,000	803	911	-3	230	190	1,200
Cu price (\$/T)	7,500	7,104	6,554	5,215	5,000	4,726	6,000
Ni price (\$/lb)	9.0	6.5	7.6	4.7	3.75	4.5	7.0
Au price (\$/toz)	1,550	1,327	1,248	1,150	1,200	1,273	1,150
Forex (¥/\$)	80.0	100.2	109.9	120.2	110.0	102.7	120.0

5) Recurring Profit Analysis FY 2016 November forecast vs May forecast

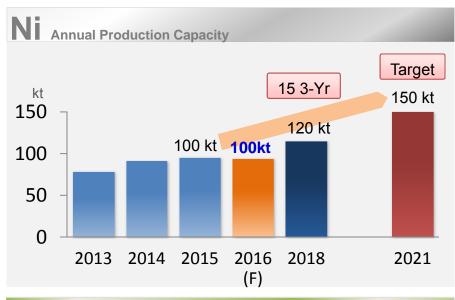


6) Major Projects in 2015 3-Yr Business Plan

		Project name	FY 2015	FY 2016	FY 2017 o	nward
Mineral Resources	Cu	Sierra Gorda Mine	Start commercial production	al 110 kt production structure	1	ase 2: project to rease production
	Cu	Morenci Mine Start e	xpanded full-scale production	Completion of acquisi additional interests	tion of	
	Cu	Cerro Verde Mine		Start expanded full-s production	cale	
	Ni	Solomon			2018~ Consideration of operation start	
Smelting & Refining	Ni	Taganito HPAL			2018 36 kt production structu	
	Ni	Pomalaa Project			Conduct FS	Decision on investment
	Ni	Harima Refinery Nickel sulfate		Second line lau	nch	voonon
Materials	Battery materials		NCA 1,850 t str		2018 NCA 3,550 t structure	Ternary type Increase production
	Crystal r	materials (LT/LN)	Decision on production increase	300k nieces	2017 4 00k pieces production	n structure

7) Status of Long-Term Vision Achievement



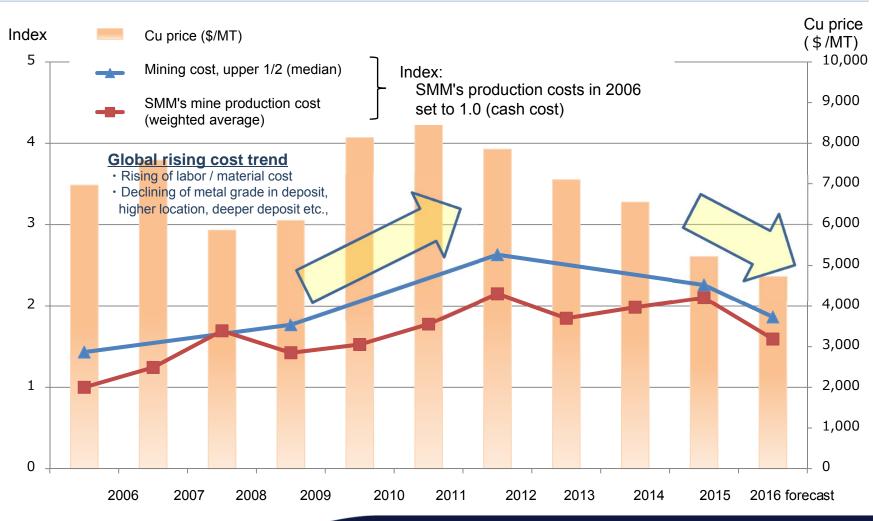






8) Addressing Future Markets (1) Mineral Resources: Change in costs at SMM's overseas copper mines

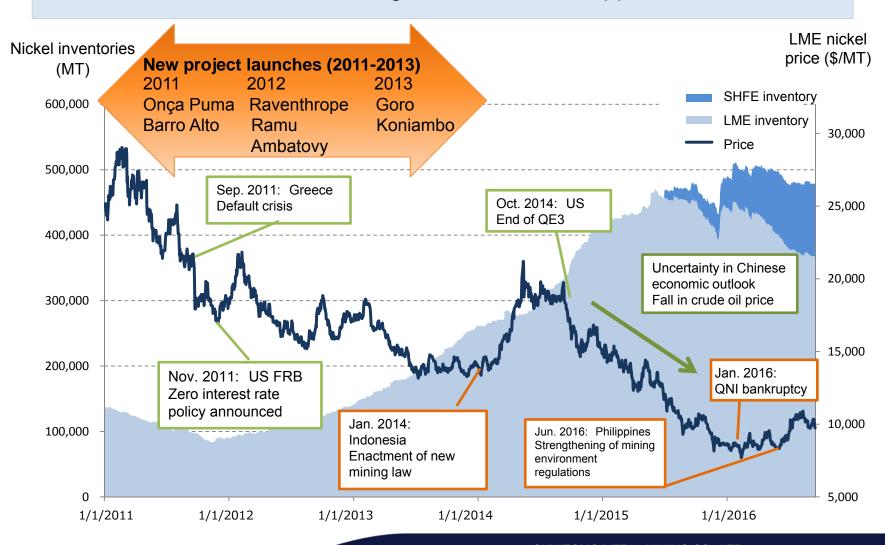
Stay within lower-cost half of global copper producers
Ensure competitiveness through increased production effects and cost reductions



(Source: SMM) SUMITOMO METAL MINING CO., LTD. 10

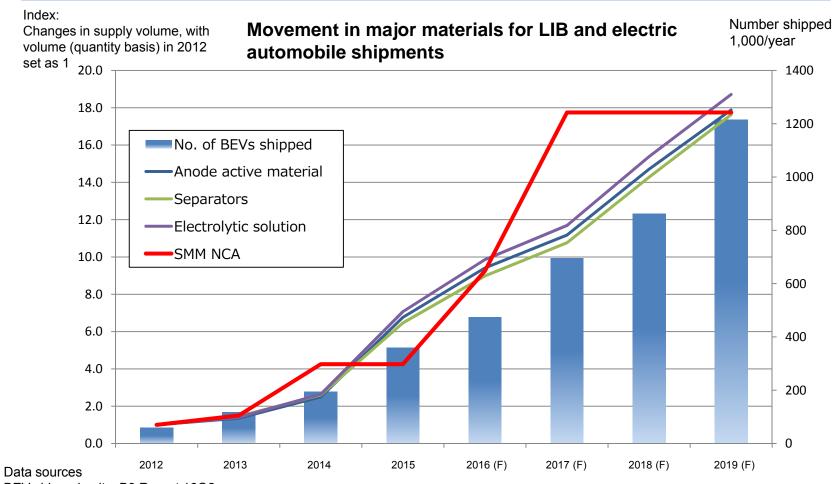
9) Addressing Future Markets (2) Smelting & Refining: The environment surrounding nickel markets

Continued weak nickel prices; uncertain outlook in the supply market due to environmental regulations in the Philippines



10) Addressing Future Markets (3) Materials: EV market growth and NCA production capacity

Expansion in the market for electric automobiles overall SMM is promoting investment for increased production of NCA

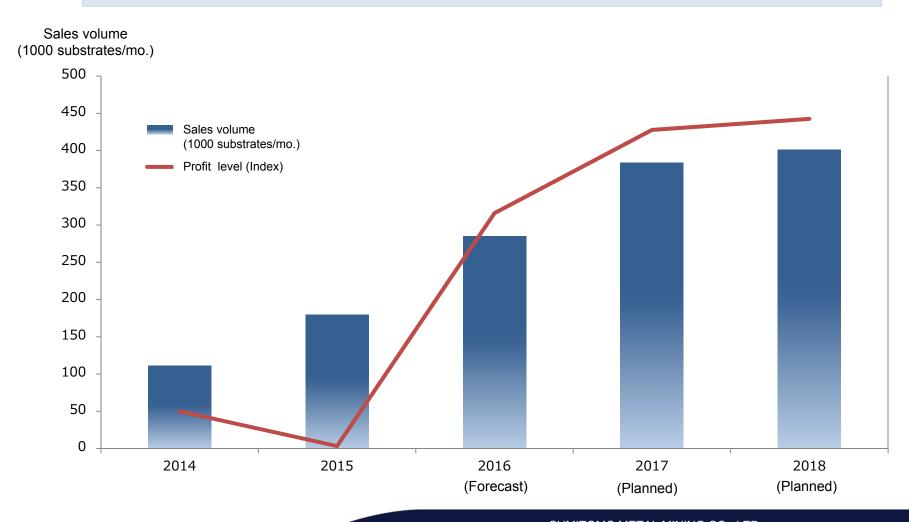


BEV shipped units: B3 Report 16Q2

Major materials trends: Created based on "2014-2016 General Survey of Battery-Related Market Conditions," Fuji Keizai Co., Ltd.

11) Addressing Future Markets (4) Materials: LTLN sales volume and change in profit

Sales volume is also increasing along with expansion operations Growth in products that support profit in the Materials Business



12) Strengthening of Corporate Governance

Corporate governance structure

Multiple outside directors and increased ratio of outside directors (2015~ two independent outside directors among eight of all directors

→ 2016~ three independent outside directors among eight of all directors)

The Governance Committee regarding nominating and compensation of executive was established 2015 and started operation Effective evaluation of the Board started in 2015, and improved the Board's function based on results of the evaluation

Engagement

Strengthening of engagement with shareholders, etc. by company management

Continue explanation of business strategy to investors, etc. by persons responsible for businesses

Non-financial information

Integrated report

Oct. 1, 2016: Japanese version issued Nov. 11, 2016: English version issued

Accounting standards

International Financial Reporting Standards (IFRS) FY 2018: Start of implementation scheduled

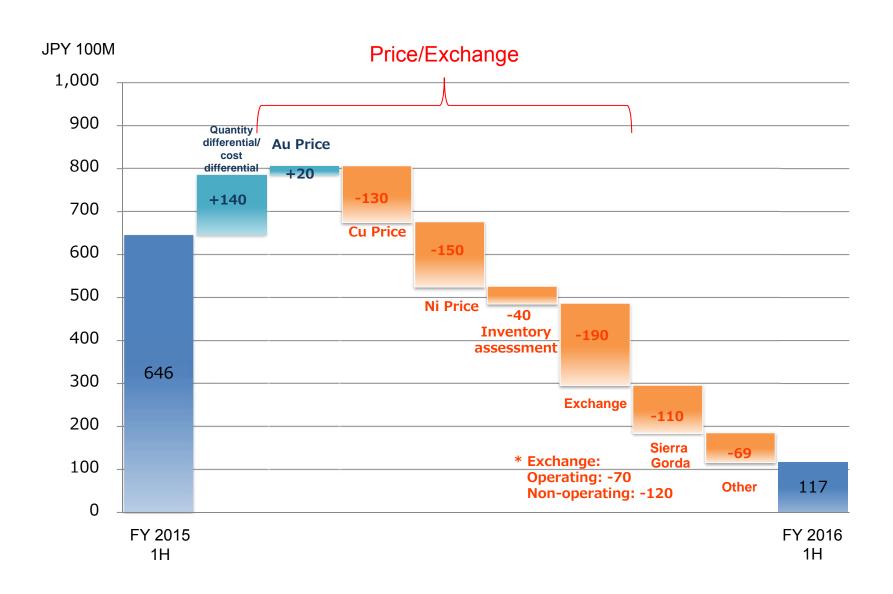
SMM's corporate governance structure Maximizing the corporate value of the Framework with which to SMM Group bring discipline to our Ensuring sound management corporate activities practices Annual General Meeting of Shareholders **Board of Directors** Audit & (Decision-Making and Supervisory Board (Auditing) Supervision) Governance Committee Advise (appointment and compensation of executives, etc.) **Business Execution** (Executive Officer System)

Increase the ratio of Outside Directors on the Board of Directors to 1/3
Strengthen corporate governance

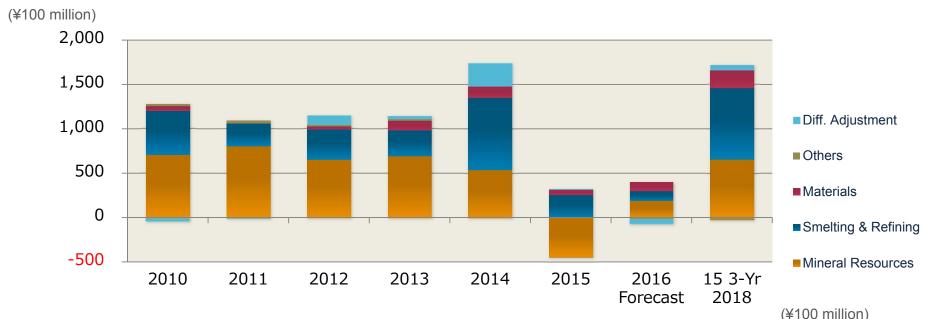
II. Trends in Business Performance



1) Recurring Profit Analysis FY2016 1H vs FY2015 1H



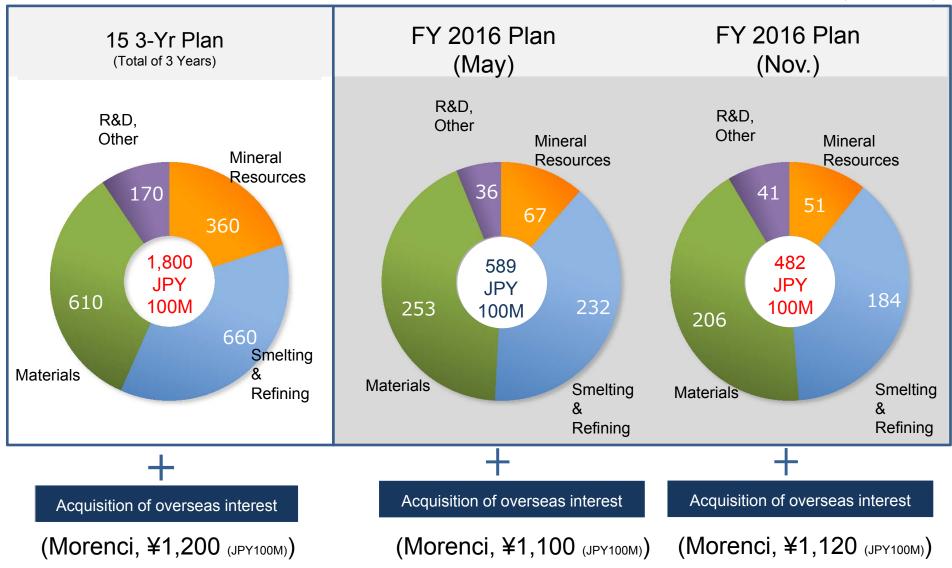
2) Profit Trends by Segment



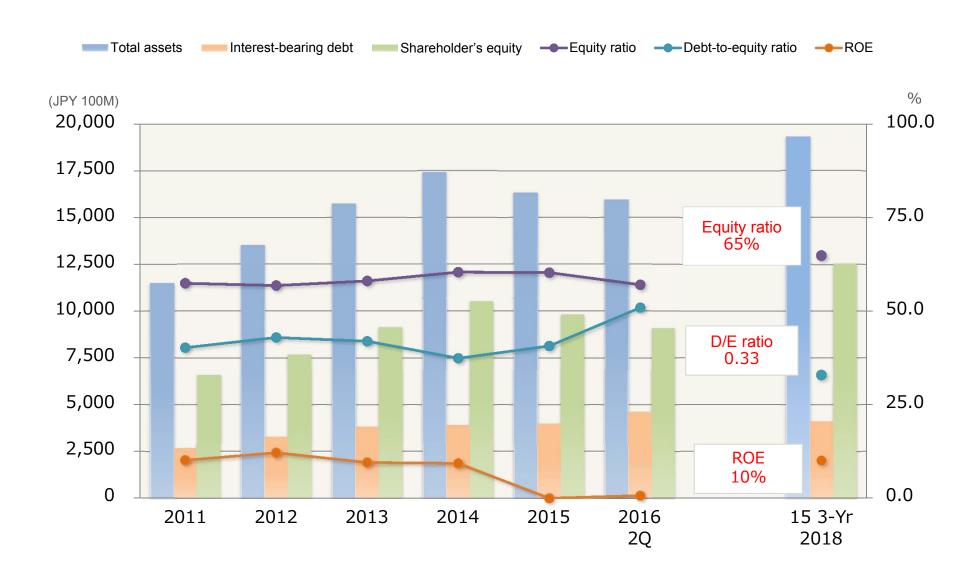
		(+					(+100 		
		2010	2011	2012	2013	2014	2015	2016 Forecast	15 3-Yr 2018
Segment profit	Mineral Resources	704	806	652	691	538	-443	190	660
	Smelting & Refining	495	256	339	291	813	253	110	800
	Materials	54	-3	38	111	129	60	100	200
	Others	23	34	16	16	-1	-8	-10	-20
Adjustment		-39	-5	105	35	263	10	-60	60
Recurring Profit		1,237	1,088	1,150	1,144	1,742	-128	330	1,700

3) Capital Expenditure

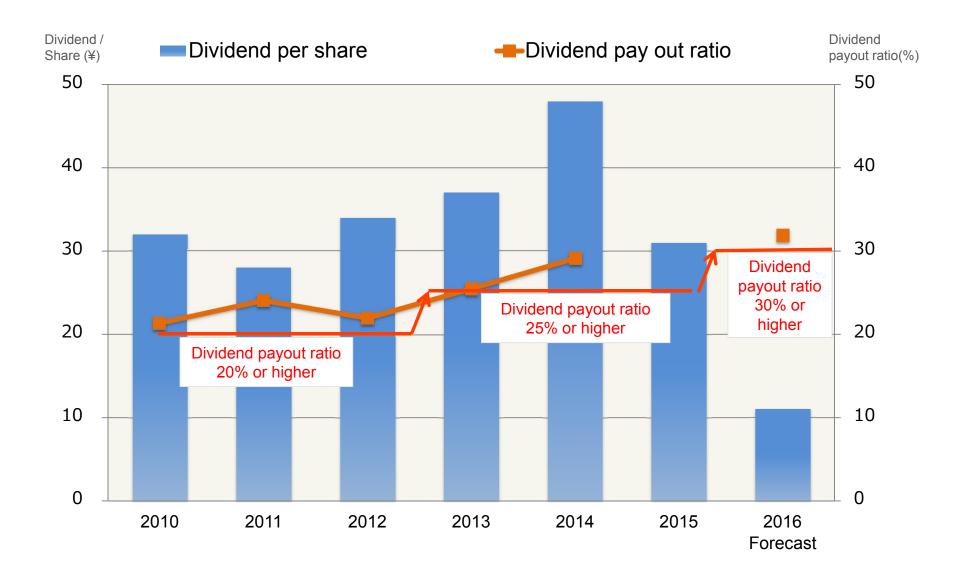
(¥100 million)



4) Financial Strategies Maintenance of a Sound Financial Structure



5) Trend of Dividend



III. Progress and Promotion of the 15 3-Yr Plan Strategy



1) Mineral Resources

(1) Cu: Development Project Completion: Sierra Gorda Mine

Sierra Gorda Mine (Chile)

Equity interest ratio

KGHM 55% SMM 31.5% Sumitomo Corp. 13.5%



Progress in FY 2016

Production volume

FY2015 86 kt → FY2016 92 kt (forecast)

Cost reductions

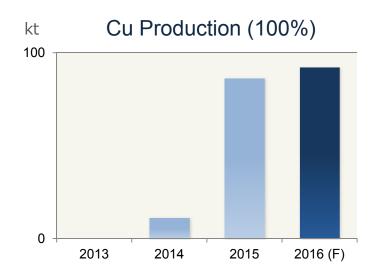
Implement significant cost reductions with subcontracting expense reductions and other measures

Annual target of ¥10.0 billion reduction, move toward costminimum operations

(equivalent to 45% on SMM's equity method basis; projection by SMM)

=> At present, profit/loss is remaining at expected levels

Quickly establish structure aimed at becoming cash-neutral



1) Mineral Resources

(2) Cu : Stable Operation of Existing Mine : Morenci, Cerro Verde

Morenci Mine (Arizona, US)

Equity interest ratio

FCX 72% SMM 25% Sumitomo Corp. 3%



- May 31: Acquisition of additional 13% interest completed
- FY2015 483 kt → FY2016 497 kt (forecast)
 Projected significant cost reductions through expansion effect

Cu Production (100%) 400 200 2013 2014 2015 2016 (F)

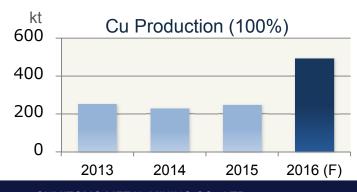
Cerro Verde Mine (Peru)

Equity interest ratio

FCX 53.56% SMM 16.80% Sumitomo Corp. 4.20% Other 25.44%



- Expansion PJ, March 2016: Transition to full-operation structure
- FY2015 247 kt → FY2016 493 kt (forecast)
- Through increased production effect and cost reduction measures, approx. +¥ 6.0 billion profit contribution expected



1) Mineral Resources

(3) Au : Stable Operation of Existing Mine : Hishikari, Pogo

Hishikari Mine (Kagoshima, Japan)

Pogo Gold Mine (Alaska, US)

Equity interest ratio

SMM

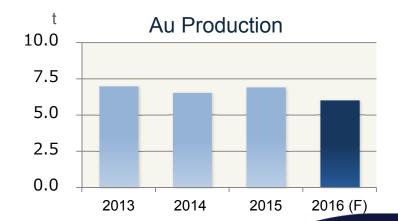
100%

Equity interest ratio

SMM Sumitomo Corp. 85% 15%



- FY 2016: Expected to achieve annual plan (6 t)
- Development of lower ore bodies: Steady progress
- 2015 year-end reserves: 169 t (JIS standard)



- FY 2016: Decrease in production volume due to decline in ore quality and actual yield
- 2015 year-end reserves Reserve 62 t Resource 83 t

(Canadian standards)

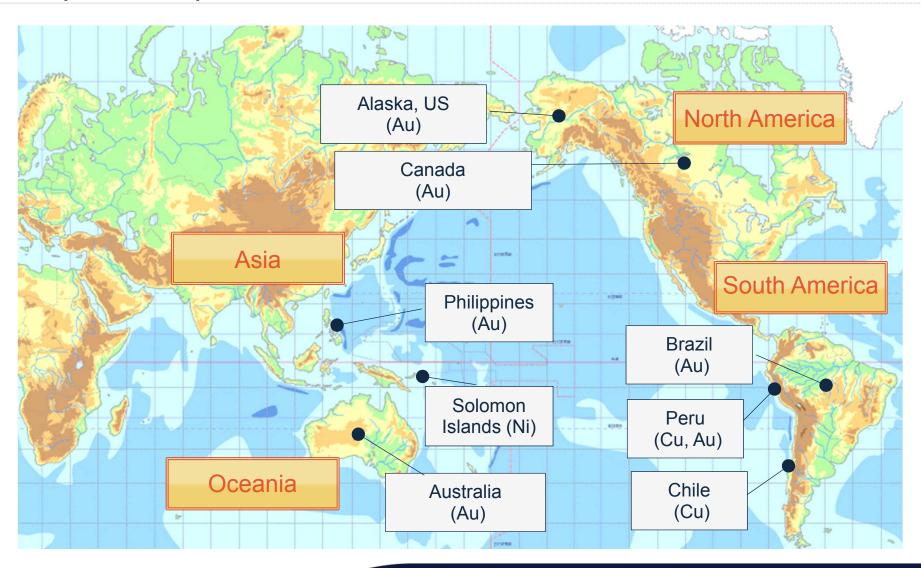


SUMITOMO METAL MINING CO., LTD.

24

1) Mineral Resources (4) Exploration by SMM

Exploration plan Focus on gold projects in FY2016



1) Mineral resources (5) Policy toward acquisition of new interests

Making Au the main target (ongoing)

Strict selection of projects that will contribute to future income

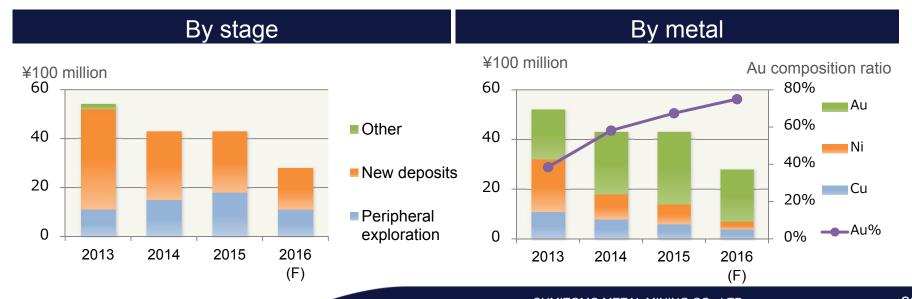
Consideration of not only initial exploration but also PFS/FS-stage projects

Active approaches to project owners and data acquisition/analysis

Strengthening of collaboration with majors & JV partners

Consideration of not only JV participation but also M&A

Exploration costs



(1) Strengthening Competitiveness in Copper Smelting (1)

Toyo Smelter & Refinery production plan

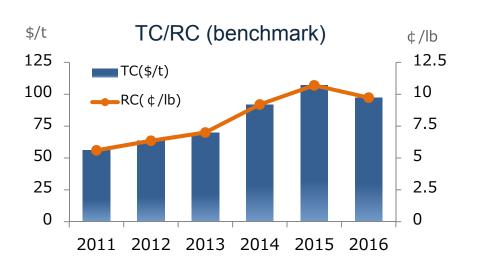
Benefit from TC/RC increase through full and stable production under 450 kt structure

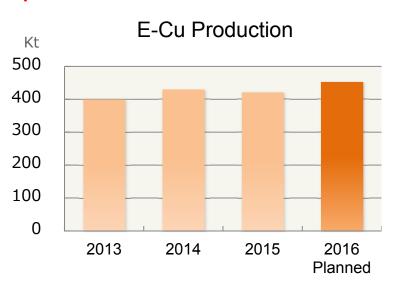


Production volume

FY 2016 plan: 445 kt

FY 2016 forecast: 451 kt; Expected to achieve record production volume





(1) Strengthening Competitiveness in Copper Smelting (2)

Toyo Smelter & Refinery

Strengtheningcost competitiveness

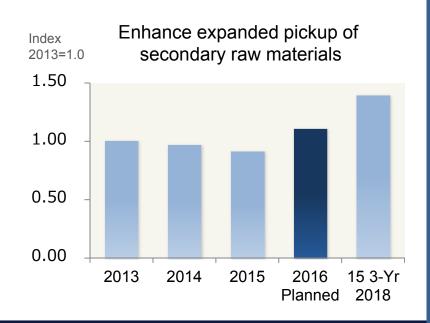
Further improve operational technology Strengthen impurity-handling capability Enhance secondary raw material pickup



Current
collecting
shipments of
secondary raw
materials are
strong

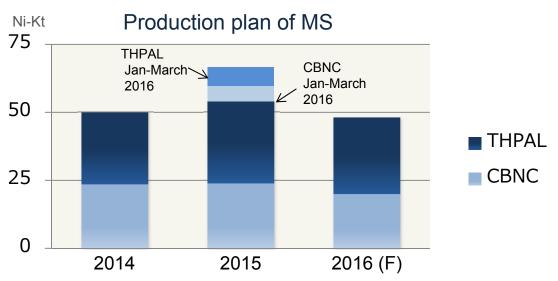
of profitable raw
materials and cut
costs to further
improve profitability
as world-leading
Copper Smelter





(2) THPAL/CBNC 60 kt HPAL structure

CBNC/THPAL stable operation



Production volume

FY 2016: CBNC 24 kt (planned) →20 kt (forecast)

THPAL 26 kt (planned) →28 kt (forecast)

Currently, the declining trend in grade of nickel in ore is continuing, but we will work to raise grade





(3) Ferro-nickel Optimal Production Structure

Hyuga Smelting Co., Ltd. Ferro-nickel production plan

Considerable increase in ore prices due to enforcement of Indonesian new Mining Law Increase of ore processing volume due to declining in ore grade

From FY2015 4Q:

Transition to 2-kiln, 1-electric furnace operation

Change production volume to cost-minimum level Secure profits through stable operations technology

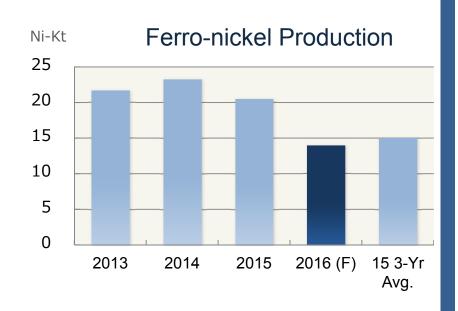
Production volume

FY2015: 20 kt

FY2016: 14 kt (planned) →14 kt (forecast)

Production according to plan is expected this fiscal year





(4) Strategic issues in the 15 3-yr business plan

Scandium

Production of intermediate products from HPAL process at Taganito

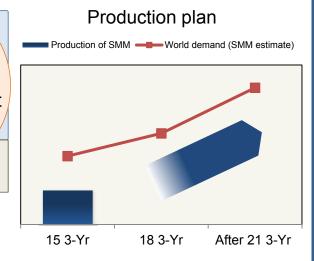
Production of finished product (scandium oxide) at Harima Refinery

2018: Start of commercial production scheduled 7.5 t / year

Current world demand is 10–15 t/year (scandium oxide equivalent)

Conclusion of long-term sales agreements with U.S. major companies

¥4 billion investment



Pomalaa Project (Indonesia)



PT Vale Indonesia holds mining rights
Implement F/S on possibility of refinery construction

2015 — Investigation of plant location

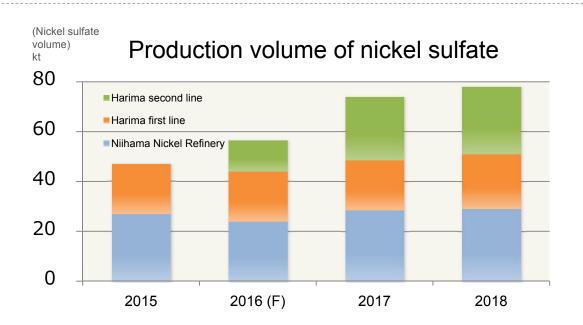
2016 — Preliminary survey underway for F/S

2017 — Scheduled to begin F/S aimed at investment decisions

Project start date and investment amount are undecided

(5) Expand the Ni Sulfate capacity

Harima Refinery – Increasing production of nickel sulfate





2016

Harima second line: Expansion operations

Completed in 1H; full operation planned from 2H

Ni sulfate production volume: 34 kt (forecast)

[in addition, 24 kt at Niihama Nickel Refinery (forecast)]

2017

Invest towards achieving 49 kt/year structure at Harima

Lithium nickel oxide (NCA)
Established front-end
process

2018

Establishment of 49 kt/year structure at Harima

(Nickel sulfate volume)

3) Materials (1) Battery Materials Business (1)

Overall environmental changes concerning battery materials

Rapid expansion of eco-car market and growing usage of nickel cathode materials Change occurred in vertically integrated structure of automobile and battery manufacturers Importance of stable supply in light of growing cobalt usage

Strengthening of environmental regulations

EU CO₂ regulations → Growth of PHEVs is expected
California Zero Emission Vehicle regulations
Strengthening of other countries' environmental regulations



Rapid increase in use of batteries in automobiles

SMM Battery Materials (cathode material) Usage

- Nickel Hydroxide:
 Used in the secondary battery for hybrid vehicle
- Ternary Material:
 Used in the lithium-ion battery for new model of hybrid vehicle



(Photo: TOYOTA Motor Cop.)

3) Materials (1) Battery Materials Business (2)

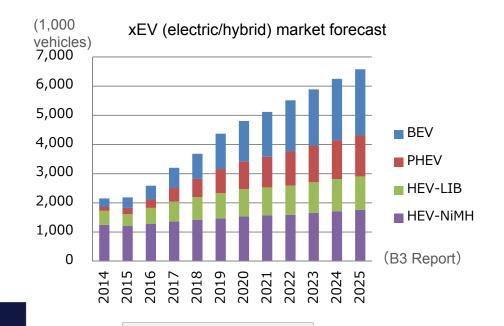
SMM strategy

Our battery materials are adopted in both hybrid vehicles and electric vehicles

SMM strengths

Can supply diverse product types, from products that are very nearly raw materials to high added value products

Respond to customer needs with latest powder technology Stable supply structure for nickel/cobalt



Progress in FY 2016

Customer authorization for 1,850 t/month capacity expansion investment at the Isoura Plant and Sumiko Energy Materials Co., Ltd. Naraha Plant are proceeding according to plan; start of commercial production at both sites



Full operation from 2H

Further expansion of lithium nickel oxide (NCA)

Response to production expansion by Panasonic Corporation Toward 3,550 t/month capacity; decision on additional investment of ¥18.0 billion (Jan 2018: scheduled completion)

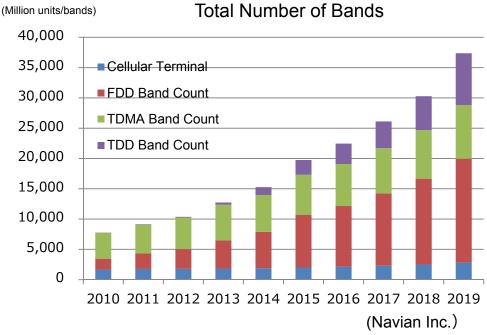
3) Materials (2) Crystal substrate (LT/LN) (1)

Outlook for device market

SAW filters

Increased volume of smartphone communications capacity

→ Increase in usable frequency bands
In line with increase in frequency bands:
Dramatic increase in number of installed SAW filters



Growth in smartphone demand

Slowdown also expected, especially in developed nations
Share expansion in emerging markets by emerging Chinese manufacturers
Slight increase in smartphone units shipped overall



Increase in frequency bands

3) Materials (2) Crystal substrate (LT/LN) (2)

Build an expanded production system for crystal materials

LT/LN crystal substrates for SAW filters

December, 2014

Decision to expand from 120K to 210K substrates/month

March, 2015

Decision to expand from 210K to 300K substrates/month to worldwide top share

Oct., 2016 (present)

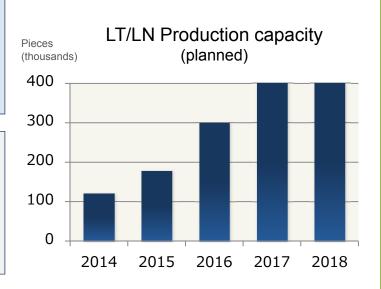
Achievement of 300K substrates/month production capacity in May

Oct., 2016

Sumiko Kunitomi Denshi: Completion of new factory building construction

Sep., 2017: Scheduled completion of 400K substrates/month capacity





4) R&D

Concentration of R&D in fields of growth strategy

Center U THE LUMB **Smelting** and refining process technology

Development of mineral resources and metal process

Materials Development

Resource & Hydrometallurgy Process

Sierra Gorda Copper Mine

technology **Analysis technology**

Organic resin

Computer aided engineering and analysis technology

Cathode materials for Lithium-ion secondary battery

Core technology

Powder synthesis and surface treatment technology

Basic research

Powder Powder synthesis material and surface basic treatment research technology

Exploration,

mining, and

mineral

processing

technology

Nickel powder for MLCCs

Crystal technology

Single-crystal lithium tantalate

Basic Research

Powder material basic research

Core technology

Crystal growth and processing Technology

Core technology

Smelting and refining process technology

Fundamental

technology

Organic resin

technology

Fundamental

technology **Analysis Technology**

Fundamental

technology Computer aided

engineering and

analysis technology

Core technology

Exploration, mining, and mineral processing technology

growth and processing

5) Progress in Cost-Cutting

Cost-Cutting Measures in 15 3-Yr Business Plan

Cost cutting: Achievement of ¥10 billion/year

Aim for further ¥10 billion/year in cuts, based on FY 2015

- √ Improvement of productivity
- ✓ Switch to low-priced materials
- ✓ Careful selection of fixed costs

Progress in FY 2016 2Q

2Q performance: ¥8.0 billion or more

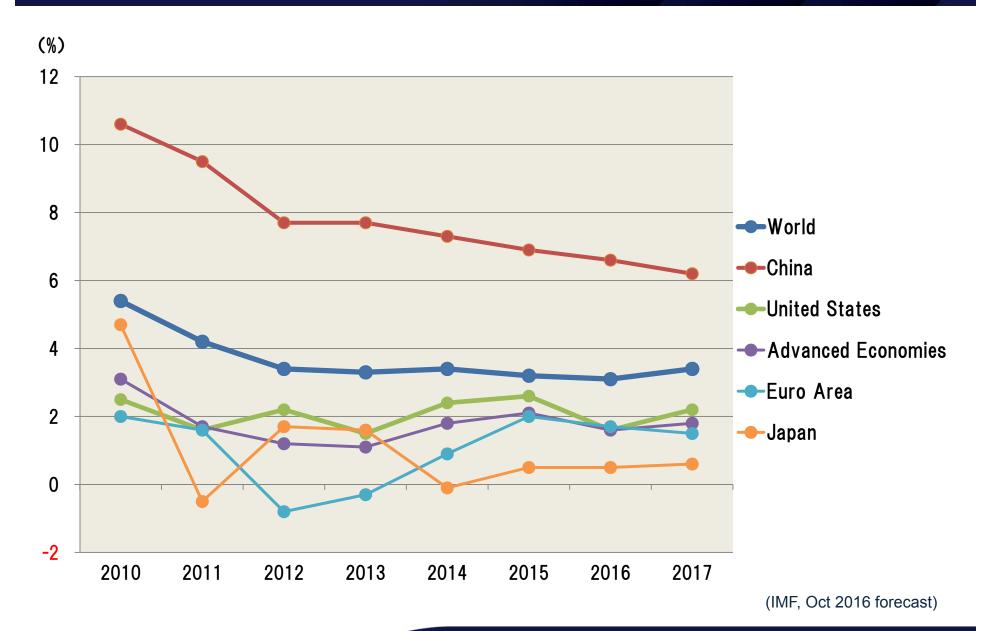
Favorable turn in materials prices and transport prices

Continuation of cost-cutting initiatives in each department

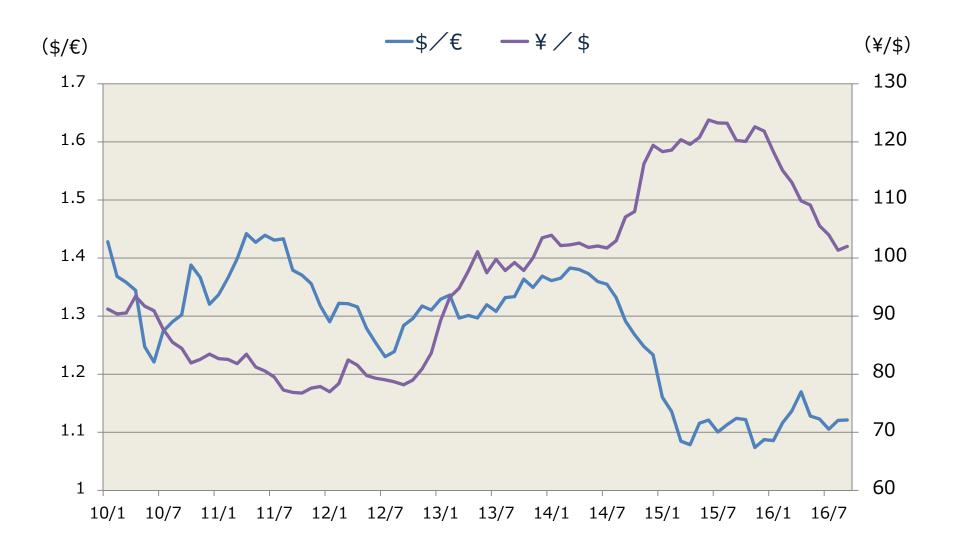
IV. Business Environment

	Addressing Management Issues and Future Markets
I	Trends in Business Performance
Ш	Progress and Promotion of the 15 3-Yr Plan Strategy
IV	Business Environment
V	Financial Highlights and Information Materials

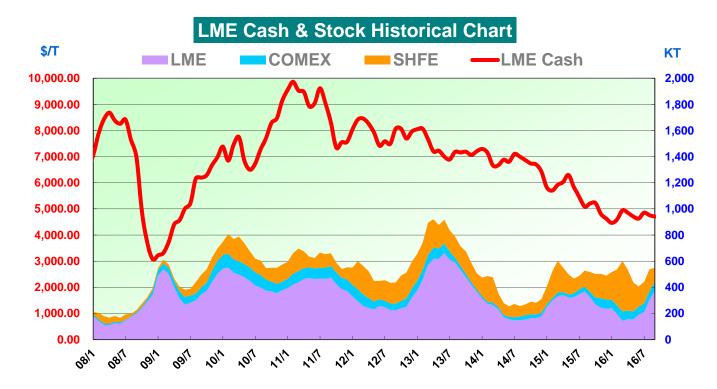
1) Overall Situation: Global GDP growth rates



2) Forex Trends



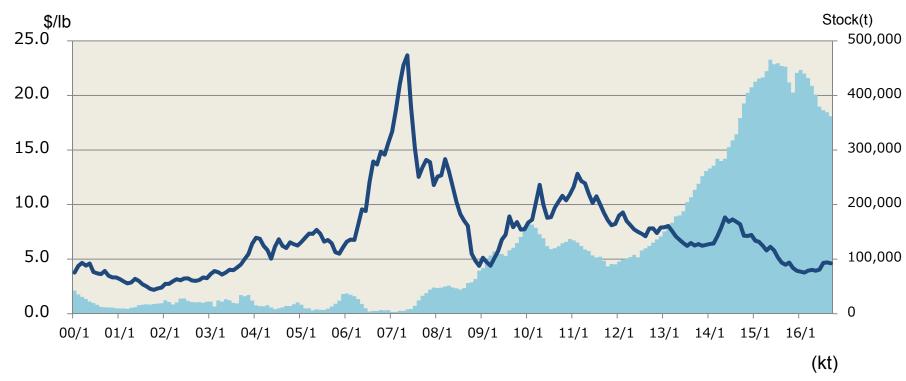
3) Cu – Price / Supply & Demand Balance



[ICSG Estimation Oct. 2016] (kt)

	2015	2016	2017
Production	22,883	23,383	23,791
Usage	23,035	23,391	23,628
Balance	-152	-8	163

4) Ni – Price / Supply & Demand Balance



	INSG	Estimation 20	016/10	SMM Estimation 2016/10			
	2015	2016	2017	2015	2016	2017	
Production	1,973	1,934	2,047	1,967	1,922	2,005	
Usage	1,881	2,001	2,113	1,893	1,985	2,059	
Balance	92	-67	-66	+74	-63	-54	

5) Au - Price



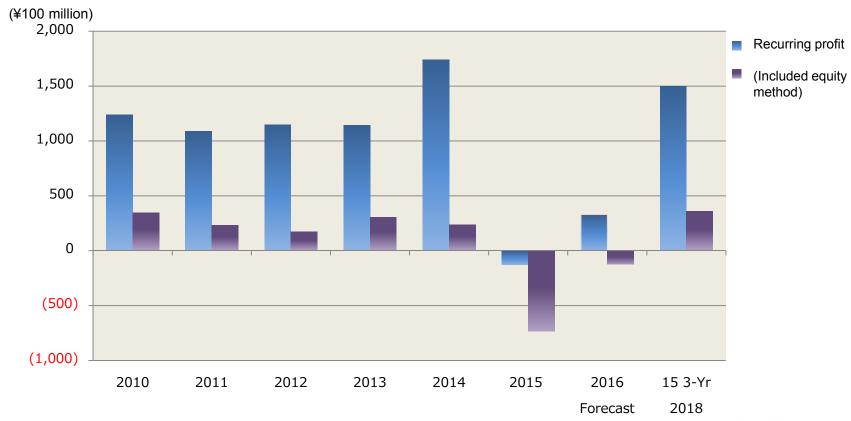
V. Financial Highlights and Information Materials



1) Performance Trends

	2011	2012	2013	2014	2015	2016 Forecast	15 3-Yr 2018 Estimate
Net Sales	8,479	8,085	8,305	9,213	8,554	7,140	10,600
Operating Income	886	958	754	1,258	597	480	1,400
Recurring Profit	1,088	1,150	1,144	1,742	-128	330	1,700
Equity Method profit	232	171	298	239	-732	-125	270
Net Income (Profit attributable to owners of parent)	653	866	803	911	-3	190	1,200
ROA (%)	5.9	6.9	5.5	5.5	-0.0	-	6
ROE (%)	10.1	12.1	9.5	9.3	-0.0	-	10
Dividend Per Share(¥)	28.0	34.0	37.0	48.0	31.0	11.0	N/A
Copper (\$/t)	8,485	7,855	7,104	6,554	5,215	4,726	6,000
Nickel (\$/lb)	9.6	7.7	6.5	7.6	4.7	4.5	7.0
Gold (\$/Toz)	1,646	1,654	1,327	1,248	1,150	1,273	1,150
Exchange(¥/\$)	79.1	83.1	100.2	109.9	120.2	102.7	120.0

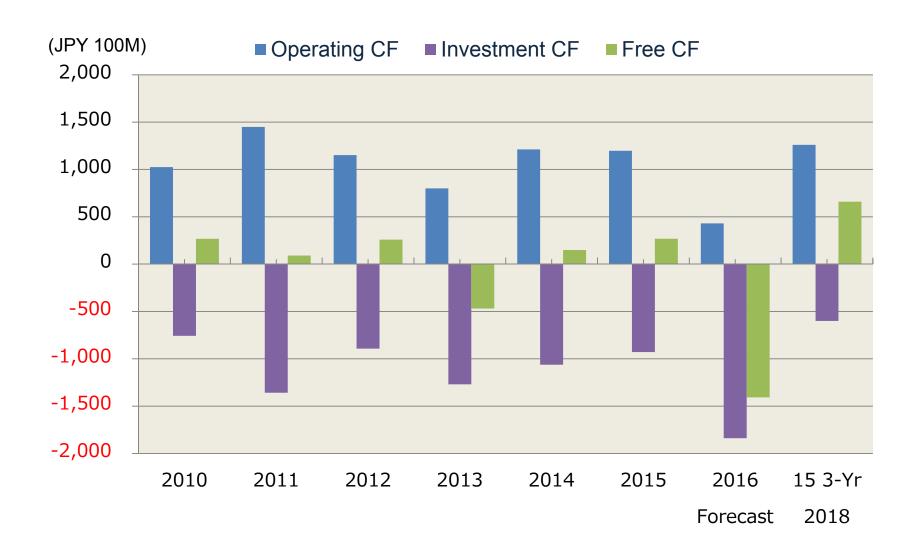
2) Recurring profit and equity method investment profit/loss



(Unit: ¥100 million)

	2010	2011	2012	2013	2014	2015	2016 Forecast	15 3-Yr 2018
Recurring profit	1,238	1,088	1,150	1,144	1,742	-128	330	1,700
(Included equity method investment profit/loss)	348	232	171	298	239	-732	-125	270

3) Cash Flow Trends



4) Sensitivity

JPY100M

Element	Degree of variation	Operating income/ Recurring profit
Cu	±100\$/t	14/28
Ni	±10 ¢ /lb	16/18
Au	±10\$/toz	5/5
JP¥/\$	±¥1/\$	7/5

(Remark) USD/JPY translation include RC-related and Conversion rate of overseas consolidated / equity-method affiliate companies' profit.

Note

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Any projections included in these materials are based solely on information available at the time of this briefing, and are subject to change based on market conditions, competitive conditions, and a number of other factors.

Therefore, we ask that you refrain from making any investment decisions based on these materials alone. The Company cannot be held responsible in any way for any losses that may occur as a result of the use of these materials.

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Sumitomo Metal Mining Co., Ltd.