



## West Arunta Zinc Drilling Underway

### HIGHLIGHTS

- RC drilling commenced at West Arunta Project
- Initially testing two Mt Isa-style, large-scale sedimentary Zn-Pb targets
- Drilling to test for fresh mineralisation under existing Zn-Pb outcrop
- Infill and extension soil geochemistry program also underway

Cassini Resources Limited (ASX:CZI) (“Cassini” or the “Company”) is pleased to advise that the maiden drilling program at its 100%-owned West Arunta Project (the “Project”) in Western Australia has now commenced. Cassini announced the discovery of zinc-lead (Zn-Pb) soil anomalies and associated gossan outcrops on 4 November 2015, heralding the potential discovery of a new, unexplored zinc-lead province.

Drilling is expected to take up to two weeks with results available in early June.



**Figure 1.** RC drilling commencing at the Iapetus Prospect. Gossan outcrop in background.

## Background

Cassini is targeting large-scale, sedimentary Zn-Pb mineralisation, similar to those deposits found in the Mt Isa region in Queensland. A modern day analogue is the Century Deposit mined by MMG, with a pre-production resource of 167mt @ 8.1% Zn, 1.2% Pb and 33g/t Ag. Century produced a prominent Zn-Pb soil anomaly centred on a siltstone outcrop. Rock chip samples from this outcrop returned only 1-2% Pb & Zn. The outcrop was later recognised as part of the orebody, which produced a very subtle geochemical and visual expression of the mineralisation due to strong leaching and a lack of iron oxides.

The Enceladus and Iapetus Prospects are the first drill-ready targets to be tested in the 2016 exploration program at the Project. This program will be conducted over several campaigns throughout 2016. The Enceladus and Iapetus prospects have been prioritised due to observable outcropping mineralisation (gossans) occurring in-situ over a significant strike length as reported on 23 November 2015.

Rock chip samples returned Zn assays up to 4700ppm with elevated values of Pb, cadmium (Cd), nickel (Ni), copper (Cu), arsenic (As) and thallium (Tl). These Zn values are considered to be highly anomalous in strongly weathered rocks and consistent with gossan outcrops in similar terranes. Importantly, coincident Cadmium (Cd) anomalism present in the lag is recognised as a signature of sphalerite, the primary source of Zn mineralisation.

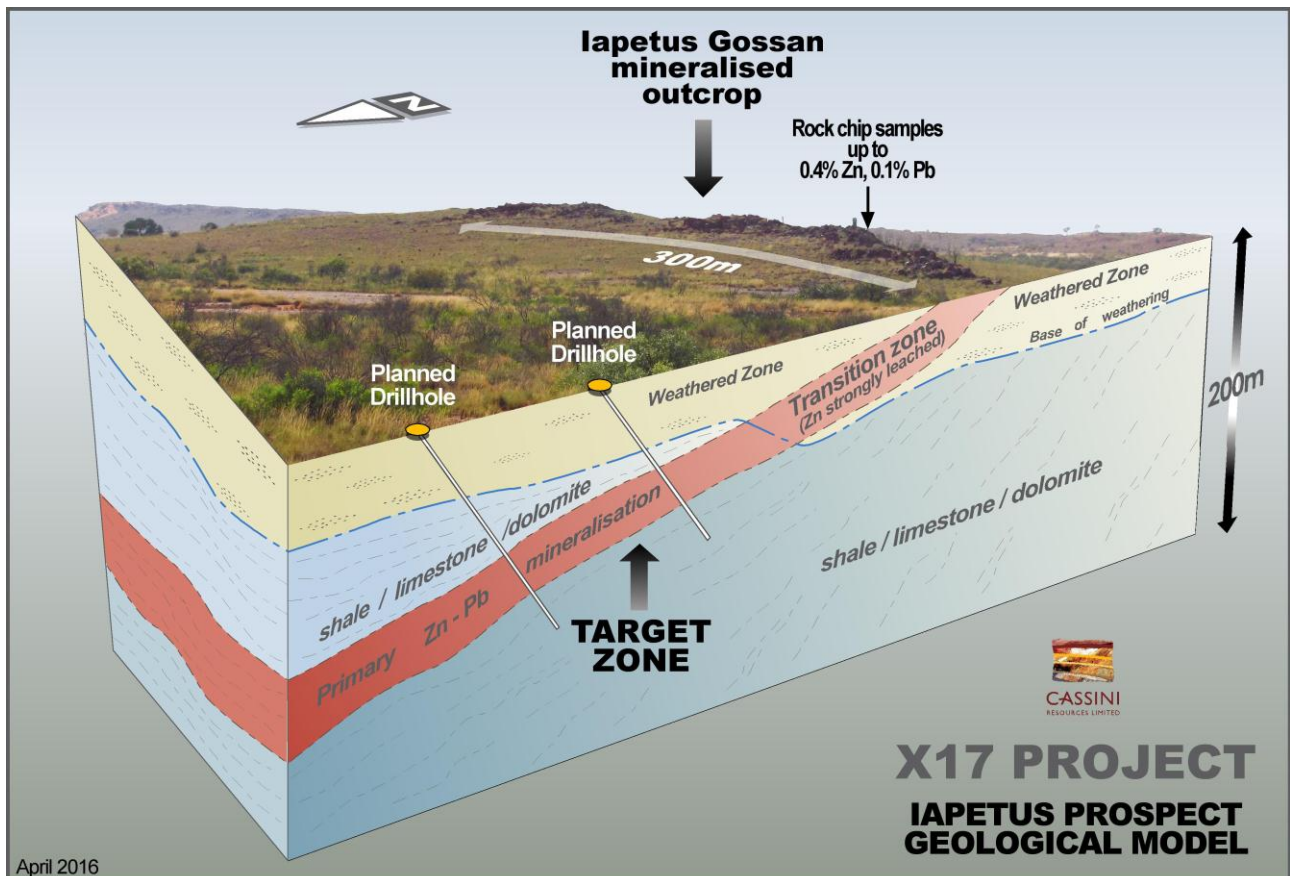


Figure 2 – Conceptual geological model and drill program at West Arunta Project

The planned RC drilling program comprises 16 holes for 1,600m. Initial holes will target the primary (unweathered) rock underneath the gossans to determine the extent and grade of the mineralisation (Figure 2). Due to the significant leaching of Zn that occurs in the weathered rock, the expectation is that the primary mineralisation is of a significantly higher grade.

It is anticipated that the depth to the primary mineralisation will be relatively shallow when compared to other zinc projects, due to the presence of mineralisation at surface. The average drill hole depth is initially planned to be approximately 100m, with the planned hole depth to range from 50 to 150m.

### Follow-up programs will target Mimas and Rhea Prospects

There is enormous potential for the identification of further zinc targets (Figure 3) due to the lack of previous exploration and shallow sand cover obscuring the bedrock geology.

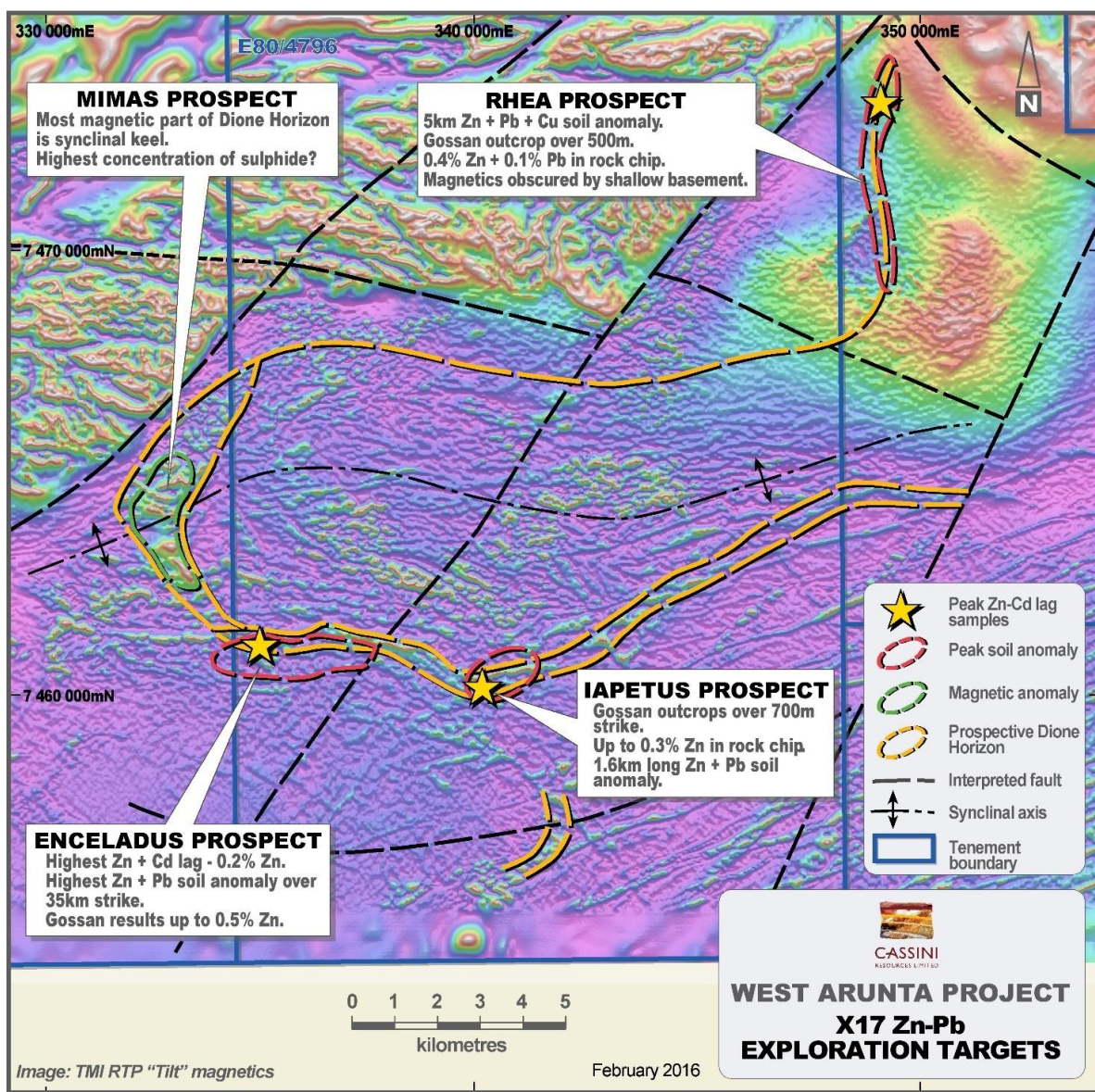


Figure 3 – West Arunta Project Exploration Targets

The prospective “Dione Horizon” is thought to strike at least 35km based on the interpretation of geophysical data. The Company has already identified a number of additional prospects along this stratigraphic horizon.

The Mimas and Rhea Prospects both cover large areas along the Dione horizon that will be the focus of upcoming field work, with the aim of generating focused targets for future drilling programs. This field work will include an infill and extension geochemistry program on reduced sample spacing (500m x 250m), collecting approximately 1,000 samples. This geochemistry program will run concurrently with the drill program.

For further information, please contact:

**Richard Bevan**

Managing Director

Cassini Resources Limited

Telephone: +61 8 6164 8900

E-mail: [admin@cassiniresources.com.au](mailto:admin@cassiniresources.com.au)

**Competent Persons Statement**

The information in this report that relates to Exploration Results is based on information compiled or reviewed by Mr Greg Miles, who is an employee of the company. Mr Miles is a Member of the Australian Institute of Geoscientists and has sufficient experience of relevance to the styles of mineralisation and the types of deposits under consideration, and to the activities undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Miles consents to the inclusion in this report of the matters based on information in the form and context in which it appears.

The Company is not aware of any new information or data, other than that disclosed in this report, that materially affects the information included in this report and that all material assumptions and parameters underpinning Mineral Resource Estimates and Exploration Results as reported in the market announcements dated 4 November 2015 and 23 November 2015, continue to apply and have not materially changed.

Century Mine information sourced from Agnew, P. D., Century Zn-Pb-Ag Deposit, Northwest Queensland. CRC Leme.