

# Radisson Reports Widest And Deepest Intercept On The Vintage Zone, 6.9 G/T Gold Over 4m

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## Radisson Reports Widest And Deepest Intercept On The Vintage Zone, 6.9 G/T Gold Over 4 Meters At 610 Meters

# Depth

**Radisson Mining {TSX.v:RDS}** announced their widest and deepest gold intercept on the Vintage Zone at their O'Brien project, 85 kilometers north of the Cadillac trend in Quebec.

**The Vintage zone exploration program** The Vintage zone is a parallel zone of the O'Brien project located approximately 85 meters north of the Cadillac Break in the Cadillac Group of meta-sediments comprising sequence of polymictic conglomerate, banded iron formation (BIF) and grauwacke. In comparison, current resources of 36E and Kewagama zones are located in the Piche Group, south of the Cadillac Break.

The Vintage zone saw small historical exploration programs, which were never followed upon. In 2017, the company established several high-priority exploration drill targets through historical data compilation in this area of the O'Brien gold project. The first seven drill holes that tested these targets were completed over a strike length of 325 meters and up to 580 meters depth. The new info added to the few available historical information helps to demonstrate the continuity and the favourable geometry of the Vintage zone. All intercepts remain open in all directions.

All drill cores in this campaign are NQ in size. Assays were completed on sawn half-cores, with the second half kept for future reference. The samples were analyzed using standard fire assay procedures with Atomic Absorption (AA) finish at

Swastika Laboratories Ltd, in Swastika, Ontario. Samples yielding a grade higher than 5 g/t were analyzed a second time by fire assay with gravimetric finish at the same laboratory. Samples containing visible gold were analysed with metallic sieve procedure. Standard reference materials and blank samples were inserted prior to shipment for quality assurance and quality control (QA/QC) program.

**Note; Results are presented as down hole width; true width are estimated between 55 to 70% of down hole thickness.**

**Qualified Person** Tony Brisson, P. Geo, independent consultant, acts as a Qualified Person as defined in National Instrument 43-101 and has reviewed and approved the technical information in this press release.

**About Radisson Mining Resources Inc.** Radisson is a Quebec-based mineral exploration company. The O'Brien project, cut by the regional Cadillac Break, is Radisson's flagship asset. The project hosts the former O'Brien Mine, considered to have been the Abitibi Greenstone Belt's highest-grade gold producer during its production (1,197,147 metric tons at 15.25 g/t Au for 587,121 ounces of gold from 1926 to 1957; InnovExplo, April 2015).

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# Canuc Resources announce new title acquisition and breccia targets

Canuc Resources Corp. {TSX.V: CDA} has entered into a definitive agreement to acquire title to a mining concession which has an area of 151.1443 hectares from Minerales y Carbones de Mexico SA de CV.



## CANUC ANNOUNCES STRATEGIC TITLE ACQUISITION AND BRECCIA TARGETS

Canuc Resources Corp. {TSX.V: CDA} has entered into a definitive agreement to acquire title to a mining concession which has an area of 151.1443 hectares from Minerales y Carbones de Mexico SA de CV.

The agreement calls for Carbones to transfer title to the concession for total consideration of \$100,000 (U.S.). The purchase price will be satisfied by delivery of 150,000 common shares of Canuc and \$50,000 (U.S.) in cash. Canuc has received conditional approval for the issuance of its shares and the expedited acquisition of title to the concession, subject to receipt of all required TSX Venture Exchange filings.

The newly acquired mining concession envelops existing land holdings to the northeast. Early exploration has determined that silver-gold mineralization strengthens to the northeast. There is a distinct possibility that silver-bearing breccia and stockwork zones will be confirmed along this trend as exploration progresses. The confirmation of silver-gold-bearing breccia zones, uncovered on surface, would mark a change in prospects for a significant mineral discovery at San Javier.

Two such silver-gold-bearing breccia bodies have already been documented, Cerro Colorado and Carranza. Three more breccia bodies have been discovered this month. All of these breccia bodies are exposed on surface and occur at the intersection of the known northeast-southwest-trending San Javier mineralized corridor with recently recognized north-south faults.

"The discovery of mineralized breccia zones on surface would be of considerable importance. Confirmation of silver-gold-mineralized breccia zones would quickly shift our focus from the proven high-grade veins to these larger bulk-tonnage-type targets. This would have a major impact on the company's future," stated Hub Mockler, executive chairman.

## **About Canuc Resources Corp.**

Canuc is a junior resources company whose principal focus is exploration and development of the San Javier silver-gold project located 146 kilometres east of Hermosillo in Sonora state, Mexico. The company also generates cash flow from natural gas production in central West Texas, where Canuc has an interest in nine producing gas wells, and has rights for further in field developments.

John Nebocat, BSc (geological engineering), PEng, vice-president of exploration for Canuc, is the qualified person for the company, as defined by National Instrument 43-101, and has reviewed and approved the contents of this press release.

We seek Safe Harbor.

[To read the news release, please click HERE](#)

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# Condor Gold looking to list on the TSX

Condor Gold {AIM: CNR} has announced that the Listing Committee of the Toronto Stock Exchange ("TSX") has conditionally approved the Company's application to list Condor Gold on the TSX.







24 October 2017

Condor Gold plc

(‘Condor’, ‘Condor Gold’ or ‘the Company’)

## TSX Conditional Listing Approval Granted

The Board of Condor Gold (AIM: CNR) is pleased to announce that the Listing Committee of the Toronto Stock Exchange (“TSX”) has conditionally approved the Company’s application to list Condor Gold on the TSX.

Condor’s flagship La India Project in Nicaragua hosts 9.6 M tonnes at 3.5 g/t gold for 1,083,000 oz gold in the Indicated mineral resource category and 8.5 M tonnes at 4.5 g/t gold for 1,231,000 oz gold in the Inferred mineral resource category. The Indicated mineral resource includes 6.9 M tonnes at 3.0 g/t gold for 675,000 oz gold in the Probable mineral reserve category.

The TSX/TSXV is a robust market with liquidity and access to capital, particularly for the mining sector with the participation of over 200 Canadian institutional mining investors and over 500 international institutional mining investors. The TSX/TSXV is the number one public market for mining companies globally with 1,218 public listings with combined market capitalisation of C\$305 billion and coverage by more than 200 mining analysts. In 2016, the TSX/TSXV accounted for 57 per cent of all equity capital raised in the mining sector, making it the top source of investment for mining companies globally.

Final approval for the listing is conditional upon the Company satisfying the conditions and requirements imposed by the TSX. The Company will work to satisfy these conditions as quickly as possible. The listing is also subject to the final receipt and acceptance by the Ontario Securities Commission of the Company's long form non-offering prospectus, which the Company expects to file in the coming weeks. The Company will issue further press releases as appropriate.

**Mark Child, Chairman and CEO comments:** *"The TSX listing will constitute a milestone for Condor Gold, providing a local trading platform for existing and new Canadian shareholders and investors. The vast majority of mining and exploration companies operating in South America are TSX/TSXV listed and, in my opinion, Canadian investors will find Condor a compelling investment that is undervalued compared to its TSX/TSXV listed peer group; 100% ownership of a high-grade gold deposit close to permitting, which can be expanded, in a jurisdiction with a pro-mining Government."*

Condor has been engaged with the local community for several years via employment and many social programmes, from healthcare, to education to the distribution of drinking water. Over the past 18 months we have been in constructive talks with national government and, with their blessing, we are now entering direct conversation with the local community regarding key aspects of permitting. Condor is entering the final phase of its permitting process to construct a 2,800tpd processing plant with a capacity to produce 100,000 oz gold p.a. from a single open pit and continues its strategy of expanding the gold resources through drilling and proving a major gold district."

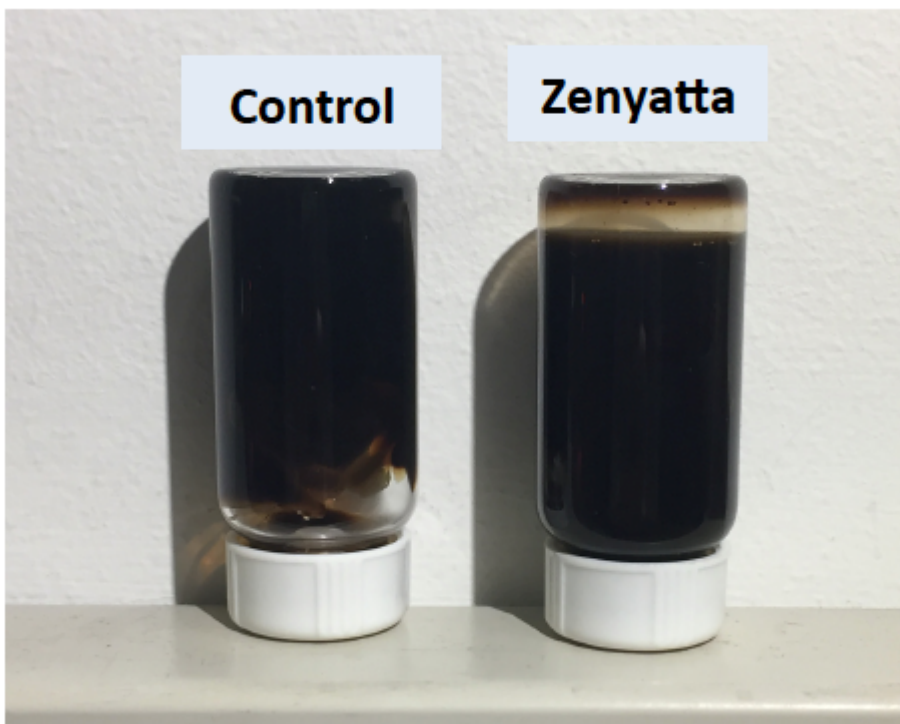
“The Company will remain listed on the AIM market of the London Stock Exchange.”

– Ends –

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## **Zenyatta's Albany graphite positive tested by Tokyo Tech**

Zenyatta Ventures {TSX.V: ZEN} have received back positive test results from a sample of their Albany pure graphite sent to be processed at the Tokyo Institute of Technology in Japan.



## **Zenyatta's Albany graphite tested by Tokyo Tech**

2017-10-19 06:02 ET – News Release

Mr. Aubrey Eveleigh reports

### **TOKYO TECH IDENTIFIES KEY REASONS FOR THE EASE & HIGH-YIELD CONVERSION OF ZENYATTA'S ALBANY GRAPHITE TO GRAPHENE**

Testing results from the Tokyo Institute of Technology in Japan have identified key reasons for the ease and high-yield conversion of Zenyatta Ventures Ltd.'s Albany graphite to graphene.

### **Research at Tokyo Technology provides exciting feedback on Zenyatta graphene.**

One of the greatest challenges for commercializing graphene in various applications, since its discovery at the University of Manchester, is how to produce high-quality material, on a large scale at low cost, in a consistent manner.

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**Dr. Yoshihiko Arao, assistant professor in the department of chemical engineering at Tokyo Tech, stated:** *"Zenyatta's high-purity graphite material was tested by our scientific team on mechanical conversion to graphene and discovered it converted much easier and with higher yields of graphene than our*

*reference material. We have tested many types of natural graphite but found Zenyatta's graphite material to have better exfoliation performance and produce better graphene particles than the reference material. We believe that this is an extraordinary, unique material and we would like to carry out further collaborative work with Zenyatta on graphene applications."*

Research by Dr. Arao and professor Dr. Masatoshi Kubouchi at Tokyo Tech has shown the following significant test results:

- D-spacing measurements of Zenyatta carbon material is relatively larger compared with three other commercially available high-purity graphite samples. D-spacing is unique to all crystals and described as the distance between two (graphene) atomic layers or interlayer spacing. The Albany graphite also exhibited some turbostratic structure or natural irregular stacking.
- Importantly, these factors have contributed to the ease of conversion and greater yield of high-quality graphene from Albany graphite. This can be attributed to the unusual geologic mode of formation (igneous hydrothermal process) which accounts for the superior purity, crystallinity and overall quality of the graphite found in this unique deposit.
- Graphene exfoliated from Albany graphite showed the highest aspect ratio with an average thickness of 1.43 nanometres or one to four graphene layers. Also, the optical absorbance of the Zenyatta graphene dispersion was two to 10 times better than the other three tested reference samples which demonstrate concentrated graphene dispersion can be obtained.
- This further confirms the reason for success on graphene development initiatives, especially in composites, from other collaborators in the United Kingdom, Canada, United States and Israel. Tokyo Tech has established

that Zenyatta's graphite converts (exfoliates) easily to graphene, producing mono-layer to tri-layer material, has excellent dispersion properties, and is highly suitable for many graphene and graphene-oxide applications.

**Aubrey Eveleigh, president and chief executive officer for Zenyatta, stated:** *"The obstacle to widespread use of graphene since discovery is the high manufacturing cost. A lower-cost and disruptive approach is to use high-purity natural graphite, like Albany material, as the starting point to get easier and higher yields of graphene in an environmentally friendly manner. We are eager to start another phase of testing at a world-class facility like Tokyo Tech using our high-purity graphite material for various innovative graphene applications."*

**Zenyatta Ventures** continues to develop its large and unique Albany graphite deposit in Ontario, Canada. The company's highly crystalline graphite deposit is situated 30 kilometres north of the Trans-Canada Highway, power line and natural gas pipeline near the communities of Constance Lake First Nation and Hearst. A rail line is located 30 km away with an all-weather road approximately 10 km from the graphite deposit. The world trend is to develop products for technological applications that need extraordinary performance using ultrahigh-purity graphite powder and graphene at an affordable cost.

Aubrey Eveleigh, PGeo, president and CEO for Zenyatta, is a qualified person for the purposes of National Instrument 43-101 and has reviewed, prepared and supervised the preparation of the technical information in this news release.

We seek Safe Harbor.

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# Tezos ICO has issues, is this a warning of things to come?

**Tezos \$XTZ** recent ICO, backed by US billionaire fund manager Tim Draper looks to be coming off the rails, and is perhaps a warning of the quality and quantity of ICO's coming to the crypto currency market.

Once easy money being made, in any market, it attracts a whole set of new people looking to take advantage, and self enrich at the expense of others.



Tezos ICO looks to have "Issues"!



The much heralded **Tezos ICO** (Initial coin offering) received a lot of publicity due to the investment by Tim Draper, a well known and respected US based Billion dollar fund manager. People assumed they were investing alongside Tim Draper, but we now know that was not the case!

Tezos, based in Zug, Switzerland, raised considerable funds in their recent ICO, around US \$250 million, that may now need to be paid back to the investors!

Many people invested in the knowledge that Tim Draper was investing, but in actual fact he was not planning to hold his investment for too long, and has already exited and doubled his money, an easy profit!

The Tezos ICO now looks to be in trouble, due to management infighting, revelations that some early stage investors have already banked their funds and left, and doubts about where some of the money was spent.

There are an abundance of ICO's underway, and one wonders how many of those are going to reward investors, and how many will reward the founders of the company?

I fear Tezos is perhaps the first of many ICO's that we will hear about as not rewarding investors, the crypto industry is new, and the large amounts of money floating around will

attract the unscrupulous sort of person that will trade on the greed of naive investors.

[To read the article in full, please click HERE](#)

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## **Barkerville sues former CEO Frank Callaghan over confidential data**

**Barkerville Gold {TSX.V: BGM}** are, according to veteran Vancouver based reporter Mike Caswell, suing former CEO Frank

Callaghan over the return of confidential data acquired from the company.

The dispute centers on a piece of ground BGM has an interest in that has now been staked and transferred to Standard Drilling, a company owned by Frank Callaghan.



**Barkerville Gold sues Callaghan over confidential data.**

[To read the article in full, please click HERE](#)

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# Eguana Technologies ship their first \$1 million order to Hawaii

**Eguana Technologies Inc. {TSX.V: EGT}** one of the leaders in power conversion and control systems for distributed energy storage, announced its first volume shipment of AC Batteries to partner EGear LLC, representing approximately \$1 million and ready for immediate installation upon receipt.



CALGARY, Alberta, Oct. 19, 2017 – **Eguana Technologies Inc. {TSX.V: EGT}** one of the leaders in power conversion and control systems for distributed energy storage, is pleased to announce its first volume shipment of AC Batteries to partner EGear LLC, representing approximately \$1 million and ready for immediate installation upon receipt. Increasing availability of backordered battery modules will also enable the Company to deliver a second volume shipment of equivalent size within the quarter with continued deliveries in 2018.

*“Installations in Hawaii have continued and are ready to scale as AC Battery supply catches up to backordered demand,” commented Justin Holland, Eguana’s Chief Executive Officer. “With the current orders backlog, and increasing sales from EGear, our expectation is to see quarter over quarter growth in Hawaii through 2018.”*

Hawaii remains committed to its 100% renewable energy by 2045 mandate. Eguana’s fully integrated and certified AC battery is available today, fully compatible with all PV systems installed or pending installation on the islands, and meets all new US interconnection requirements.

### **About Eguana Technologies Inc.**

Eguana Technologies Inc. designs and manufactures high performance power controls for residential and commercial energy storage systems. Eguana has more than 15 years’ experience delivering grid edge power electronics for fuel cell, photovoltaic and battery applications and delivers proven, durable, high quality solutions from its high capacity manufacturing facilities in Europe and North America.

With thousands of its proprietary energy storage inverters deployed in the European and North American markets, Eguana is one of the leading suppliers of power controls for solar self-consumption, grid services and demand charge applications at the grid edge.

To learn more, please visit [www.EguanaTech.com](http://www.EguanaTech.com)

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## Radisson Mining extends the Vintage Zone by 125 metres.

**Radisson Mining {TSX.V: RDS}** announced that drill hole 0B-17-48 has successfully extended the Vintage zone by additional 125 metres along strike at their O'Brien gold project.

The project is located along the Cadillac Break halfway between Rouyn-Noranda and Val d'Or in Quebec, Canada.



2017-10-18 05:21 ET – News Release

Mr. Mario Bouchard reports

**RADISSON EXTENDS THE VINTAGE ZONE TO 325 M ALONG STRIKE WITH AN INTERCEPT OF 9.7 G/T GOLD OVER 2.9 M AT THE O'BRIEN PROJECT**

Hole OB-17-48 has successfully extended the Vintage zone by additional 125 metres along strike at Radisson Mining Resources Inc.'s O'Brien gold project.

The project is located along the Cadillac Break halfway between Rouyn-Noranda and Val d'Or in Quebec, Canada. The Vintage zone is parallel to, and to the north of, the bulk of current resources at the O'Brien project. The zone is located only 85 metres north of the Cadillac Break in a context that is similar to producing and historical mines in the Cadillac mining camp. The structure has been traced by drilling on over a 325 m strike length from east to west, vertical height of up to 360 m and remains open in all directions.

**Press release highlights**

- Hole OB-17-48 extended the Vintage zone by over 125 m along strike with intercept of 9.7 grams per tonne gold over 2.9 m at 208 m below surface. Assays are pending for the final portion of hole OB-17-48.



- The Vintage zone has been traced over a strike length of 325 m and vertical height of up 360 m.
- Additional drill results are expected from hole OB-17-49 completed in vertical extension of hole OB-17-42, which returned 13.7 g/t Au over 1.5 m (see Oct. 3, 2017, press release).

**Mario Bouchard, President and Chief Executive Officer, commented:** *"Current exploration results continue to increase the overall dimension of the Vintage zone. The zone as now been traced on over 325 m and remains open in all directions. Due to its high-grade potential and proximity to current resources, the Vintage zone has the potential to be an important part of O'Brien's exploration and development plan. As we await final results from the drill program completed this summer on the Vintage zone, we are currently planning a drill program in order to test lateral and at depth extension of this zone."*

DRILLING RESULTS SUMMARY			
Drill hole	From	To	Length
Au			
(g/t)	(m)	(m)	(m)
OB - 17 - 46	86.0	88.5	2.5
4.4			
Including	88.0	88.5	0.5
15.9			
OB - 17 - 48	208.6	211.5	2.9
9.7			
OB - 17 - 48	260.0	260.5	0.5
Pending			

Results are presented as down hole widths; true widths are estimated between 55 to 70 per cent of down hole thickness.

## **Vintage zone exploration program**

As the company is waiting for final results from the drill program completed on the Vintage zone, review of current results and historical exploration programs from the Vintage zone is progressing in order to define a second phase exploration program.

The Vintage zone is a parallel zone of the O'Brien project located approximately 85 m north of the Cadillac Break in the Cadillac Group of metasediments comprising sequence of polymictic conglomerate, banded iron formation (BIF) and grauwacke. In comparison, current resources of 36E and Kewagama zones are located in the Piche group, south of the Cadillac Break. The Vintage zone saw small historical exploration programs, which were never followed upon. In 2017, the company established several high-priority exploration drill targets through historical data compilation in this area of the O'Brien gold project. The first six drill holes that tested these targets were completed over a strike length of 325 m. The new info added to the few available historical information helps to demonstrate the continuity and the favourable geometry of the Vintage zone. All intercepts remain open in all direction.

**2017 drill program completed at 20,000 metres, 10,500 metres in assays pending**

Furthermore, the company announces that it has completed the drill program planned in 2017 to approximate total of 20,000

m. The drill program was completed with two main objectives. An approximate total of 15,000 m were completed for resource expansion from surface to a depth of 500 m. As a second objective, the approximate 5,000 m exploration drill program completed, focused on high-priority exploration targets defined outside the main sector of current resources of the O'Brien gold project, including the Vintage zone.

**There are currently 20 drill holes in assays pending for a total an approximate total of 10,500 m.**

All drill cores in this campaign are NQ in size. Assays were completed on sawn half-cores, with the second half kept for future reference. The samples were analyzed using standard fire assay procedures with atomic absorption (AA) finish at Swastika Laboratories Ltd., in Swastika, Ont. Samples yielding a grade higher than 5 five g/t were analyzed a second time by fire assay with gravimetric finish at the same laboratory. Samples containing visible gold were analyzed with metallic sieve procedure. Standard reference materials and blank samples were inserted prior to shipment for quality assurance and quality control (QA/QC) program.

### **Qualified person**

Tony Brisson, PGeo, independent consultant, acts as a qualified person as defined in National Instrument 43-101, and has reviewed and approved the technical information in this press release.

**About Radisson Mining Resources Inc.**

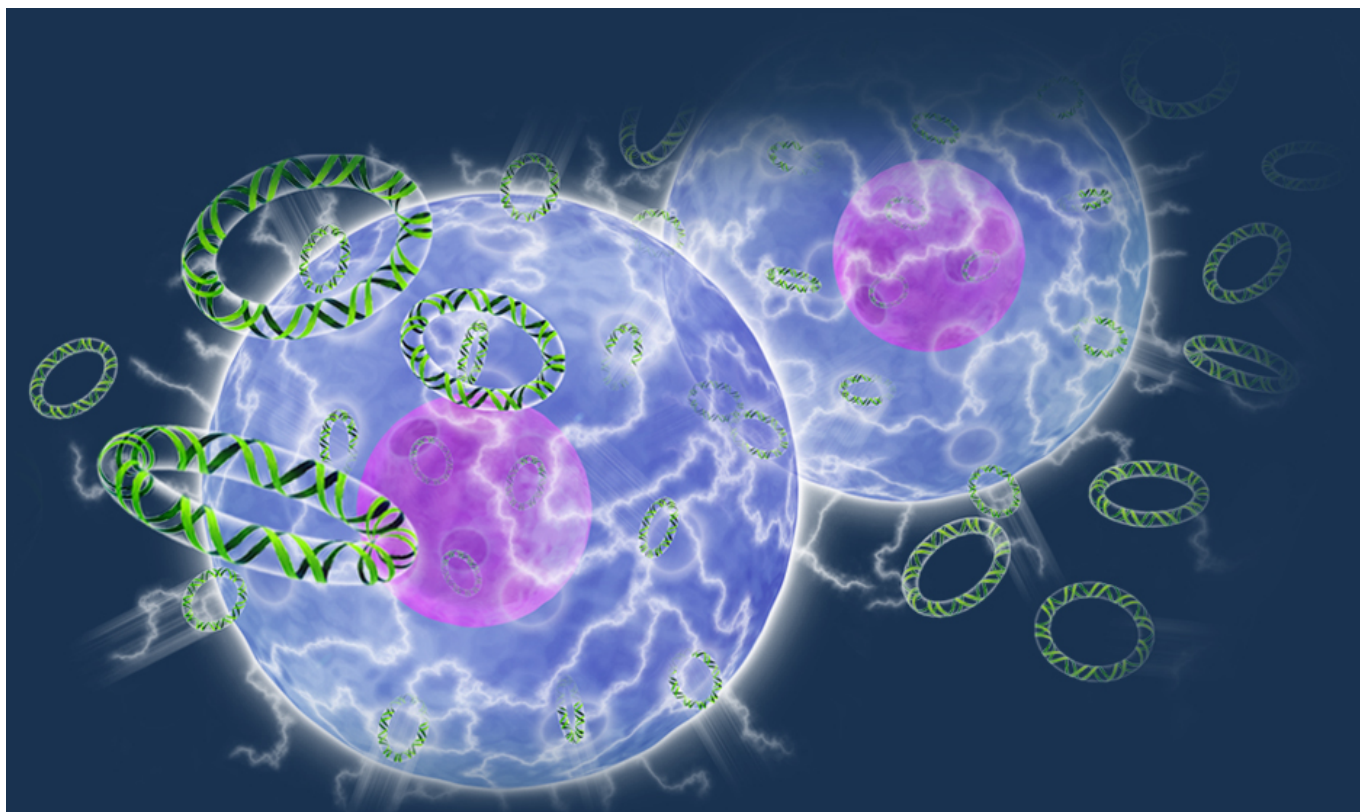
Radisson is a Quebec-based mineral exploration company. The O'Brien project, cut by the regional Larder-Lake-Cadillac fault, is Radisson's flagship asset. The project hosts the former O'Brien mine, considered to have been the Abitibi greenstone belt's highest-grade gold producer during its production (1,197,147 tonnes at 15.25 g/t Au for 587,121 ounces of gold from 1926 to 1957; InnovExplo, April, 2015).

We seek Safe Harbor.

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## **Inovio rising after hours following RBC “outperform” note**

**Inovio Pharmaceuticals {NASDAQ: INO}** rose 0.5% during trading hours, but then 2.5% after hours following publication of an RBC broker “outperform” note, based on their enthusiasm for Inovio's treatment VGX-3100 for cervical pre-cancers.



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RBC analyst Matthew Eckler says VGX-3100 could become the first such non-surgical treatment, and if successful in trials, could have “big upside”.

RBC joins a group of half-dozen other firms with coverage of INO, all in the Buy column.

Messner has a price target of \$11, implying 76% upside from today's closing price.

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## Inovio Commences Phase 1b/2 bladder cancer trial

PLYMOUTH MEETING, Pa., Oct. 16, 2017 – [Inovio Pharmaceuticals {NASDAQ: INO}](#) announced initiation of a phase 1b/2 immuno-oncology trial to evaluate Genentech/Roche's atezolizumab (TECENTRIQ®) in combination with Inovio's INO-5401, a T cell activating immunotherapy encoding multiple antigens, and INO-9012, an immune activator encoding IL-12.



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## Inovio Pharmaceuticals Begins

# Phase 1b/2 Cancer Efficacy Trial Combining Its T-cell Immunotherapy with a PD-L1 Checkpoint Inhibitor in Advanced Bladder Cancer

**Trial to evaluate Inovio's INO-5401 and Genentech's TECENTRIQ® in patients with metastatic bladder cancer**

PLYMOUTH MEETING, Pa., Oct. 16, 2017— Inovio Pharmaceuticals, Inc. ([NASDAQ:INO](#)) today announced initiation of a phase 1b/2 immuno-oncology trial to evaluate Genentech/Roche's atezolizumab (TECENTRIQ®) in combination with Inovio's INO-5401, a T cell activating immunotherapy encoding multiple antigens, and INO-9012, an immune activator encoding IL-12.

The multi-center, open-label efficacy trial will be managed by Inovio, and Genentech will supply atezolizumab. The trial will evaluate the safety, immune response and clinical efficacy of the combination therapy in approximately 80 patients with advanced bladder cancer, specifically advanced unresectable or metastatic urothelial carcinoma (UC), the most common type of bladder cancer. The majority of the patients to be enrolled in the trial will have previously received and failed to demonstrate meaningful response to an anti-PD-1 or PD-L1 checkpoint inhibitor alone. Thus the study will evaluate



potential benefit of a checkpoint inhibitor combined with a DNA-based immunotherapeutic and T cell activator within a bladder cancer patient population with very limited treatment options and poor outcomes. The immunologic analyses accompanying the study will provide further insight into mechanisms of checkpoint inhibition and T cell activation in bladder cancer.

Dr. Joaquim Bellmunt, MD, PhD, Director of Bladder Cancer Center, Dana-Farber Cancer Institute and Associate Professor, Harvard Medical School, said, "The unmet need for effective treatments for advanced UC patients remains very high even in the midst of approvals of multiple checkpoint inhibitors in this space – as only a small subset of patients respond to these therapies alone. Increasing evidence suggests that combinatorial approaches are needed to improve upon the initial success of checkpoint inhibitors; the benefit to this patient population may be significantly improved when combination therapies that also generate activated T cells are utilized. Furthermore, there is a very high need for effective treatment approaches in checkpoint-refractory patients."

**Dr. J. Joseph Kim, Inovio's President and CEO, said,** *"Combining INO-5401 with TECENTRIQ may provide a synergistic therapeutic effect as a result of generating high levels of activated T cells and simultaneously inhibiting PD-L1. Bladder cancer has often been described as an immunogenic tumor, and here our approach is to augment the anti-PD-1/PD-L1 driven efficacy by further enhancing the T cells against the tumor in a cancer antigen-specific manner. We believe we can demonstrate the immense potential of INO-5401 as a universal cancer immunotherapy to treat patients with multiple cancers."*

Nearly 430,000 new cases of urinary bladder cancer are diagnosed each year worldwide; it accounts for about 165,000 deaths worldwide annually. Advanced unresectable or metastatic UC remains a high unmet medical need as survival remains poor for most patients who experience disease progression or intolerance to treatment during or after platinum-containing chemotherapy. The approval of several checkpoint inhibitors for advanced unresectable or metastatic UC has improved response and survival rates for some patients, however, the majority of patients do not experience meaningful clinical responses to checkpoint inhibitor monotherapy.

Inovio's INO-5401, an immunotherapy encoding multiple cancer antigens (HTERT, PSMA, and WT1), is designed to generate and activate T cells to many cancer types including bladder cancer. INO-9012, a DNA-based immune activator encoding IL-12, is designed to amplify and accelerate T cell immune responses to INO-5401. Combining INO-5401/INO-9012 with atezolizumab may provide a synergistic therapeutic effect as a result of generating higher levels of activated T cells and simultaneously inhibiting PD-L1. Atezolizumab is a monoclonal antibody designed to bind with a protein called PD-L1 expressed on tumor cells and tumor-infiltrating immune cells, blocking its interactions with both PD-1 and B7.1 receptors. By inhibiting PD-L1, atezolizumab may enable the activation of T cells.

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# Neometals release updated investor presentation

**Neometals {ASX: NMT}** released an updated investor presentation on their MT. Marion lithium producing mine and other projects.

NMT's share price has risen strongly recently, but still looks undervalued compared to peers with a trailing P/E of 2.5 (lithium industry average 19.6!)



[To view the presentation please click HERE](#)

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NMT's share price has risen strongly recently, but still looks undervalued compared to peers with a trailing P/E of 2.5 (lithium industry average 19.6!)

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## Bitcoin reaches a new all time high despite political actions

**Bitcoin \$BTC** has reached another all time high, over US \$5,600!

For people that held the coin before the recent 'hard fork' which created **Bitcoin Cash \$BCH**, this equates to a fraction

under \$6,000 per coin.



**Bitcoin \$BTC** has reached another all time high, over US \$5,600! For people that held the coin before the recent 'hard fork' which created **Bitcoin Cash \$BCH**, this equates to a fraction under \$6,000 per coin.

One has to ask, with the start of actions from governments such as China, can this rise be sustained going forward, or will politics finally take down Bitcoin and replace it with a central bank issued crypto currency?

Following on from the news that the Chinese government have ordered their Bitcoin exchanges to close pronto, comes the news that South Korea has banned participation in ICO's for its citizens, and now Vladimir Putin is also said to be considering closing Russian Bitcoin exchanges.

Given that most Bitcoin are traded in China and South Korea, it does make you wonder how much longer the steep price rises

can continue, especially if Russia joins the party?

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Bitcoin's market cap is now US \$93 Billion and still rising!

On the positive side Japan is positively embracing Bitcoin and accepting it as a currency, but if the largest trading nations cease trading, surely at some point the price will have to correct?

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## **Avalon Advanced Materials issue EV industry update**

**Avalon Advanced Materials {TSX: AVL}** have issued an EV industry update, with a focus on the battery materials required, principally cobalt and lithium.

China has recently accelerated the transition to EV vehicles from the internal combustion engine.



# INDUSTRY BULLETIN: EV Sales Quotas in China to put increasing pressure on battery materials supply chain

China is the global leader in the shift towards electric vehicles (“EVs”) and is the world’s largest market for new cars. With annual sales in 2016 totalling ~24 million vehicles, if even a small percentage were EVs going forward, this will create enormous new demand for the needed battery materials – notably lithium. Recently, China has [published more information](#) on their plans to accelerate the transition from internal combustions engine (“ICE”) vehicles to EVs.

Starting in 2019, there will be a “new energy vehicles” sales quota for automakers in China of 10% of annual sales, rising



to 12% in 2020, with hefty fines if not met. As noted in the same article by Colin McKerracher, a London-based analyst at Bloomberg New Energy Finance: “This is the single most important piece of EV legislation globally.”

Considering 12% of annual sales would be an approximately 10% increase from the [1.8% market share](#) EVs presently occupy in China, this would be an increase in ~2,400,000 EVs per year sold. Translating this to raw material demand, if we assume an average of 40kWh per vehicle battery, and [0.9kg of lithium carbonate equivalent \(“LCE”\) needed per kWh](#), this would represent a further increase in global demand for LCE of approximately 86,400 tonnes, half of last year’s total lithium global market, for just one country in just three years! Remembering that any new production of the critical materials needed (such as lithium) can take upwards of five years to bring online, the supply chain will certainly be challenged to keep up with the growing demand. This should sustain strong lithium prices for years to come.

While predictions on timelines vary, the scale of the shift is undeniable. Looking ahead, consider that Volkswagen predicts a total of 1.5 terawatt-hours per year will be required within the global automotive industry by around 2030. This would represent a need for ~1,350,000 tonnes of LCE per year – about nine times the current global market. This increase in EV production would need 47 new lithium production operations at 25,000t of LCE/year each to meet these goals.

More recently, policymakers in California, where about two million cars are sold per year, announced their intention to impose [a ban on ICE vehicles](#). With these policy changes happening around the world, it was not surprising to see GM

announcing [they will produce 20 EV models by 2023](#).

The shift is on, and those moving in this direction must start to immediately plan for how they will meet their critical raw material needs. Avalon's advanced Separation Rapids Lithium Project is a leading opportunity to supply the high quality, sustainably-produced lithium needed for their current and future needs, with the potential to bring a new supply to market in less than five years.

For questions or feedback, please email Avalon at [ir@AvalonAM.com](mailto:ir@AvalonAM.com)

#### **About Avalon Advanced Materials Inc.**

Avalon Advanced Materials Inc. is a Canadian mineral development company specializing in niche market metals and minerals with growing demand in new technology. The Company has three advanced stage projects, all 100%-owned, providing investors with exposure to lithium, tin and indium, as well as rare earth elements, tantalum, niobium, and zirconium. Avalon is currently focusing on its Separation Rapids Lithium Project, Kenora, ON and its East Kemptville Tin-Indium Project, Yarmouth, NS. Social responsibility and environmental stewardship are corporate cornerstones.

[130 Adelaide St. W, Suite 1901](#)

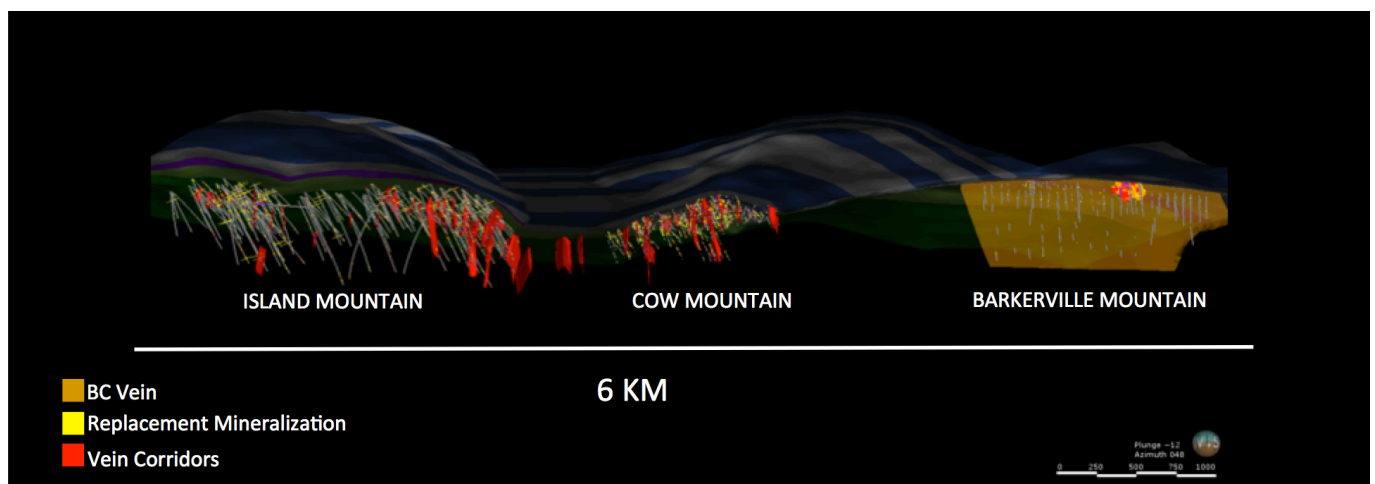
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# Barkerville Gold intersects high grade gold at the Shaft Zone.

**Barkerville Gold Mines Ltd. {TSX.V: BGM}** announced additional drilling results from the ongoing 130,000 metre Phase II Island Mountain exploration and infill drilling program at the Company's flagship Cariboo Gold Project.

The Company is currently exploring and delineating the Valley and Shaft Zones with nine drill rigs, while a tenth drill is expanding the known mineralization on the BC Vein.



## Comment

*Barkerville Gold continue to produce some high grade gold intersections in what is a truly massive drill campaign for a junior mining company.*

*They are currently running 9 drills, with a tenth expected soon! How many junior mining companies can you name that are*

*doing this amount of drilling?*

*Cow Mountain used to be the focus but now Island Mountain has become the new area of interest, and it is repaying that faith in spades.*

## NEW BETA CORRIDOR INTERSECTION – 87.66 G/T AU OVER 5.30 METRES

**TORONTO, ON – October 11<sup>th</sup>, 2017 – Barkerville Gold Mines Ltd. (TSX.V: BGM)** is pleased to announce additional drilling results from the ongoing 130,000 metre Phase II Island Mountain exploration and infill drilling program at the Company's flagship Cariboo Gold Project.

The Company is currently exploring and delineating the Valley and Shaft Zones with nine drill rigs, while a tenth drill is expanding the known mineralization on the BC Vein. Detailed drilling results, a drill hole location plan map and vertical sections are presented at the end of this release. The exact geometry and hence true width of the mineralised zones cannot be assuredly concluded at this time therefore core lengths are reported.

### Highlights:

- **IM-17-145: 20.53 g/t Au over 11.60 metres**
- **IM-17-145: 87.66 g/t Au over 5.30 metres**
- **IM-17-145: 17.34 g/t Au over 7.05 metres**
- **IM-17-162: 13.58 g/t Au over 4.00 metres**
- **IM-17-163: 11.21 g/t Au over 4.65 metres**
- **IM-17-163: 13.71 g/t Au over 7.70 metres**

### Veining Corridors Continue to Expand

A newly defined veining corridor, the **Beta Corridor**, has been extended via the intersection of **20.53 g/t Au over 11.60 metres** and **87.66 g/t Au over 5.30 metres** at vertical depths of 365 and 415 metres below surface in Phase II drillhole IM-17-145.

These new extensions occur 65 metres along vein strike to the northeast of previously reported drillholes IM-17-134 and IM-17-143 which intersected **53.26 g/t Au over 11.55 metres** and **7.09 g/t Au over 34.30 metres** respectively. The new Beta Corridor pierce points defined by IM-17-145 are untested along vein strike and down dip.

Another newly evolving vein network, the **Gamma Corridor**, was also expanded at a vertical depth of 590 metres below surface by IM-17-145 having intersected **17.34 g/t Au over 7.05 metres**. This pierce point is situated 120 metres down plunge of previously reported drillhole IM-17-124 which intersected **12.76 g/t Au over 25.40 metres**. Again, this new intersection in the Gamma Corridor is untested at depth and along vein strike.

**Chris Lodder, President and CEO comments,** "As we continue to infill the Shaft Zone we see that there are new parallel corridors starting to be defined in close proximity. Thus, the exploration group has begun identifying these corridors as Alpha, Beta and Gamma and will continue with this nomenclature as new ones develop. The Shaft Zone drilling firmly demonstrates the internal continuity as well as the exploration potential and predictability of the veining networks in undrilled areas".

### Shaft Zone – Corridors Discussion

The sandstone hosted veining which constitutes the newly named Alpha, Beta and Gamma Corridors of the Shaft Zone are manifested as an anastomosing network of high vein density with an overall sub-vertical dip and northeast strike. Based upon drilling results to date, estimated horizontal widths of the corridors are variable and range from 5 to 35 metres. These corridors, as well as others that are developing in the Shaft and Valley Zones have been defined from surface to a vertical depth of 600 metres and remain open for expansion to depth and down plunge.

Drillhole spacing in the corridors currently averages 25 metres between drilling sections with vertical drilling separations ranging from 20 to 75 metres with hole spacing increasing to depth. Gold grades are intimately associated with vein-hosted pyrite as well as pyritic, intensely silicified wall rock haloes in close proximity to the veins.

### Qualified Persons

Exploration activities at the Cariboo Gold Project are administered on site by the Company's Exploration Manager, Maggie Layman, P.Geo. As per National Instrument 43-101 Standards of Disclosure for Mineral Projects, Paul Geddes, P.Geo. Vice President Exploration, is the Qualified Person for the Company and has prepared, validated and approved the technical and scientific content of this news release. The Company strictly adheres to CIM Best Practices Guidelines in conducting, documenting, and reporting its exploration activities on the Cariboo Gold Project.

### Quality Assurance – Quality Control

Once received from the drill and processed, all drill core samples are sawn in half, labelled and bagged. The remaining drill core is subsequently stored on site at the Company's secure facility in Wells, BC. Numbered security tags are applied to lab shipments for chain of custody requirements. The Company inserts quality control (QC) samples at regular intervals in the sample stream, including blanks and reference materials with all sample shipments to monitor laboratory performance. The QAQC program was designed and approved by Lynda Bloom, P.Geo. of Analytical Solutions Ltd., and is overseen by the Company's Qualified Person, Paul Geddes, P.Geo, Vice President Exploration.

Drill core samples are submitted to ALS Geochemistry's analytical facility in North Vancouver, British Columbia for preparation and analysis. The ALS facility is accredited to the ISO/IEC 17025 standard for gold assays and all analytical methods include quality control materials at set frequencies with established data acceptance criteria. The entire sample is crushed and 250 grams is pulverized. Analysis for gold is by 50g fire assay fusion with atomic absorption (AAS) finish with a lower limit of 0.01 ppm and upper limit of 100 ppm. Samples with gold assays greater than 100 ppm are re-analysed using a 1,000g screen metallic fire assay. A selected number of samples are also analyzed using a 48 multi-elemental geochemical package by a 4-acid digestion, followed by Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES) and Inductively Coupled Plasma Mass Spectroscopy (ICP-MS).

For further information on Barkerville Gold Mines Ltd. please contact:

**Chris Lodder** President & Chief Executive Officer

**About Barkerville Gold Mines Ltd.** The Company is focused on developing its extensive land package located in the historical Cariboo Mining District of central British Columbia. Barkerville's mineral tenures cover 2,110 square kilometres along a strike length of 67 kilometres which includes several past producing hard rock mines of the historic Barkerville Gold Mining Camp near the town of Wells, British Columbia. The QR Project, located approximately 110 kilometres by highway and all weather road from Wells was acquired by Barkerville in 2010 and boasts a fully permitted 900 tonne/day gold milling and tailings facility. Test mining of the Bonanza Ledge open pit was completed in March of 2015 with 91,489 tonnes of material milled producing 25,464 ounces of gold. The Company has completed several drilling and exploration programs over the past 20 years and has compiled this data with all historical information in order develop geologic models which are assisting management in defining new deposits in the Cariboo Gold Project. An extensive drill program is currently underway with the goal of delineating additional high grade gold mineralization.

### Cautionary Statement on Forward -Looking Information

Neither the TSX Venture Exchange ('TSXV') nor its Regulation Services Provider (as that term is defined in the policies of the TSXV) accepts responsibility for the adequacy or accuracy of this release. No stock exchange, securities commission or other regulatory authority has approved or disapproved the information contained herein. This news release contains forward-looking information which is not comprised of historical facts. Forward-looking information involves risks, uncertainties and other factors that could cause actual events, results, performance, prospects and opportunities to differ materially from those expressed or implied by such forward-looking information. Forward looking information in this news release includes, but is not limited to, the Company's objectives, goals or future plans, statements regarding exploration results and exploration plans. Factors that could cause actual results to differ materially from such forward-looking information include, but are not limited to, capital and operating costs varying significantly from estimates, the preliminary nature of metallurgical test results, delays in obtaining or failures to obtain required governmental, environmental or other project approvals, uncertainties relating to the availability and costs of financing needed in the future, changes in equity markets, inflation, fluctuations in commodity prices, delays in the development of projects and the other risks involved in the mineral exploration and development industry, and those risks set out in the Company's public documents filed on SEDAR. Although the Company believes that the assumptions and factors used in preparing the forward-looking information in this news release are reasonable, undue reliance should not be placed on such information, which only applies as of the date of this news release, and no assurance can be given that such events will occur in the disclosed time frames or at all. The Company disclaims any intention or obligation to update or revise any forward-looking information, whether as a result of new information, future events or otherwise, other than as required by law.

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# Scorpio Gold Announces Positive FS for Processing the Heap Leach Mineral Resource at Mineral Ridge

**Scorpio Gold Corp. {TSX V: SGN}** announced the results of a positive feasibility study to reprocess the heap leach residual material at its Mineral Ridge property, located in Esmeralda County, Nevada.

Scorpio Gold holds a 70% interest in the project with joint venture partner Elevon, LLC (30%).



## **Scorpio Gold Announces Positive Feasibility Study for Processing the Heap Leach Mineral Resource at Mineral Ridge**

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Vancouver, October 10, 2017 – **Scorpio Gold Corporation** (“**Scorpio Gold**” or the “**Company**”) (TSX V:SGN) is pleased to announce the results of a positive feasibility study (“the Project”) to reprocess the heap leach residual material at its Mineral Ridge property, located in Esmeralda County, Nevada. Scorpio Gold holds a 70% interest in the project with joint venture partner Elevon, LLC (30%).

**Brian Lock, Interim CEO** comments, “I would first like to take this opportunity to thank Novus Engineering Inc. (“Novus”), Mine Technical Services (“MTS”), NewFields and our Scorpio Gold employees for their dedicated effort in completing this study. The combined effort of all parties involved produced a very thorough study of our Mineral Ridge heap leach resource and proposed milling facility. This economically positive study provides the foundation for recovering a substantial portion of the 122,000 ounces of gold resources contained on the heap leach pad. This project, when completed, will provide Mineral Ridge with five years of additional of mine life. Additionally, due to higher expected recovery rates provided by the new milling circuit, the Company is proceeding with a third-party analysis of its other known mineral resources. When complete, and if determined economically viable, this study should add additional reserves and further extend the Mineral Ridge life of mine. Further exploration at Mineral Ridge may also add additional resources.”

## Feasibility Study Description

About 68% recovery of gold was realized from the previous heap leach operations at Mineral Ridge. Sonic core drilling was completed to create a mineral resource estimate from the heap pad, which was previously issued by MTS on July 12, 2017. Independent testing of the residual heap leach material indicates 91% recovery by further grinding the heap material and reprocessing using the carbon-in-leach ("CIL") process. Novus was engaged by Scorpio Gold to design a processing facility and develop capital expenditure ("CAPEX") and operating expenditure ("OPEX") estimates related to the new processing facility. NewFields developed the methodology for "mining" the heap residual material and for returning the tailings material from the processing facility to the lined pad. NewFields also provided the CAPEX and OPEX estimates related to the mining and filtered-tailings placement activities. Scorpio Gold provided information on the balance of project costs and general and administrative cost estimates.



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# Neometals responds to an ASX price rise query

**Neometals {ASX: NMT}** has been requested whether they know of any reason for the reason volume and price increase in their share price by the Australian Stock Exchange.



**Neometals {ASX: NMT}** has been requested whether they know of any reason for the reason volume and price increase in their share price by the Australian Stock Exchange.

The company have responded that they have noted an increase in interest in lithium companies across the board, and that may

be the reason for the recent price gains.

Given that NMT have recently been around the 50c mark, and the lithium price and their deal with Ganfeng Lithium of China have improved since then, perhaps the ASX should be asking them why the price is so low?

NMT could receive around AUS \$20 million next financial year, that puts the PE on a very low rating indeed, and all the rest in for free!

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## **Bitcoin price rising again after the recent Chinese government clampdown**

**Bitcoin \$BTC** is rising in price again after the recent setback prompted by the Chinese government ordering local Bitcoin

exchanges to close.

There is a danger of the “cobra effect” if people take risks to circumvent the new rules.

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**Will the Chinese government’s actions have unintended consequences?**

**Bitcoin \$BTC** has recently fallen back form the highs, and become rangebound, after the Chinese government announced they were ordering local Bitcoin exchanges to close, seemingly in a desperate attempt to restrict currency flight.

Other commentators suggest the government is trying to protect their citizens from making losses with Bitcoin trading, but I don’t buy that idea, I think it is capital flight that is their chief concern, and Bitcoin facilitates a way around their rules, anonymously.

Frequently when governments tinker with markets, the law of unintended consequences comes into play, and you wonder whether this will occur here too?

Currently Chinese citizens can trade their coins/tokens in regulated exchanges, so have a good degree of security over their funds. Given the massive gains made in the price of Bitcoin recently, and the Chinese propensity for gambling, it's not a hard stretch of the imagination to predict they will seek to workaround the exchange ban and find another way of trading the coins.

This if course will be less or not secure at all, and therefore if the government's actions are indeed to protect their citizens, they could in fact jeopardise their investment by making them trade off exchange in an unregulated environment.

The "cobra effect" could come into play here, government meddling in the markets inevitably has unintended consequences, and it's easy to see what they might be here.

I believe the Chinese government have made a mistake in closing their crypto exchanges, but the anonymity of the transactions forced their hand. They may not be the last government to take this action either, I can see the USA taking some action against crypto in a similar fashion in order to regulate and tax it.

The consequences for the people of China will be realised in due course, but it's difficult to see a positive outcome, and I fear many small Chinese investors being defrauded in some dark trading zone run by the unscrupulous.

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## **Condor Gold announce new surface rock chip results from La India Project**

**Condor Gold {AIM: CNR}** announced new rock chip samples from their La India project, Leon, Nicaragua, including 37 g/t gold from Mestiza and 23.8 g/t from Andrea.

Still no word from the company regarding the protests against the mine by the local population.



**New surface rock chip results from La India Project, including 37 g/t gold from Mestiza and 23.8 g/t from Andrea. Three known zones of mineralisation expanded.**

**Condor Gold (AIM: CNR)** is pleased to announce new rock chip results from the La India Project, Nicaragua, and results of detailed geological mapping, which expand three areas of known gold mineralisation. In line with the Company's strategy of proving a major gold district at the La India Project, 200 new samples have been taken from the Mestiza, Cacao and Andrea areas

All three areas have been drilled since December 2016 and these samples were collected to help extend laterally the known vein mineralisation and plan step-out drilling. Mapping was carried out at the same time.

### **Highlights:**

- Surface rock chip sampling has produced results of up to 37 grams per tonne ('g/t') gold from Mestiza, up to 24 g/t gold on Andrea and up to 16 g/t gold on Cacao.
- Geological mapping has demonstrated potential extensions to known vein mineralisation at all three targets.
- The three main veins on the Mestiza vein set: Tatiana, Jícaro and Buenos Aires, appear to coalesce into a single northwest-striking vein.
- Trenching and mapping are now underway on Mestiza, aimed at identifying drill targets, which may contain additional high-grade oreshoots similar to Big Bend, a potential high-grade oreshoot within the Tatiana vein.
- The Cacao vein appears to have a concealed extension to the east and is potentially at least twice as long as previously thought.

**Mark Child, Chairman and CEO, comments:** *'Condor continues its strategy of proving a major gold district at the La India Project. Mapping and rock sampling by our experienced senior geologists has produced high grade gold results of 37 g/t, 24 g/t and 16 g/t gold in three new areas, along strike from known mineralisation at Mestiza, Andrea and Cacao, which provides excellent upside potential. Furthermore, recent drilling by Condor at Mestiza increasingly demonstrates the importance of high-grade 'oreshoots' within long, relatively continuous veins. These offer the best chance of adding high-grade economic ounces to the global resource at La India Project.*

*Surface rock chip sampling and trenching are the best tools at*

*our disposal to follow up on targets identified by geophysics, geochemistry and a structural model, before making a drill decision. The northwest extension of Mestiza, where veins coalesce and intersect, is now a high priority, as is the eastern, concealed, extension of Cacao.'*

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## **Wesdome resumes the ramp development at Kiena**

**Wesdome {TSX.V: WDO}** confirms that work has resumed at their Kiena complex after the recent suspension due to the fatality of a contractor in September.





## WESDOME ANNOUNCES RESUMPTION OF RAMP DEVELOPMENT AT KIENA COMPLEX

The site investigation in connection with the fatality of a mining contractor on Sept. 9, 2017, has concluded, and all activities at Wesdome Gold Mines Ltd.'s Kiena complex have resumed.

**Duncan Middlemiss, chief executive officer, commented:** *"All required equipment has been reactivated underground and development of the exploration ramp recommenced today. We expect to have the first drill bay completed to test the Kiena Deep discovery within the next few weeks. In the meantime, we continue to drill near-mine, auxiliary targets such as the VC and S50 zones. We continue to collaborate with CNESST on the outstanding matters related to the investigation."*

### **About Wesdome Gold Mines Ltd.**

Wesdome Gold Mines is 100 per cent Canadian focused with a pipeline of projects in various stages of development. The Eagle River complex in Wawa, Ont., is currently producing gold

from two mines, the Eagle River underground mine and the Mishi open pit, from a central mill.

Wesdome is actively exploring its brownfields asset, the Kiena complex in Val d'Or, Que. The company has further upside at its Moss Lake gold deposit, located 100 kilometres west of Thunder Bay, Ont., which is being explored and evaluated to be developed in the appropriate gold price environment.

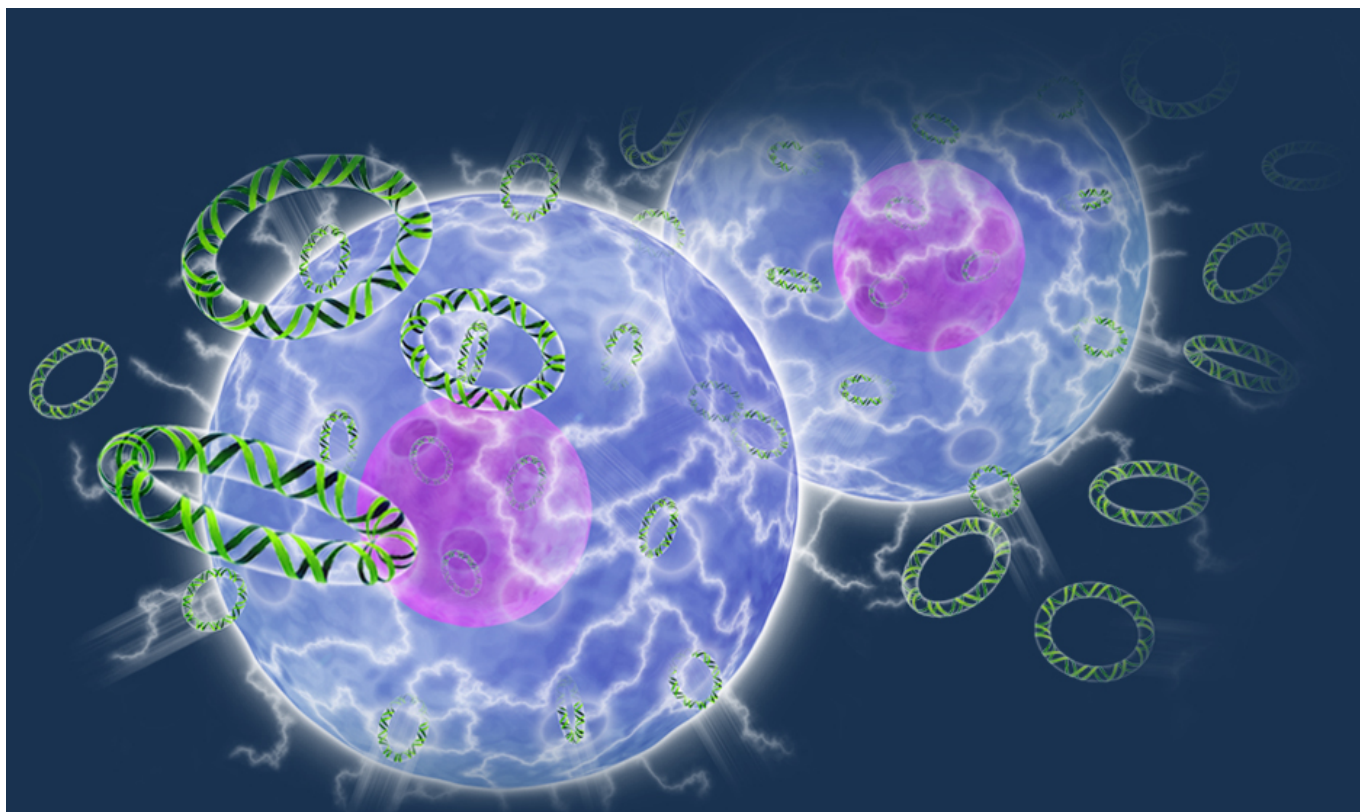
We seek Safe Harbor.

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## **Inovio's Positive Zika Vaccine Study Data Published in New England Journal of Medicine**

**Inovio Pharmaceuticals, Inc. {NASDAQ:INO}** reported today on positive safety and immune response results from a first-in-man, multi-center phase 1 trial of a vaccine against the Zika virus.

The phase 1 trial of Inovio's DNA-based Zika vaccine (GLS-5700) induced high levels of binding antibodies in 100% of participants.



## **Inovio's Positive Zika Vaccine Clinical Study Data Published in New England Journal of Medicine**

**Phase 1 results show GLS-5700 induced high levels of antibodies in 100% of participants; Serum from vaccinated subjects prevented infection in virus challenge in animals**

PLYMOUTH MEETING, Pa., October 5, 2017 – [Inovio Pharmaceuticals, Inc. \(NASDAQ:INO\)](#) reported today on positive safety and immune response results from a first-in-man, multi-center phase 1 trial of a vaccine against the Zika virus. The phase 1 trial of Inovio's DNA-based Zika vaccine (GLS-5700) induced high levels of binding antibodies in 100% of participants. Robust neutralising antibody and T cell immune response were also observed in vaccinated subjects. These positive results appear in the New England Journal of Medicine

in the article: "Safety and Immunogenicity of an Anti-Zika Virus DNA Vaccine," by Inovio researchers and collaborators.

**Dr. J. Joseph Kim, Inovio's President and CEO, said, "Inovio is the first organisation in the world to report on positive Zika vaccine data from a clinical study. We've posted similar encouraging HIV, Ebola and MERS vaccine data arising from our product development engine of DNA-immunotherapies and vaccines. Results from this published study demonstrate that all human subjects responded to the vaccine and that the immune responses have the ability to confer protection in challenge models. A second phase 1 study, now fully enrolled in Puerto Rico, is designed with a placebo control to explore a potential trend towards clinical efficacy. Inovio is proud to be a pioneer of Zika vaccine development, and the first to generate positive human data that clearly supports advancement of DNA technology and our vaccine candidate."**

In this phase 1 study (ZIKA-001), a total of 40 participants (20 in each of two groups) received GLS-5700 in a 1 mg or 2 mg dose. The vaccine was administered in 0.1 ml intradermal injections administered by Inovio's CELLECTRA® 3P skin vaccine device. The GLS-5700 Zika vaccine induced binding antibodies in 100% of the participants after a three-dose vaccination regimen and in 95% after two doses of vaccine. In addition, neutralizing antibodies were observed in more than 95% of the serum samples that were assayed on neuronal-cell targets. Serum samples from vaccinated subjects when subsequently transferred to mice were found to be protective from death and illness in more than 90% of animals after they were challenged with a lethal dose of the Zika virus.

Inovio's second fully enrolled clinical study is a placebo-controlled, double-blind trial involving 160 healthy adult volunteers (80 subjects received vaccine and 80 subjects

received placebo) to evaluate the safety, tolerability and immunogenicity of GLS-5700 in dengue virus-positive individuals. Inovio will also assess differences in Zika infection rates in participants given either placebo or vaccine as part of an exploratory efficacy endpoint.

Preclinical data published in the peer-reviewed journals *npg Vaccines* (2016) and *Nature Communications* (2017) showed that Inovio's Zika vaccine generated single-dose protection in 100% of mice and non-human primates from death as well as neurologic or testicular effects of the Zika virus.

Inovio is developing its Zika vaccine, GLS-5700, with GeneOne Life Science, Inc. (KSE: 011000) and academic collaborators from the U.S. and Canada who are also collaborating to advance clinical development of Inovio's Ebola and MERS vaccines.

A recent CDC study found that upwards of 5% of children born to pregnant women with Zika infection had abnormalities and these were noted even with infections as late as the third trimester. Babies born with congenital Zika syndrome resulting from Zika infection of an expectant mother often have severe microcephaly, a neurological condition in which babies are born with abnormally small heads. Other abnormalities include diminished brain tissue and eye damage, as well as restricted joint movement and rigid muscle tone. Recent research suggests they may also suffer hearing problems and seizure disorders such as epilepsy.

There is no approved therapy or vaccine for Zika infection, presenting a major unmet medical need given that the World Health Organization estimates that more than two billion people are directly at risk for infection. Importantly, infection with the Zika virus during pregnancy can cause a

pattern of birth defects including microcephaly.

### **About Inovio's DNA Immunotherapy Technology Platform**

Inovio is advancing the medical potential of a unique class of immunotherapy technology. Its DNA-based platform, which is the foundation of all Inovio products, including GLS-5700, is unique in its ability to leverage the body's naturally existing mechanisms to generate robust, highly targeted immune responses to prevent and treat disease – and to do so in the body with a favorable safety profile. Its SynCon® immunotherapy design and CELLECTRA® delivery system transform novel genetic blueprints into functional antibody and killer T-cell responses. Inovio has achieved significant antigen-specific immune responses against multiple diseases and is advancing a growing pipeline of cancer and infectious disease immunotherapies and vaccines.

### **About Inovio Pharmaceuticals, Inc.**

Inovio is taking immunotherapy to the next level in the fight against cancer and infectious diseases. We are the only immunotherapy company that has reported generating T cells in vivo in high quantity that are fully functional and whose killing capacity correlates with relevant clinical outcomes with a favorable safety profile. With an expanding portfolio of immune therapies, the company is advancing a growing preclinical and clinical stage product pipeline. Partners and collaborators include MedImmune, Regeneron, Genentech, The Wistar Institute, University of Pennsylvania, DARPA, GeneOne Life Science, Plumblin Life Sciences, ApolloBio Corporation, Drexel University, NIH, HIV Vaccines Trial Network, National Cancer Institute, U.S. Military HIV Research Program, and Laval University.

For more information, please visit [www.inovio.com](http://www.inovio.com)

**CONTACT:** Jeff Richardson, [jrichardson@inovio.com](mailto:jrichardson@inovio.com)

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*This press release contains certain forward-looking statements relating to our business, including our plans to develop electroporation-based drug and gene delivery technologies and DNA vaccines, our expectations regarding our research and development programs, including the planned initiation and conduct of clinical trials and the availability and timing of data from those trials, and the sufficiency of our capital resources. Actual events or results may differ from the expectations set forth herein as a result of a number of factors, including uncertainties inherent in pre-clinical studies, clinical trials and product development programs, the availability of funding to support continuing research and studies in an effort to prove safety and efficacy of electroporation technology as a delivery mechanism or develop viable DNA vaccines including GLS-5700, our ability to support our pipeline of SynCon® active immunotherapy and vaccine products, the ability of our collaborators to attain development and commercial milestones for products we license and product sales that will enable us to receive future payments and royalties, the adequacy of our capital resources, the availability or potential availability of alternative therapies or treatments for the conditions targeted by the company or its collaborators, including alternatives that may be more efficacious or cost effective than any therapy or treatment that the company and its collaborators hope to develop, issues involving product liability, issues involving patents and whether they or licenses to them will provide the company with meaningful protection from others using the covered technologies, whether such proprietary rights are enforceable or defensible or infringe or allegedly infringe on rights of others or can withstand claims of invalidity and whether the company can finance or devote other significant resources that may be necessary to prosecute, protect or defend them, the level of corporate expenditures, assessments of the company's technology by potential corporate or other partners or collaborators, capital market conditions, the*

impact of government healthcare proposals and other factors set forth in our Annual Report on Form 10-K for the year ended December 31, 2016, our Form 10-Q for the period ended June 30, 2017, and other regulatory filings we make from time to time. There can be no assurance that any product candidate in Inovio's pipeline will be successfully developed, manufactured or commercialized, that final results of clinical trials will be supportive of regulatory approvals required to market licensed products, or that any of the forward-looking information provided herein will be proven accurate. In addition, the forward-looking statements included in this press release represent Inovio's views as of the date hereof. Inovio anticipates that subsequent events and developments may cause its views to change. However, while Inovio may elect to update these forward-looking statements at some point in the future, the company specifically disclaims any obligation to do so, except as may be required by law. These forward-looking statements should not be relied upon as representing Inovio's views as of any date subsequent to the date of this release.

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