...turning zinc experience into success at the district scale, high grade, Kilbricken discovery in Ireland....
Disclaimer

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Qualified Person: The qualified person for Hannan’s projects, Michael Hudson, CEO for Hannan, and a Fellow of the Australasian Institute of Mining and Metallurgy, has reviewed and verified the contents of this presentation.

16 Jan 2017
Why Hannan Metals?

- **100% ownership** of the flagship high-grade Kilbricken Zn-Pb-Ag-Cu discovery in Ireland;
  - Intersections include **DH46: 20.5m @ 7.5% Zn, 9.9% Pb, 0.07% Cu, 74.6g/t Ag**, 
  - New copper zone discovery at end of last drill program, includes drill hole **DH167: 4.5m @ 0.8% Zn, 2.6% Pb, 18.91% Cu, 867.6g/t Ag**

- Zinc has **tight supply fundamentals**, due to falling production, subdued discovery and increasing demand. Zinc price doubled in 2016;

- Ireland is a **leading global jurisdiction** for zinc mining and exploration
  - Ranked first in the world in terms of zinc discovered per square kilometre, and second in the world with respect to lead.
  - In 2015, Ireland was the world’s 10th largest zinc producing nation with 230,000 tonnes produced.

- Exploration and management team with **decades of zinc exploration experience** for a zinc major (Pasminco), including for “Irish-type” deposits;

- New story, with **a major project in the hands of a tightly held, well structured junior company**.
<table>
<thead>
<tr>
<th><strong>Corporate Metrics</strong></th>
<th><strong>Hannan</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TSX.V:</strong></td>
<td>HAN</td>
</tr>
<tr>
<td><strong>INSIDERS:</strong></td>
<td>42%</td>
</tr>
<tr>
<td><strong>SHARES ON ISSUE:</strong></td>
<td>21.6 M</td>
</tr>
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<td><strong>FULLY DILUTED:</strong></td>
<td>24.0 M</td>
</tr>
<tr>
<td><strong>RECENT PRICE:</strong></td>
<td>$0.35</td>
</tr>
<tr>
<td><strong>52 WK HIGH/LOW:</strong></td>
<td>$0.04/0.35</td>
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<tr>
<td><strong>MARKET CAP:</strong></td>
<td>C$ 7.6 M</td>
</tr>
<tr>
<td><strong>CASH:</strong></td>
<td>C$ 0.2 M</td>
</tr>
<tr>
<td><strong>ENTERPRISE VALUE:</strong></td>
<td>C$ 7.4 M</td>
</tr>
<tr>
<td><strong>WARRANTS:</strong></td>
<td></td>
</tr>
<tr>
<td>277,250 @ $0.40 exp. Aug 2018</td>
<td></td>
</tr>
<tr>
<td>112,500 @ $0.40 exp. Aug 2018</td>
<td></td>
</tr>
<tr>
<td>118,950 @ $0.20 exp. Nov 2018</td>
<td></td>
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<tr>
<td>775,000 @ $0.10 exp. Mar 2020</td>
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<td><strong>OPTIONS:</strong></td>
<td></td>
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<tr>
<td>30,000 @ $0.10 exp. Dec 2018</td>
<td></td>
</tr>
<tr>
<td>1,071,000 @ $0.10 exp. Nov 2021</td>
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</tbody>
</table>

Hannan takes its name from Paddy Hannan, the discoverer of the famous Kalgoorlie goldfield in Western Australia. Hannan was born in 1840 and raised in Quin, County Clare, which is now located in Hannan current PL’s.
Management Team

DIRECTORS

Michael Hudson (CEO): B.Sc., MBA, FAusIMM, MAIG
During a career spanning 26 years Mr Hudson has developed/financed exploration properties worldwide. Following ten years exploring and developing zinc-lead projects with Pasminco Ltd, the largest global integrated zinc producer at the time, he progressed to the junior mining sector. As Founder and Director of companies including Mawson Resources Ltd (TSX:MAW) and Leading Edge Materials Corp (TSXv:LEM), Mr Hudson has delivered both exploration and commercial success.

Nick DeMare (CFO): CPA, CA

David Henstridge: FAusIMM, MAIG

Harvey Lim: B.Com, CPA, CA

Michael Innacone: B.Com, CPA, CA

MANAGEMENT TEAM

Lars Dahlenborg (VP Exploration): M.Sc, MAIG, MAUSIMM
Exploration geologist with 10 years experience in Sweden, Finland, Peru and Australia. He has been critical to advancement on recent discoveries including the Rompas-Rajapalot gold project in northern Finland and the Norra Kärr HREE deposit in Southern Sweden.

Mariana Bermudez (Corporate Secretary)

Mikael Ranggård (Legal Advisor): LLB

Hannan is managed by a group with careers built in the zinc industry. In recent years, the group has raised more than US$100M for European exploration and development. With a track record of success, and significant experience in gaining social licence to operate, Hannan is well place for continued growth.

The old Kilbricken Mine, a Victorian era Pb-Zn mine worked 1854-1854. A Cornish Engine House is still visible today.
Why Zinc?

- Zinc has **tight supply fundamentals**, due to falling production, subdued discovery and increasing demand;
- **Zinc price doubled in 2016** to over US$2700/T, while smelter treatment charges halved due to greater competition for concentrate;
- Global demand for zinc is expected to continue to grow at 5% per annum, as demand for higher performance alloys and steels increases;
- **Closure of the major zinc mines** Century (Aus) and Lisheen (Ire) has seen global zinc mine output drop up to 10% year on year;
- Zinc exploration has been limited over the past 30 years, with **few high quality, large, or well located deposits** to replace this lost production;
- Recent zinc discoveries (Arizona Mining; Nevada Zinc; Trevali Mining; Ivanhoe Mines) have been well received by market;

**Zinc is a key industrial metal, relied upon since its discovery around 200 B.C. when it was alloyed with copper to form brass. Today, zinc is essential as a galvanizing material to protect steels, but is also widely used in die casting, brass, batteries and even as an additive to fertilizers to improve crop growth and human health.**

Source: CRU, Macquarie Research, June 2016
The Facts on Zinc

Zinc is a metal for the majors, with large discoveries as targeted by Hannan Metals, prone for takeover. Annual zinc production totals approximately 14 million tonnes. Major mines operating are:

<table>
<thead>
<tr>
<th>Name</th>
<th>Country</th>
<th>Owner</th>
<th>T Zn Mined 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Dog</td>
<td>USA</td>
<td>Teck</td>
<td>567,000</td>
</tr>
<tr>
<td>Rampura Ag.</td>
<td>India</td>
<td>Vedanta</td>
<td>510,000</td>
</tr>
<tr>
<td>Mount Isa</td>
<td>Australia</td>
<td>Glencore</td>
<td>478,000</td>
</tr>
<tr>
<td>McArthur Riv.</td>
<td>Australia</td>
<td>Glencore</td>
<td>272,000</td>
</tr>
<tr>
<td>Antamina</td>
<td>Peru</td>
<td>Glencore/BHP</td>
<td>191,000</td>
</tr>
<tr>
<td>Cerro Lindo</td>
<td>Peru</td>
<td>Votorantim</td>
<td>177,000</td>
</tr>
<tr>
<td>Penasquito</td>
<td>Mexico</td>
<td>Goldcorp</td>
<td>176,000</td>
</tr>
<tr>
<td>Tara</td>
<td>Ireland</td>
<td>Boliden</td>
<td>133,000</td>
</tr>
</tbody>
</table>

Zinc consumption by first use, demonstrating the importance of the growing galvanizing market.

Month on Month Zinc Production has fallen significantly from 2015. Two major mines have closed due to depleted resources.

Source: CRU, Macquarie Research, June 2016
Recent Trend in Zinc and Copper Price/Stocks

5 Year Zinc Spot

5 Year Copper Spot

5 Year LME Zinc Warehouse Stocks Level

5 Year LME Copper Warehouse Stocks Level
Why Ireland?

- Ireland is the largest producer of zinc in Europe, and **the tenth largest producer of zinc in the world**. 230,000 tonnes of zinc were mined in 2015;
- Deposits are of style **attractive to underground mining by major companies**. The world’s largest zinc producing companies are all claim holders;
- “Irish Type” Carbonate Hosted, deposits tend to be large and high grade **often >10% Zn+Pb**;
- Ireland is a stable jurisdiction, with low tax corporate rates (25%), extensive infrastructure, and skilled people. **The country is poised for the next round of major discoveries** below 200 m using modern exploration techniques;

In 2015, Ireland was ranked 4th most attractive exploration location by the Fraser Institute “Survey of Mining Companies;”

Survey of Mining Companies 2015
Ireland is ranked first in the world for zinc discovered per square km, and second for lead;

Since 1960, 15 “Irish-type” deposits with >1 Mt zinc/lead ore have been discovered, including the world class Navan/Tara (>100 Mt). The high grade, shallow occurrence and clean metallurgy of the orebodies, allow for a relatively low cost of mining.
“Irish Style” Deposits – An Attractive Target

- “Irish Style” deposits are a sub-set of the carbonate hosted MVT-deposits that are well known and studied globally. Three of the 30 largest MVT deposits are in Ireland;

- Deposits controls and characteristics include:
  - they are epigenetic;
  - they are not associated with igneous activity;
  - they are hosted mainly by dolostone and limestone;
  - dominant minerals are sphalerite, galena, pyrite, marcasite, dolomite, and calcite, whereas barite is typically minor to absent and fluorite is rare;
  - they occur in platform carbonate sequences commonly at flanks of basins or foreland thrust belts;
  - commonly stratabound, may be locally stratiform;
  - they typically occur in large districts;
  - the ore fluids were basinal brines with ~10 to 30 wt. percent salts;
  - the most important ore controls are faults and fractures, dissolution collapse breccias, and lithological transitions;
  - sulfides occur as replacement of carbonate rocks and to a lesser extent, open-space fill;
  - alteration consists mainly of dolomitization, host-rock dissolution, and brecciation.
Irish Base Metal Comparables

Lisheen (Vedanta Resources)
- Major underground base metal mine which operated for 2 decades as one of the largest producers of zinc in Europe; closed Jan 2016.
- A pre-mining resource of **18.9 Mt @ 15.0% Zn+Pb** is quoted, however alternative resources at a lower cut-off of **21.0 Mt @ 12% Zn, 2% Pb** are also published. Average depth of mineralization 170 metres below surface.

Galmoy (Lundin Mining)
- Major underground mine, that operated for 12 years, with closure in 2009. Discovery was made in the 1960’s with soil sampling and geophysics both crucial.
- Pre-mining resource of **6.2 Mt @ 12.4% Zn+Pb**. Two main orebodies were mined, being the 700x450x6 metre CW-Orebody, and 450x300x8 metre G-Orebody.

Kilbricken (100% Hannan Metals)
- Drill results indicate a zinc mineralized zone measuring 590 m by 250 m with drill hole intercepts including grades between 3% and 10% Zn; plus 50 g/t and 80 g/t Ag. This is based on 222 drill holes for 118,000 metres. The potential quantity and grade remains conceptual in nature. Mineralization discovered to date averages 400 metres below surface, and is open in all directions.
 Acquisition of Kilbricken by Hannan

Acquisition of the Clare ProspectingLicences ("PLs") which include Kilbricken, was executed Sept 21, 2016 via purchase of all historic data from the project. Consideration consists of payments to Lundin Mining of US$150,000 (made in Sept 16) and two further payments US$425,000 each in Sept 2017 & March 2018 (total US$1M cash).

Lundin retains a 2% net smelter royalty, subject to a 0.5-per-cent buyback right of Hannan Ireland for $5-million (U.S.), which must be exercised within one year from the date of commercial production. Hannan Ireland is required to pay Lundin a one-time bonus payment of $5-million (U.S.) within the earlier of Hannan Ireland’s decision to proceed with mine construction; or within 90 days of the establishment of a commercial financing to finance capital costs for mine construction.

Kilbricken was discovered in 2008, 166 years and 400 metres below a 1834 Victorian era mine. Since 2008, 278 holes for 134,000m of diamond drilling have been completed on the project, which is ready to explore and expand.

Kilbricken History and Milestones

1850’s-99
Small scale 19th century mining. Modern exploration begun in 1960’s due to success elsewhere in Ireland. Irish Base Metals, Rio-Finex, Central Mining Finance, Billiton and Belmore Resources Ltd.

1992-99
Central Mining Finance completed advanced exploration including drilling, focussed on the Milltown prospect, results including 13.3m at 5.8% Pb and 10.5% Zn.

99-2001
CMF-Billiton

2001-08
’01-’08 CMF-Belmore

2008
Belmore drilled beneath the historic Kilbricken mine, where discovery hole DH04 intersected 10m @ 13.8% Zn, 0.08% Cu and 62.8 g/t Ag

2009-10
Belmore-Lundin: Following exciting discovery, Lundin Mining JV’ed into Kilbricken and the regional claim package. Detailed drilling began immediately.

2010-13
In 2011, Lundin Mining purchased 100% of the JV from Belmore. 278 drillholes for 134,000 m of diamond drilling

2016-
Clare PLs were transferred to Hannan Metals Ltd on Sept 21, 2016

Kilbricken was discovered in 2008, 166 years and 400 metres below a 1834 Victorian era mine. Since 2008, 278 holes for 134,000m of diamond drilling have been completed on the project, which is ready to explore and expand.
Clare – Large Scale Endowed Block 32,223 hectares

Ballyvergin Cu Deposit
31.5m @ 1.0% Cu

Milltown Zn/Pb Deposit
13.3m @ 5.8% Pb and 10.5% Zn

Kilbricken Deposit
Zn Pb Ag Cu

Kilmurry Prospect
2 mineralised holes – 8.5m @ 2.1% Zn+Pb and 4.3m @ 2.8% Zn+Pb

In Ireland, claims holders include: Teck, Boliden, Vedanta, Glencore, Aventus, Group Eleven, Erris, Unicorn, Connemara.

PLs issued for 6 years. If work and expenditure satisfactory, normal practice licence re-issued.
Clare – Lead Surface Geochemistry

- **Ballyvergin Cu Deposit**: 31.5m @ 1.0% Cu
- **Milltown Zn/Pb Deposit**: 13.3m @ 5.8% Pb and 10.5% Zn
- **Kilbricken Deposit**: Zn Pb Ag Cu
- **Kilmurry Prospect**: 2 mineralised holes – 8.5m @ 2.1% Zn+Pb and 4.3m @ 2.8% Zn+Pb

- Soil geochemistry has been very effective for mapping and discovery of Zn/Pb metal systems in Ireland. Large anomalies remain to be tested on Hannan’s Clare PLs.
Kilbricken is a flat lying zinc-lead-silver copper system that lies in the hanging wall of the main Kilbricken Fault. Mineralization sits at the base of the Waulsortian Limestone, the principal ore host sequence in Ireland.

An 8 km long structural corridor encompasses the fault system, the Kilbricken Discovery Zone and Copper Zone.
High grade massive sulphide mineralization has been drilled over a 1,500m strike, and remains open.
Kilbricken – Significant Intersections

- Kilbricken is characterised by silver grades that are higher than typical Irish base metal deposits. High grade copper mineralization has also been discovered in drilling.

<table>
<thead>
<tr>
<th>DH</th>
<th>Length @</th>
<th>Zn</th>
<th>Pb</th>
<th>Cu</th>
<th>Ag</th>
<th>From</th>
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<tbody>
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<td>DH 46</td>
<td>20.5m</td>
<td>7.5%</td>
<td>9.9%</td>
<td>0.07%</td>
<td>Cu</td>
<td>74.6g/t</td>
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<td>DH06</td>
<td>21.3m</td>
<td>11%</td>
<td>4.8%</td>
<td>0.06%</td>
<td>Cu</td>
<td>94.4g/t</td>
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<td>DH50</td>
<td>11.8m</td>
<td>9.8%</td>
<td>5.7%</td>
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<td>Cu</td>
<td>178.2g/t</td>
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<td>DH43</td>
<td>9.4m</td>
<td>4.1%</td>
<td>12%</td>
<td>0.52%</td>
<td>Cu</td>
<td>242.8g/t</td>
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<td>DH04</td>
<td>10.0m</td>
<td>13.8%</td>
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<td>0.08%</td>
<td>Cu</td>
<td>62.8g/t</td>
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<td>0.18%</td>
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<td>DH44</td>
<td>17.2m</td>
<td>2.9%</td>
<td>4.4%</td>
<td>0.11%</td>
<td>Cu</td>
<td>83.5g/t</td>
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<td>DH167</td>
<td>4.5m</td>
<td>0.8%</td>
<td>2.6%</td>
<td>18.91%</td>
<td>Cu</td>
<td>867.6g/t</td>
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<td>DH161</td>
<td>10.4m</td>
<td>8.4%</td>
<td>3.9%</td>
<td>0.09%</td>
<td>Cu</td>
<td>26.5g/t</td>
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<td>DH206</td>
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<td>Cu</td>
<td>90.7g/t</td>
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<td>5.7%</td>
<td>0.1%</td>
<td>Cu</td>
<td>95.4g/t</td>
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</table>
The old Kilbricken Mine, a Victorian era Pb-Zn mine worked 1834-1854. A Cornish Engine House is still visible today.
Kilbricken Deposit – New Seismic Data

- Lundin Mining completed 2D and 3D seismic traverses across Kilbricken and its regional extensions.

- This data, with advanced re-processing, is allowing targeted exploration at the appropriate stratigraphic levels, adjacent to fertile extension feeder faults.
Kilbricken Mineralogy

Mineralogical test work by SGS on 14 samples. Findings based on what is mineralogically possible, under ideal separation conditions

For composite sample results:

- Spahlerite grades between 98% and 81% for recoveries of 78% to 95%, respectively.
- Galena grades between 98% and 84% for recoveries of 88% to 96%, respectively;
- Hannan Metals will undertake bench top metallurgical studies during its Phase 1 work program.
Proposed Program

- With a significant zinc discovery already made at Kilbricken, and a large highly prospective area to explore, Hannan’s aim is now two fold to advance and add value to the project portfolio;

- Exploration along the immediate extensions from the drilled high grade mineralization at Kilbricken (20.5m @ 7.5% Zn, 9.9% Pb, 0.07% Cu, 74.6g/t Ag) is proposed, testing for extensions to mineralization;

- Furthermore, step out areas where mineralization is known but not well tested within a 40 kilometre trend, including Milltown (13.3m @ 5.8% Pb and 10.5% Zn) will become priority targets for advanced exploration;

- Exploration will include:
  - 3D compilation of geological and seismic datasets to create a basinal to local scale structural and stratigraphic model;
  - Re-interpretation of 2D and 3D seismic data, further seismic surveying;
  - Resource modelling;
  - Metallurgical test work;
  - Diamond drilling.
For more information: info@hannanmetals.com

Right Project - Right Time - Right Place