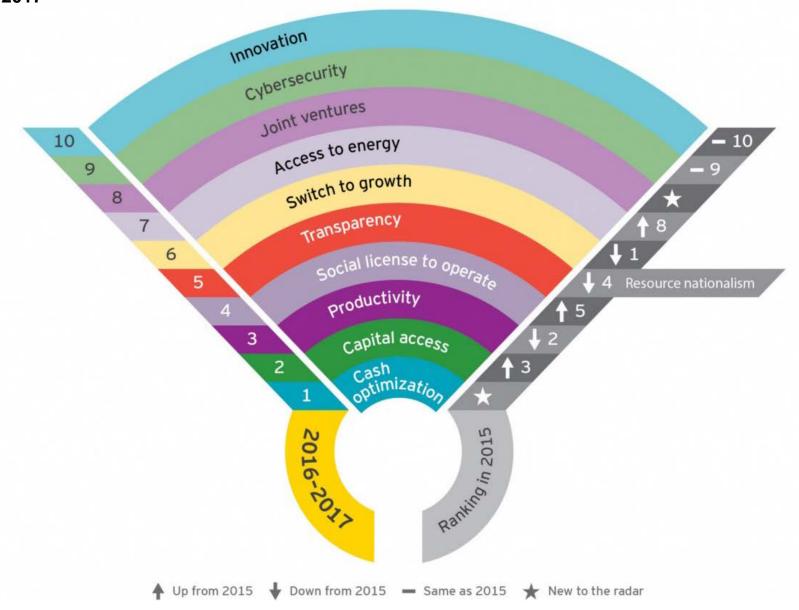


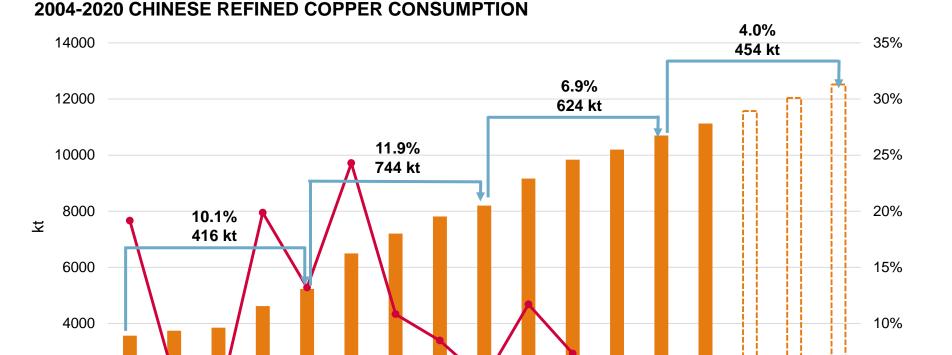


TOP 10 BUSINESS RISKS FACING MINING AND METALS 2016-2017



One Las Bambas is needed every year even if Chinese copper demand grows at a lower rate





2012

2011

2013

Consumption growth rate(RHS)

2014

2015

2016

2018f

Source: Wood Mackenzie Ltd, Q3 2017 and China Minmetals Corporation

2007

2008

2009

2006

Chinese refined copper consumption

2000

0

2004

2005

5%

0%

2020f

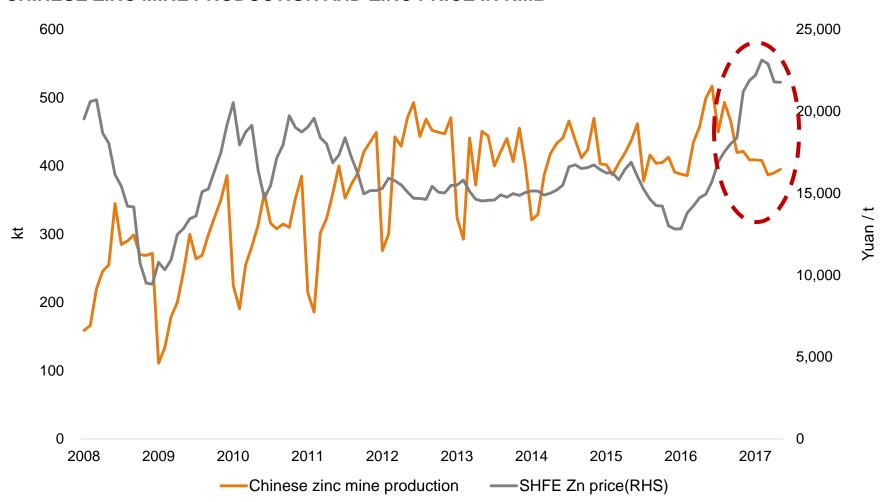
2019f

CAGR Increment/year Minmetals Forecast

Zinc supply constrained by Chinese environmental protection, strategic shift



CHINESE ZINC MINE PRODUCTION AND ZINC PRICE IN RMB

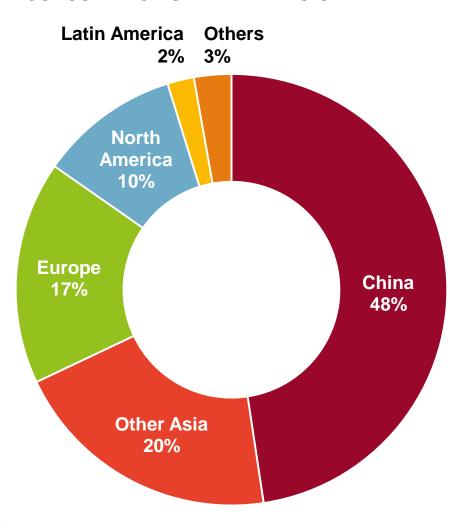


Source: NBS, SHFE

China consumes almost half the world's copper



2016 REFINED COPPER CONSUMPTION SHARE BY REGION



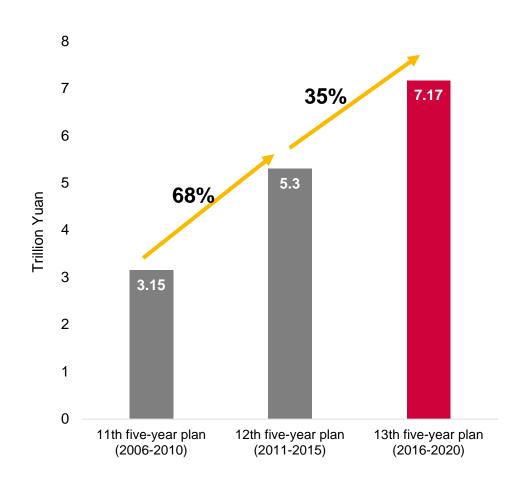
The Chinese power sector is the major driver for copper consumption – with a long way to run



2016 CHINA END-USE COPPER DEMAND

Others 10% Construction 8% **Electronics** 7% **Power Transport** 51% 9% Air conditioning 15%

CHINESE INVESTMENT PLAN IN POWER INDUSTRY



Source: Antaike



Introducing MMG Limited













Las Bambas Mine, Apurimac, Peru











Nueva Fuerabamba Community







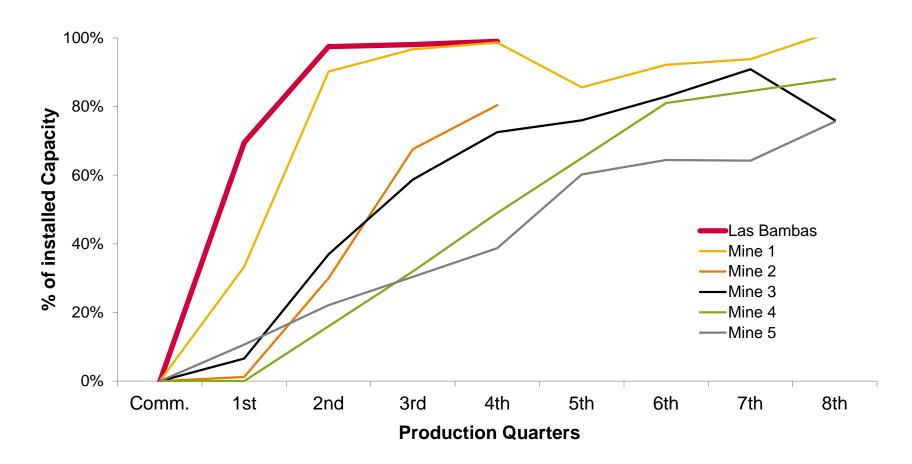




Operational excellence – ramp up benchmark



RAMP UP PROFILES OF SIMILAR¹ GREENFIELD COPPER CONCENTRATORS



¹ Includes recently developed (since 2014) greenfield-type copper concentrator projects, publicly available data

Dugald River Project, Cloncurry, Queensland







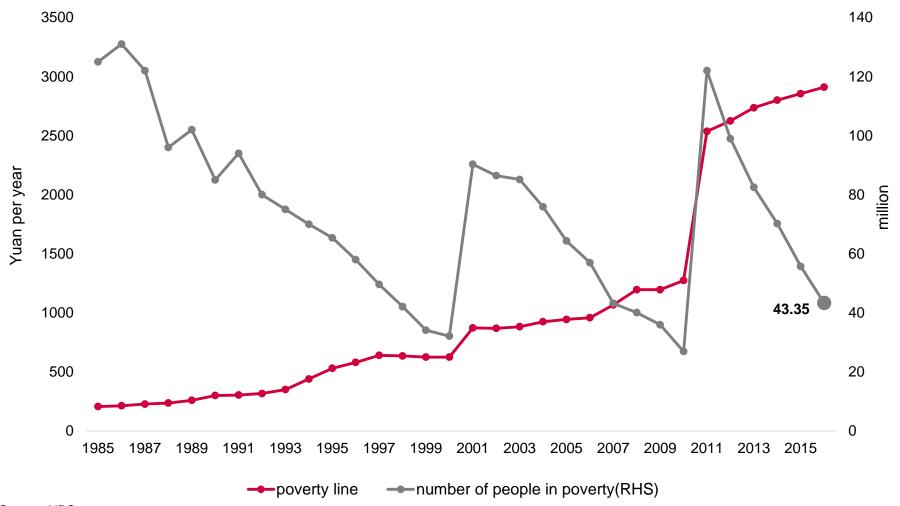




China promises to reduce poverty by 10 million people each year, adding new purchasing power



NUMBER OF PEOPLE IN POVERTY IN CHINA

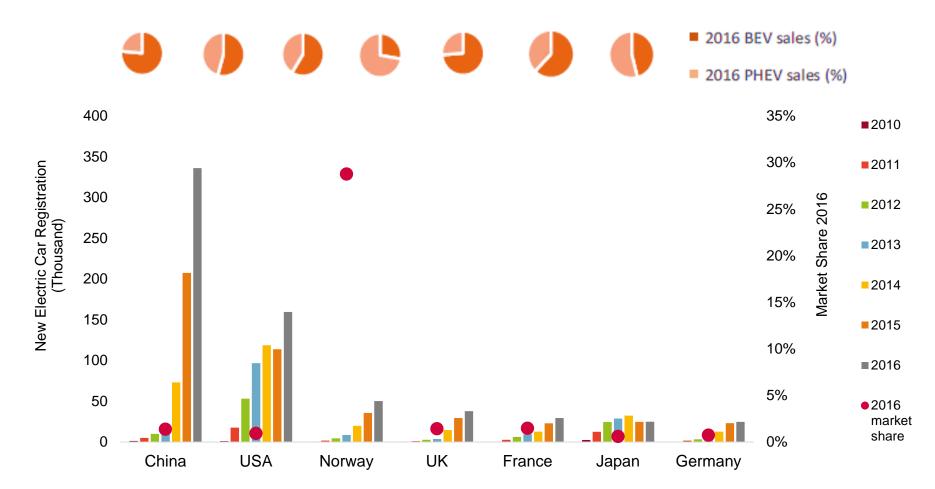


Source: NBS

China has strong ambition on electric vehicles and will lead global EV consumption

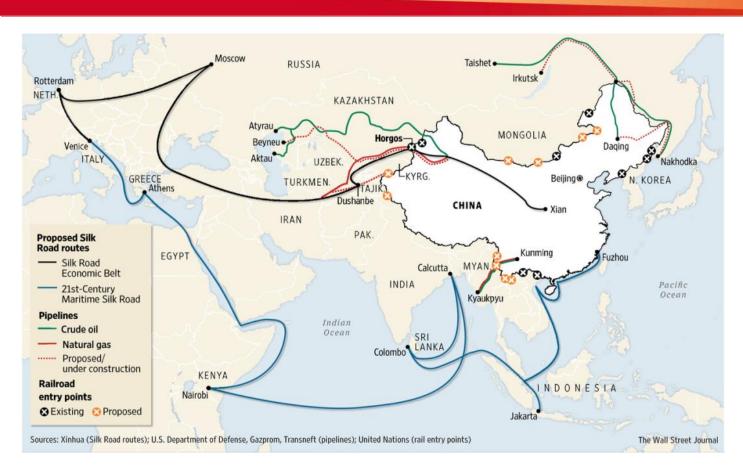


ELECTRIC VEHICLE (EV) SALES, MARKET SHARE, AND BEV AND PHEV SALES SHARES IN SELECTED COUNTRIES, 2010-16



'One belt, one road' initiative







Related countries and regions **65**



4.4 billion

(63% of the world)



Scale of economy

21 trillion

(29% of the world)



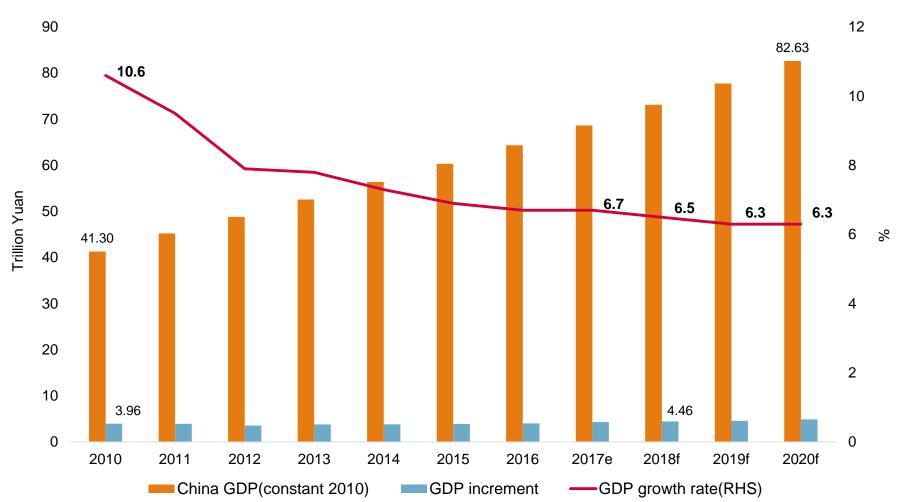




The average GDP growth rate in 2017-2020 needs to be 6.5% to meet the goal of doubling China's GDP from 2010



CHINA'S GDP AND GROWTH RATE



Source: NBS





