

Hannanmetals

TSXV:HAN
OTCPINK:HANNF

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



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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.

09 June 2018

- **High grade mineralization, expandable at all scales**, 35,000 hectare land package;
- **100% ownership** of the flagship high-grade **Kilbricken** Zn-Pb-Ag discovery, **maiden resource of 2.7 million tonnes at 8.8% ZnEq**, indicated and **1.7 million tonnes at 8.2% ZnEq** inferred.
- A 40.6 line km 2D seismic survey defined multiple new high priority targets over a combined 12 kilometres trend immediately along strike and up dip from the Kilbricken resource;
- Over the regional scale, multiple drill targets identified across much of the Clare project, highly mineralized, new zinc discoveries in outcrop
- **Zinc has tight supply fundamentals, Ireland is a leading global jurisdiction for zinc;**
- Work program ongoing: resource expansion drill program 4,000 metres planned, metallurgical studies (Wardell Armstrong Q2 2018).

Corporate Metrics

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INSIDERS: 33%

SHARES ON ISSUE: 40.3 M

FULLY DILUTED: 49.2 M

RECENT PRICE (May 09): C\$0.17

52 WK HIGH/LOW: \$0.12/0.50

MARKET CAP: C\$6.9 M

CASH: C\$0.5 M

ENTERPRISE VALUE: C\$6.4 M

12 Month Price Chart @ 18/04/2018 (www.stockwatch.com) \$CA



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



Management Team

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 placed for continued growth.



The old Kilbricken Mine, a Victorian era Pb-Zn mine worked 1834-1854. A Cornish Engine House is still visible today.

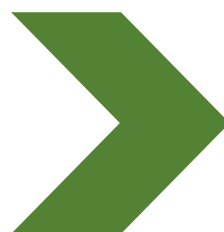
2017 Project Highlights

- ✓ Raised CDN\$4.8m, listed Feb 2017
- ✓ Maiden resource
- ✓ **Successful resource expansion program** – 7,000 metres
DH 217 8m @ 37.8% Zn+Pb and 174 g/t Ag
- ✓ **Soil >200 km² regional soil survey.**
 - ✓ 1,200 pts covering unsampled areas.
- ✓ **Seismic**
 - ✓ 41.7km 2D seismic survey
 - ✓ Re-processed 27 km 2D data (Lundin)
 - ✓ 5km² 3D seismic data

2018: Where we are going?

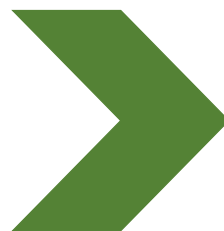
Drill Drill Drill

Drilling focusing on:



1. Leveraging on \$30M sunk capital at Kilbricken. Resource expansion
Initial exploration target:

10Mt >10%Pb+Zn



2. First order control to system targeting big structures from seismic data and geochemical anomalies

C\$1M combined program Q3-Q4 2018

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 >20 deep via technology shift.**

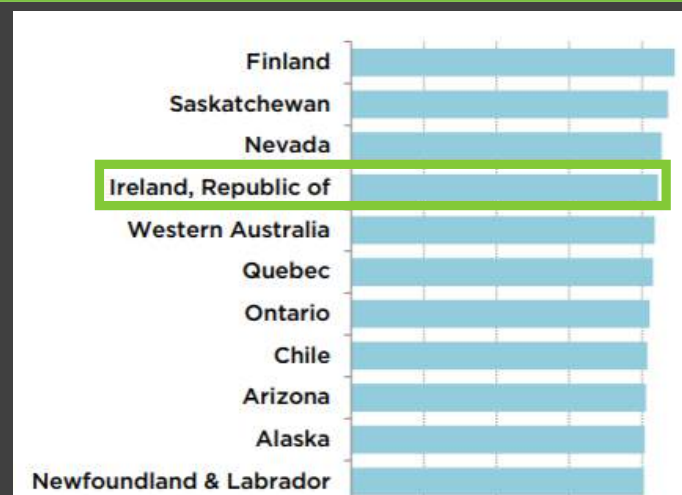


Investment Attractiveness Index

- ✓ Safe
- ✓ Cheap Grid Power
- ✓ Water
- ✓ Roads
- ✓ Skilled Workforce
- ✓ Airport
- ✓ No FIFO

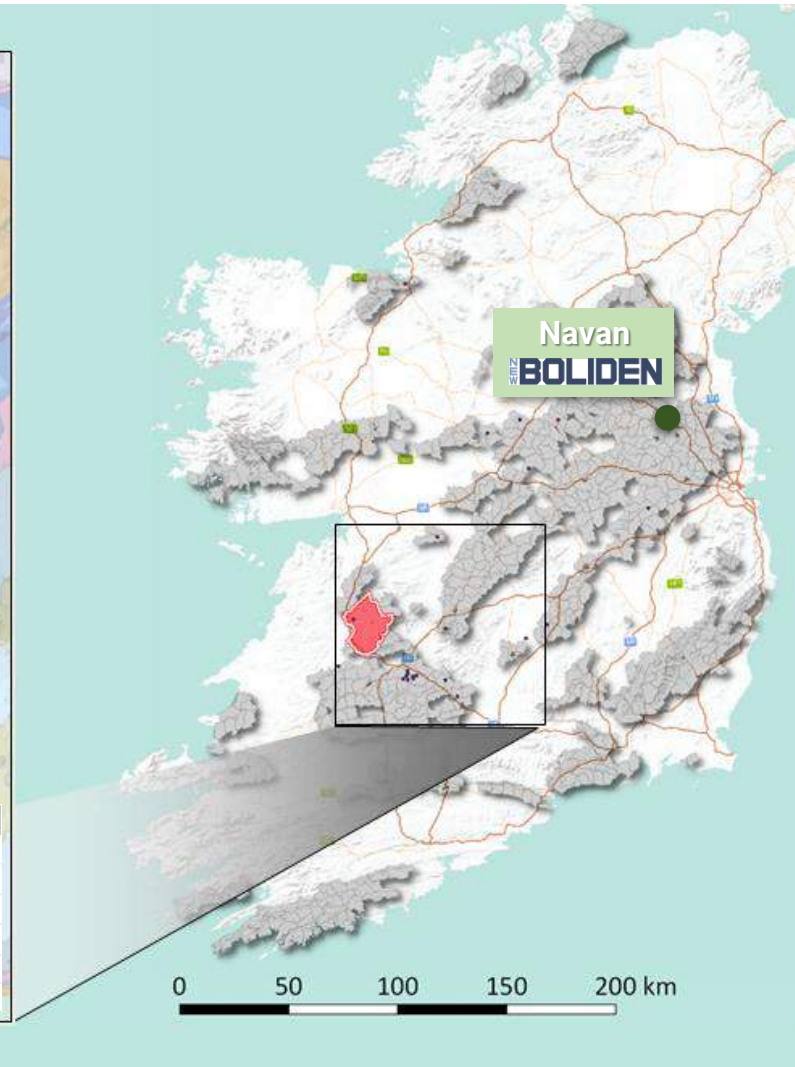
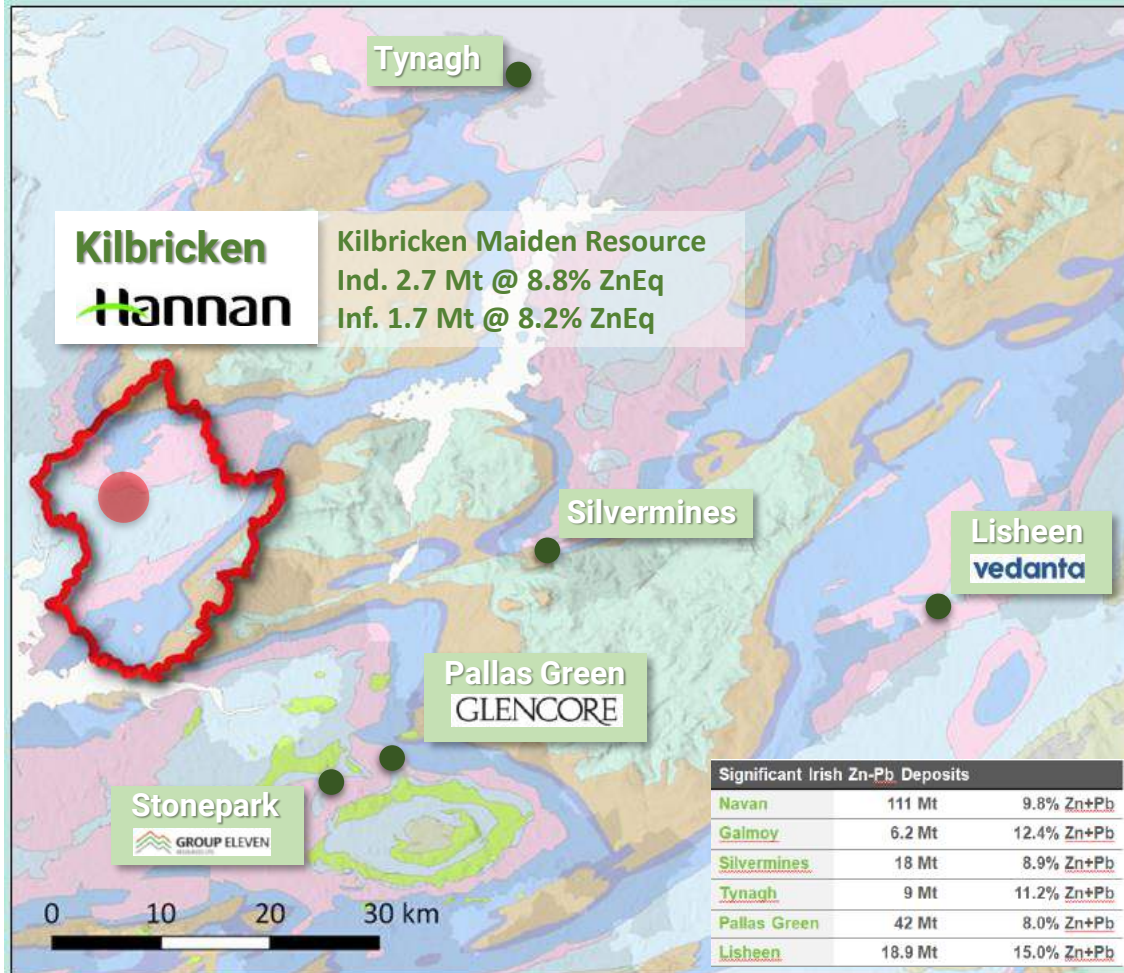


Huge
benefits
for
developers



Ireland: A Home of Zinc Mining

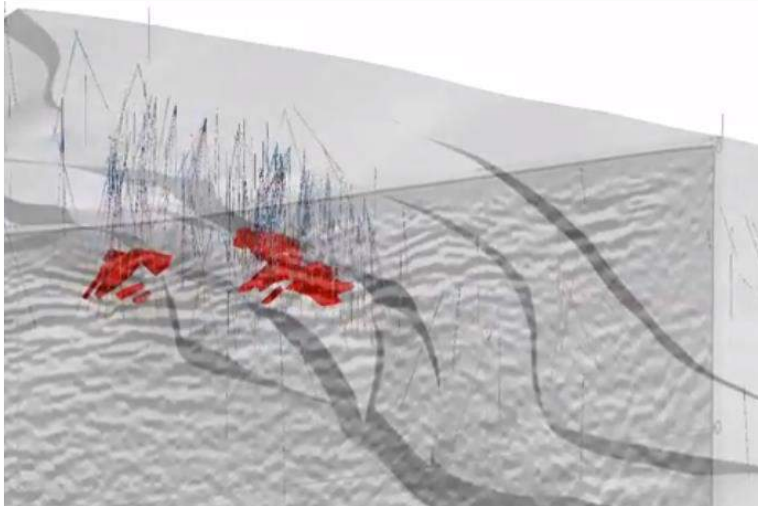
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Within 80km diameter SW Ireland contains >100Mt >10% Zn+Pb

Kilbricken: Victorian to Modern Era

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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

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

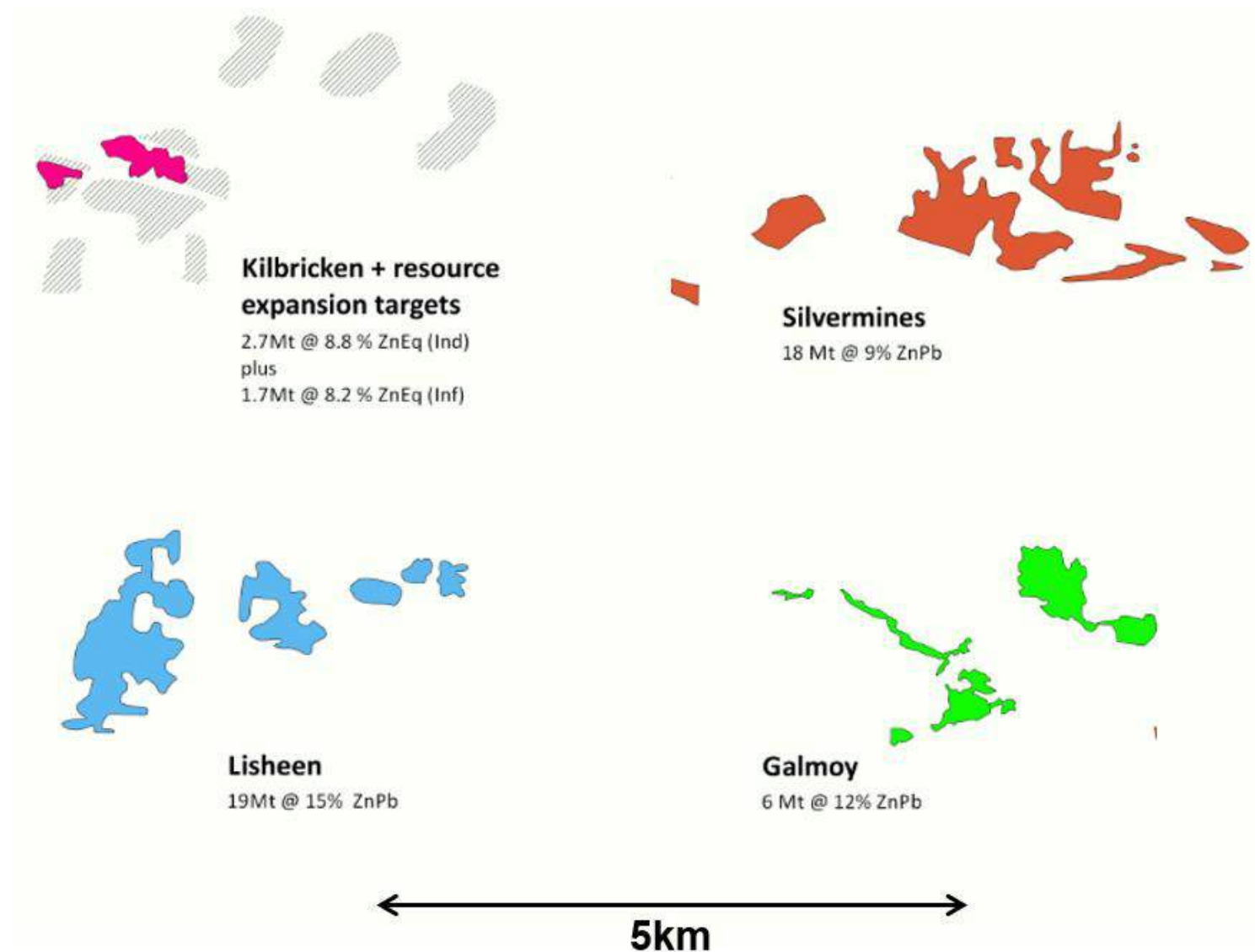
Inferred

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

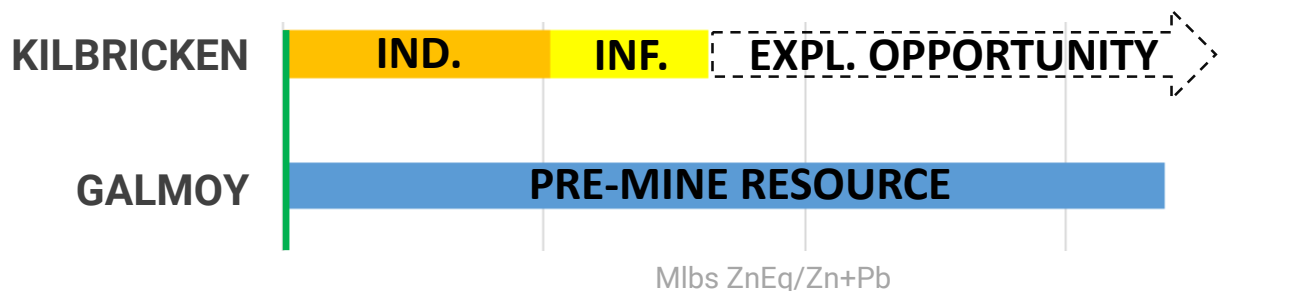
- ➡ 1. Immediately ranks Kilbricken as one of the top ten base metal deposits discovered in Ireland by tonnes and grade;
- ➡ 2. Two styles of mineralization. The upper Chimney Zone is classic high-grade (>10% Zneq) Irish stratabound mineralization targeted by Hannan. Averages 12m thickness. The lower 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

Expanding the search space

Seismic survey rocking Quin

Carol Byrne

A SEISMIC survey is currently taking place in Quin and Doora and locals are being advised that a seismic contractor will be in the area, in order to map the underground geology.

Hannan Mining recently acquired the rights to the old zinc and ore mine in Kilbreckan, Doora, and the operations have been permitted by the road management office and comply with all relevant central and local government regulations.

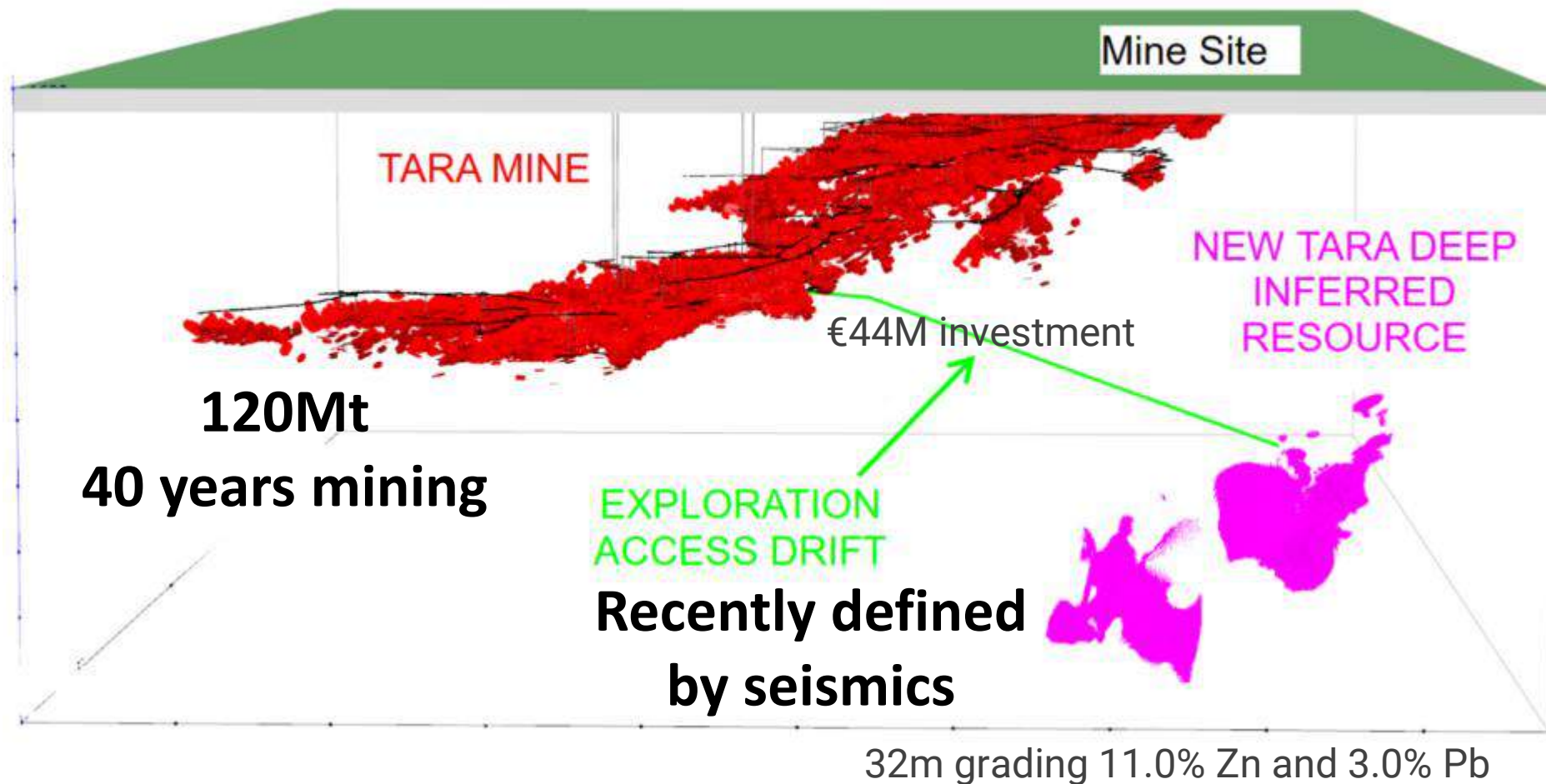
It is expected that the works will take approximately a week.

Councillor Clare Collieran Molloy has advised locals that the survey is to take place almost entirely on public roads and has been planned to minimise any



Tara Deep Seismic Extension

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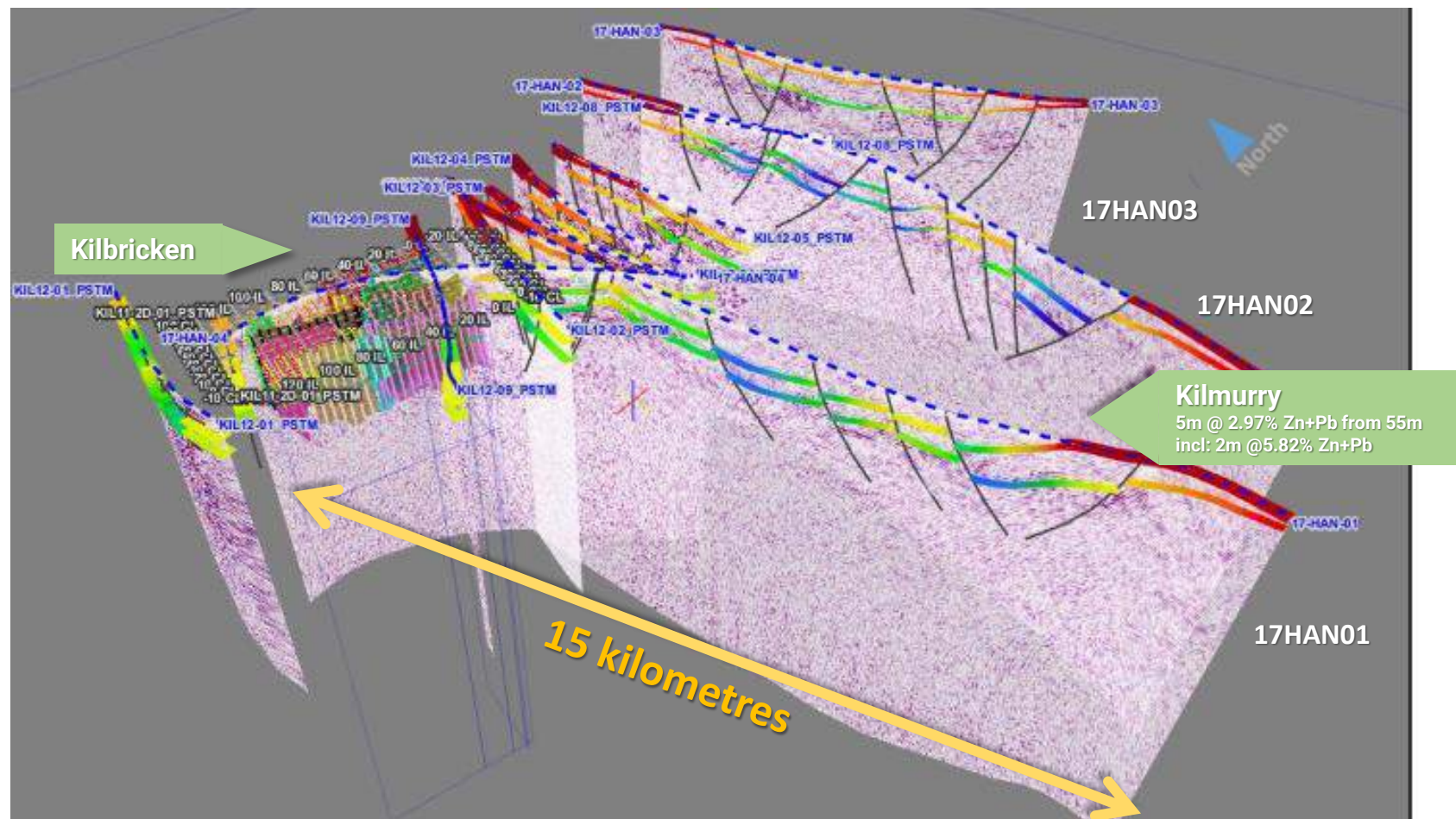


<https://www.boliden.com/globalassets/investor-relations/reports-and-presentations/capital-markets-day/2017/tara/tara-deep-mineral-resource.pdf>

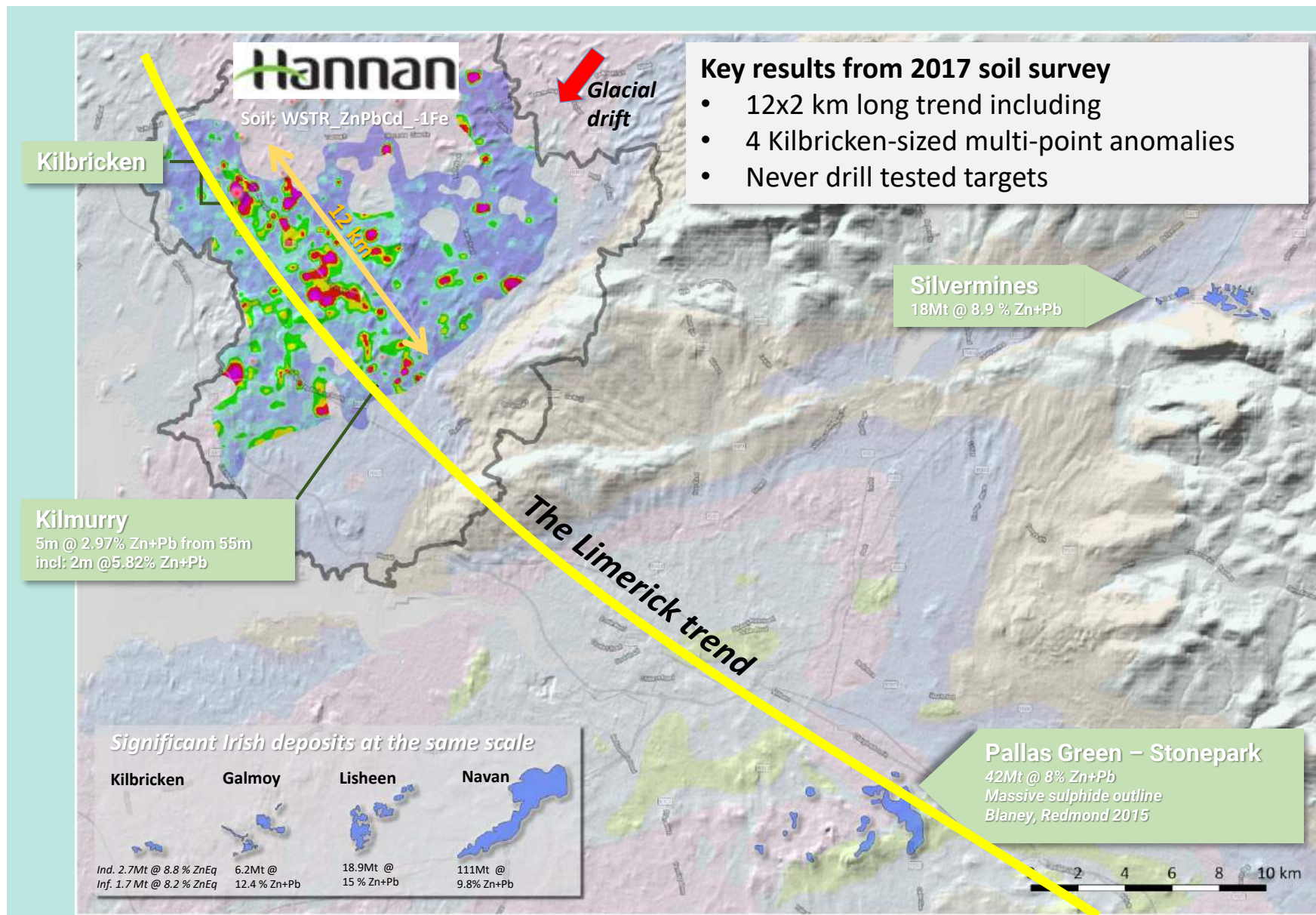
Expanding the search space

Total of 68 km of 2D seismic

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

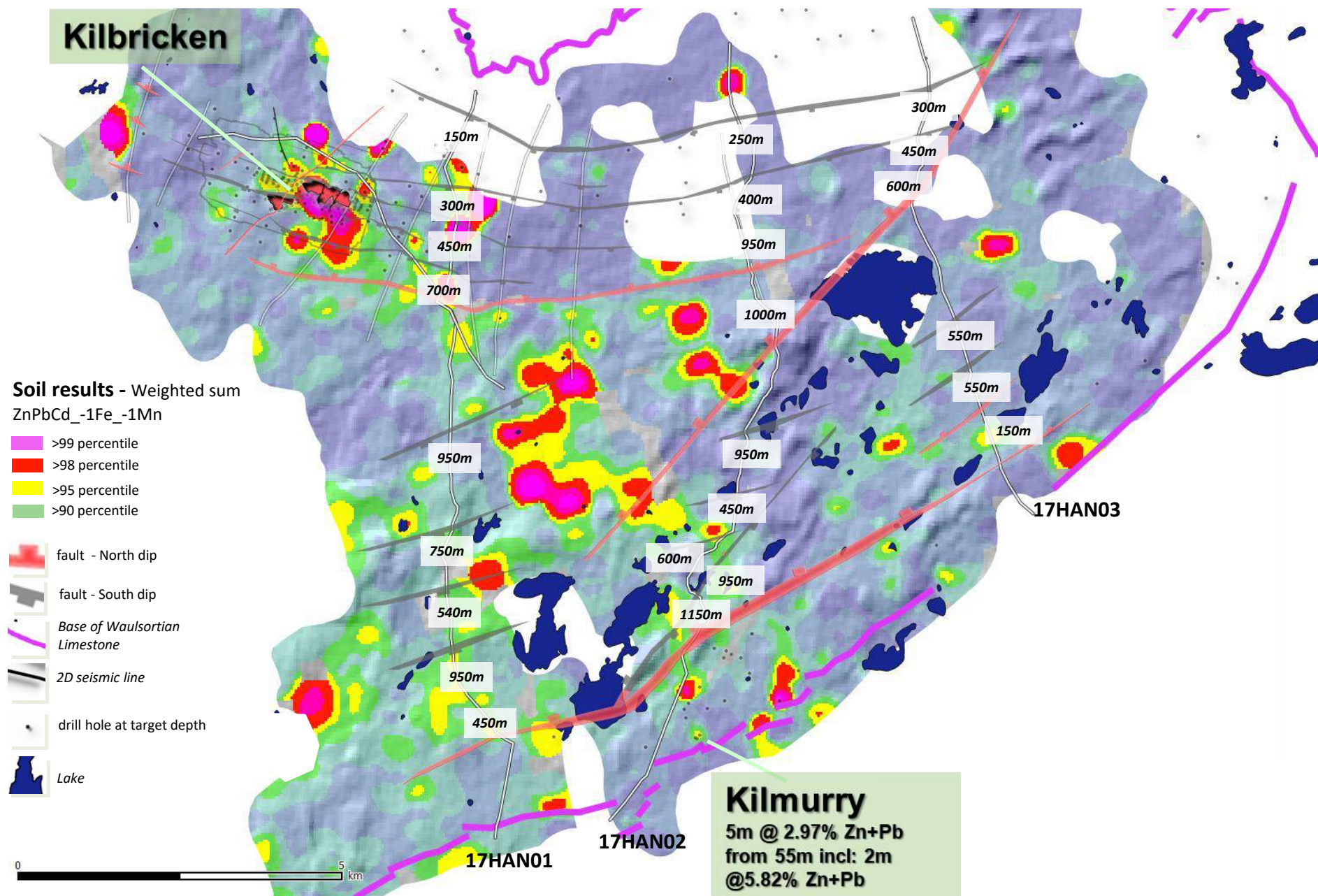


Expanding the search space

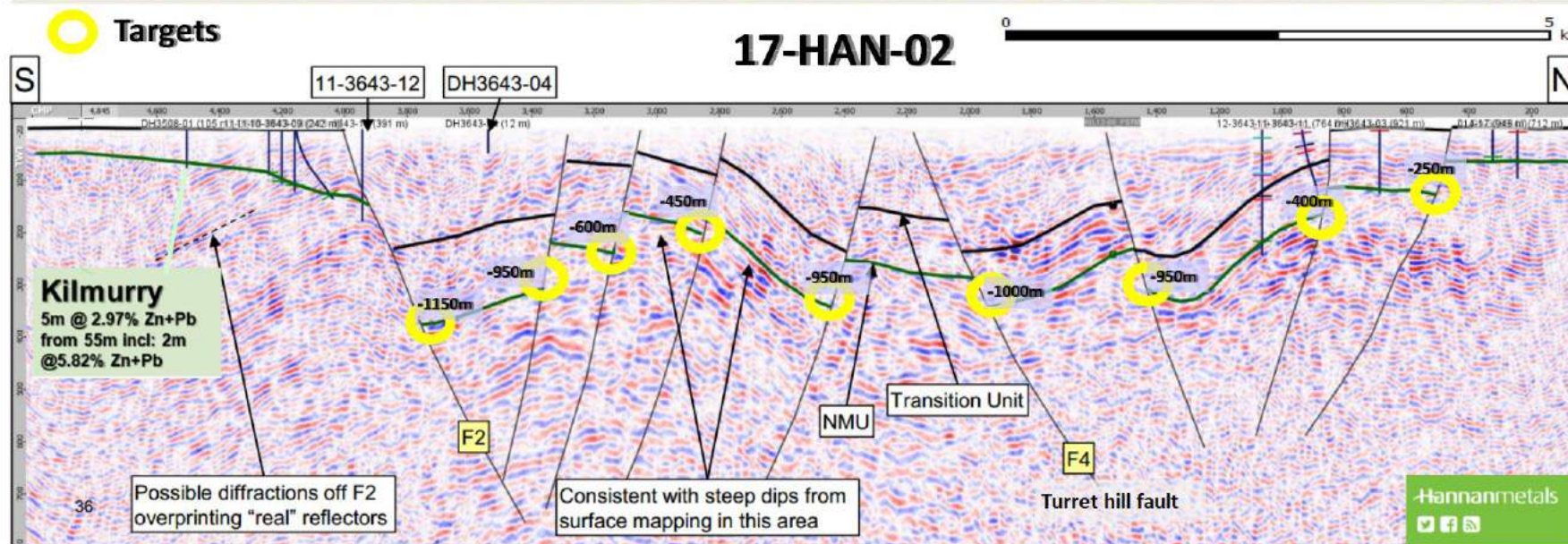
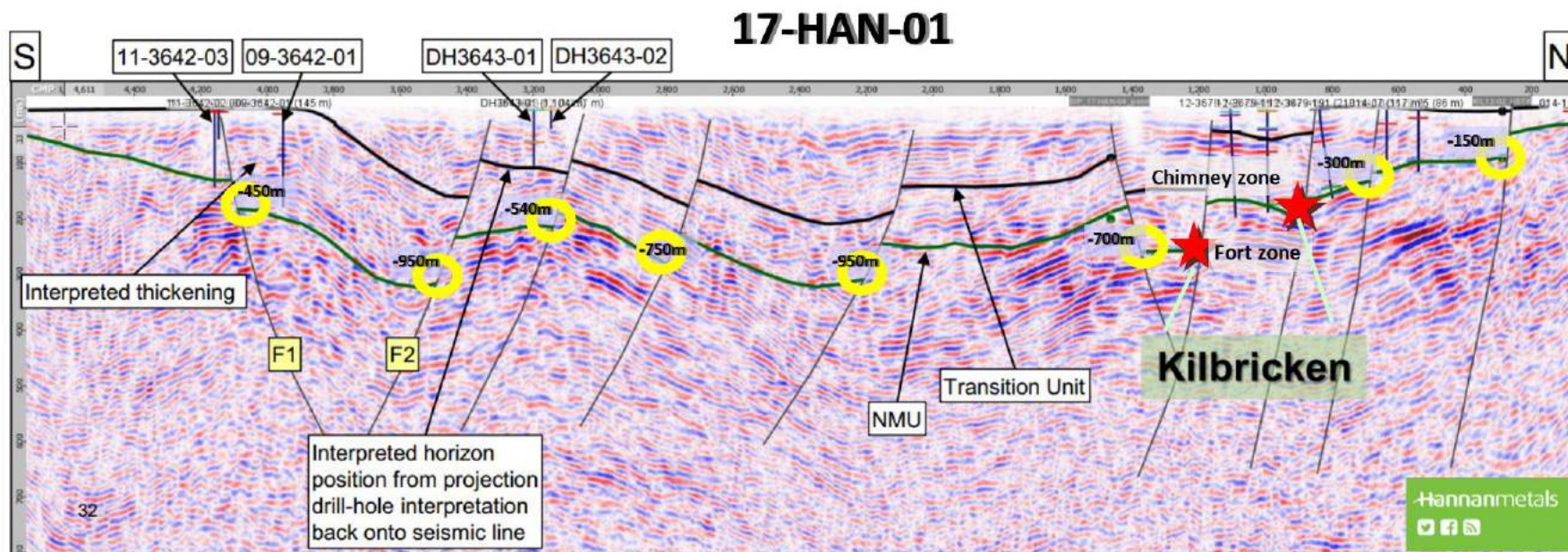


Clare Basin: Structure and Soils

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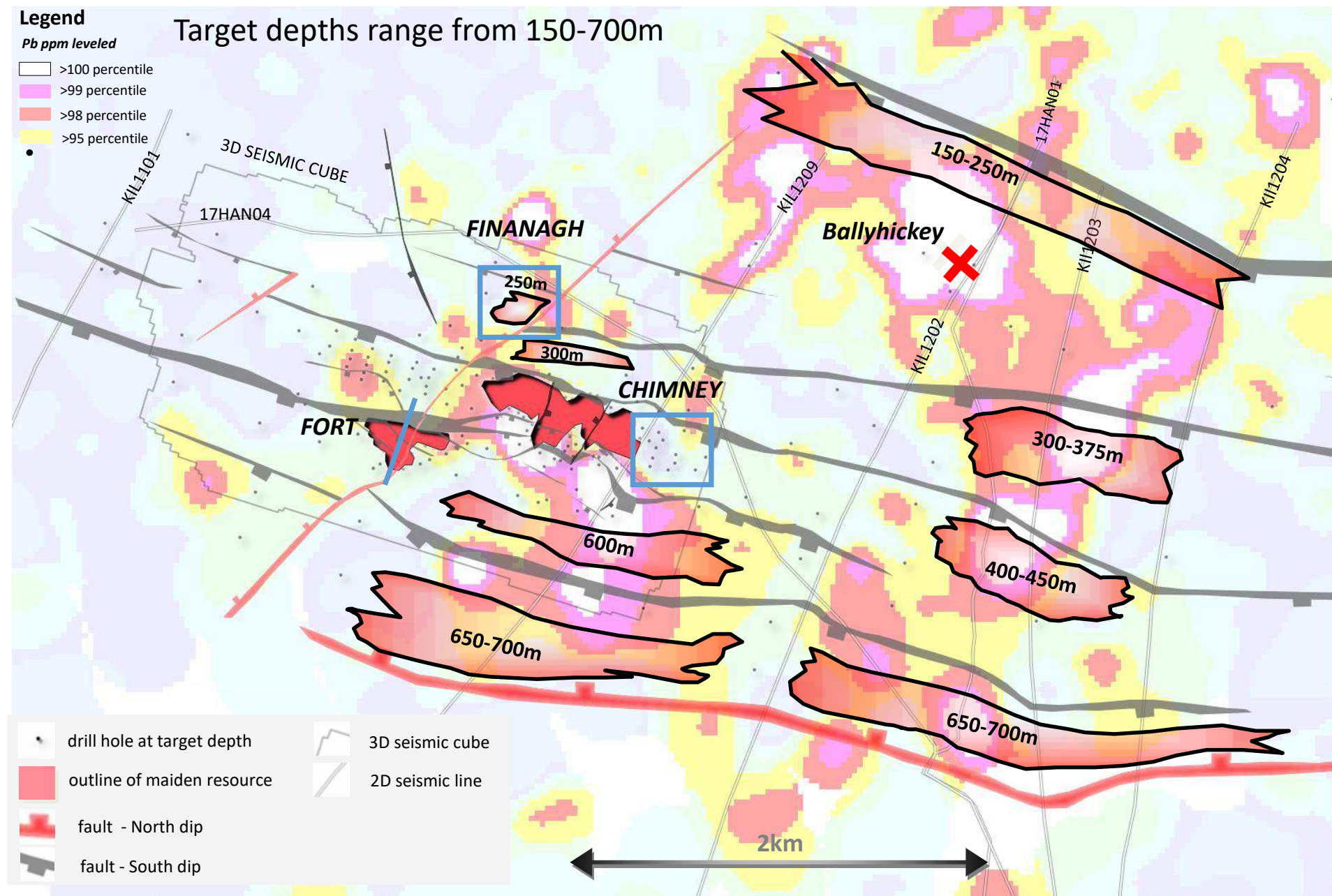


Expanding the search space



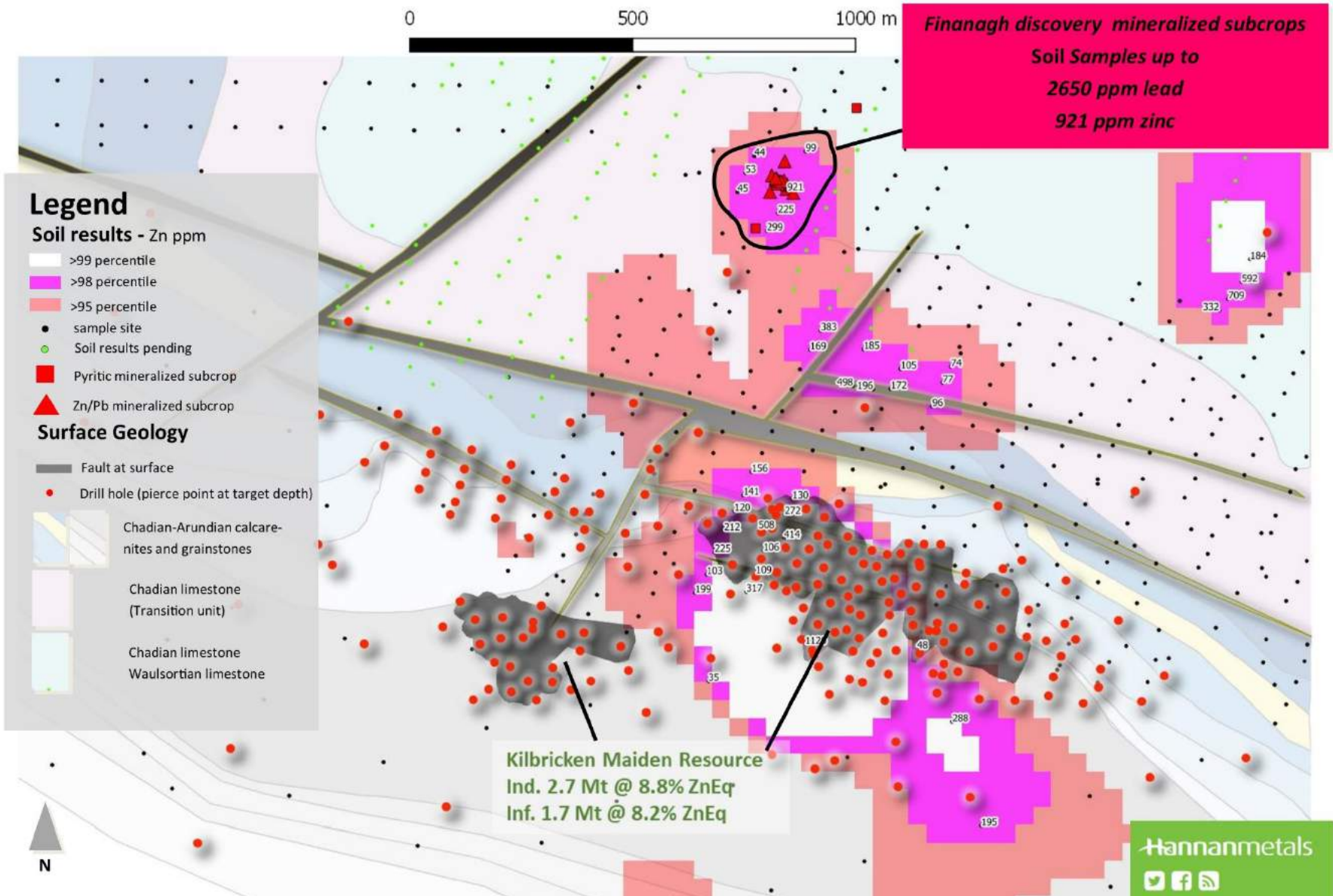
Resource expansion, 12km strike

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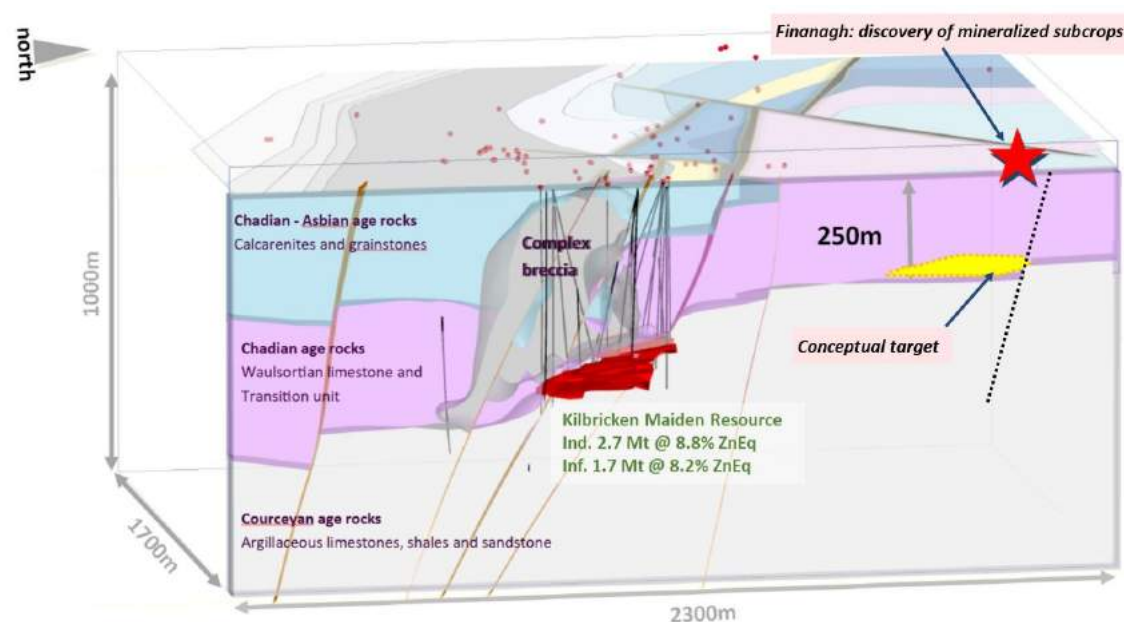
Finanagh - Strong shallow targets

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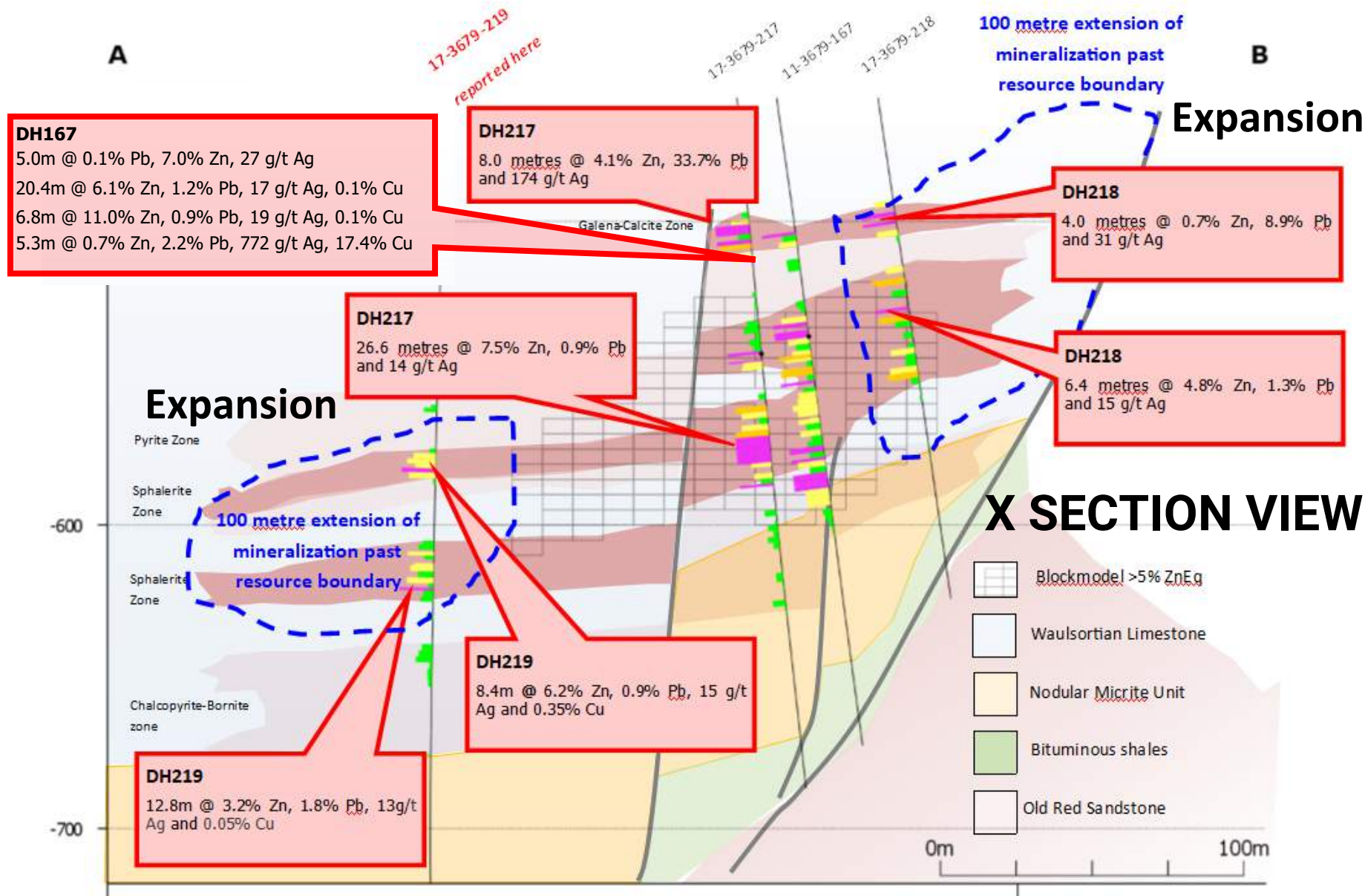


Finanagh - Strong shallow targets

- Multiple occurrences of coarse grained galena (lead sulphide) and sphalerite (zinc sulphide) have been discovered in rocks exposed by recent forest cutting over an area of 70 metres by 60 metres;
- Correlates with extremely high lead (up to 2,650ppm) and zinc (up to 921ppm) values in soil samples;
- Outcrops comprise immediate drill targets that have never been drill tested



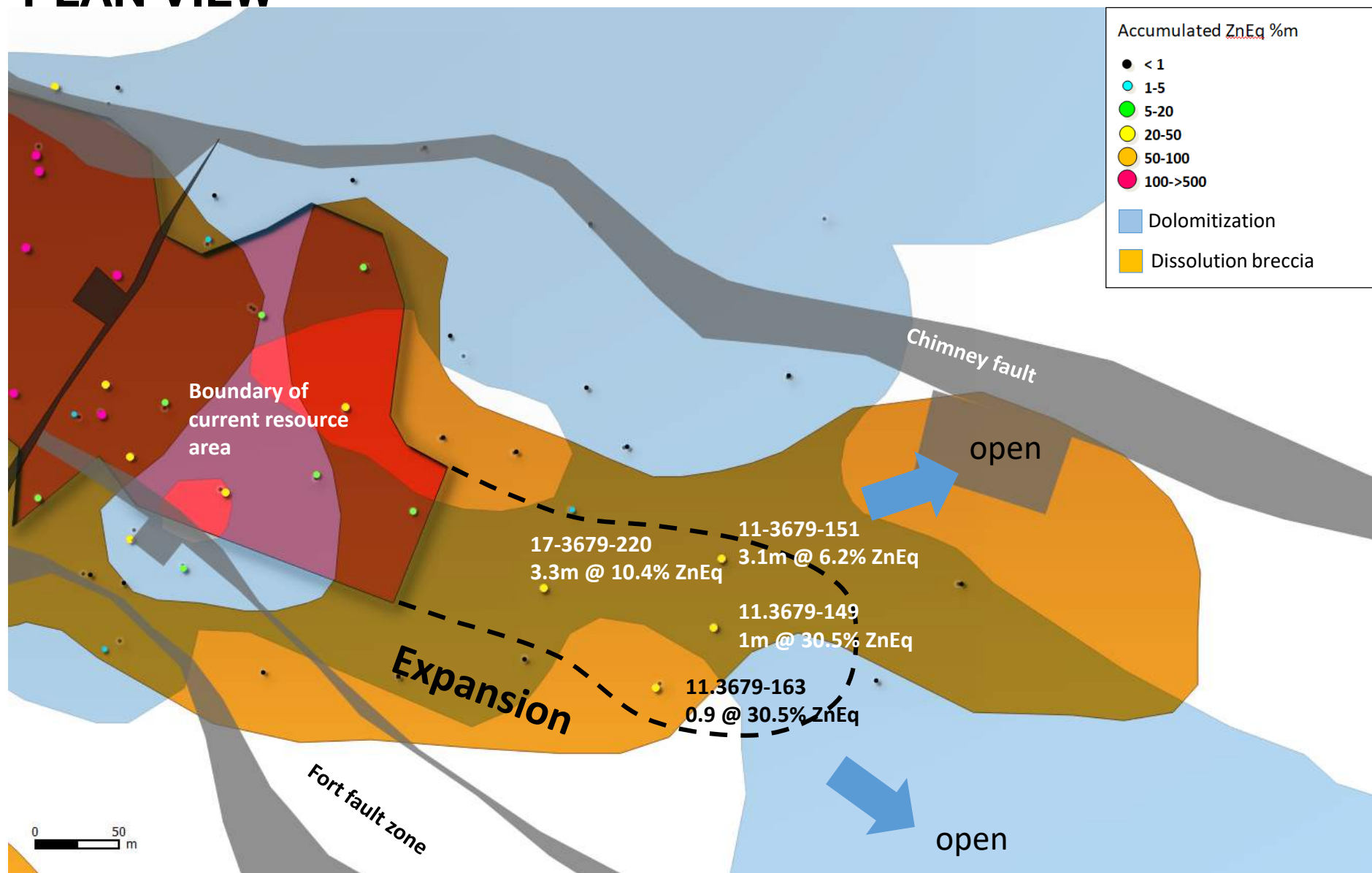
2017 Fort Zone Extension Drilling



2017 Chimney Zone Extension Drilling

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PLAN VIEW

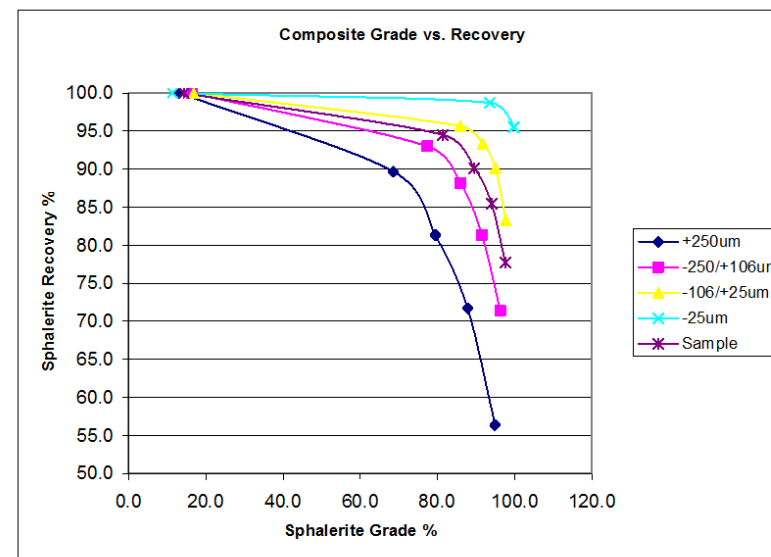
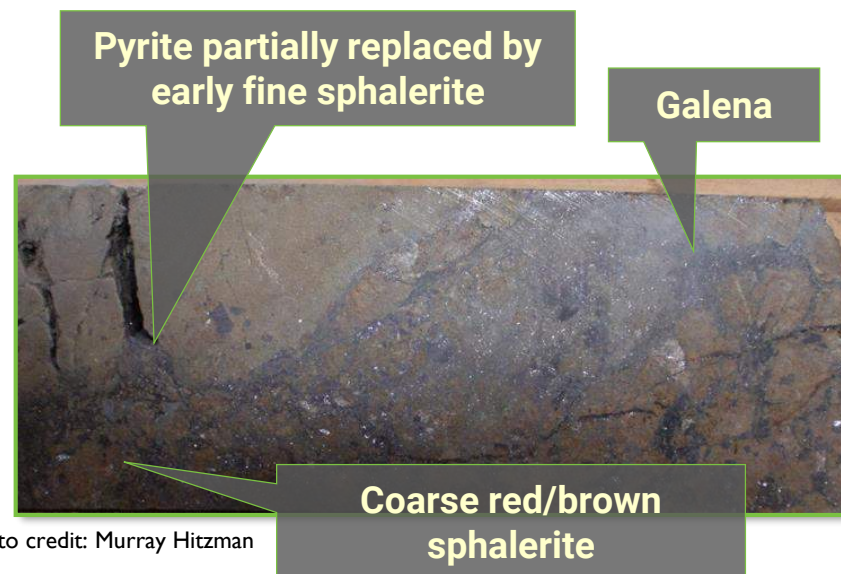


Kilbricken Mineralogy: No Red Flags

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.



Kilmurry - Big structure + smoke

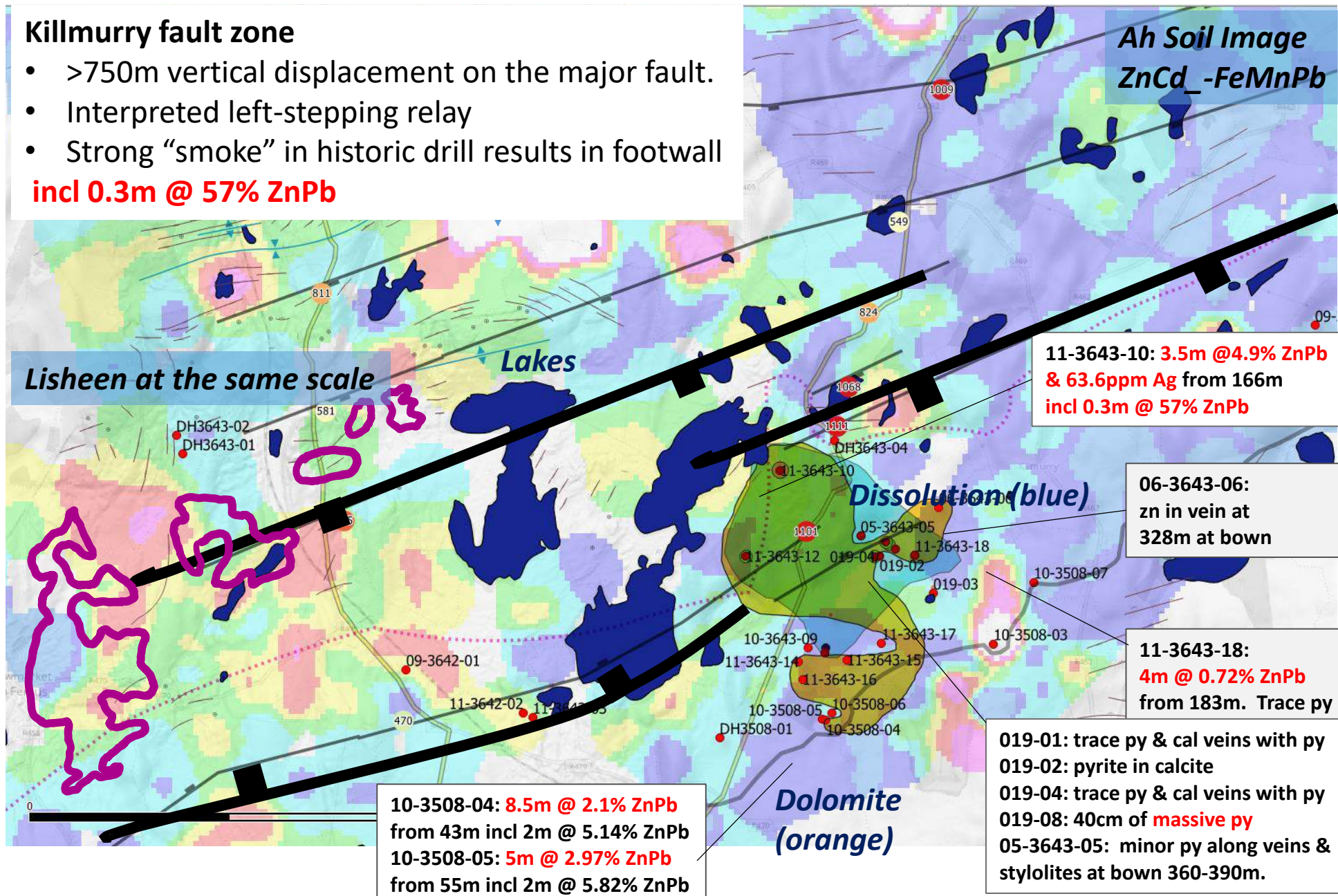
Killmurry fault zone

- >750m vertical displacement on the major fault.
- Interpreted left-stepping relay
- Strong “smoke” in historic drill results in footwall

incl 0.3m @ 57% ZnPb

Ah Soil Image
ZnCd -FeMnPb

Lisheen at the same scale



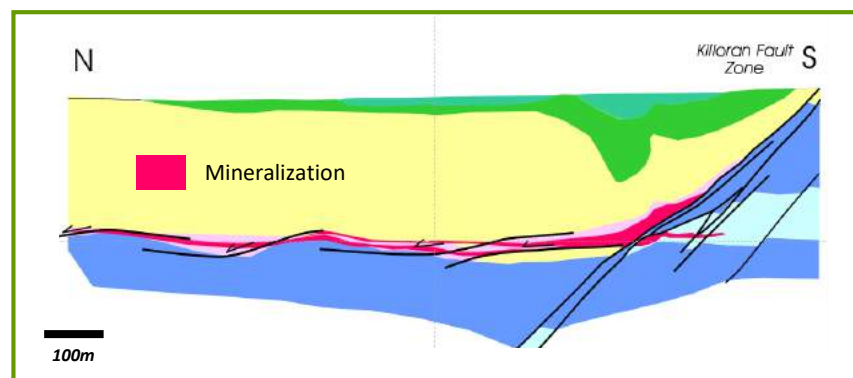
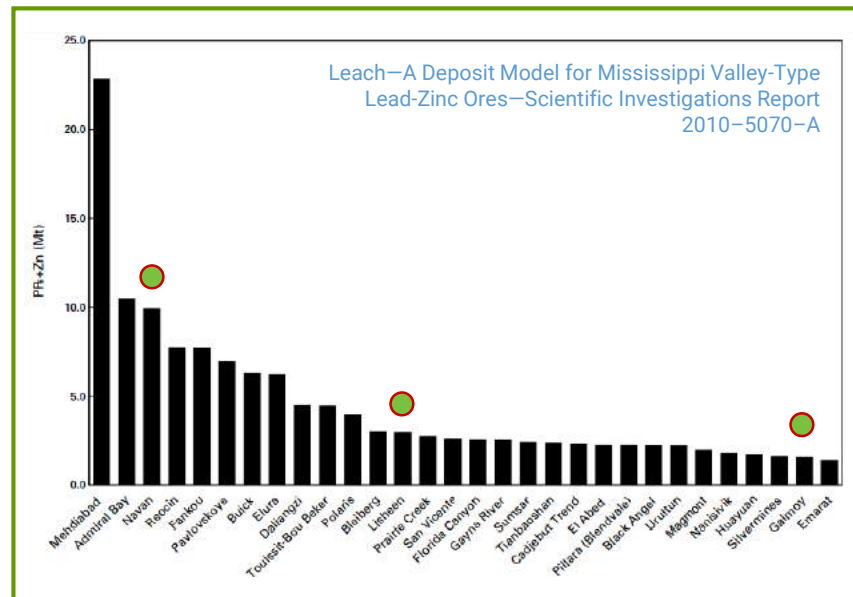
- New zinc discovery made during last downturn - US\$30M sunk capital;
- High grade mineralization, expandable at all scales, from near resource to prospect scale. 35,000 hectare land package with 40 km trend to test;
- Executing active work programs:
 - Drill Drill Drill
 - 65km 2D seismic completed – playing the big game;
 - 4km drilling planned for Q3 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.

- **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

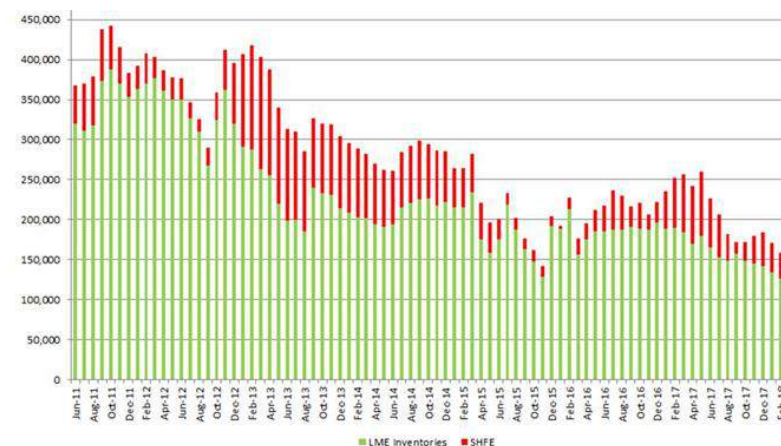


The Facts on Zinc

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:

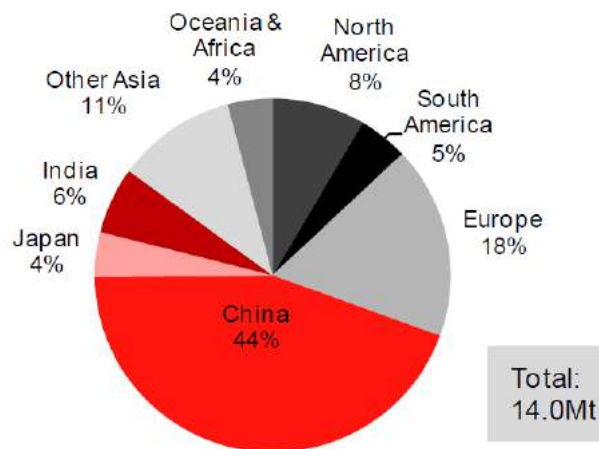
Name	Country	Owner	T Zn Mined 2015
Red Dog	USA	Teck	567,000
Rampura Ag.	India	Vedanta	510,000
Mount Isa	Australia	Glencore	478,000
McArthur Riv.	Australia	Glencore	272,000
Antamina	Peru	Glencore/BHP	191,000
Cerro Lindo	Peru	Votorantim	177,000
Penasquito	Mexico	Goldcorp	176,000
Tara	Ireland	Boliden	133,000

Total Global Lead Inventories

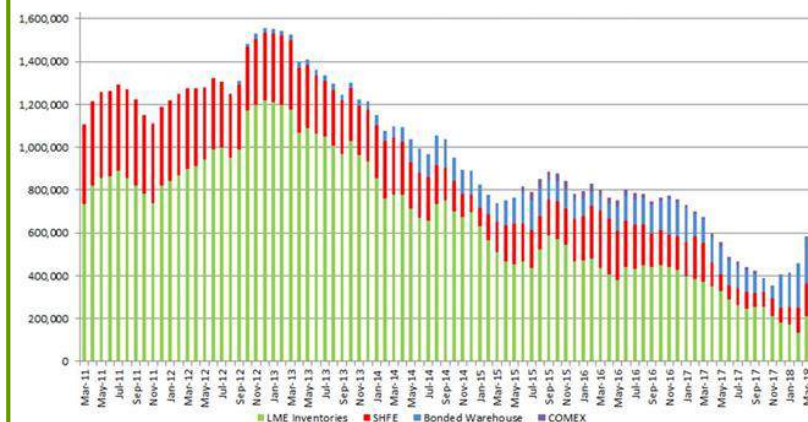


Source: Source: LME, Wood Mackenzie, CRU, ILZSG, Macquarie Research, May 2017, Scotia Bank

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



Total Global Zinc Inventories



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

