

Hannanmetals

TSXV:HAN
OTCPINK:HANNF

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



@hannanmetals

www.hannanmetals.com

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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.

13 March 2018

Investment Highlights

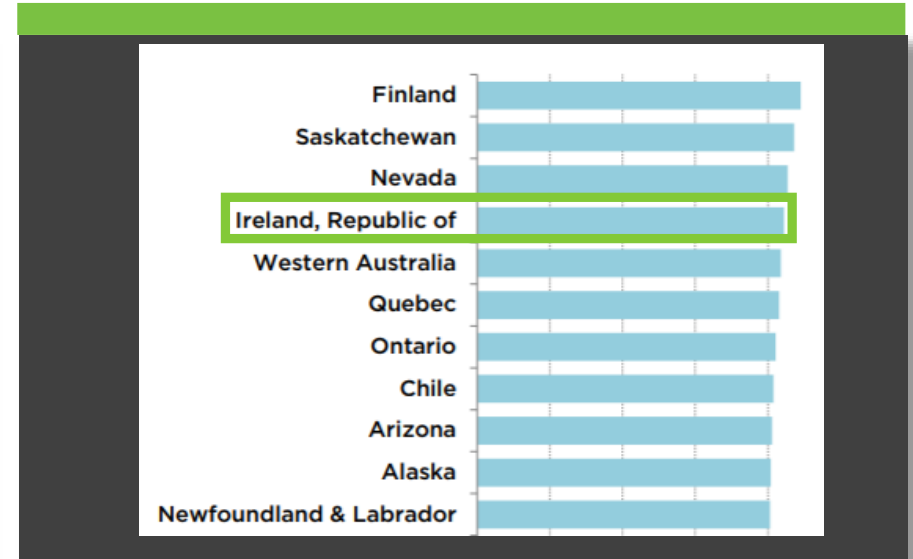
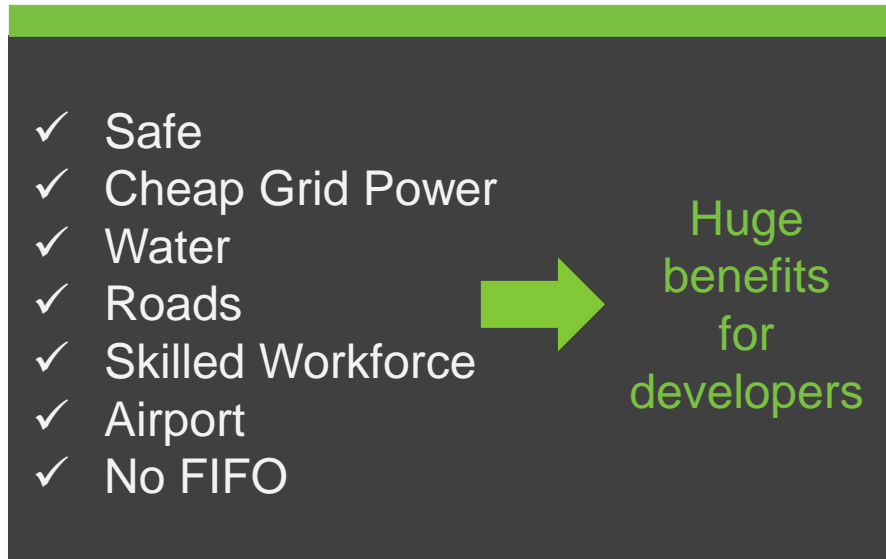
- **100% ownership** of the flagship high-grade **Kilbricken** Zn-Pb-Ag-Cu discovery in Ireland, **maiden resource July 10, 2017:**
 - Total **indicated** mineral resource of **2.7 million tonnes at 8.8% ZnEq**, including **1.4 millions tonnes at 10.8% Zneq**;
 - Total **inferred** mineral resource of **1.7 million tonnes at 8.2% ZnEq**, including **0.6 million tonnes at 10.4% Zneq**;
- **High grade mineralization, expandable at all scales, from near resource to prospect scale.** 32,000 hectare land package with 40 km trend to test;
- **Zinc has tight supply fundamentals, Ireland is a leading global jurisdiction for zinc;**
- Exploration and management team with **decades of zinc exploration experience;**
- Work program ongoing: resource expansion drill program 6,000 metres (2 rigs), metallurgical studies, 42 km 2D seismic, multiple regional soil targets;
- **All reported drill holes in maiden drill program have extended resource.**

Why Ireland?

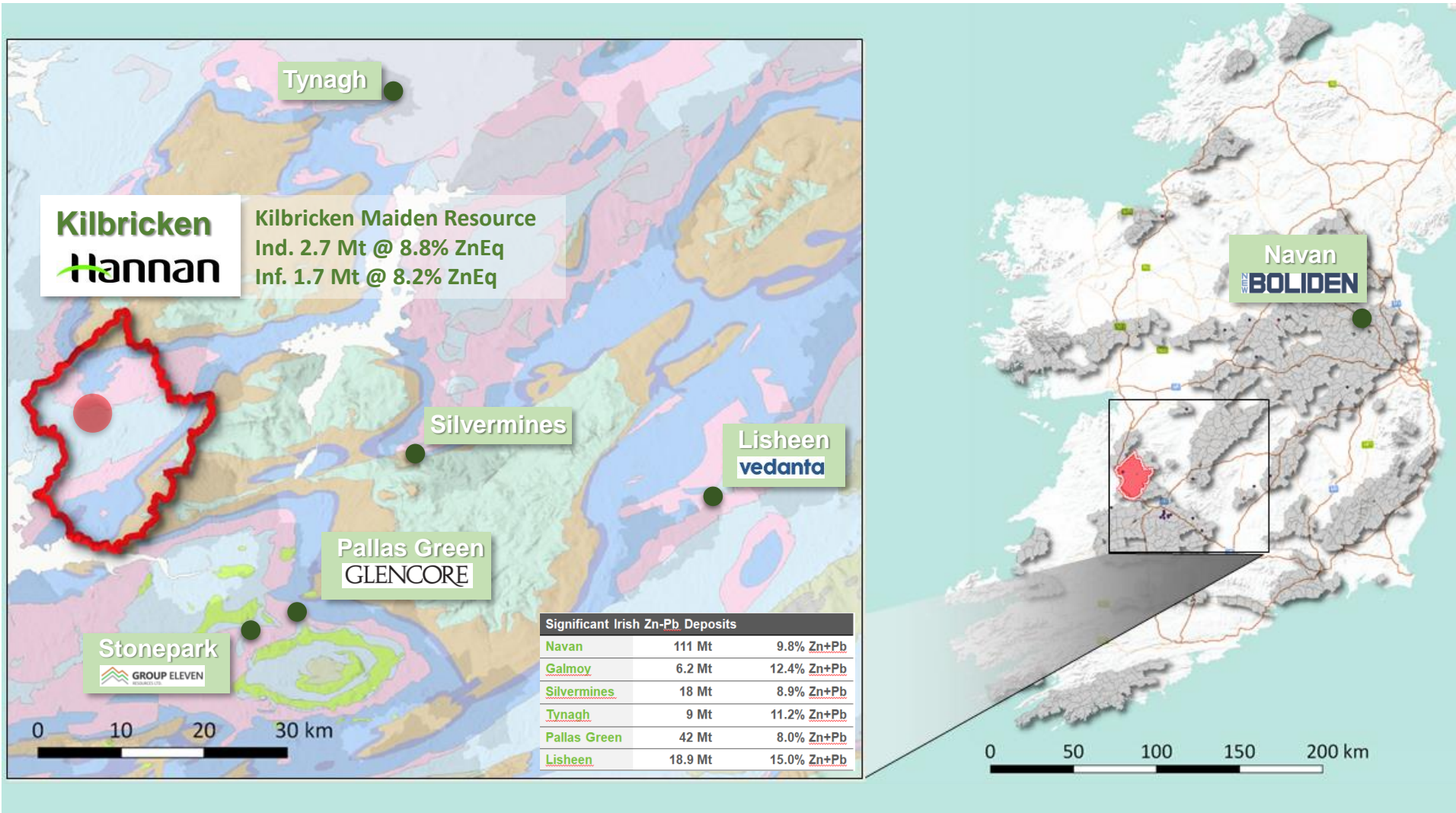
- Ireland is a **leading global jurisdiction** for zinc mining and exploration;
 - Ranked first in the world in terms of zinc discovered per sq. km;
 - One of largest zinc producing nations;
- “Irish Type” carbonate hosted deposits tend to be large and high grade;
- Ireland is an attractive jurisdiction for mining investment;
- **The country is poised for the next round of major discoveries >200m deep via technology shift.**



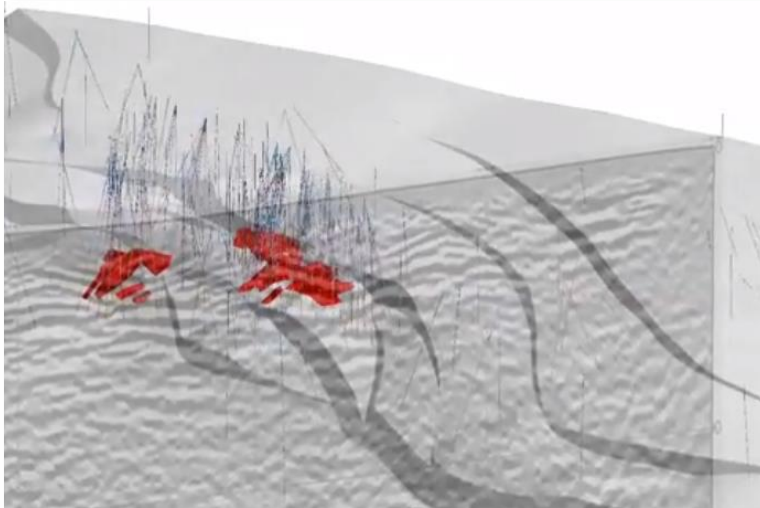
Investment Attractiveness Index



Ireland: A Home of Zinc Mining



Within 80km diameter SW Ireland contains >100Mt >10% Zn+Pb



Kilbricken was discovered in 2007 by Belmore Resources, 166 years after and 400m below a 1834 Victorian era mine.

Subsequently bought by Lundin Mining Ltd for an implied price of £16m (or €20m).

Since then, 290 holes for 140,000m of diamond drilling have been completed on the project, which is ready to explore and expand.

Acquisition

Consideration US\$1M. Lundin retains a 2% net smelter royalty, subject to a 0.5-per-cent buyback right for US\$5M and a one-time bonus payment of US\$5M decision to mine.




Game changer!

Indicated

Zone	Cutoff ZnEq%	Tonnes	Zn%	Pb%	Ag g/t	Cu%	ZnEq%	SG
Chimney	5	1,369,000	5.6	4.2	66	0.1	10.8	3.5
Fort	5	1,287,000	3.7	1.4	34	0.5	6.7	3.0
Total	5	2,656,000	4.7	2.9	50	0.3	8.8	3.2

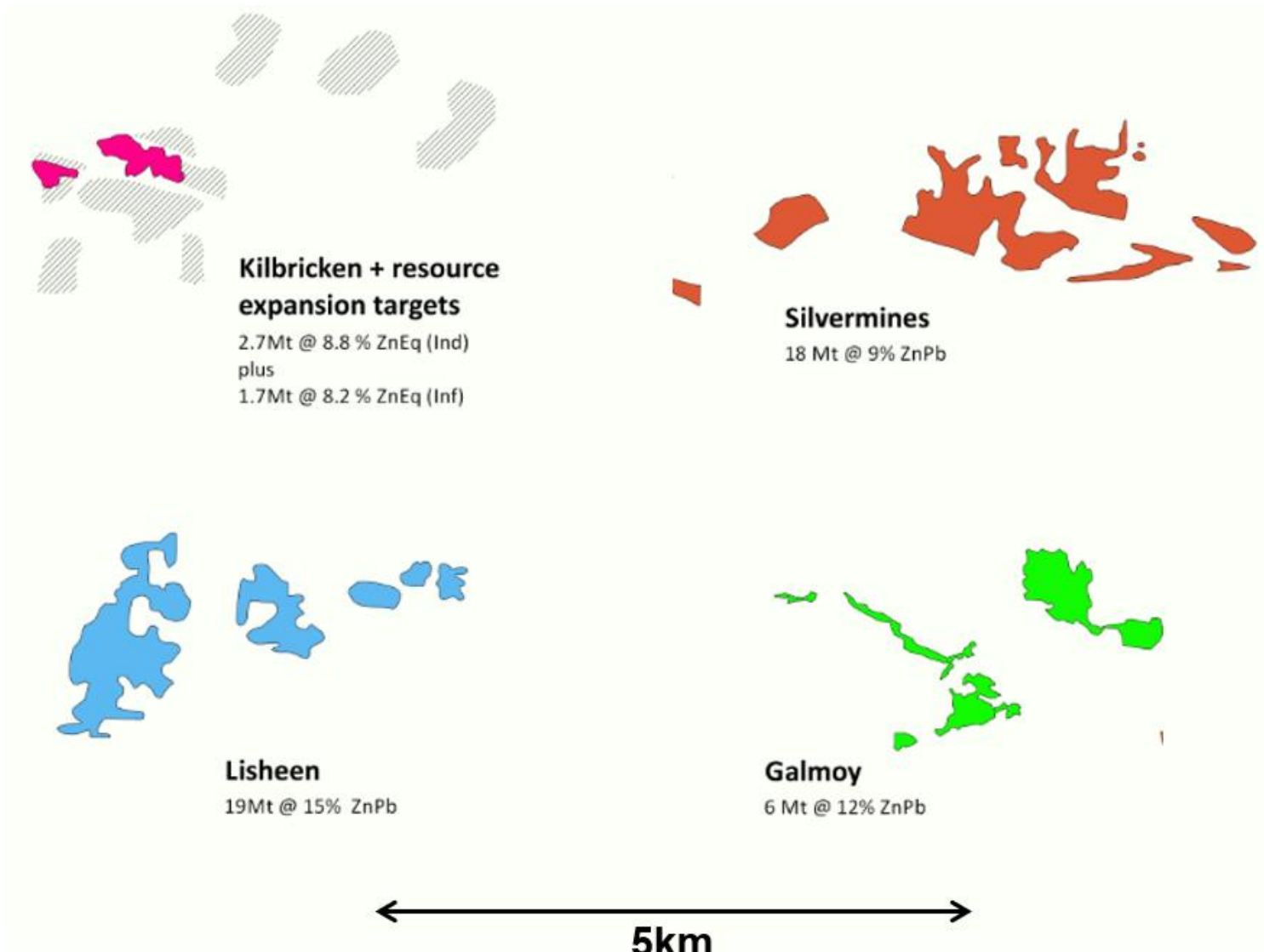
Inferred

Zone	Cutoff ZnEq%	Tonnes	Zn%	Pb%	Ag g/t	Cu%	ZnEq%	SG
Chimney	5	635,000	5.9	3.6	61	0.1	10.4	3.4
Fort	5	1,046,000	3.4	2.5	30	0.3	6.8	3.0
Total	5	1,681,000	4.4	2.9	41	0.2	8.2	3.1

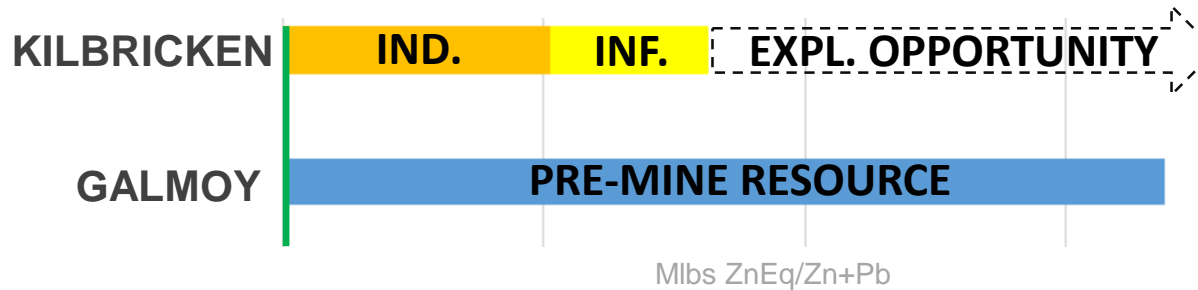
-  1. Immediately ranks Kilbricken as one of the top ten base metal deposits discovered in Ireland by tonnes and grade;
-  2. Two styles of mineralization. The upper Chimney Zone is classic high-grade (>10% Zneq) Irish stratabound mineralization targeted by Hannan. Averages 12m thickness. The lower Fort Zone was found later and has been tested with fewer drill holes. Averages 40m thickness;
-  3. Importantly, the initial resource is expandable at all scales;

Irish Style Systems Form Multiple Bodies

→ Kilbricken is no different



- Galmoy pre-mine resource was 6.2Mt @ 12.4% Zn+Pb or 1,691Mlbs
- Kilbricken current resource is 514Mlbs ZnEq Indicated plus 302Mlbs ZnEq Inferred, a strong start
- Medium term target for Hannan is 2.2Blbs contained @ 10% ZnEq



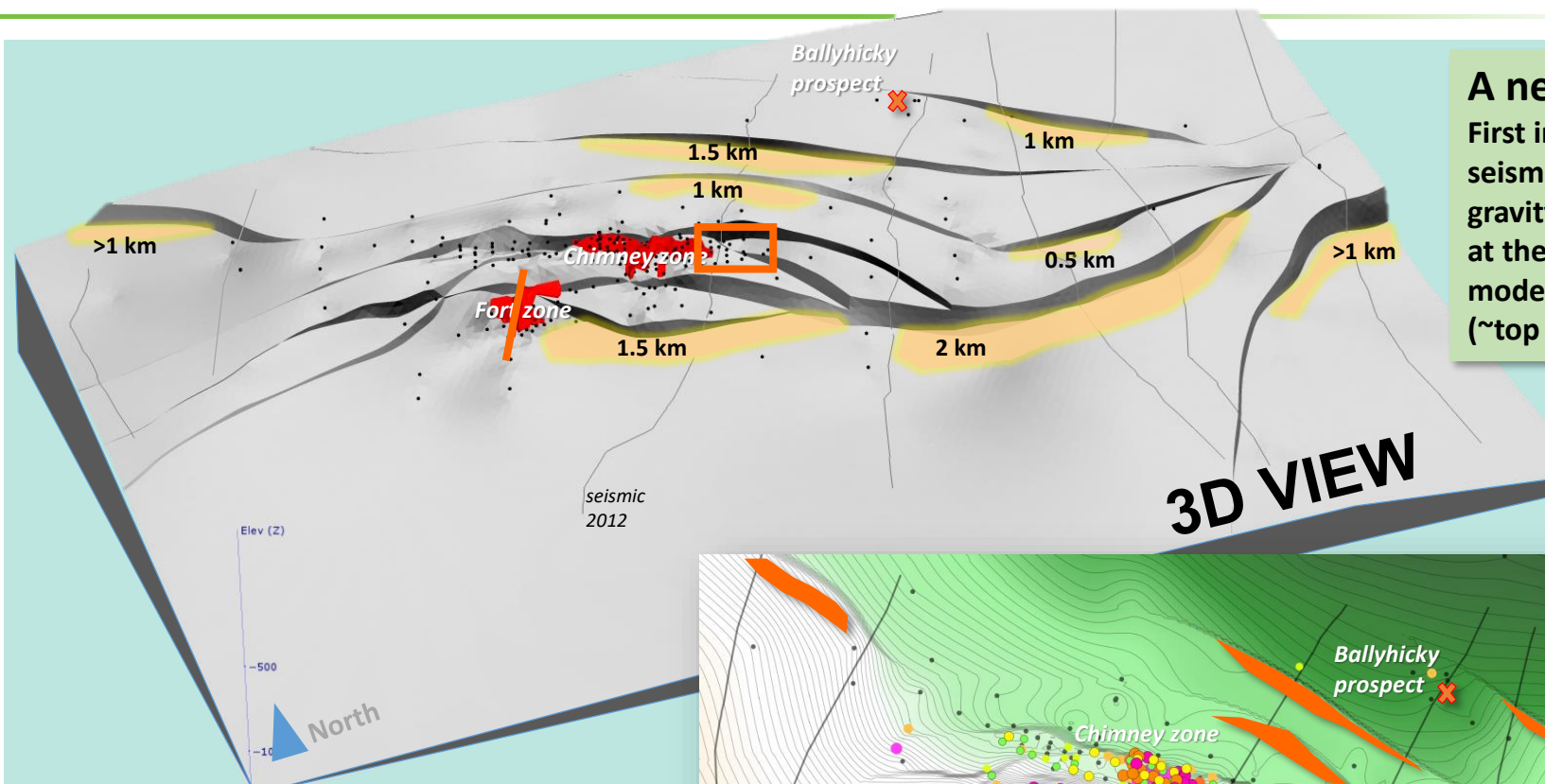
Source: <http://www.siteforce.com.au/projects.html>

- Discovered in 1984, UG mining commenced in 1997 (Arcon). Employed 200 local people and a further 25 contractors (650,000t/y to 750,000t/y). Lundin Mining merged with Arcon (**valuation of €93.4m**) in 2005. Mining ceased in 2009 (12 year mine life).
- Lisheen 2010, 5.8Mt @ 12.8% Zn+Pb sold to Vedanta US\$308M

- ➔ 1. Further delineate underground potential around current resource area. Drilling now ongoing;
- ➔ 2. Test conceptual and advanced exploration targets within 1-10 km defined by seismic data, lithogeochemistry and soil geochemistry;
- ➔ 3. Test for first order mineralization in 40 km Waulsortian host that exists within 100% owned 32,223 hectares prospecting licences.



Kilbricken resource expansion

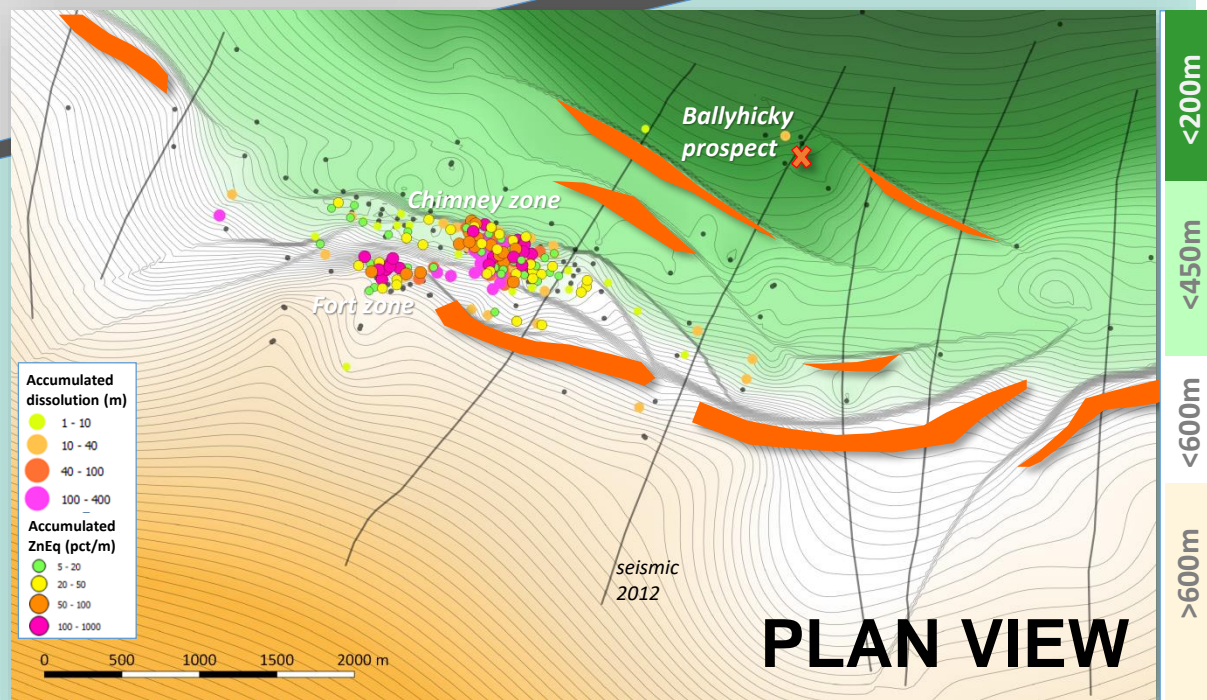


A new look –
First integrated seismic, drilling and gravity interpretation at the project – 3D model of pre-rift units (~top of ABL).

3D VIEW

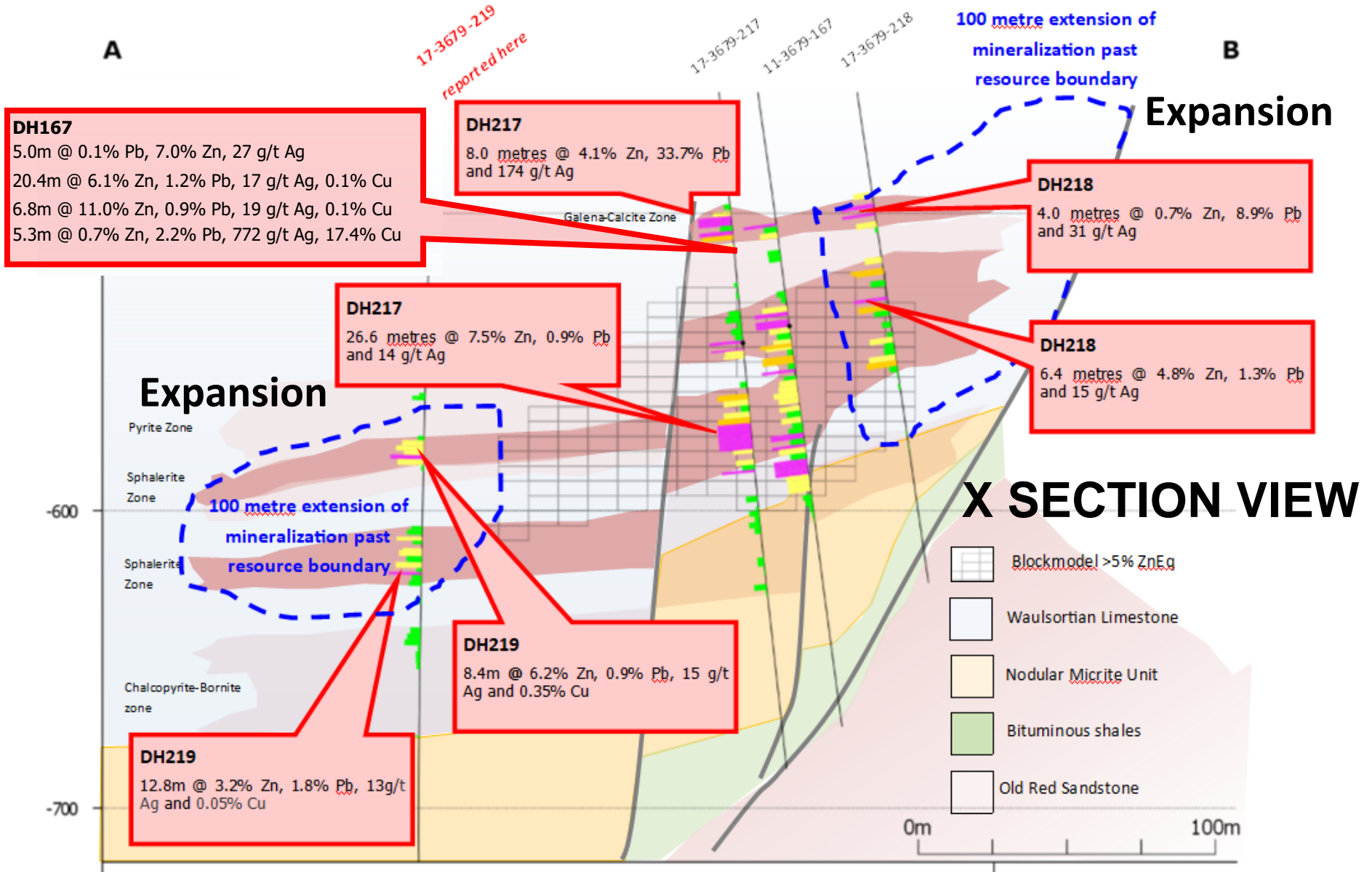
The system is open in all directions.

- Never drill tested targets.
- >9km of combined strike length.
- Excellent context with key indicators for mineralization.

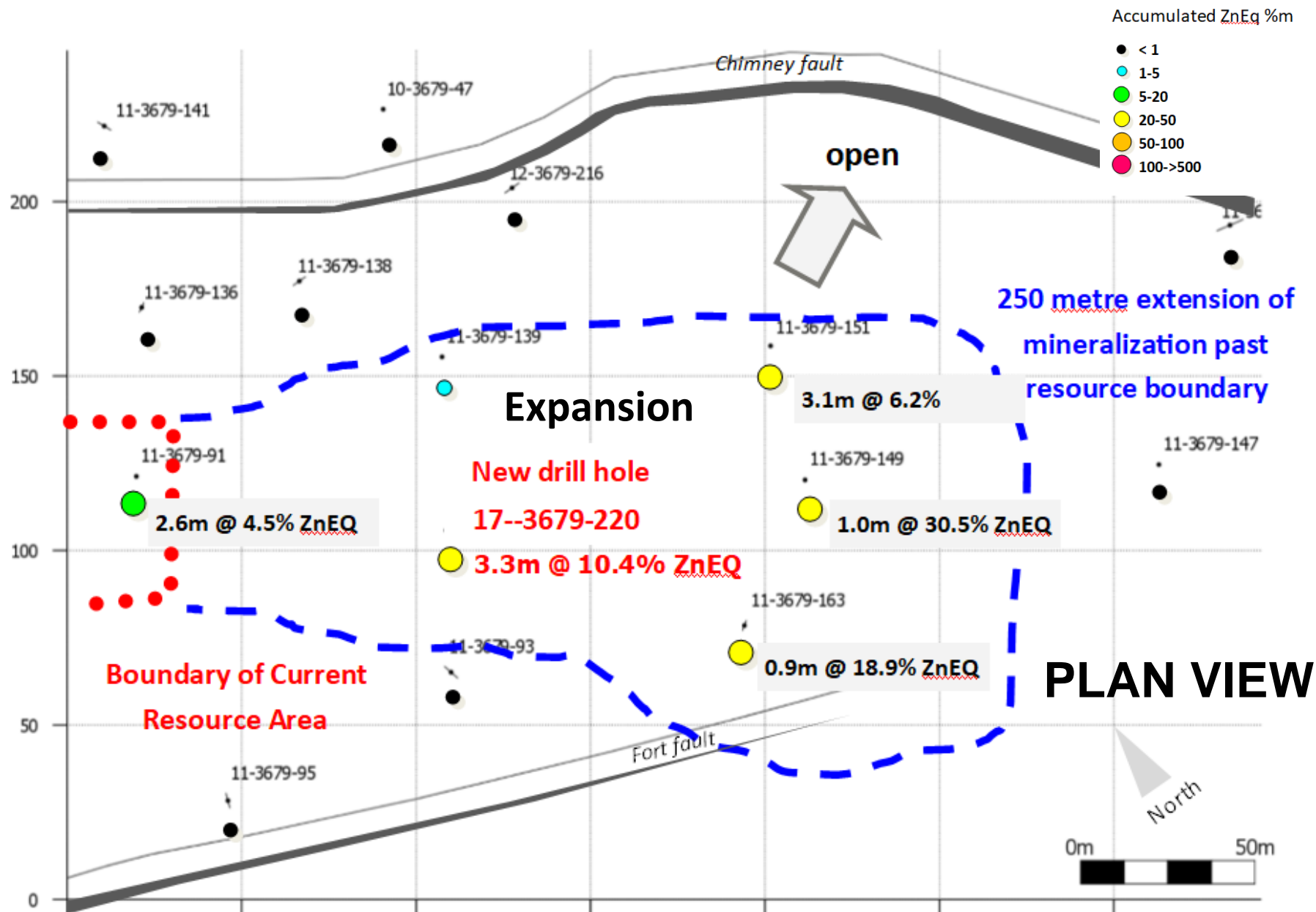


PLAN VIEW

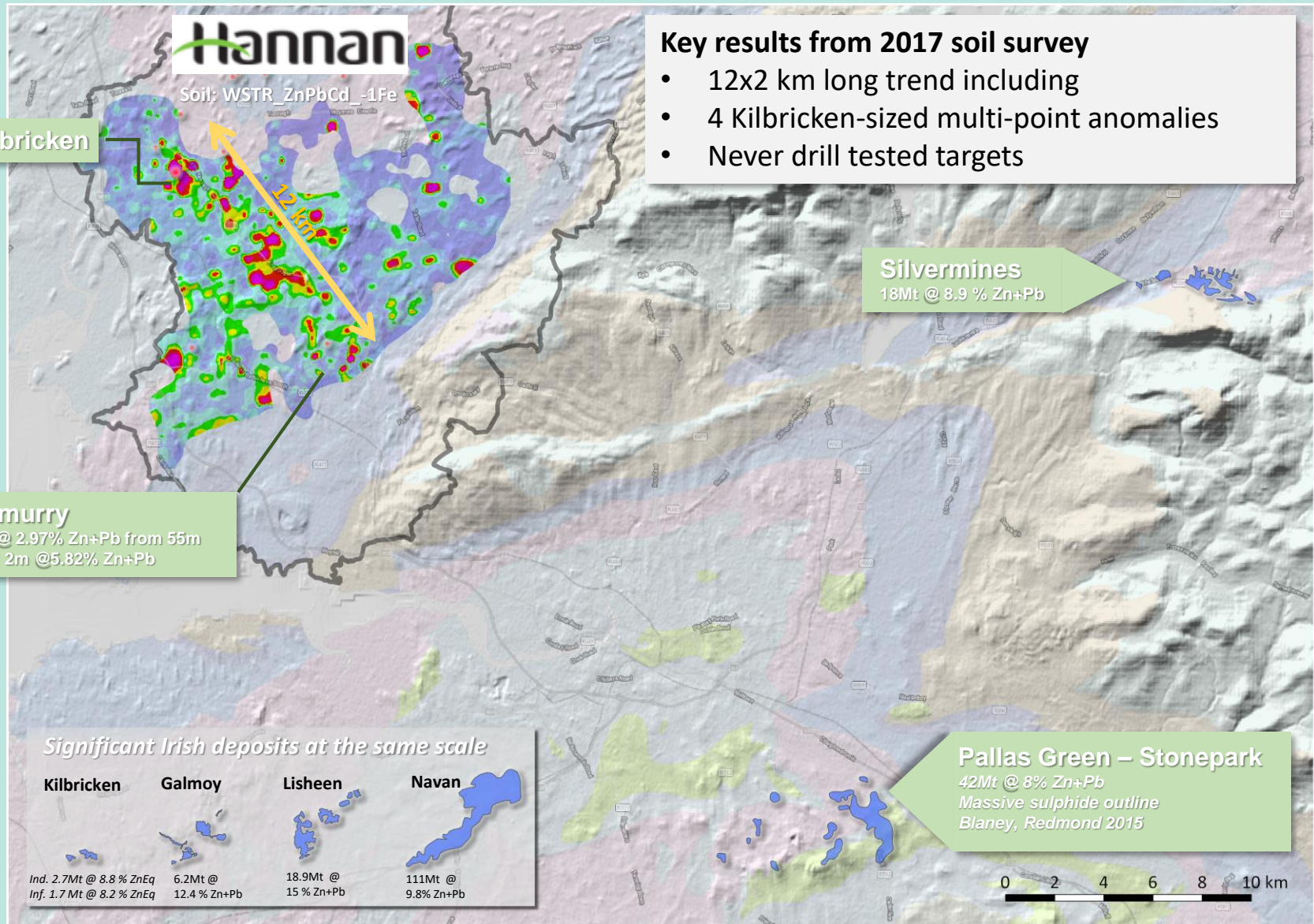
2017 Fort Zone Extension Drilling



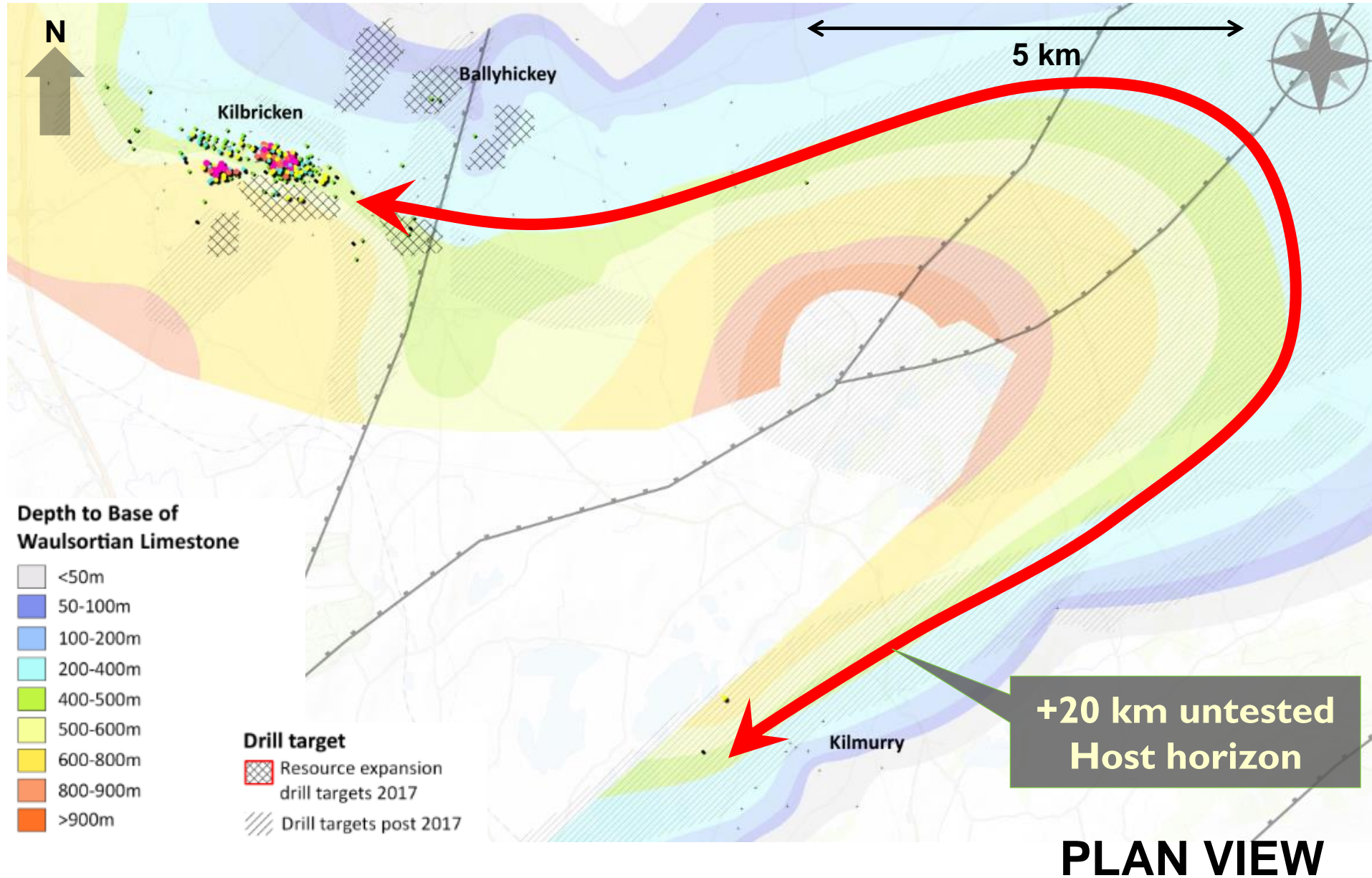
2017 Chimney Zone Extension Drilling



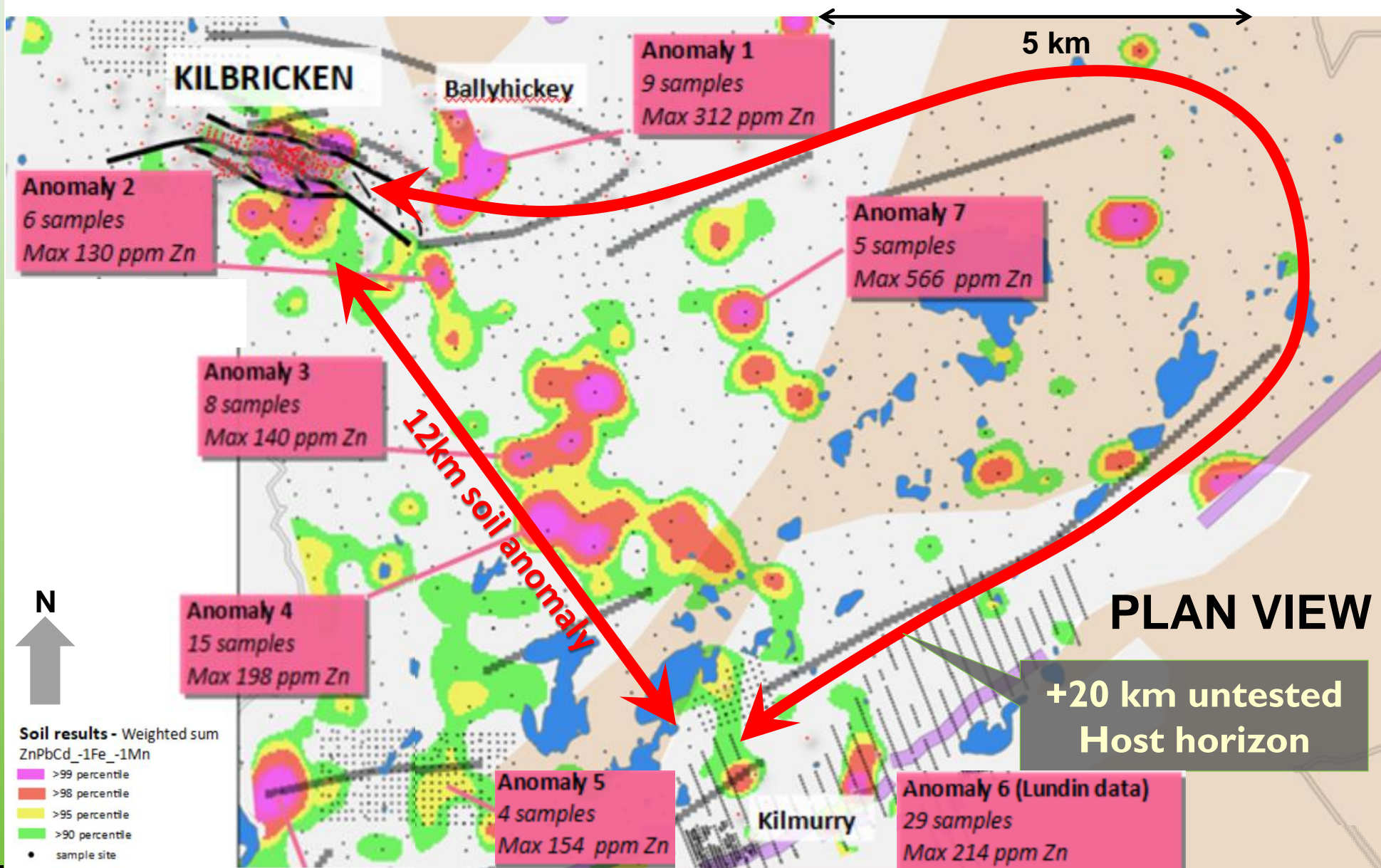
Expanding the search space



Regional Expansion Opportunities



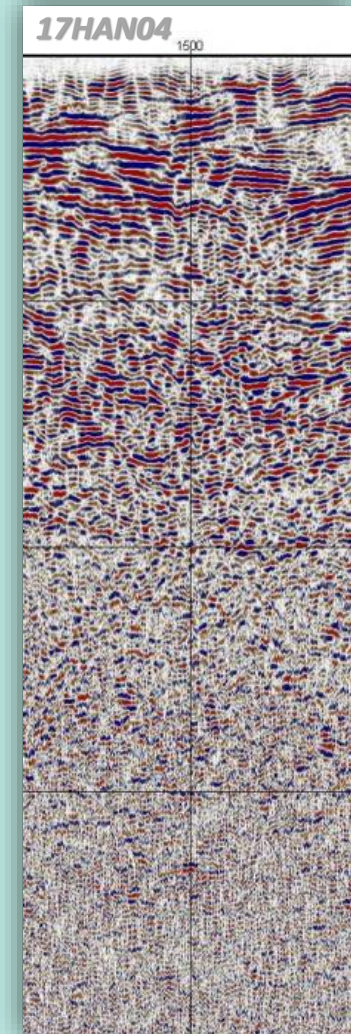
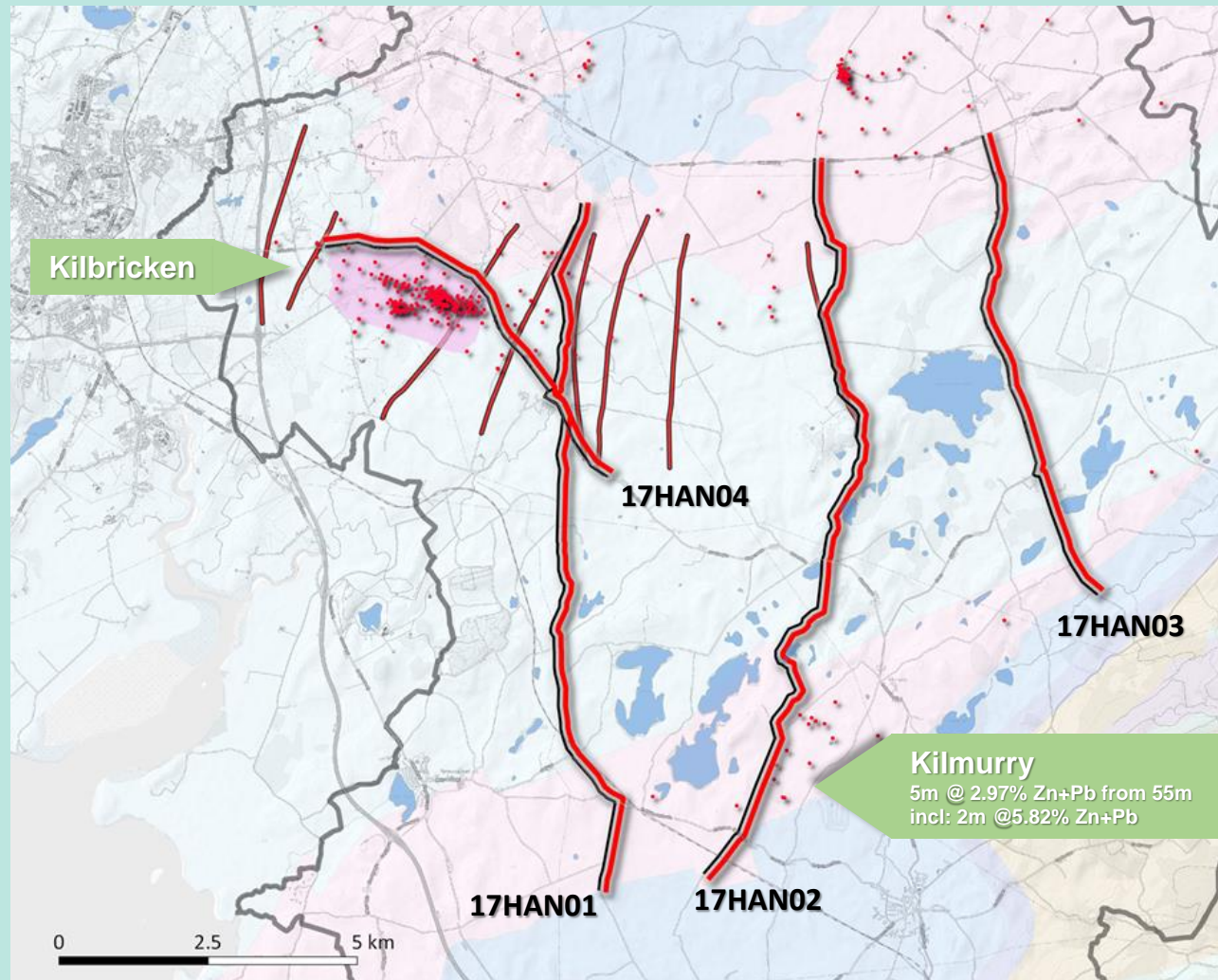
Multiple Regional Soil Anomalies



Expanding the search space

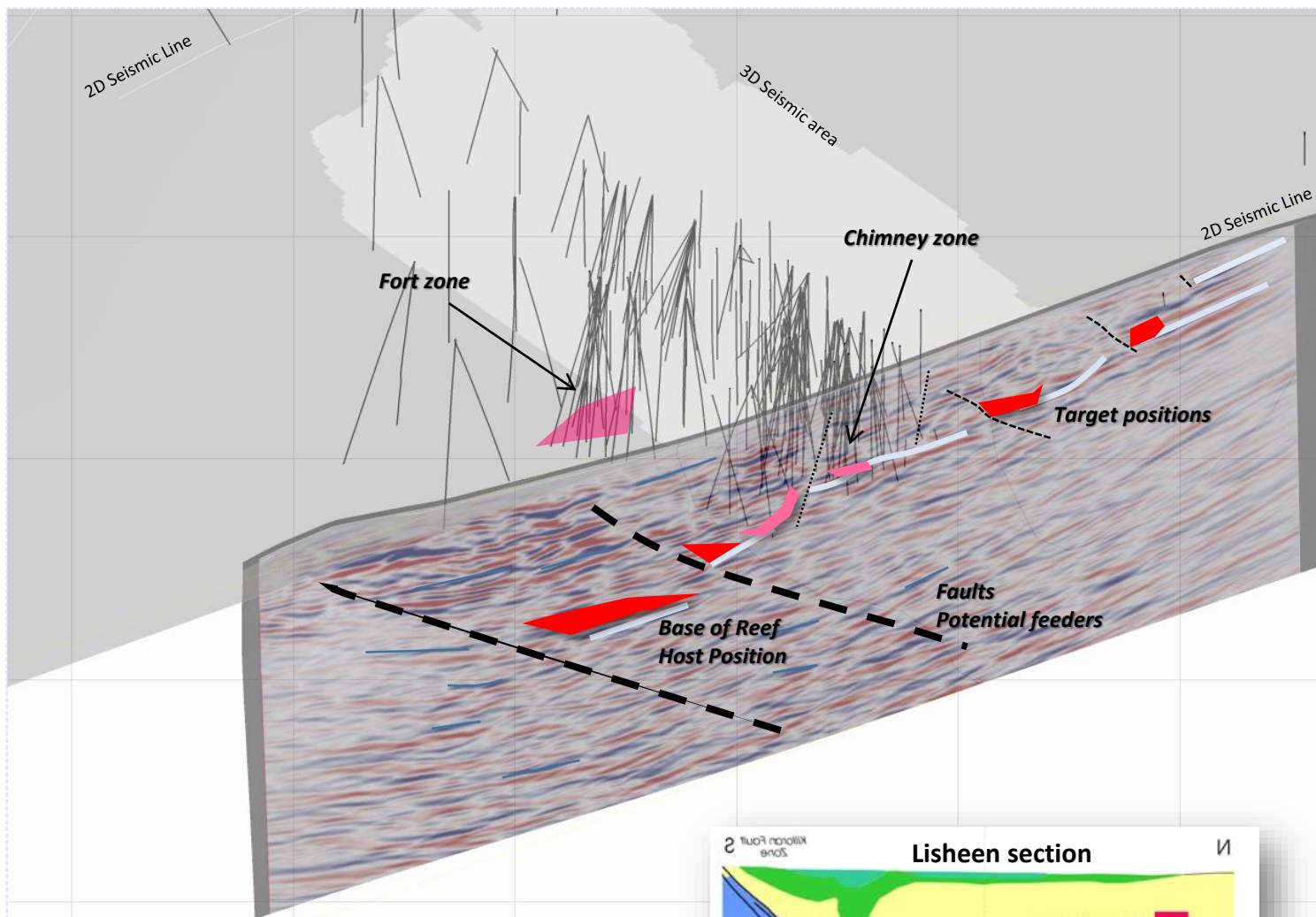
Total of 68 km of 2D seismic

- Hannan's 2017 survey , 41 km - processing ongoing results due in April. Will drive 2018 drill program.
- Lundin 2011-2012 survey, 27 km - reprocessed 2017



Hardrock Seismic Technology: Game Changer

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Hannan semi-regional 42km survey late 2017, results by April 2018

Lundin completed near resource 2D and only 3D seismic survey completed in Ireland to date

Will drive 2018 drill programs

Kilbricken Mineralogy: No Red Flags

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

For composite sample results:

- Sphalerite 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;
- No red flags for deleterious metals;
- Conventional Pb-Zn flotation circuit envisaged;
- Wardell Armstrong International Ltd, Truro, UK bench top metallurgical studies underway now, results April 18.

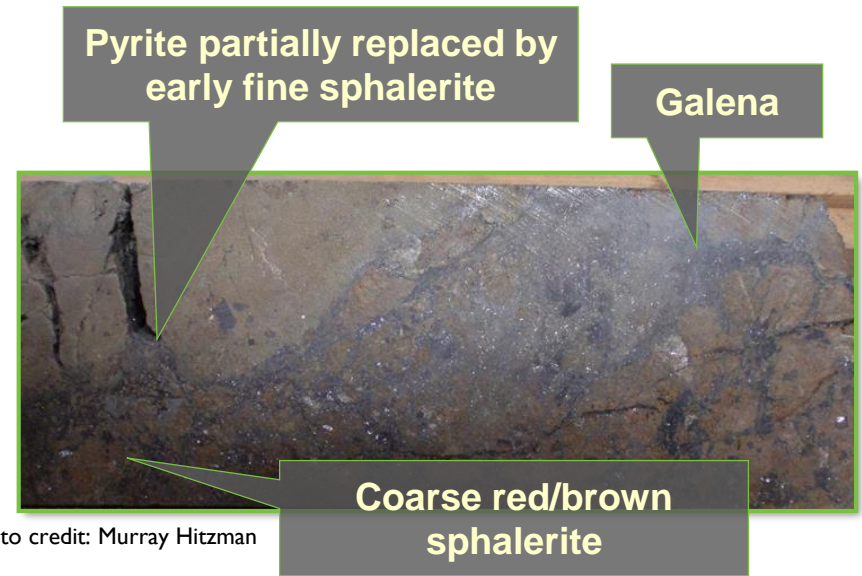
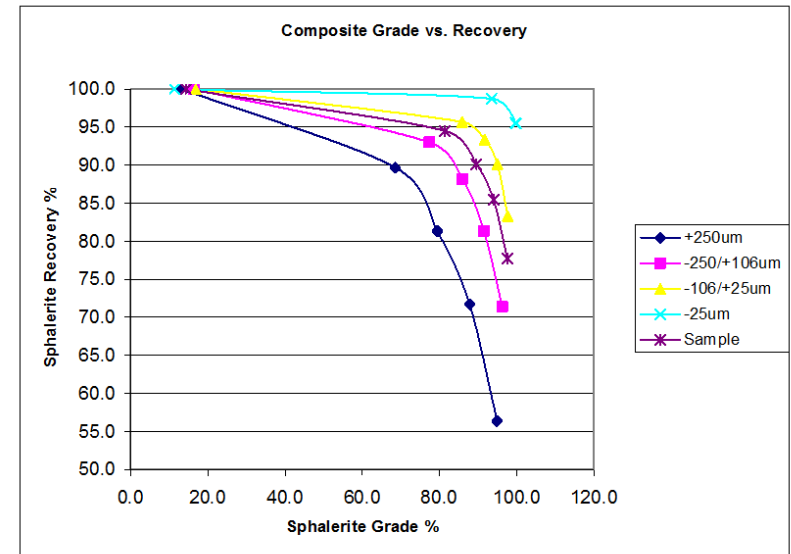


Photo credit: Murray Hitzman



Corporate Metrics

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INSIDERS:

HAN

SHARES ON ISSUE:

HANNF

FULLY DILUTED:

33%

RECENT PRICE (Mar 12):

40.3 M

52 WK HIGH/LOW:

49.2 M

C\$0.26

MARKET CAP:

\$0.20/0.50

C\$10.5 M

CASH:

C\$1.0 M

ENTERPRISE VALUE:

C\$9.5 M



WARRANTS:

- 389,750 @ \$0.40 exp. Aug '18
- 112,500 @ \$0.40 exp. Aug '18
- 118,950 @ \$0.20 exp. Nov '18
- 5,442,486 @ \$0.40 exp. Aug '19
- 737,500 @ \$0.10 exp. Mar '20

OPTIONS:

- 30,000 @ \$0.10 exp. Dec '18
- 75,000 @ \$0.40 exp. Feb '20
- 65,000 @ \$0.45 exp. May '20
- 75,000 @ \$0.40 exp. Jul '20
- 100,000 @ \$0.30 exp. Jul '20
- 1,071,000 @ \$0.10 exp. Nov '21
- 50,000 @ \$0.20 exp. Feb '22



DIRECTORS

Michael Hudson (Chairman & CEO): *B.Sc. (Hons), 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 a 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 (President): *CPA, CA*

David Henstridge: *B.Sc. (Hons), FAusIMM, MAIG, MGSAust*

Georgina Carnegie: *B.Com, AM Harvard*

Ciara Talbot: *BSc. (Honours)*

MANAGEMENT TEAM

Lars Dahlenborg (VP Exploration): *M.Sc, MAIG*

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)

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 1834-1854. A Cornish Engine House is still visible today.

Budget

- 7 month global budget (\$3M)
 - All complete: 6 km drilling, \$750K seismic survey, 1,000 soil sample program August 17 to March 18.
- Includes non-discretionary budget C\$1M/year
- Aim 20km drill program (C\$4M budget) for remainder 2018 on seismic targets looking for main controls on mineralization outboard from Kilbricken working to regional Clare Basin scale



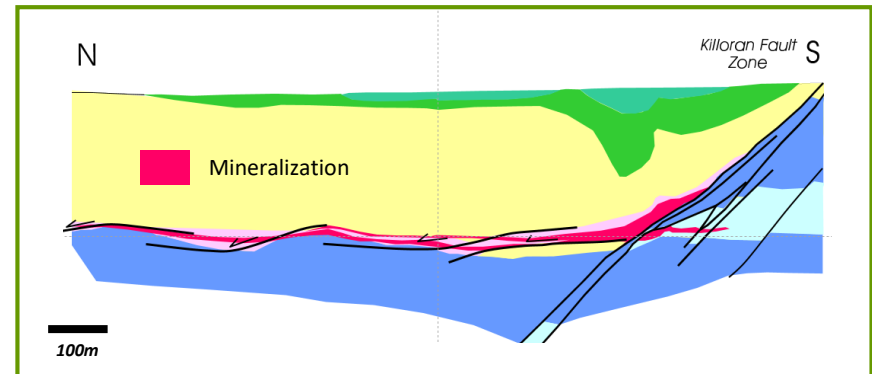
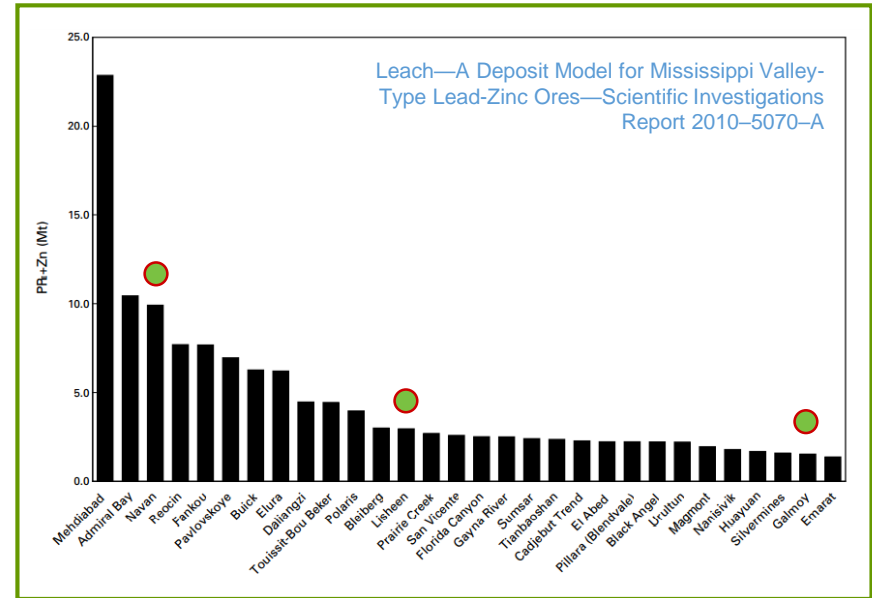
- New zinc discovery made during last downturn - US\$25M sunk capital;
- High grade mineralization, expandable at all scales, from near resource to prospect scale. 32,000 hectare land package with 40 km trend to test;
- Executing active work programs:
 - Diamond drilling – continuously since May 2017;
 - 42km 2D seismic completed – playing the big game, soil sampling;
 - 20km drilling planned for 2018
- Right Project, Right Time and Right Place.





“Irish Style” Deposits – An Attractive Target

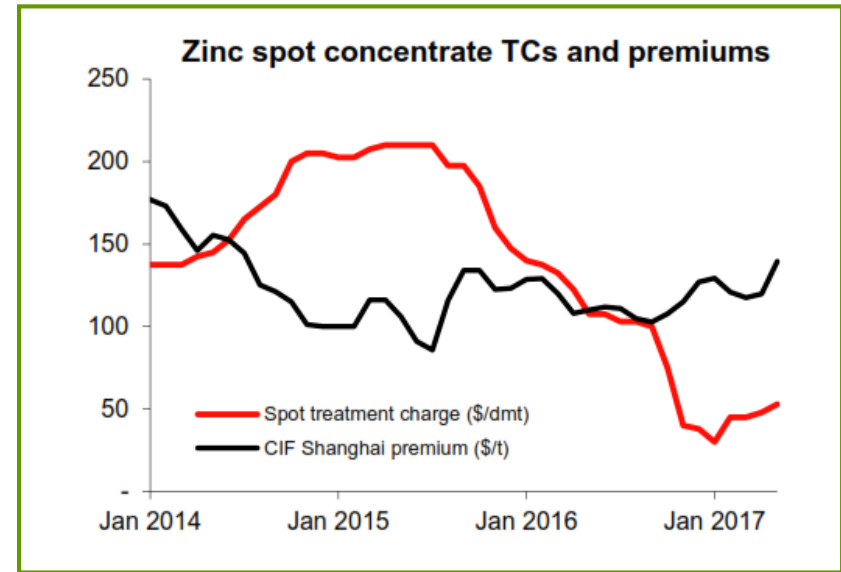
- “Irish Style” deposits are a sub-set of the carbonate hosted MVT-deposits that are well known and studied globally. Three of the 30 largest MVT deposits are in Ireland;
- Deposits controls and characteristics include:
 - they are epigenetic;
 - they are not associated with igneous activity;
 - they 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;
 - sulphides occur as replacement of carbonate rocks and to a lesser extent, open-space fill;
 - alteration consists mainly of dolomitization, host-rock dissolution, and brecciation.



Example cross section of a typical “Irish Style” deposit (Lisheen) showing the close association of ore (in pink) to large scale, often syn-sedimentary basin faults. Mineralizing fluids were interpreted as moving from the sedimentary basin, along faults to be concentrated in flat-lying carbonate horizons.

Why Zinc?

- **Tight supply fundamentals**
- LME inventories are down 35% to 6-year lows, with zinc prices approaching 5-year highs, while smelter treatment charges halved
- **Closure of major zinc mines**
- Zinc exploration has been limited over the past 30 years



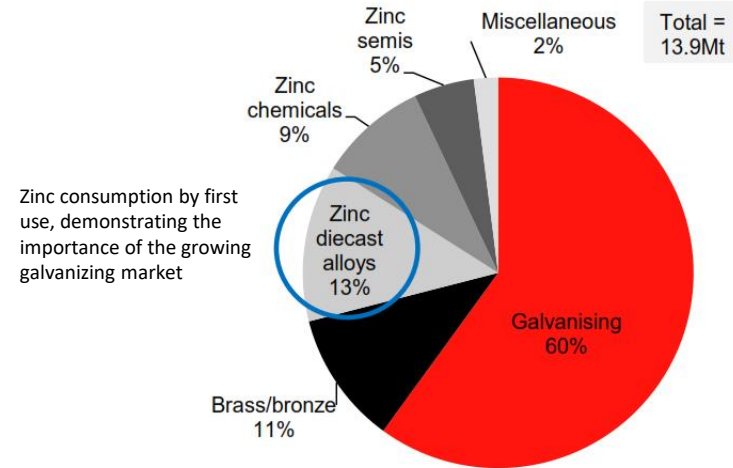
Source: CRU, Macquarie Research, June 2017



The Facts on Zinc

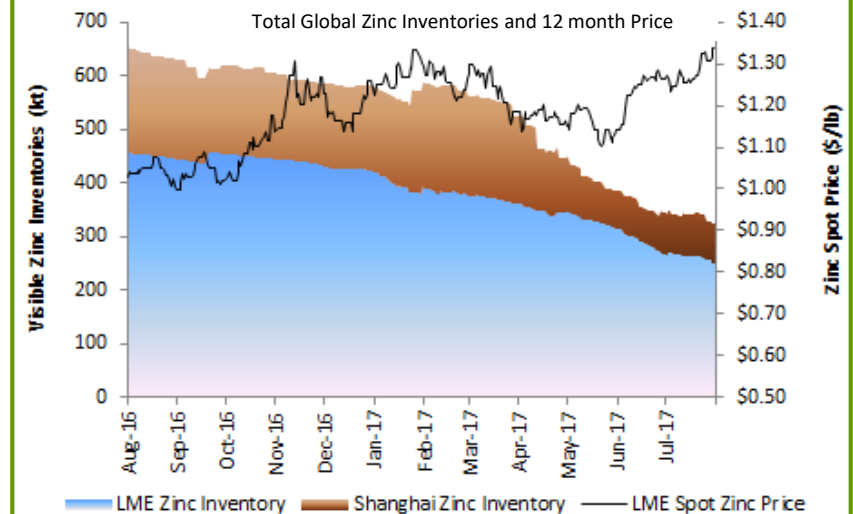
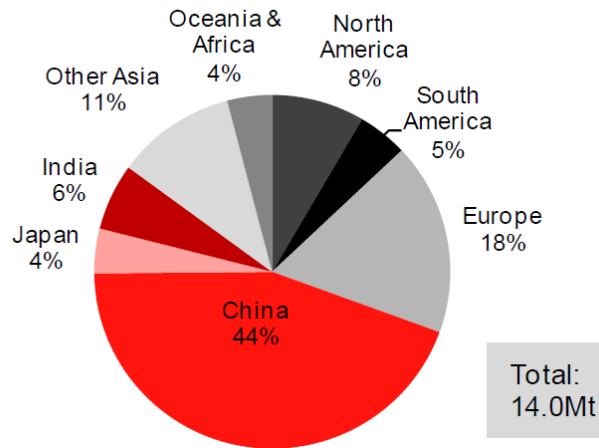
Zinc is a metal for the majors, with large discoveries as targeted by Hannan Metals, prone for takeover. Annual zinc production totals approximately 14 million tonnes. Major mines operating are:

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



Source: Source: LME, Wood Mackenzie, CRU, ILZSG, Macquarie Research, May 2017, Scotia Bank

2015 Zinc Production shows widespread distribution, and highlights the prominent role played by European producers



- Kilbricken/Irish advantages:
 - High grade
 - Globally competitive drill rates (€74/m)
 - Predictable ore systems with aid from seismic data
 - US\$25M exploration database

