

An outstanding business with tremendous growth opportunities



Iron Ore Analyst Site Visit  
Day 2 Monday 29 October - Newman



# Important Notices

## Reliance on third party information

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## No offer of securities

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# Competent Persons

- The information in this presentation that relates to Ore Reserves and Mineral Resources is as at 30 June 2007 and is based on information prepared by the relevant Competent Persons. The Competent Persons agree with the form and context of the Mineral Resources and Ore Reserves presented. The complete tables of Ore Reserves and Mineral Resources as at 30 June 2007 (including the relevant Competent Persons) for Iron Ore are presented in the BHP Billiton Annual Report 2007 on pages 68 and 71, which can be viewed at: <http://bhpbilliton.com>
- Heath Avidson (WAIO) and Mark Pudovskis (Nimba), who are members of the AusIMM, are full time employees of BHP Billiton and have the required qualifications and experience, are Competent Persons for the probabilistic assessment of Potential Mineralisation, which is reported under Section 18 of the JORC code. Heath Avidson and Mark Pudovskis verify that this report is based on and fairly reflects the information in the supporting documentation relating to Potential Mineralisation.

# Visitor Safety Induction – On Site

1. Stay with your escort at all times; especially if an emergency occurs
2. You will be advised when to wear:
  - Reflective vests and safety helmets
  - Safety glasses (fit over prescription glasses)
3. Use handrails when on stairs
4. Keep clear of all machinery
5. We have a no smoking policy inside buildings and vehicles
6. Cameras can be used outside buildings

Enjoy your visit



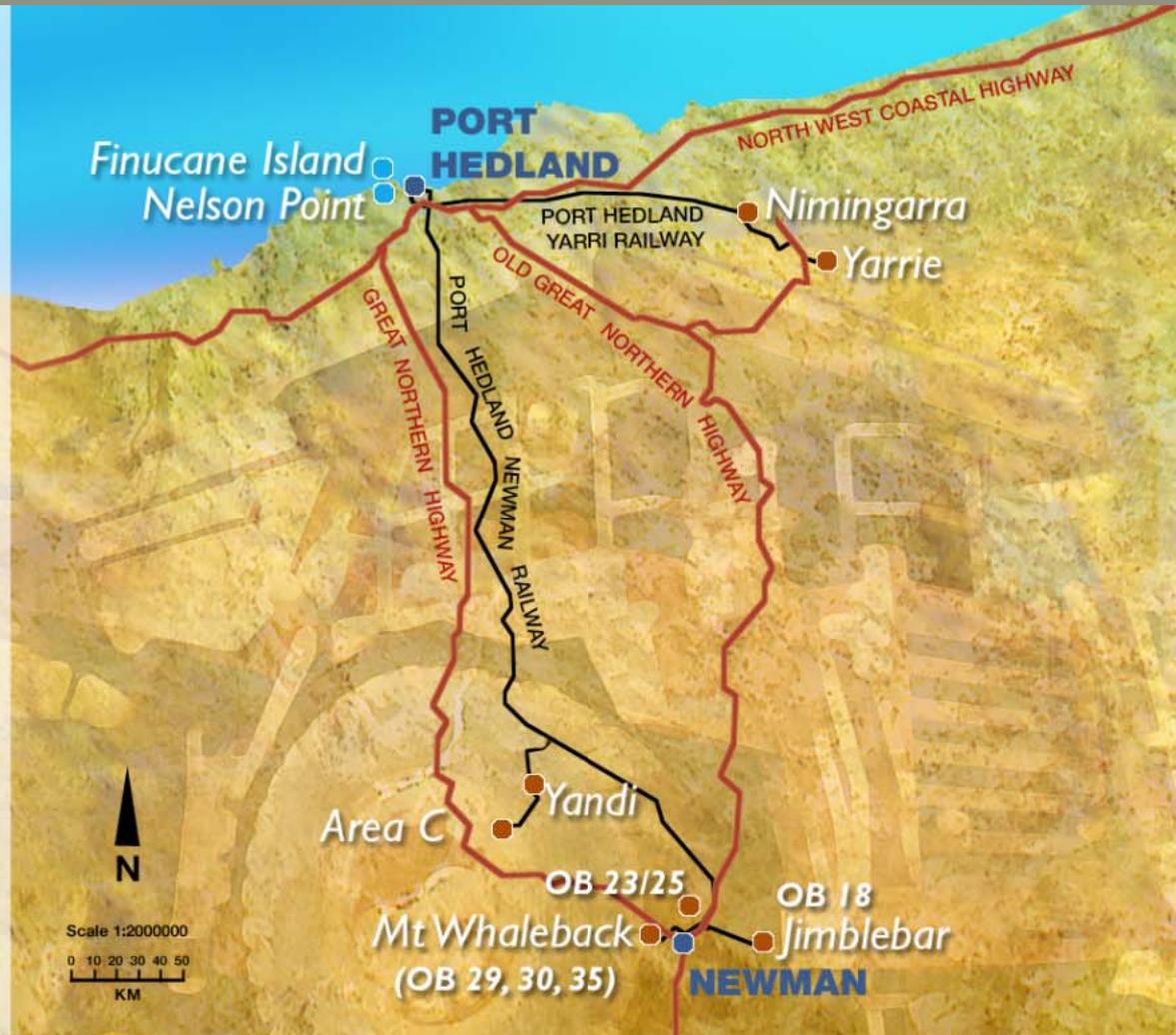
# Maximising safety, productivity and value from our integrated business system (mine, rail and port): **Contract Mines**

Rag Udd, Manager Contract Mines

Image: Construction of a second ore handling plant to expand production of the MAC™ product at Area C in the Pilbara, Western Australia (2007)

# Contract mines overview

- Control and major decision-making by BHP Billiton
- Operated using HWE Mining, Macmahon, and Leightons;
- Five mines producing ~ 89 Mtpa of ore for rail (OFR);
- Total productive movement ~ 154 mt;
- Approximately 2,000 permanent and contract employees
- Workforce almost 100% AWA



# Contract mines highlights

## HSEC

- Ongoing downward trend on Safety indicators

## Operations

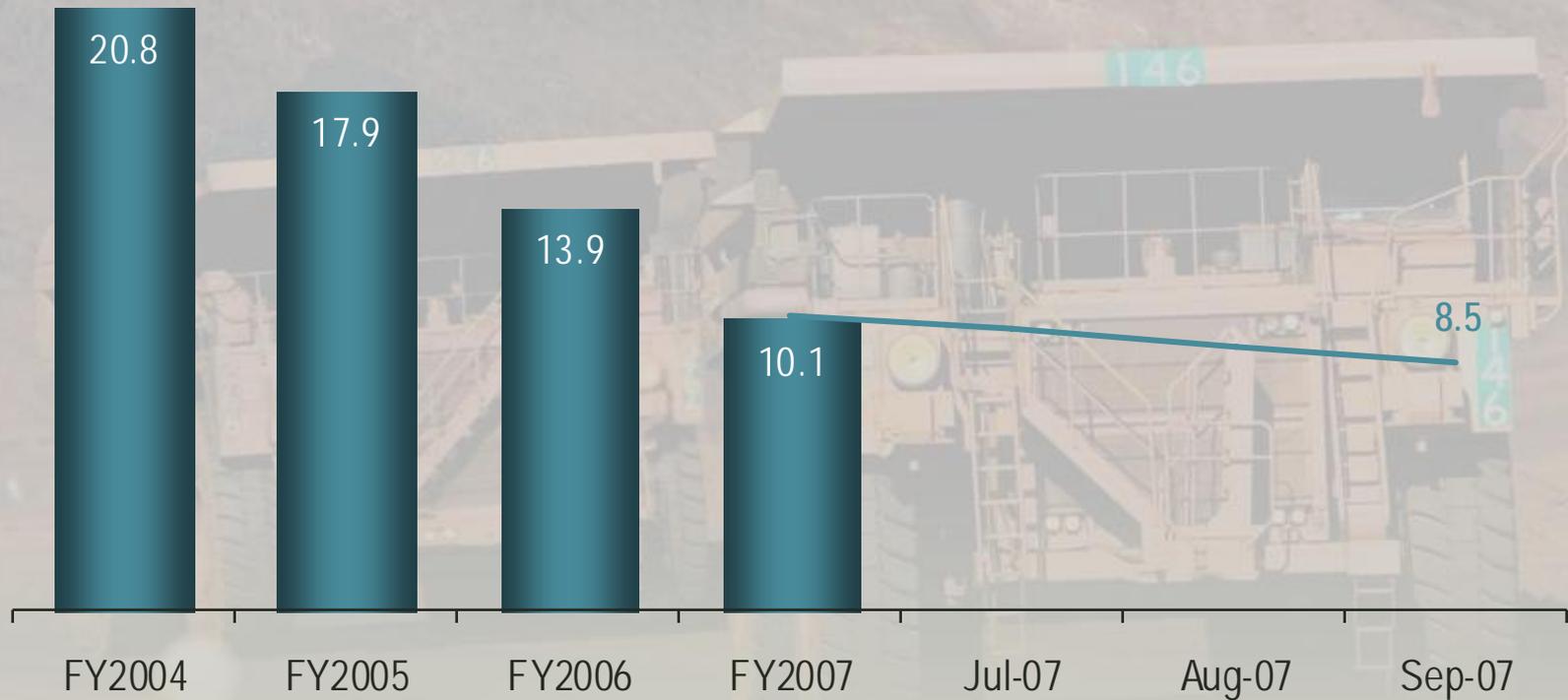
- Strong cost control
- Production increased by 7% in FY2007
- Yarrie mine to be transitioned to Indigenous contract mining through Ngarda in April 2008 with training facilities
- Combined OB18 and Jimblebar to one site resulting in a secure tenure for Macmahon and benefiting BHP Billiton Iron Ore + A\$100M over the 4 yr term

## Growth

- RGP3 in process of ramping up at Area C
- RGP4 started

# TRIFR performance: contract mines

## Contract Mines TRIFR Trend



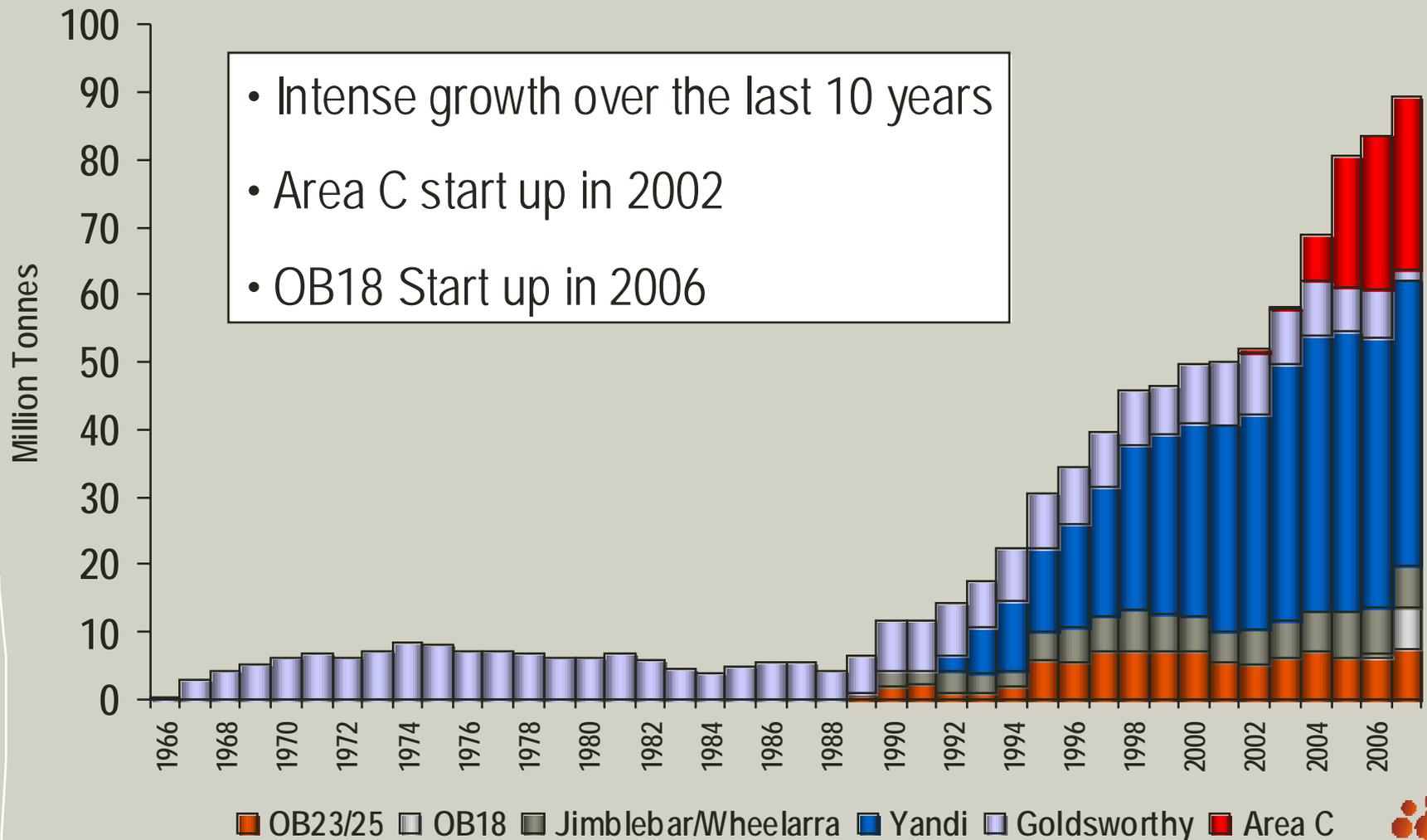
## Contract mines system capability

*Stretching the system at Area C and Yandi while upward capability still exists at a couple of mines...*

Mine	Name Plate Capacity (Mt)	FY2008 Guidance	Comment
<i>Yandi</i>	42	43.1	Operating above nameplate
<i>Area C</i>	23	33.6	RGP3 expansion coming on line (42)
<i>Yarrie</i>	8	0.5	Transitioning and blend
<i>OB23/25</i>	8	8.9	Recently modified plant to increase from 8 to 10 Mtpa
<i>OB18</i>	7.2	7.5	Operating above nameplate
<i>Jimblebar</i>	7.4	5.3	Mine has ability for increased tonnes
<b><i>Total</i></b>	<b>95.6</b>	<b>98.9</b>	

We have been able to take advantage of the flexibility allowed by contract mining to 'scramble' and ramp up quickly

### Contract Mines Production (Ore for Railing)



# Evaluating the commercial terms with our contractors to extract maximum value

*All new contracts are being signed with guarantees on the capability to assure business improvement (BI)*

Mine	Contractor	Term until expiry	Negotiated
<i>Yandi</i>	HWE Mining	2009	Extension under negotiation
<i>Area C</i>	HWE Mining	2010	Under negotiation factored in with Project Transition
<i>Yarrie</i>	Leighton/Ngarda	2008/2013	New 5 yr Indigenous contract
<i>OB23/25</i>	HWE Mining	2008	Under negotiation
<i>OB18</i>	Macmahon	2010 + 2	Combined contract with Jimblebar
<i>Jimblebar</i>	Macmahon	2010 + 2	New deal with BI and cost certainty



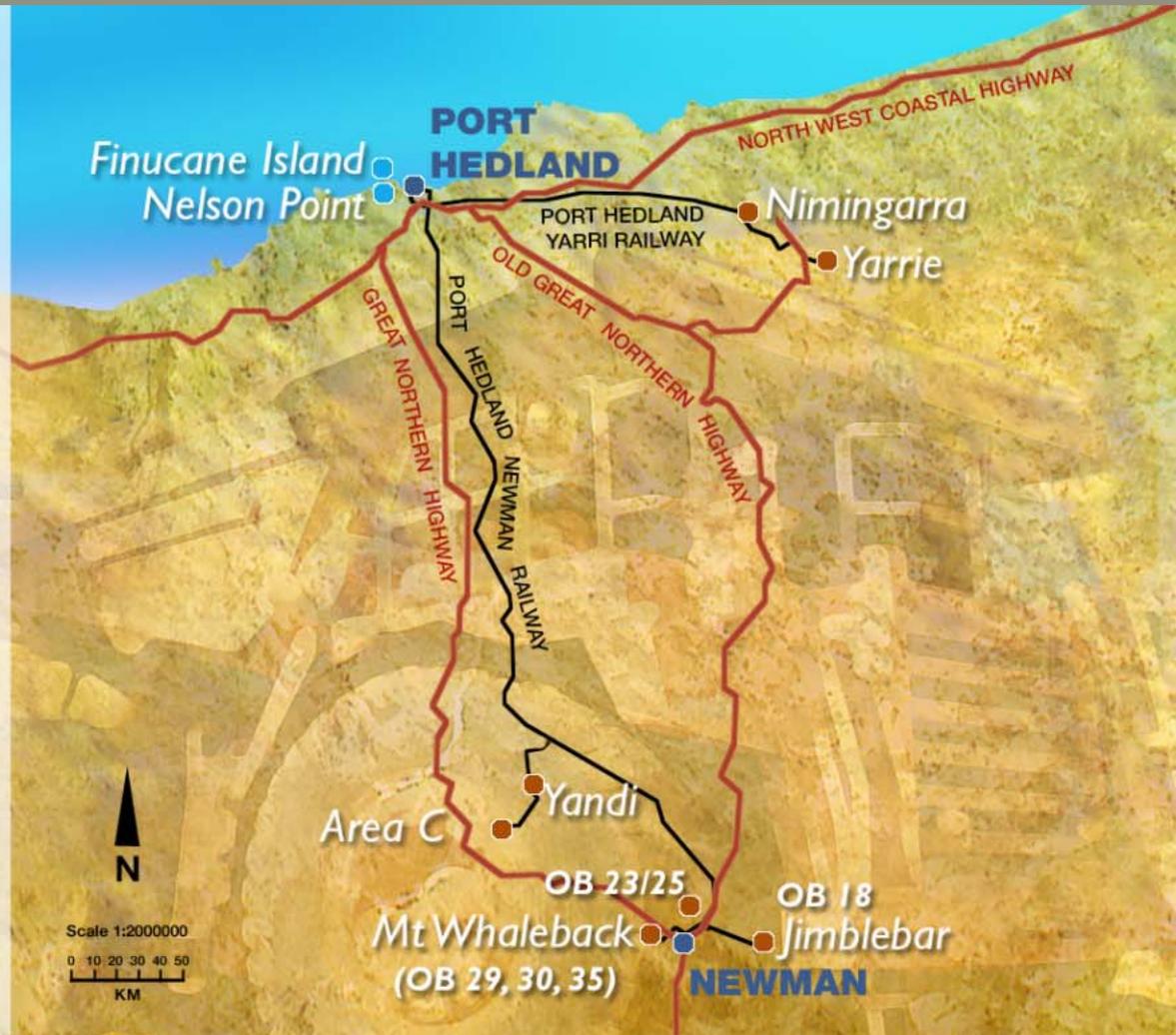
Maximising safety, productivity and value from our  
integrated business system (mine, rail and port)  
**West Australian Mining Operations**

Dean White, Resident Manager Whaleback

Image: Mt Whaleback July 2007

# Whaleback overview

- Whaleback and OB29/30/35 ore bodies
- Source of both Hematite and Goethite
- Commenced 1967 with first ore shipped in 1969
- Remaining life > 20 years
- Largest single pit iron ore mine in the world
- Productive movement 97Mt
- Ore for rail approx 22Mt pa
- 750 employees and 350 contractors



# Newman Joint Venture highlights

## HSEC

- Continuous downward trend on safety indicators
- CEO Award for Most Improved

## Operations

- Successful transition from contractor to owner operator
- Productive movement achieved
- Cost saving attained

## Growth

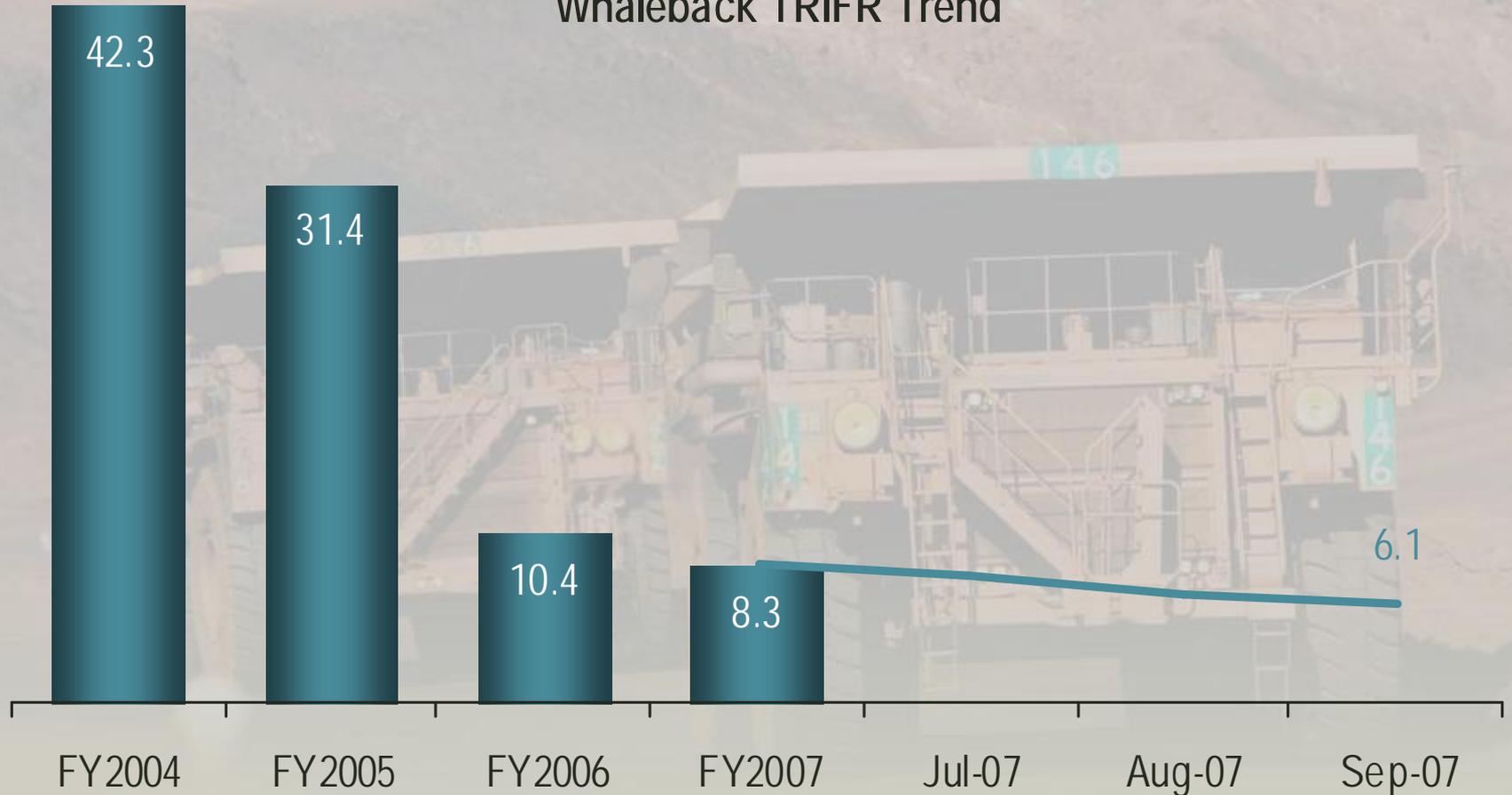
- RGP4 commenced
- Upgrade of load and haul fleet underway

## People

- Low turnover rate
- Developing people
- Housing upgrades

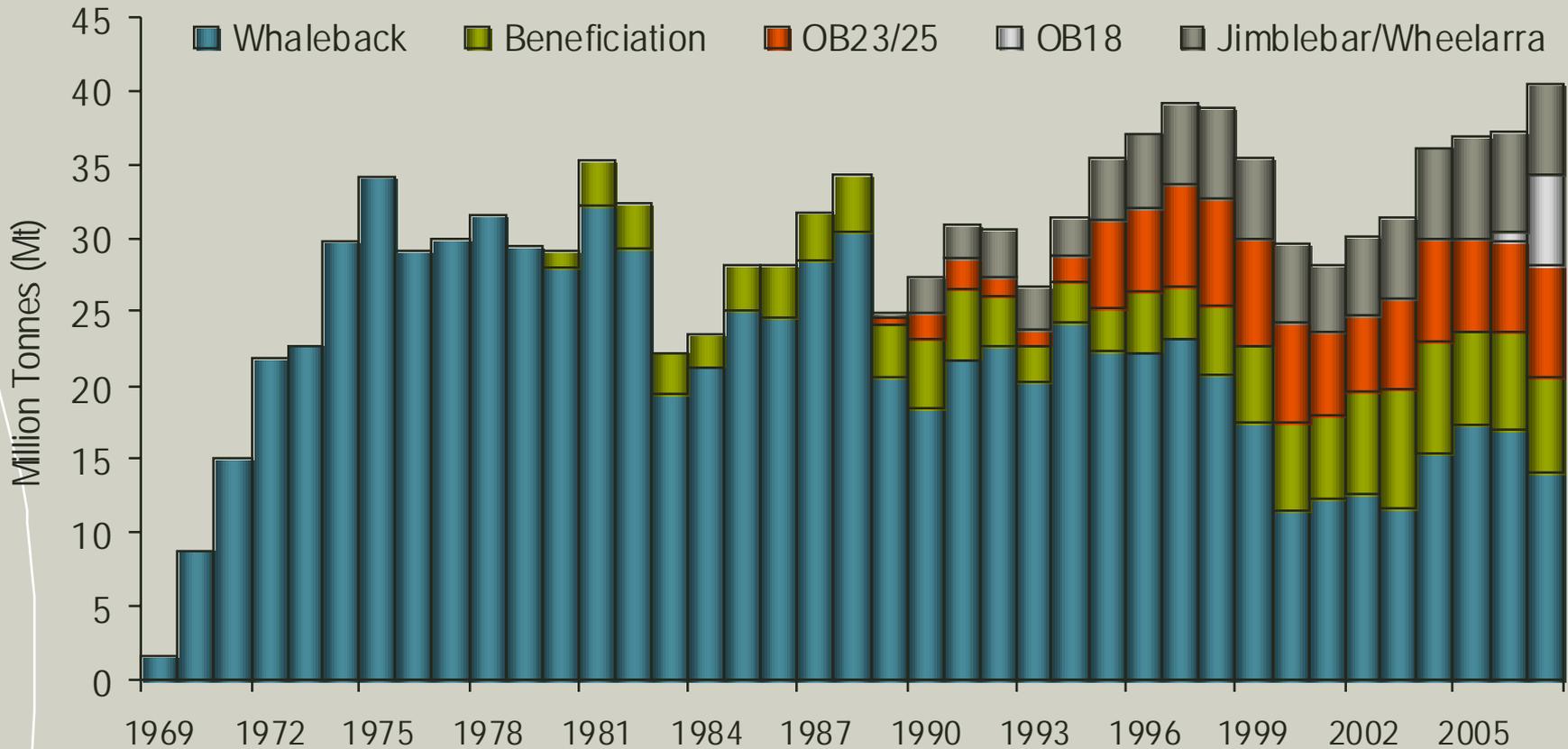
# Strong safety improvements... Focus on continuing downward trend

## Whaleback TRIFR Trend



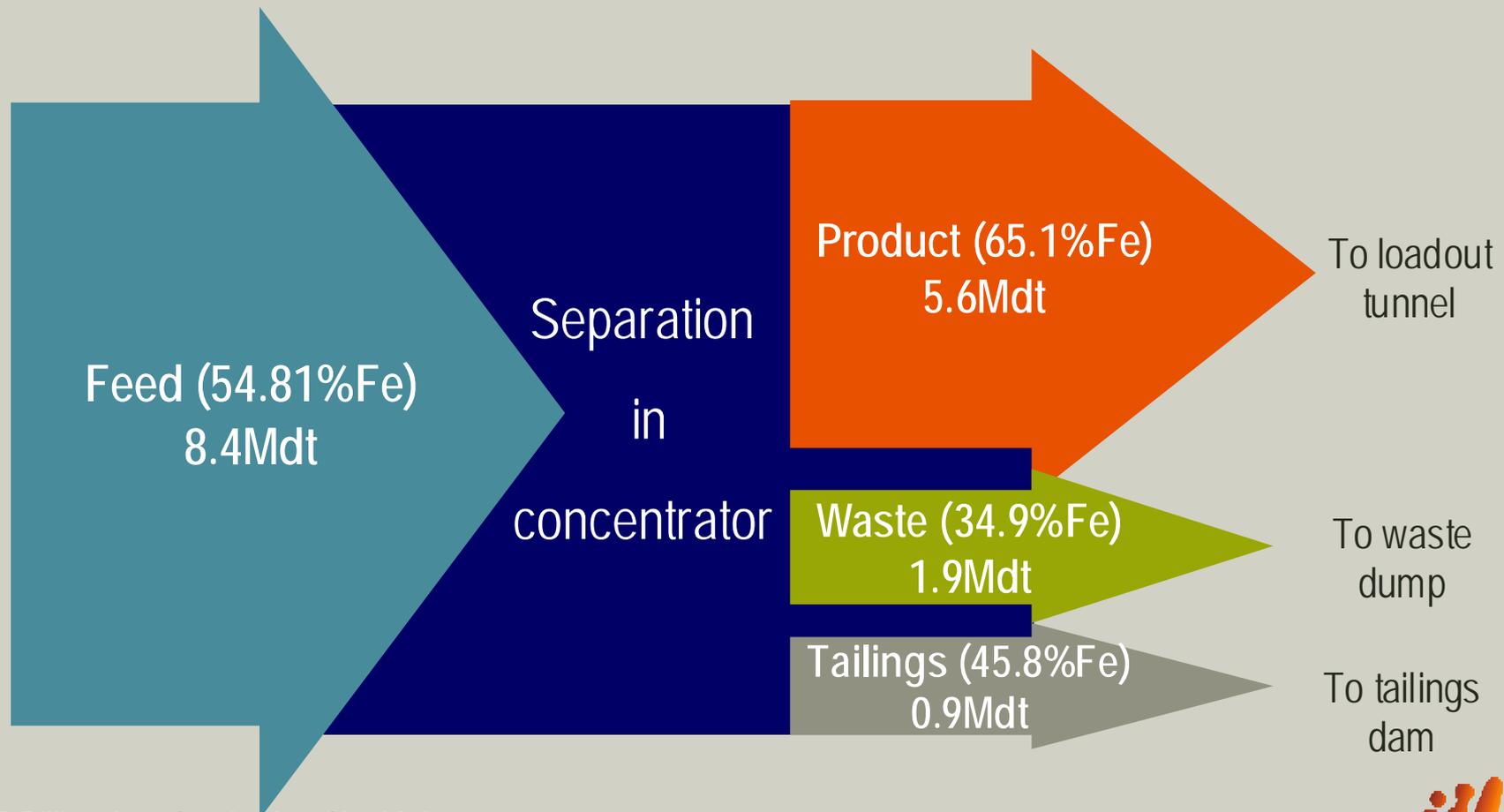
# Optimised mine planning delivers benefits

*Resource maximisation and cost efficiencies by reducing reliance on higher strip ratio Whaleback, increasing use of beneficiation and satellite ore bodies...*



# Beneficiation further increases the power and benefits of blending across Newman JV

*Turns waste into ore; allowing more low grade resource to be used in the blend while maintaining product grade*



# Mining equipment – main production units

## Trucks

13 x CAT 789B 189T  
6 x CAT 789C 189T  
13 x CAT 793B 219T  
26 x CAT 793C 230T  
3 x CAT 793D 230T

## Drills

1 x IR DM-M3 (251mm)  
3 x IR DM-H4 (311mm)

## Shovels

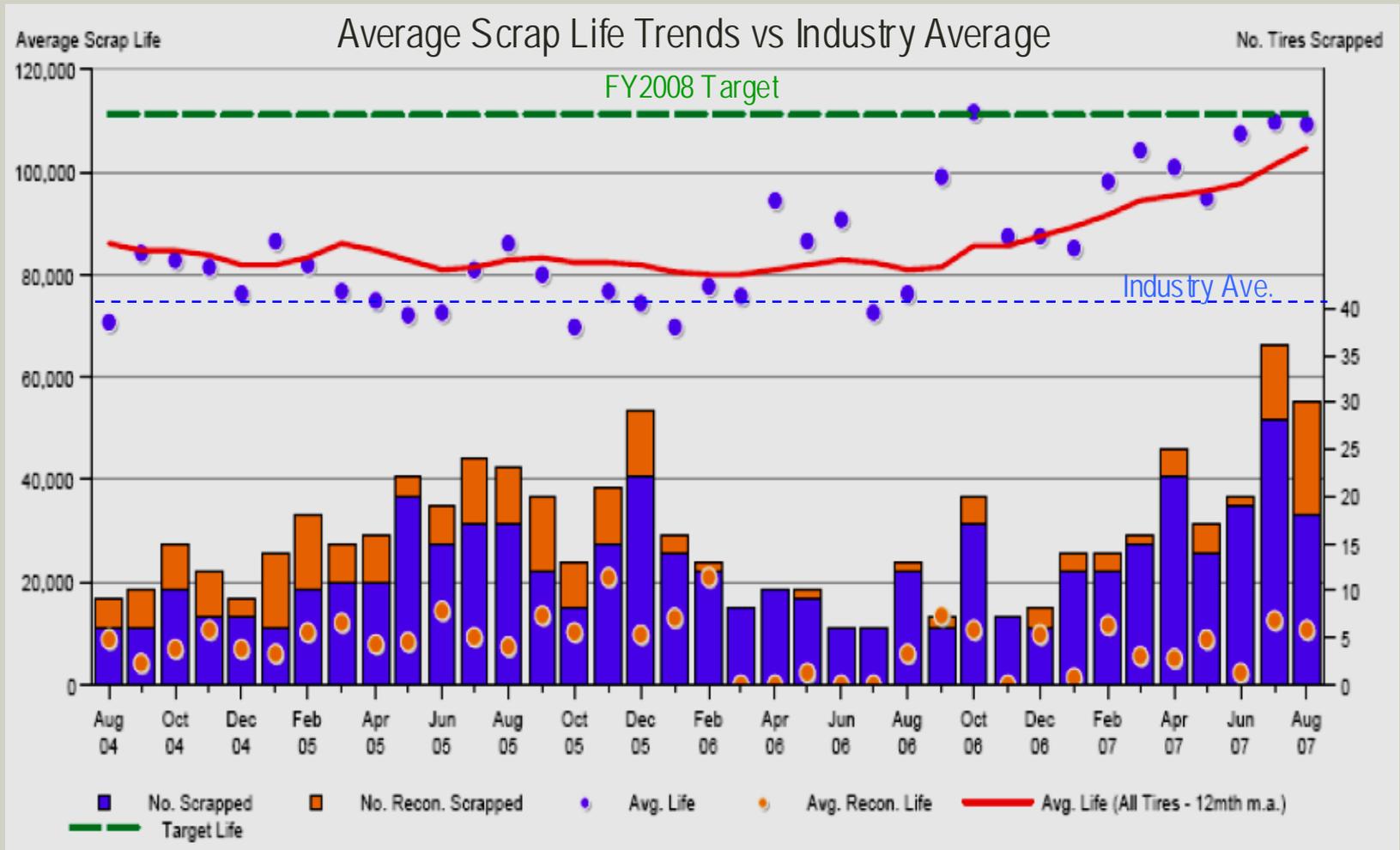
1 x P & H 2800  
2 x R996 Shovel  
1 x R995 Shovel  
2 x O & K RH200

*New equipment*



# Excellent tyre management – CAT 793

## Average scrap life exceeds industry average



# Site innovation – tyre management & collision avoidance

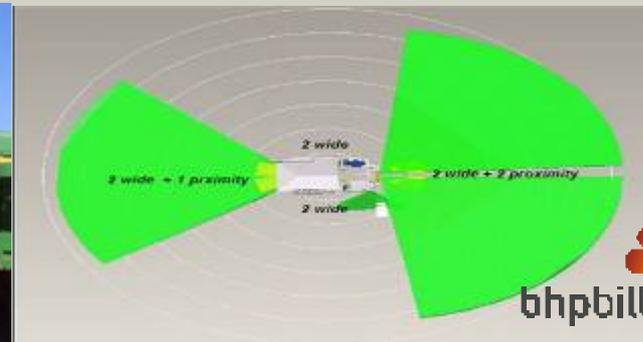
## Tyre Management

- Best in Class across BHP Billiton for Cat789 tyre
- Dedicated road crew & equipment
- Application of VBox for redesigning roads
- Use of road binding agents
- Dedicated use of roller for civil construction standard



## Collision Avoidance

- Major EME R&D projects
- World first trial at Whaleback
- Commercial application within 2 years





Targeted exploration, drilling and evaluation  
to support our growth strategy

**James Shaw, Vice President Technical Services and  
Resource Development**

# Significant mineral inventory in the Pilbara underpins our growth program

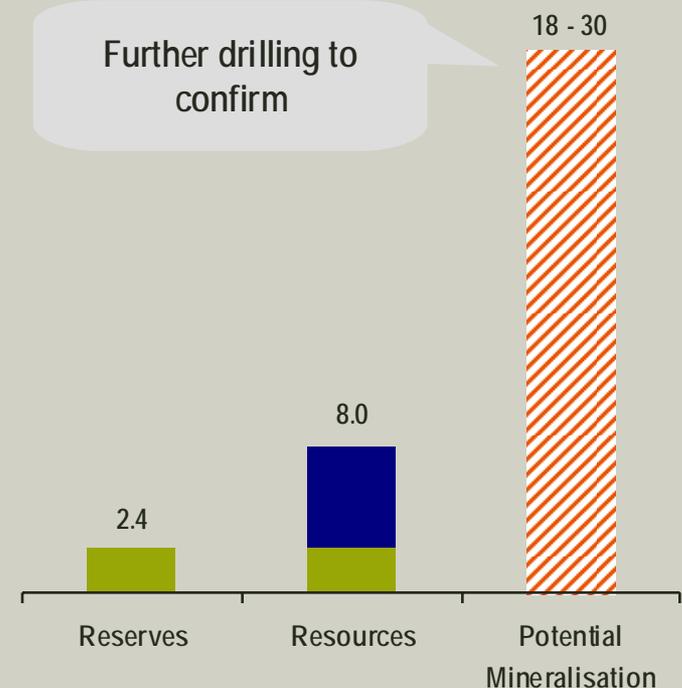
## *8 Bt of Mineral Resource as at 30 June 2007*

- 15% increase in Resource compared to 30<sup>th</sup> June 2006
- Packsaddle Range, Area C
  - 1 Bt Inferred Resource
  - Further 25,000m of drilling planned in YEJ08

*Aggressive prioritised exploration drilling program focussed on optimised mine sequencing.*

*Targeting potential mineralisation between 18 and 30 Bt across BHP Billiton Iron Ore's leases in the Pilbara\*.*

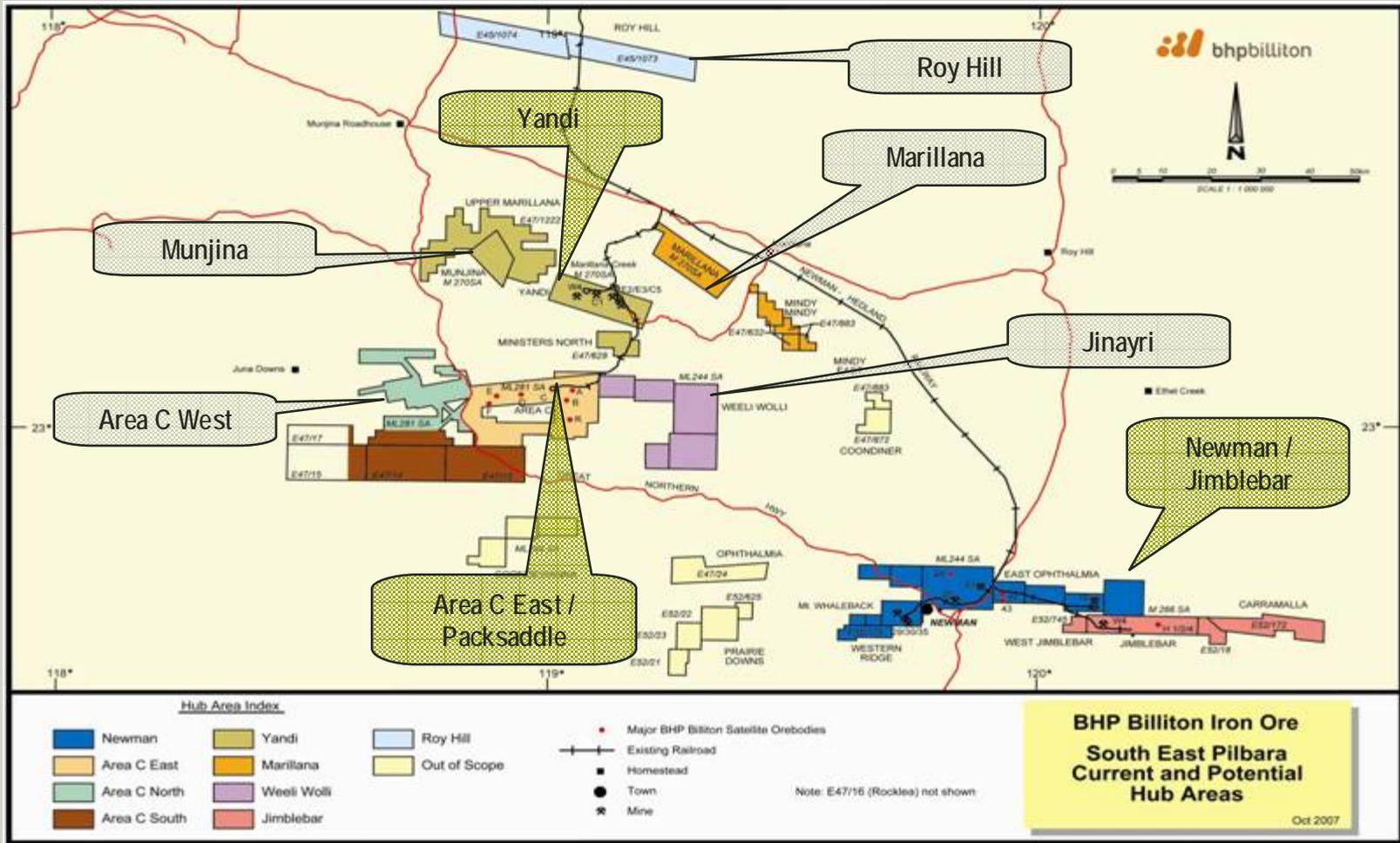
## BHP Billiton Iron Ore Mineral Inventory (Bt)



NOTE: This Mineral Resource and Ore Reserves information should be read together with and subject to the notes set out in the BHP Billiton Annual Report 2007. This document can be viewed at: <http://bhpbilliton.com>. Resource is inclusive of Reserve, Potential Mineralisation is exclusive of Resource and Reserve.

\* The Potential Mineralisation (Exploration Target) is based on probabilistic assessment of areas across the Pilbara using surface mapping, geophysics, known regional geology and some limited drill results acquired over the last 40 years of exploration. The target range is conceptual in nature, there has not been sufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the determination of a Mineral Resource

# Tremendous endowment of world class, low cost potential close to existing infrastructure



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# New programmes and initiatives making processes to obtain Heritage clearance for exploration more effective

- Heritage clearance for exploration is an important challenge
- *Established the Land Access Steering Committee* – cross-functional executives working with traditional owners and representative bodies. The stronger leadership and focussed, coordinated approach to Heritage clearances is already achieving some positive results.
- *Working alongside traditional owners* (contractors and employees) on exploration projects provides intangible benefits as well as commercial outcomes including relationship building, knowledge sharing and access to skills and experience.

## Working with traditional owners

- *Yandi drill pad preparation contract awarded to Carey Bilyulu*
- *Drill capping employees from local Martu people*



Image: Carey Bilyulu awarded drill pad preparation at Yandi

# Using leading technology to provide faster and better information for decision making

- *Falcon<sup>TM</sup>* – an airborne gravity gradiometer that can be used to collect high resolution data about changes in gravitational forces below the Earth's surface allowing detection of potential ore deposits from the air
- *GPS Palmtop computers* – generate detailed, accurate ground maps
- *Optical televiewer* – down hole images for more accurate structural models
- *Vulcan software* – 3D models of physical and chemical properties
- *Blasor<sup>®</sup> software* – optimises mining scenarios in a fraction of the time (1 day v 3 mths)

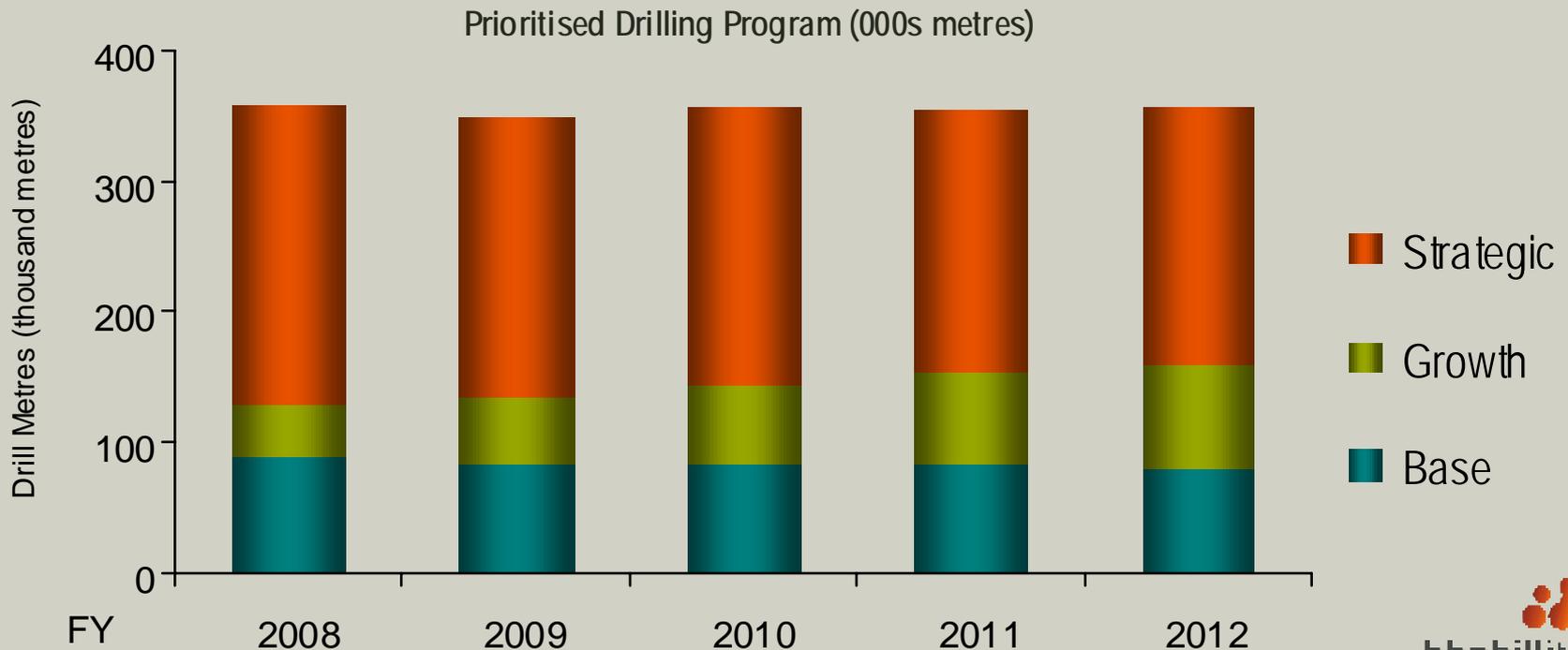


## Benefits

- Explore more options in far less time
- Greater accuracy and substantial cost savings
- Generate numerous options v single plans
- Minimise disturbance and removal of waste
- Better resource utilisation
- Multi-pit blending and scheduling

# Drilling program focussed on evaluation of strategic options

- Pilbara exploration budget of more than US\$350M for FY2008 - FY2012
- Targeting improved understanding of potential new hubs to
  - Optimise the mine sequence
  - Ensure potential new hubs are ready when required
- Program delivers 300 Mt installed capacity by 2015





# Site Tour: Mt Whaleback



Maximising safety, productivity and value from our integrated business system (mine, rail and port):  
**Area C**

Daniel Pop, Manager Area C

# Visitor Safety Induction – On Site

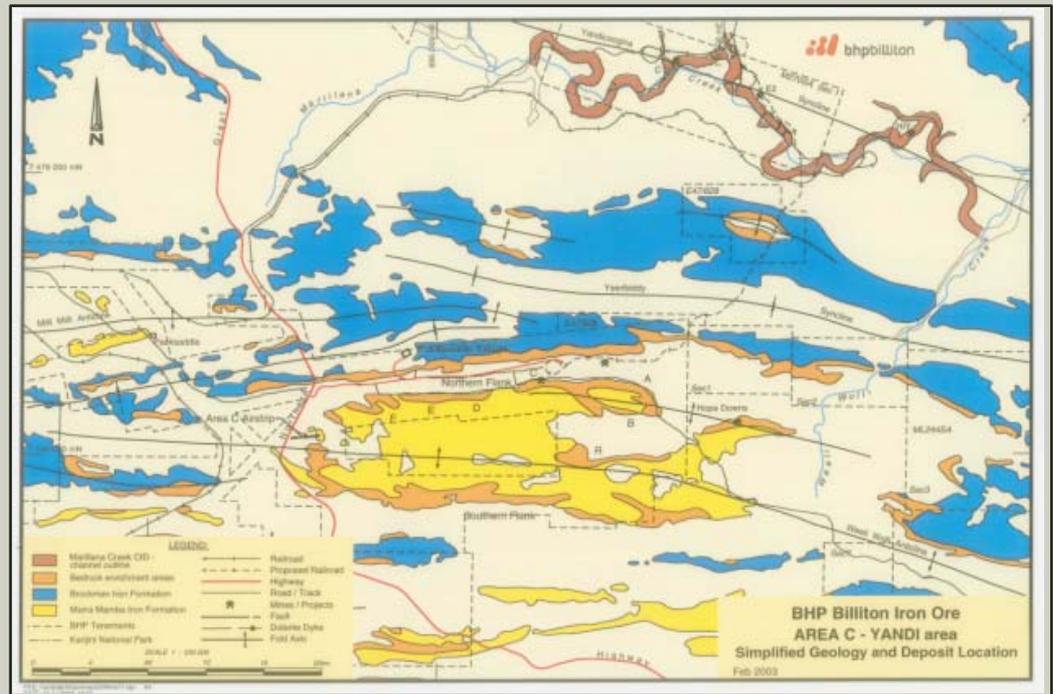
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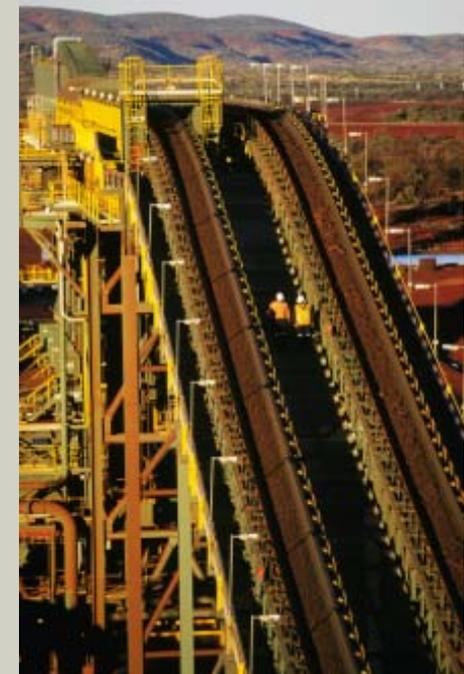
# Regional setting

- Area C is hosted by rocks of the Hamersley Group (2400 – 2600 Mya)
- Region affected by five deformation events, D1 to D5
- The Marra Mamba Iron Formation hosts the major deposits, on the northern fold limb of the Weeli Wolli Anticline (F3)
- D2 and D3 are the significant controls on mineralisation and orebody form at Area C



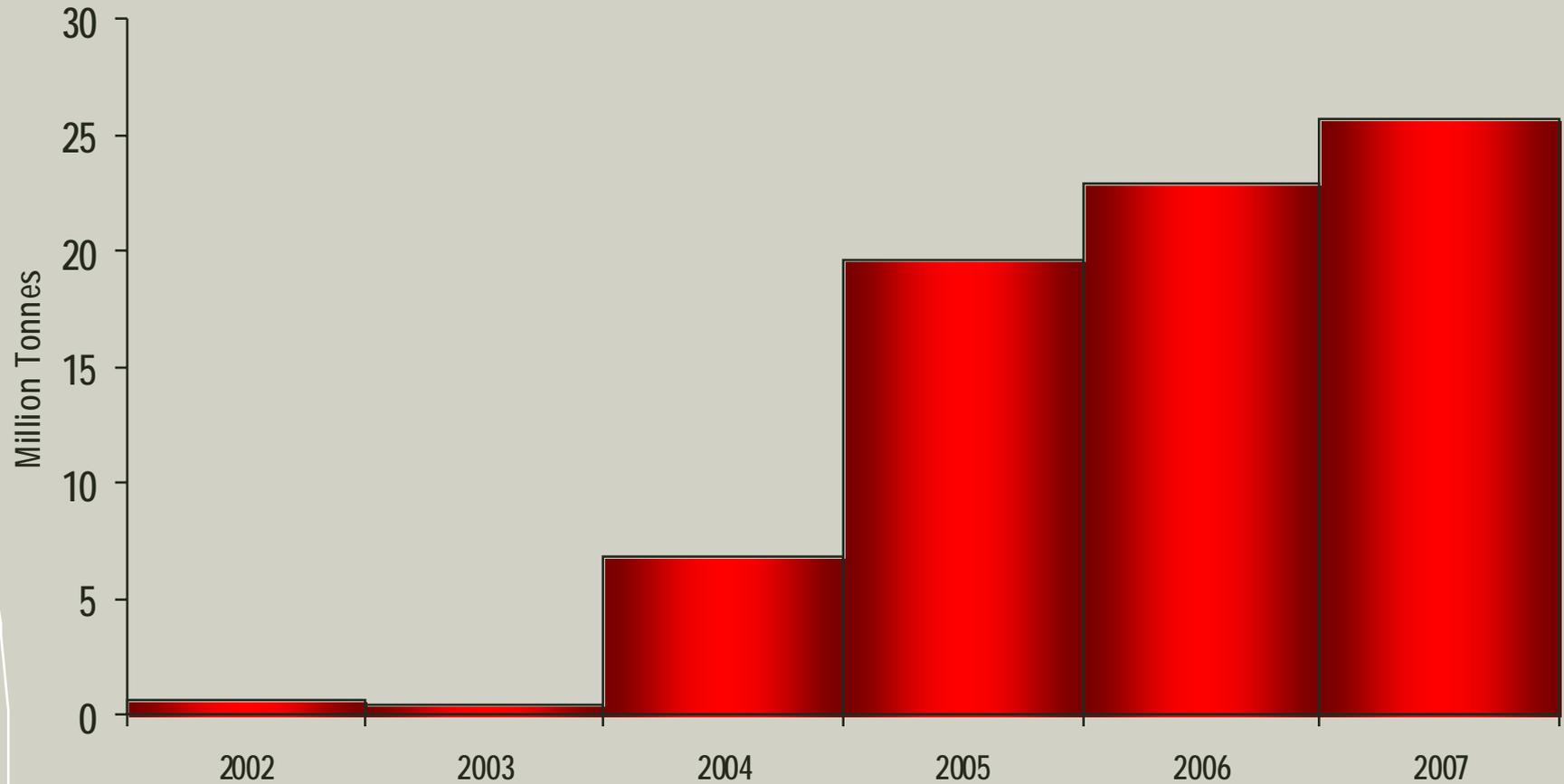
# Area C mining fleet

- Liebherr 994 Excavator
- 2 Hitachi EX 2500 Excavator
- O & K RH170 Excavator
- 1 Hitachi EX 3600 Excavator
- O & K RH120 Excavator
- 2 x CAT 994 FEL's
- 23 x 789 (180t)
  
- 4 x CAT D10 Dozers
- 1 x D9 CAT Track Dozer and 1 x Tiger 690 Wheel Dozer
- 2 x CAT 16H grader
- 5 x Water carts and other support equipment
- 5 Rotary / Down Hole Hammer Drills
- 3 Top Hammer Drills



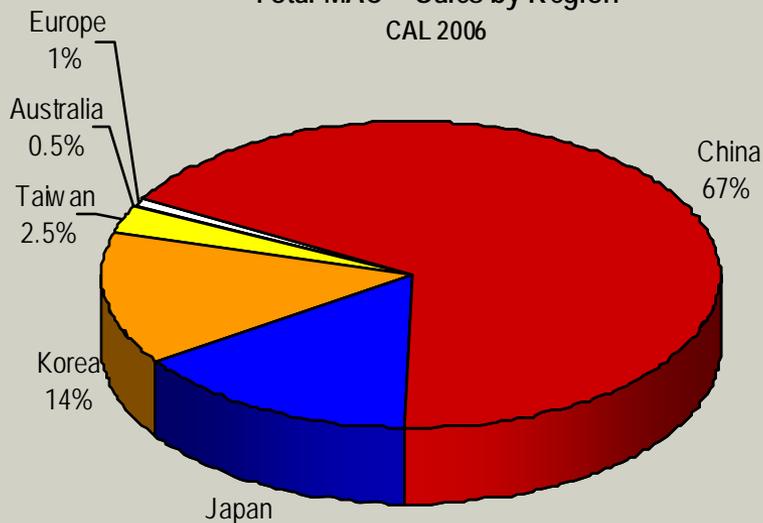
# Responding to growing demand with rapid expansions

*Area C Production (Ore for Railing)*

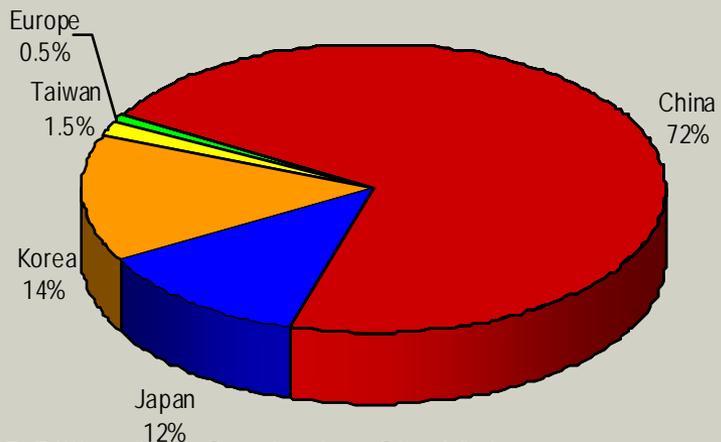


# MAC™ sales – CY 2006

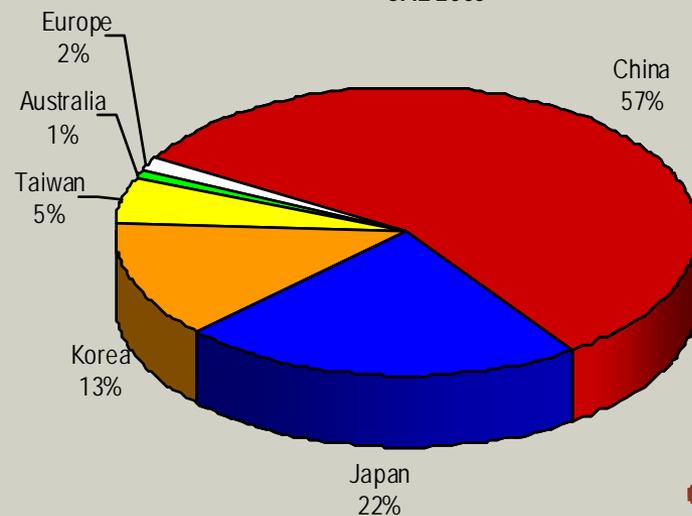
Total MAC™ Sales by Region  
CAL 2006



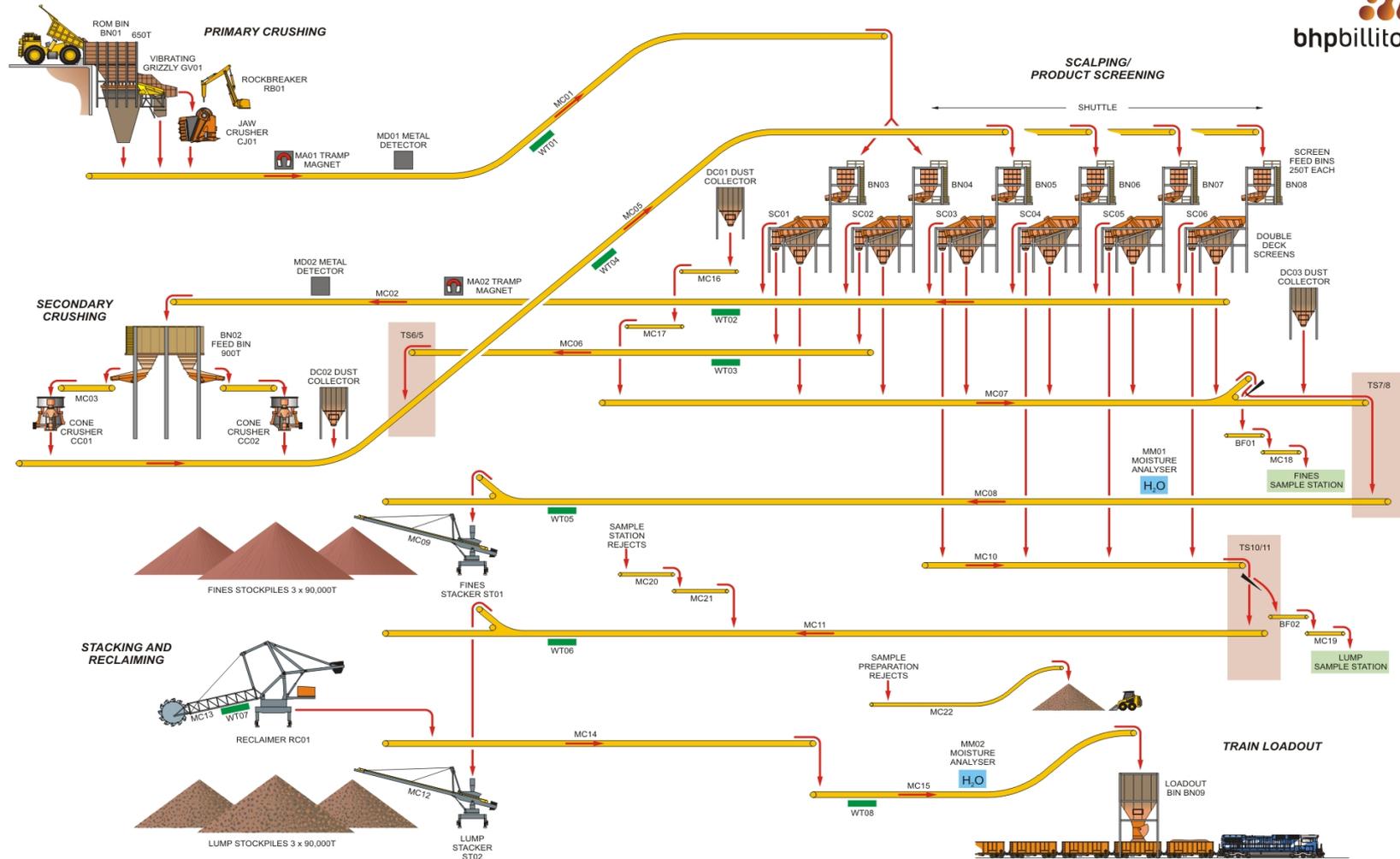
Total MAC™ Fines Sales by Region  
CAL 2006



Total MAC™ Lump Sales by Region  
CAL 2006



# Area C - processing plant flow sheet



MPD JV

FLUOR SKM

AREA C

ORE HANDLING PLANT FLOWSHEET

8 September 2004

# Workforce

- 1146 Village rooms – 490 Permanent 656 Short Stay
  - 450 HWE staff, including ESS catering and Brandrill
  - 50 BHP Billiton Iron Ore staff
  - 585 RGP3 Construction and sub-contractors
  - Balance for shutdown employees and visiting staff
  
- Fly in / fly out roster from Perth to Site
  - 14 days on / 7 days off (HWE)
  - 9 days on / 5 days off
  - 12 hour working shifts

# Expansion - E Deposit







# Site Tour: Area C

Daniel Pop, Manager Area C

End of Day 2