We continue to build confidence in Jadar by progressing the Project through its different development phases.

In particular, our field work in the ore body area continues, which just happens to be the biggest drilling campaign for the whole of Rio Tinto. We are investing additional resources and supplying the jadarite processing pilot plant in Bundoora with necessary core samples. We continue to collect environmental and social baseline data and strengthen our understanding of the future underground mine design and its potential impacts.

In parallel, we are progressing our permitting process using spatial planning tools and continue to consult with the Government of Serbia and local communities. We are developing a dedicated and knowledgeable team in Serbia, leveraging Rio Tinto’s expertise in challenging underground mining operations. We do all this with safety as our top priority.

You will find our stories about these issues in the next few pages. Enjoy the reading.

In this issue
- Safety First
- Update from the Field
- Working with the Community
- Technology and Innovation
- Our People
- News brief

Building confidence in Project viability

Richard Storrie
General Manager
Rio Sava Exploration
Ensuring a safe working environment

Creating a safe working environment is our top priority. Safety comes first in everything that we do and we continuously remind each other of the need to achieve a ‘zero harm’ work environment. To create such an environment, we are building a collaborative culture between all members of the Jadar Project team.

We have created new visuals in our work space in Loznica that promote Rio Tinto priorities and values, and remind us of the importance of safety, wellbeing and teamwork. We continuously listen, learn, ‘walk the talk’ and make the time to effectively lead our team to success.

We have also strengthened our visuals in the field in order to reinforce the company’s values and to foster a greater sense of belonging.

**TOP 3 CRITICAL RISKS ON THE PROJECT IN 2018:**

- Vehicle Collision and Rollover + Vehicle Impact on Person
- Entanglement and Crushing
- Contact with Electricity
Drilling to improve our knowledge

Even after a number of years of geological studies and about 150 km of drilled core, we continue to build our understanding of the geology of the Jadar Project in a safe and responsible manner. Our latest drilling campaign is designed to help us learn more about the central part of the ore body. The continued geological investigations will provide valuable data for the ongoing Prefeasibility Study (PFS) and the preparation of the Elaborate of Resources and Reserves.

Additional drilled material will be used to produce test samples of our expected final products (boric acid and lithium carbonate) at the specification levels required by the market. The final 2-Year Report (2015-2017) and the Work Plan 2018-2019 were prepared in compliance with applicable regulations and as per the approved scope and funding by Rio Tinto. The most recent extensions of two exploration licenses by the Ministry of Mining and Energy of the Republic of Serbia have enabled this field work to take place.

154 km
CORE DRILLED
Total km since the start of the project

88% (24.6 km)
CORE DRILLED
Total km since the start of the campaign (Nov 2017)
Plan for this campaign (2017-2018) is 27.9 km

108.1 t
ROCK CHIP BULK SAMPLE
Since the start of the project

94% (7.5 t)
SOLID CORE BULK SAMPLE
Since the start of the last campaign (Nov 2017)
Plan for this campaign (2017-2018) is 8 t
Preserving the cultural heritage of the Jadar Valley

Rio Tinto continues its close cooperation with the Jadar Museum focusing on exploring and preserving the cultural heritage in the Jadar valley. Field work continued in autumn 2017 in order to deepen our understanding of cultural heritage in the Jadar project area. This work was undertaken on the basis of previous targeted geophysical investigations, which revealed underground features requiring further research.

The focus was also on the area of Paulje, in the area below the Gornje Nedeljice church. In addition to the known cemetery of Bronze / Iron Age burial mounds, traces of prehistoric activity (Neolithic, Bronze and Iron Age pottery and worked flint) have been found on the ground surface in the immediate vicinity.

Further research is required to develop a better understanding of the underground features that were identified through trial trenching. Field research will be planned and conducted in close consultation with the relevant cultural heritage institutions, and in accordance with local law.

Mining where a mine once was

Five of seven trial excavations at Gornje Nedeljice uncovered remains of Iron Age activity, including evidence of iron smelting. These trials confirmed the results of geophysical investigations carried out in 2017. Our joint research with the Jadar Museum continues.
Spotlight: Jadarite – a global project

Our Australian colleagues have recently launched a new advertising campaign to help raise awareness about the contribution Rio Tinto makes to local communities and the economy, and to improve understanding of how our essential materials contribute to human progress across the globe. The story about the Jadar Project and jadarite discovery is part of that campaign. Our colleagues who were part of the discovery team and those working at the Bundoora Research Centre in Melbourne, Australia have told what inspires them to come to work every day.

"Finding a mineral with such high concentrations of borate and lithium is extraordinary but we still have to find a commercially viable means of breaking it down into its component parts. We've assembled a pilot plant in our Melbourne support facility that demonstrates the process of separating the elements. It's been constructed inside a large shipping container so it can be sent to Serbia and used as a model when they build on the mine site," says chemical engineer Gary Davis, a key member of the jadarite processing team.

“We’re helping to develop a process that will not only be good for humanity but create jobs for generations to come. Our children’s children will benefit from the work we’re doing here today,” says Geoff Boddy, Melbourne team leader of the jadarite processing team.

“To discover a new mineral is not that rare, but to find a new mineral in the large quantity as we have in the Jadar Valley is remarkable. It is truly a great discovery, which also implicitly suggests that there must be more jadarite on this planet," explains Nenad Grubin, Senior Manager, Resource Studies.

For more information about the Jadrite discovery and processing visit www.riotinto.com/ourcommitment/spotlight-18130.aspx
Nenad Vasiljevic, Principal Advisor – Decline Development, Oyu Tolgoi, Mongolia

Our people

Nenad Vasiljevic, Jadar’s mining engineer, recently started a two year fly in-fly out assignment at Rio Tinto’s underground copper mine in Oyu Tolgoi (OT), Mongolia. The assignment will provide professional development and technological upskilling opportunities and the chance to learn from one of the most advanced underground mine operations. For Nenad, working on a site, that accommodates over 10,000 people, which is located in a remote desert where water is piped from an underground aquifer more than 50km away, where electricity is commissioned from China, and all other supplies and necessities are brought in either by road or via planes, is indeed a professional thrill.

“It’s a privilege and obligation to learn from other colleagues’ experiences before starting our own mine operations. Just thinking that you stand above an estimated 3.4 billion tons of ore reserves containing copper, gold and other natural wealth is an extraordinary experience. I am involved in the Conveyor-to-Surface development of the OT underground project. The decline will have a total length of approx. 6.1 km with two headings (12km in total) and will reach depths of 1,300m below surface. The purpose of my assignment is to learn all about the latest underground mining technologies, to get practical experience in daily operations, and to master contracting and operational management aspects. Contributing now to the OT Conveyor-to-Surface development will make future construction and operations at our Jadar Project a lot easier,” says Nenad.

Investing in our people

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NEWSPRINT
145 years of Pioneering progress

Our first mine was open in 1873 on the banks of the Rio Tinto, a river in Spain. By the late 1800s, Rio Tinto had become the world’s leading copper producer. 2018 is year in which we mark our 145th anniversary.

NEWS BRIEF
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