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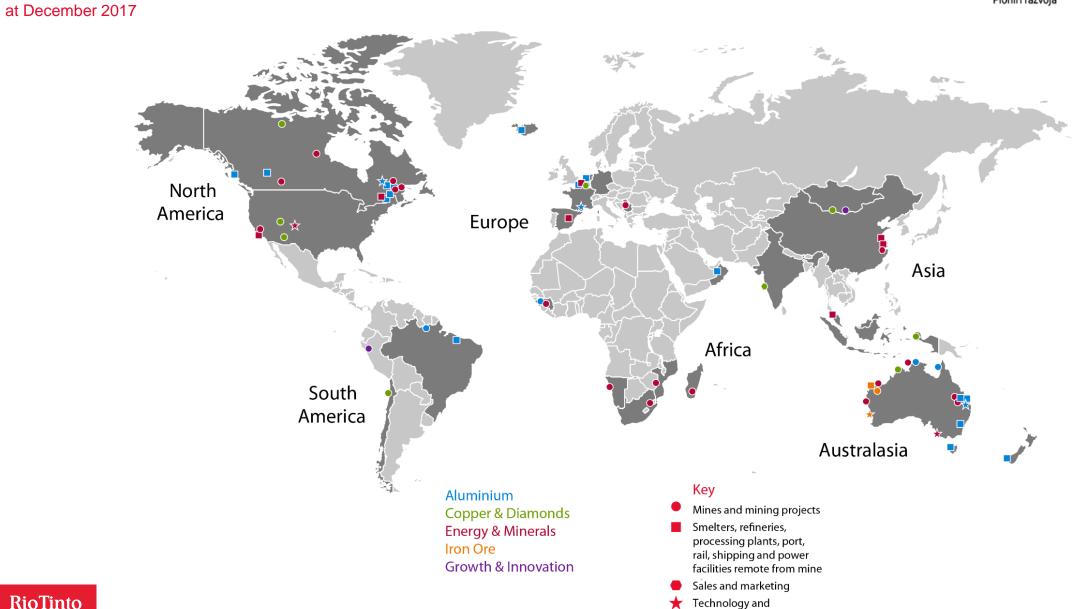
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This presentation contains a number of non-IFRS financial measures. Rio Tinto management considers these to be key financial performance indicators of the business and they are defined and/or reconciled in Rio Tinto's annual results press release and/or Annual report.

Where we operate

Pioniri razvoja



innovation centres

Essential materials for a modern world

We supply important metals and minerals that make modern life work. Here are some examples:

Aluminium&Iron ore: Transportation, machinery, construction, packaging and electrical materials

Borates: Home insulation, fertilisers, and the heat-resistant glass used in smartphones, tablets and TVs

Copper: Found in nearly every home, office and vehicle. Also used in renewable energy systems such as wind and solar power

Diamonds: Over half a billion men and women own at least one piece of diamond jewellery











Jadarite – A unique Lithium-Borosilicate

Jadarite

Lithium-sodium-borosilicate mineral (LiNaSiB₃O₇OH) comprising 47.2% B₂O₃ and 7.3% Li₂O.







History – A Rio Tinto Discovery

2000's

Rio Tinto Exploration discovers borates in western
Serbia and jadarite – a new mineral

2007-2010

Order of magnitude study and drilling to gain orebody knowledge

2010-2014

Mining and Metallurgical studies, Pilot plant at Rio Tinto's Boron operation in California, improved orebody knowledge and resource modelling

2016-2018

Pre-feasibility, enhanced process testwork at RT
Technology Centre





Jadar – Resource Profile and Mineralogy

100% owned by Rio Tinto

136 Mt mineral resource⁽¹⁾:

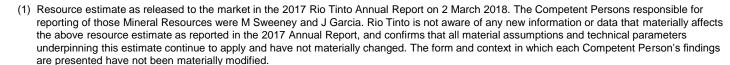
Indicated: 52 Mt @ 1.8% Li₂O, 19.2% B₂O₃

Inferred: 83 Mt @ 1.9% Li₂O, 13.0% B₂O₃

- Contains:
 - 2.5Mt lithium oxide (Li₂O)
 - 21Mt borates (B₂O₃)
- Long potential mine life

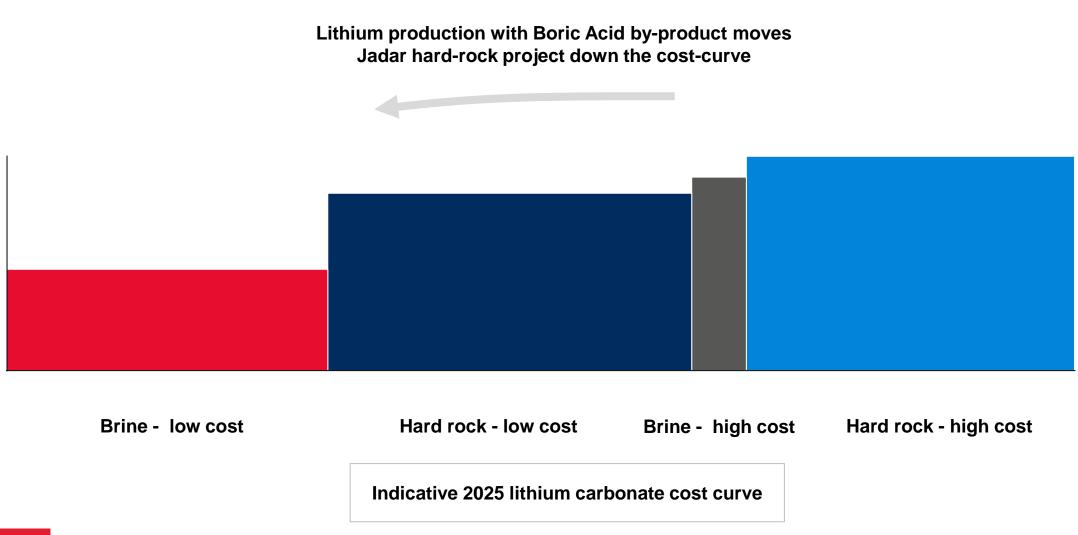
Alongside **Jadarite**, **Ezcurrite** (Na₄B₁₀O₁₇.7H₂O) is most common mineral. **Kernite** (Na₂B₄O₇.4H₂O) and **Borax** (Na₂B₄O₇.10H₂O) also present.

Mineral		Formula	%B ₂ O ₃	%Li ₂ O
Borates	Ezcurrite	Na ₄ B ₁₀ O ₁₇ ·7H ₂ O	58.2	-
	Kernite	$Na_2B_4O_7 \cdot 4H_2O$	50.9	-
	Borax	$Na_2B_4O_7 \cdot 10H_2O$	47.2	-
	Ulexite	NaCaB ₅ O ₉ ·8H ₂ O	42.9	-
	Colemanite	Ca ₂ B ₆ O ₁₁ ·5H ₂ O	50.8	-
Jadarite		LiNaSiB ₃ O ₇ (OH)	47.2	7.3
Li - Rich Minerals	Spodumene	LiAlSi ₂ O ₆	-	8.0
	Lepidolite	$K_2Li_3AI_3(AISi_3O_{10})_2(O,OH,F)_4$	-	5.4
	Petalite	LiAlSi ₄ O ₁₀	-	4.9
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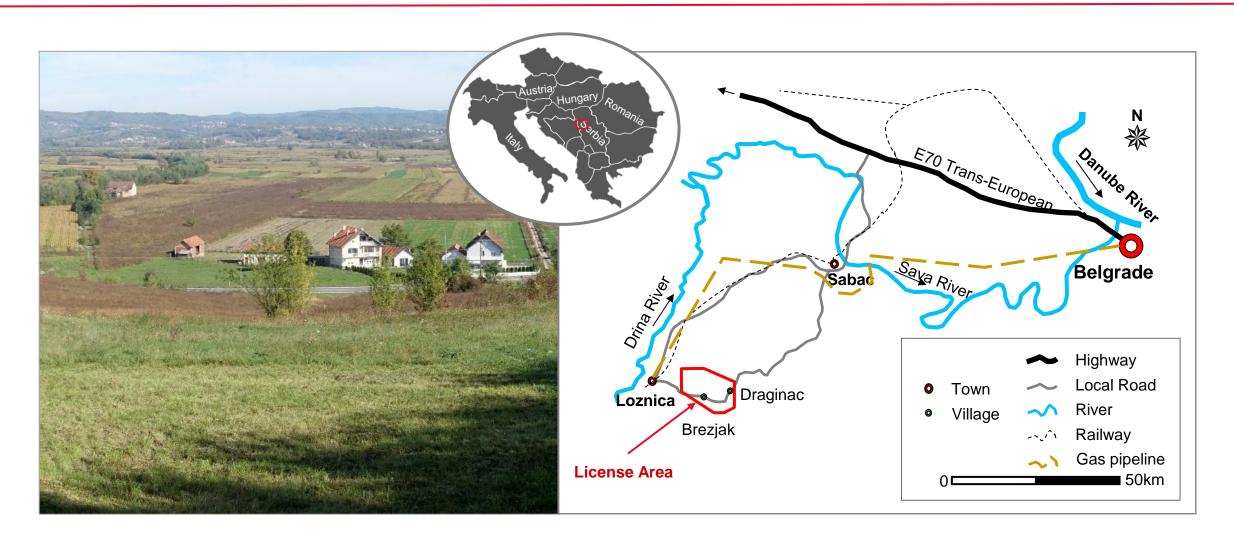




Operating Cost Implications



Jadar Valley – Northwestern Serbia





Attractive Serbian investment climate combined with existing Rio Tinto infrastructure

Attractive Serbian investment climate

- On track for EU membership
- Established mining jurisdiction
- Mining code updated in 2015
- Supportive government

Local infrastructure

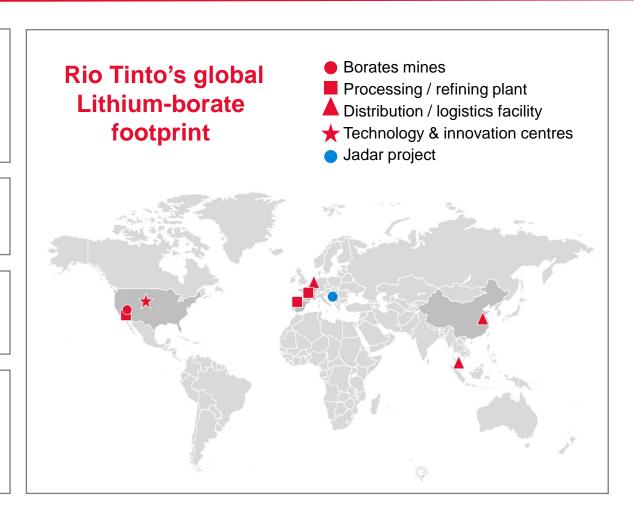
- Skilled and productive labor force
- Competitive operating costs

Rio Tinto infrastructure

- Existing boric acid production / market presence
- Infrastructure in Americas, Europe, Asia

Access to market

- Multiple transportation options
- On doorstep of 2nd biggest EV market
- Customs free access to scale markets from EU membership



Jadar Project

- Greenfield underground mine
- On site plant producing battery grade lithium carbonate and boric acid
- Potential production start up early 2020's



