

# Russian Miner, Global Player

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# Norilsk Nickel's Metals Disclosure – a 5 year Journey



2002 \ \ 2003 \ \ 2004 \ \ \ 2005 \ \ 2006

#### **Base Metals (Nickel)**

- Government declassifies
   Nickel resources for Talnakhskoe and Oktyabrskoe deposits at Polar Division
- Micon
   International
   hired to conduct
   first independent
   base metals
   resource audit
   (according to
   JORC standards)
- •First independently audited base metal resource results (2002 year end) published in 2003 Annual Report
- Independently audited base metal resource results (2004 year end) published in 2004 Annual Report
- •Third audit covering Norilsk-1 deposit base metal resource results (2004 year end) published

#### **Platinum Group Metals**

- Russian
   Parliament
   approves
   amendment to
   Federal Law "On
   State Secrecy"
- Amendment to Federal Law "On State Secrecy" enters into force and PGM resource data declassified
- PGM resource data included in scope of independent resource audit, conducted by Micon
- •First
  independently
  audited PGM
  resource results
  for Talnakh ore
  field & Norilsk-1
  deposit (2004
  year end)
  published

Source: Norilsk Nickel

## Results of Base Metals and PGM Reserve/Resource Audit\*



Mineral resources and ore reserves of the	Talnakh ore field, Norilsk-1 and Zhdanovskoye deposits as of 31 December 2004 <sup>1</sup>
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Danies /																
Region / Category	Deposit	Mine	Ore Type	Ore Volume <sup>2</sup>			Metal Cor	ntent <sup>2</sup>			Metal Volume <sup>2</sup>					
ou.ogo.,	Бороол		0.0 ., po		Ni	Cu	Pd	Pt	Au	6PGM <sup>3</sup>	Ni	Cu	Pd	Pt	Au	6PGM <sup>3</sup>
				0001	1VI %	%	q/t	q/t	a/t	a/t	171 000 t	000t	000'oz	000'oz	000'oz	000'oz
				0001	/0	/0	y/ı	y/ι	y/ı	y/ı	0001	0001	000 02	000 02	000 02	000 02
Taimyr Peninsula																
Proved and probable ore reserves <sup>4</sup>																
	Talnakh	ore field														
		Oktyabrsky	Rich	41 091	2.54	5.10	8.54	1.91	0.43	10.68	1 045	2 094	11 283	2 524	563	14 111
			Cuprous	56 489	1.07	4.83	9.30	2.25	0.71	11.73	605	2 727	16 898	4 092	1 287	21 307
		<b>-</b>	Total	97 580	1.69	4.94	8.98	2.11	0.59	11.29	1 650	4 821	28 181	6 616	1 850	35 418
		Taimyrsky	Rich	79 690	2.47	2.74	4.57	0.90	0.13	5.90	1 972	2 185	11 703	2 299	322	15 101
			Cuprous	396	0.62	1.69	3.89	1.06	0.30	5.36	2	7	50	13	4	68
		12	Total	80 086	2.46	2.74	4.56	0.90	0.13	5.89	1 974	2 192	11 753	2 312	326	15 169
		Komsomolsky	Rich	2 000	3.11	2.88	7.26	1.39	0.18	9.37	62	58	467	90	12	605
			Cuprous	20 619	0.61	2.08	6.75	1.98	0.47	9.09	126	429	4 476	1 311	313	6 026
		Manual	Total	22 619	0.83	2.15	6.80	1.93	0.45	9.12	188	487	4 943	1 401	325	6 631
		Mayak	Disseminated	407	0.73	1.45	3.31	1.25	0.33	4.80	3	6	43	16	4	61
	Cultural	Skalisty	Rich	37 570	3.03	2.72	5.52	1.07	0.14	7.28	1 137	1 023	6 673	1 288	172	8 808
	Subtotal		Rich	160 351	2.63	3.34	5.84	1.20	0.21	7.48	4 216	5 360	30 126	6 201	1 069	38 625
	Subtotal		Cuprous	77 504	0.95	4.08	8.60	2.17	0.64	11.00	733	3 163 6	21 424	5 416	1 604	27 401
	Subtotal		Disseminated	407 238 262	0.73 2.08	1.45 3.58	3.31 6.74	1.25	0.33	4.80 8.63	4 952	8 529	43 51 593	16 11 633	2 677	66 087
Total - combined ore types			238 262	2.08	3.38	6.74	1.52	0.33	8.63	4 932	8 329	31 393	11 633	2 611	00 007	
	Norilsk-1	deposit														
		Medvezhy Ruchey	Disseminated	17 330	0.32	0.43	4.38	1.80	0.19	6.44	56	75	2 439	1 001	105	3 579
		Zapolyarny	Disseminated	62 753	0.30	0.43	4.04	1.66	0.18	6.00	191	269	8 151	3 359	362	12 125
	Total - c	ombined ore types		80 083	0.31	0.43	4.11	1.69	0.18	6.08	247	344	10 590	4 360	467	15 704
Total proved and probable ore reserves <sup>4</sup> 318 3			318 345	1.63	2.79	6.08	1.56	0.31	7.98	5 199	8 873	62 183	15 993	3 144	81 791	
Total provos sits propagio oro received																
Measured and indicated mineral resources																
			Rich	21 391	4.22	6.00	13.52	2.72	0.49	16.65	903	1282	9 302	1 874	389	11 467
			Cuprous	314	0.35	3.09	3.58	1.57	0.00	5.71	1	10	36	16	7	58
			Disseminated	1 397 087	0.52	1.03	2.93	0.85	0.19	3.96	7 235	14 458	131 460	38 302	8 515	177 713
Total measured and indicated mineral resources			1 418 792	0.57	1.11	3.07	0.88	0.19	4.13	8 139	15 750	140 798	40 192	8 911	189 238	
Kola Peninsula												V				
Zhdanovskoye deposit⁵						<b>\</b>										
Total proved and probable ore reserves <sup>4</sup> 160 337				160 337	0.67	0.31	-			-	. 008	494		-	-	

Norilsk-1 deposit added to audited portfolio

Individual palladium and platinum reserves, along with 6PGMs now included in standard reserve statement

<sup>\*</sup> Audited mineral resource and ore reserve results can be found at www.nornik.ru

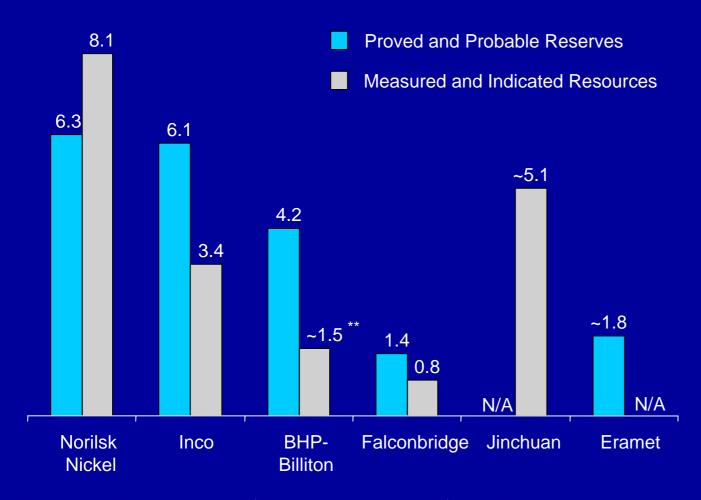
<sup>1-5</sup> Clarifying notes can be found in the appendix of this presentation

## Norilsk's Nickel Reserve and Resource Position



#### Nickel in Attributable Reserves and Resources\*

million mt Nickel in ore



 Norilsk the clear leader in terms of attributable metal in reserves and resources

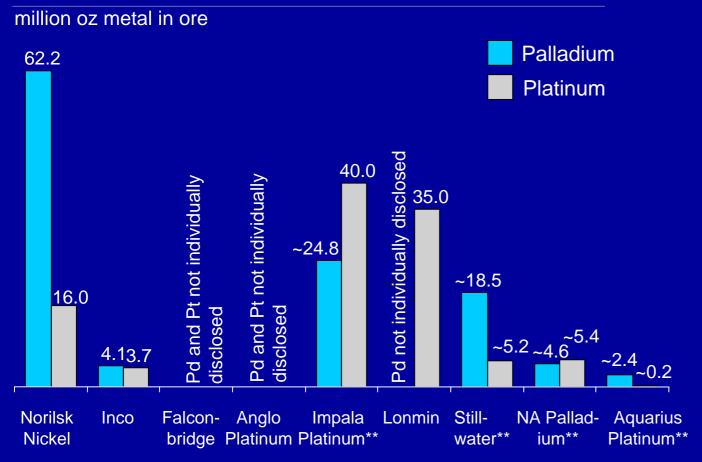
<sup>\*</sup> Resource and Reserve status as of December 31, 2004; except for BHP-Billiton - 30 June, 2005, Jinchuan – 2002 (MEG), Eramet - 1996 (MEG)

<sup>\*\*</sup> Derived by excluding Proved and Probable Reserves from reported Measured and Indicated Resources Source: Company reports, MEG database

# Norilsk Nickel Reserve Position vs Competitors - PGMs



#### **PGM Metal in Attributable Proved and Probable Reserves\***



- Relative to published information from other PGM producers, Norilsk leading in terms of combined Pd and Pt Reserves
- A number of producers still do not disclose individual Palladium and Platinum reserve figures

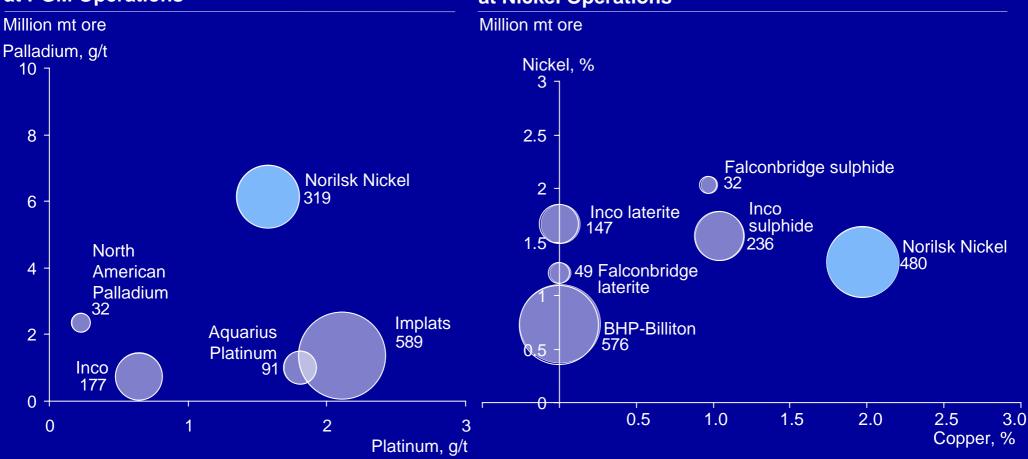
<sup>\*</sup> Reserve status as of December 31, 2004 except: Impala and Aquarius data as of June 30, 2005, Lonmin data as of September 30, 2005. Norilsk Nickel figures exclude Stillwater.

<sup>\*\*</sup> Estimated from reported metal splits in ore applied to Mineral Resource and Ore Reserve statements based on total 3PGE+Au or 4PGE+Au grades.

# Norilsk Nickel Reserves vs Competitors' - Quality and Quantity







<sup>\*</sup> As per December 31, 2004, except for Implats and Aquarius data as per June 30, 2005 and Lonmin data as per September 30, 2004. Implats total includes Ru. Implats Pd and Aquarius Platinum Pd and Pt grades are estimates based on disclosed PGE grades and metal splits. NN: Ore Reserves of its Taimyr (Polar) Division, Inco: Ore Reserves of Ontario operations

Source: Company reports

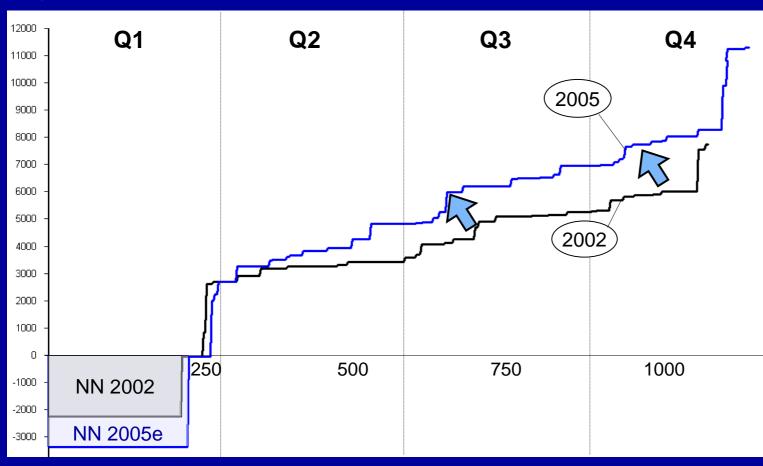
<sup>\*\*</sup> As per December 31, 2004, except for BHP-Billiton data reported as of 30 June, 2005. NN includes Ore Reserves of its Taimyr (Polar) and Kola Divisions. BHP-Billiton does not disclose Cu grade of its Ni deposits. Falcondo, Goro and Indonesian Inco operations have lateritic ores

# Norilsk Nickel Unit Costs vs Industry



#### **Nickel Industry Cost Curve\* (Brook Hunt)**

#### **US\$/mt Nickel**



- Norilsk is keeping costs in check while overall industry has been increasing over past three years
- Norilsk's cost position combined with its resources make for a strong, longterm cost position

## **Cumulative production, thousand mt Nickel**

<sup>\*</sup> Direct cash costs including by-product credits (Cu, Co, Ag, Au, PGM), as published by Brook Hunt. 2002 data in actual 2002 US\$, 2005 cost estimates in 2004 US\$ Source: Brook Hunt

## Rationale Behind Exploration Joint Venture with Rio Tinto



#### Similar strategic interests

- Establish viable cooperation vehicle to enable exploration for new mineral resources within attractive regions in Russian Federation
- Assess economic viability of new discoveries and known deposits, with potential for development and significant capital investment.
- Focus on acceleration of pace of discovery and development
  - Key element in increasingly competitive exploration industry
  - Joint ventures common vehicle to speeding up the process and gaining leverage
- Share risk and human and financial resources
  - Leverage technical, business development and financial skills of both companies to create value for shareholders

#### **Key Elements of JV agreement**

- 51% Norilsk Nickel, 49% Rio Tinto creates flexibility for participation in license auction while supporting joint decision making structure
- Focus of initial cooperation in Siberian and Far Eastern Federal Districts
- Russian registered exploration and development company - based in Russia, paying local taxes and employing local staff
- Resources committed from both parties, and potential to easily tap into expertise from either side minimizes overhead costs while accessing necessary skills where and when needed

## Area of Focus for the Joint Venture









# Appendix

# Notes to mineral resources and ore reserves of the Talnakh ore field, Norilsk-1 and Zhdanovskoye deposits as of 31 December 2004



#### Notes:

1. The Talnakh ore field and Norilsk-1 deposit in the Taimyr Peninsula and the Zhdanovskoye deposit in the Kola Peninsula were classified according to the Australasian Code for Reporting of Mineral Resources and Ore Reserves ("JORC Code") developed by the Australasian Joint Ore Reserves Committee ("JORC") formed by the Australian Mining Industry Council, The Australasian Institute of Mining and Metallurgy, and The Australian Institute of Geoscientists. The classification of the reserves in accordance with JORC principles have been prepared by the following competent person: Stanley C Bartlett, PGeo, Managing Director of Micon International Co Limited. Reserves are based on the current 2 to 3 year detailed mine production plan, and the base case conceptual mine plan extending to the mine end of life based on economically mineable ore in the A, B and C<sub>1</sub> Russian categories at the end of a given calendar year.

Ore reserves and mineral resources from the Semiletka, Kaula-Kotselvaara, and Zapolyarnoye deposits in the Kola Peninsula, which includes the Kaula-Kotselvaara open-pit and Severny underground mines, were not included in the audit.

- 2. Sub-total and total figures may be different to the sum of individual numbers due to rounding, and in some cases may vary insignificantly from previous statements.
- 3. 6PGM are platinum, palladium, rhodium, ruthenium, osmium and iridium.
- 4. Proved and probable ore reserves are not included in mineral resources.
- 5. Includes ore reserves and mineral resources from the Severny-Gluboky underground mine and the Tsentralny open-pit mine incorporating the Tsentralny and Zapadny pits.