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•ENERGY

•MINING

•INDUSTRIAL

The 162 strategy is to identify opportunities, create the project, work with partners and develop. Over 30 joint ventures with multinationals have been negotiated and fifteen companies have been listed on the Stock Exchange. The market value of the companies is in excess of £135m. Balance sheet values £55m.

CURRENT OPERATIONS

Established

ENERGY

- 1982 Petrel Resources plc. – Listed on AIM 1995. Petrel Resources is an Oil exploration company focused on Ghana and Iraq.
- 2011 Clontarf Energy plc. –Listed on AIM in 2011. Clontarf Energy is an explorer with oil interests in Ghana, and lithium projects in Bolivia.

MINING

- 2011 Botswana Diamonds plc. – Diamond explorer listed on AIM Stock Exchange in London in 2011. Focused on South Africa, late stage diamond exploration in Botswana, and early stage opportunities in Zimbabwe.
- 2003 Arkle Resources plc. – Listed on AIM. Gold and Zinc exploration in Ireland. Joint venture with Group Eleven. Zinc discovery in Limerick. Gold in Wicklow and Donegal
- 2012 Greenore Gold – unlisted gold explorer focused on Scotland, joint venture with Koza of Turkey.

INDUSTRIAL VENTURES

- 2012 Great Northern Distillery – Largest Irish owned distillery complex in Ireland producing 8 million plus Litres (2m cases) of single grain and malt Irish whiskey a year.

BOTSWANA DIAMONDS (AIM: BOD)

At a Glance

- **AIM: BOD, BSE: BOD -** Dual listed London & Botswana market cap £8.0m.
- **Experienced Management -** Prior successful commercial diamond discovery (AK6/Karowe): African Diamonds plc returned 25x investment.
- **Vision -** Development of quality, advanced, primary diamond projects close to current or historical diamond mines.
- **Best Address -**

Botswana: *'The Switzerland of Africa'*.

South Africa: under explored but with strong infrastructure.

Zimbabwe: under-explored.
- **Technology -** Application of third generation exploration technology.
- **Partnerships *Risk sharing* -**

Botswana: BCL/Maibwe.

South Africa: Vutomi Mining Pty Ltd.

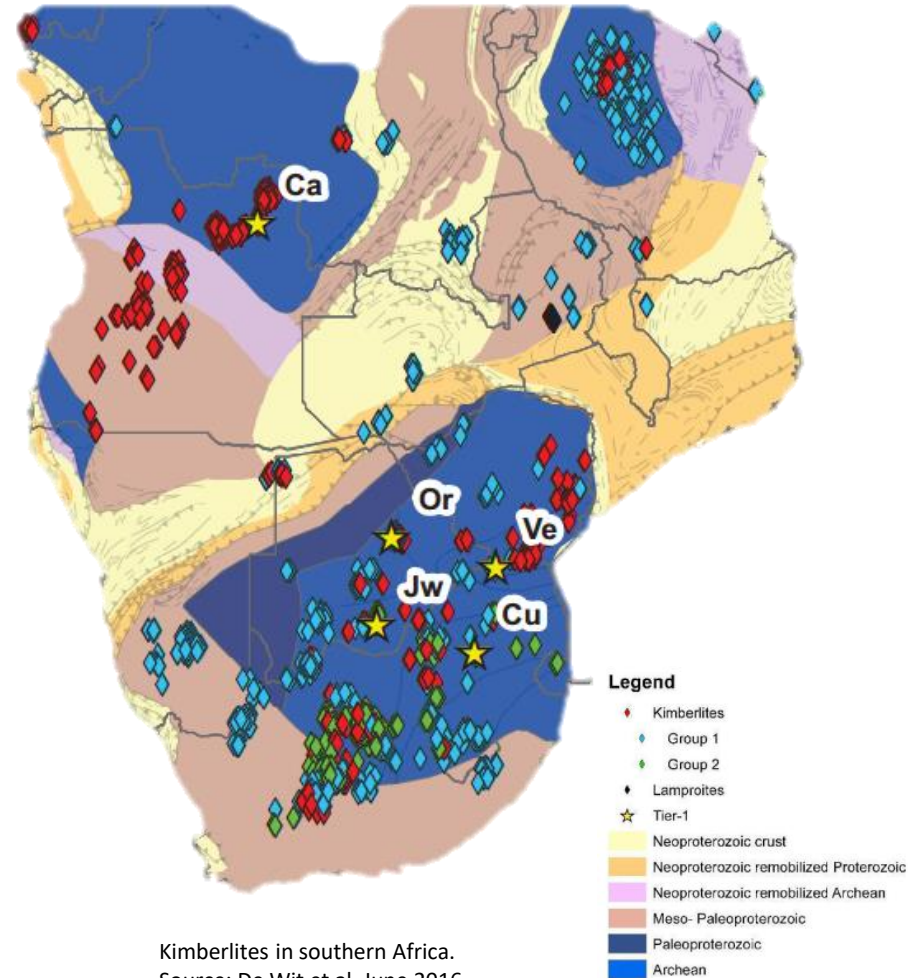
Zimbabwe: Vast Resources plc.

MINING

BOTSWANA DIAMONDS (AIM: BOD)

Four ventures on the highly prospective Kaapvaal Craton

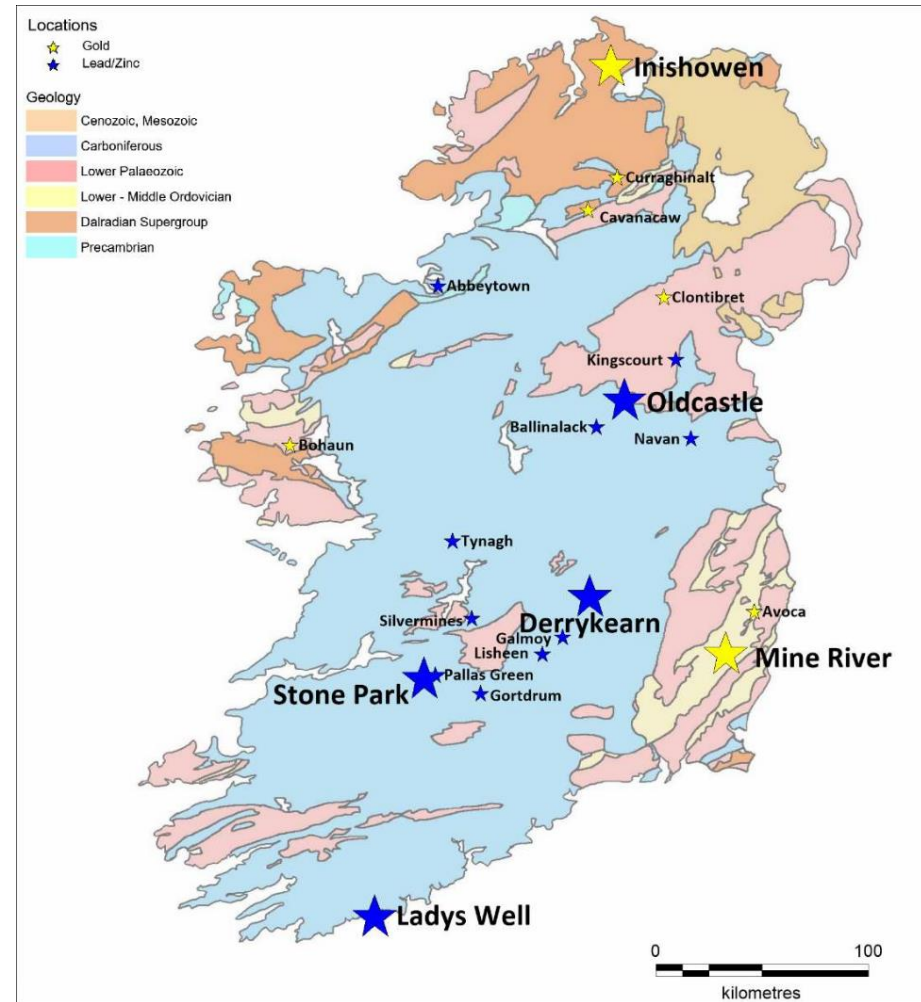
- **Vutomi Earn-In (South Africa)** - Vutomi has prospecting rights over 18 high interest kimberlites & 25,000 hectares of highly prospective ground in South Africa. Focus on Marsfontein and Thorny River late stage projects
- **Maibwe Joint Venture with BCL (Botswana)** - JV on a block of 10 licences in the Kalahari with partners BCL, Future Minerals & Siseko. Diamonds discovered in earlier drilling .
- **Sunland Minerals (Botswana)** - Grass roots exploration on 8 Licences in the Orapa and Kalahari regions. Advanced negotiations to acquire a portfolio of assets.
- **Zimbabwe** - MoU signed with Vast for development of diamond projects in Zimbabwe. Applications for licences in the Binga Region.



Kimberlites in southern Africa.
Source: De Wit et al, June 2016

ARKLE RESOURCES (AIM:ARK)

- AIM listed – Market Cap £2.1 million Established to exploit and develop zinc and gold opportunities in Ireland, 32 licences.
- High potential zinc discovery at Stonepark near Limerick – 3 zones, 2 km apart. Resource of 5m tons to date. Joint venture with Group Eleven (TSE). Arkle holds 23%.
- Oldcastle zinc block currently joint ventured with Teck Cominco who spent €1.35m to earn 75%.
- 5 gold licences in Wicklow. Drill results promising. Grade of 16.1 g/t over 2 metres.
- A good gold discovery on the Inishowen block in Donegal. Gold-bearing veins discovered.



Stonepark Zinc JV Project

- Maiden Independent NI43-101 Resource 5.1 million tonnes grading 11.3% zinc & lead.
- Relatively shallow deposit occurring at depths ranging from 190m to 395 metres.
- Recent drill result - 5.40 metres of 25.0% zinc and 7.2% lead.
- Deposit open in all directions, recent drilling of deep prospects.
- Adjacent Glencore's Pallas Green (42.2 million tonnes @ 8.3% combined zinc & lead).
- Our joint venture partners Group Eleven is 35% owned by Glencore.

Oldcastle Zinc JV Project, Westmeath, Cavan

- Teck likely to exit
- Targeting Navan-type deposit (Boliden Tara mine 30 kms away).
- Recently completed drilling on 3 holes, minor mineralisation observed.
- Comprehensive technical work, 2D seismic and drilling.
- Joint venture with Teck – spent €1.35 million to earn in to 75%.

Mine River Gold Project, Avoca, Wicklow

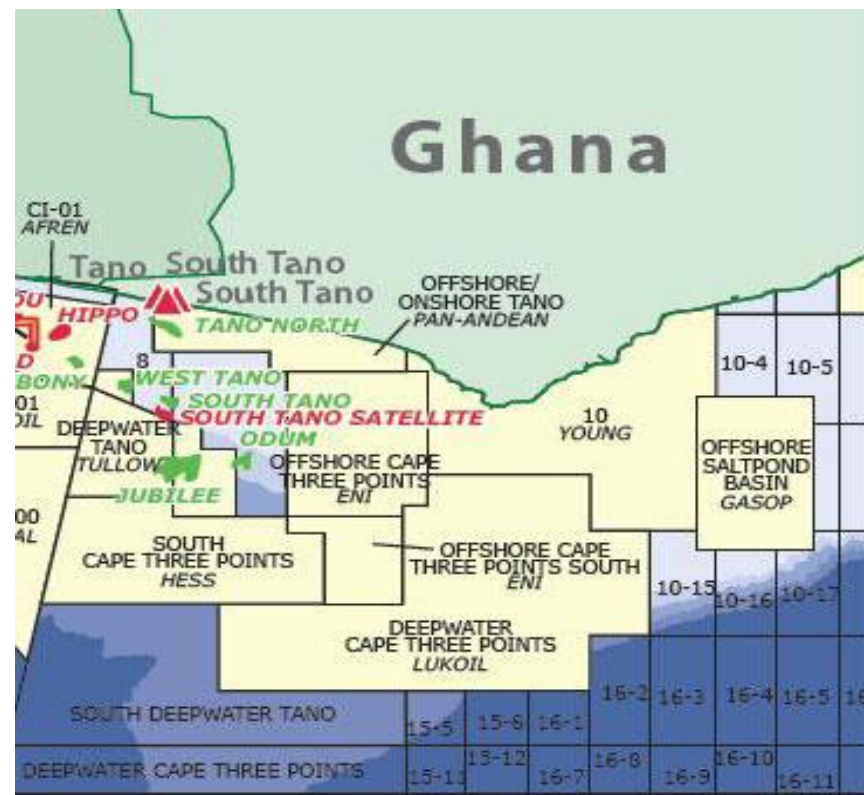
- Large target area in Wicklow / Wexford.
- Drilling completed in very few locations, 15 km geophysics trend correlates with historic sampling data.
- Tom Breen drilling confirmed exciting grades of 16.1 gm/tonne gold over 2 metres, with an 8 metre zone grading 4.53 gm/tonne.

Inishowen Gold Project, Donegal

- Targets are hosted in Dalradian rocks, 60km northwest of Curraghinalt the large gold discovery in Tyrone.
- Successive exploration campaigns have identified a series of parallel gold bearing veins.
- 12 holes include 3.05 metres grading at 5.8g/t gold, 4.82 m at 5.48g/t and 14.25g/t gold.

CLONTARF ENERGY(AIM: CLON)

- Listed on AIM in 2011.
- Market Cap £3.5 million.
- 1,600 shareholders.
- Residual oil interest in Bolivia.
- 60% interest in Tano Basin oil block offshore Ghana.
- Negotiating interests in lithium in Bolivia.



CLONTARF ENERGY(AIM: CLON)

Ghana

- 2 billion barrels discovered to date.
- Production began from Jubilee in 2010.
- Clontarf holds a 60% interest in a 2010 signed Petroleum Agreement on the Tano 2A onshore offshore block.
- In July 2014 an out-of-court settlement to adjust block coordinates to preserve the (1,532km²) acreage on similar terms, with expedited ratification. These were agreed with the Ministry of Energy, and state oil company GNPC.
- Negotiations started with the new government in May 2019 to confirm details, followed by expected ratification.
- Ongoing Discussions.

CLONTARF ENERGY(AIM: CLON)

Bolivia

- Bolivia holds over > 50% of the world's economic lithium resources (in accessible evaporites).
- Clontarf had operated a JV under MoU with the Bolivian military pension fund on the world's leading Lithium salt-lake from 2008 through 2011.
- This ended amicably when the military failed to ratify.
- In 2018, Clontarf was approached to renew its work.
- Bids submitted on medium-sized salt-lakes. Initial samples taken. Exploration program prepared and submitted.
- Ongoing discussions with the authorities on a concession.



PETREL RESOURCES (AIM:PET)

- Iraq is the focus of current activities. Petrel has had long investment in Iraq and won the \$200m Subba & Luhais EPC contract in 2007.
- Holds 30% of a concession on the Tano 2A block onshore/offshore Ghana. Awaiting ratification.
- A joint venture with Woodside Petroleum on FEL 11/18 Frontier Exploration Licence offshore Atlantic Ireland. Petrel has a 10% working interest. 3D seismic programme completed.
- AIM listed oil explorer founded in 1982 focused on Ghana and Iraq with residual interest offshore Ireland.
- 1,800 Shareholders. Market Cap £8 million.

GREAT NORTHERN DISTILLERY

- Own 100% of the Great Northern Distillery. The largest Irish owned distillery complex and second largest overall. Private company. Distillation Capacity 5.0m litres of pure alcohol (LPA) Malt, 12.0m LPA Grain.
- Irish whiskey is the second fastest growing brown spirit category in the world.
- The principals have extensive experience in the sector having built and sold Cooley Distillery to Beam / Suntory in 2012.
- Supplying over 140 customers with a range of mature and new make Irish whiskey.
- Currently operating 120 hours a week producing 8 million LPA grain and 1.5 million LPA malt a year.
- Profits in excess of €8m annually.



GREAT NORTHERN DISTILLERY



EARLIER BUSINESS VENTURES

- 2011** Hydrocarbon Exploration - Oil and gas producer/explorer in Bolivia, Peru, and Ghana. Merged with Persian Gold and relisted as Clontarf Energy in April 2011.
- 2007** West African Diamonds plc - Sierra Leone and Guinea diamond and gold producer. Merged with Stellar Diamonds, AIM listed in 2009. Taken over by Newfield (ASX) in 2017.
- 2005** Alternative Energy Resources - Ethanol supplier in Ireland. Dissolved and cash dividend paid.
- 2001** African Diamonds plc - Discovered the AK6 diamond deposit in Botswana. AIM listed 2004. Acquired by Lucara Diamonds of Canada in 2010 for \$100m in shares. Now the highly profitable Karowe mine.
- 2004** Persian Gold - Copper-Gold explorer in Iran. Listed on AIM in 2005. Drilling prospects in the Lut desert. Merged into Hydrocarbon Exploration in 2010.
- 2000** Swala Resources - A sub Saharan gold explorer. Operations in Zimbabwe and Burkina Faso. Reversed into Concordia on the Toronto Stock Exchange January 2012. Now Kaizen Discovery listed in Toronto.
- 1993** Minco - Silver in Mexico and Zinc explorer in Ireland and the UK. Acquired by Dalradian in 2017.
- 1988** Pan Andean Resources – Certain assets sold February 2010 to Petrominerales of Canada for \$31m. Listed 1995 AIM.
- 1987** Cooley Distillery - The first independent whiskey distillery set up in Ireland in 100 years. Sold in January 2012 to Beam/Suntory for \$95m.
- 1987** ASA Resources- Gold/Nickel producer in Zimbabwe. Listed on AIM market in London in 1995. Originally African Gold (acquired by Chinese interests in 2017).
- 1985** Irish Marine Oil - Took control of a failed offshore Ireland exploration company. Restructured it as a minerals explorer. It was acquired by Kenmare Resources. The shell was reacquired in 1993, rebuilt and restructured to become Minco.
- 1983** Kenmare Resources – London full list mining company operating in Mozambique. Acquired control of a failed exploration company in 1983 and rebuilt it as a mining company. Now world class titanium producer.
- 1983** CountyGlen - Property company listed in London. Originally a large textile company restructured in the early 80's and sold in 1993.
- 1985** Conroy Petroleum – Conroy later called Arcon discovered a large zinc deposit in Ireland in 1995 and brought it on stream in 1997. It was a fully listed UK stock exchange company until acquired by Lundin in 2005.
- 1983** Minquest Resources - Developed as a natural resource explorer. It was acquired by Conroy Petroleum in 1985.
- 1983** Burmin Exploration - Irish based exploration company was listed on AIM. Acquired by SIPA Resources in Australia which is listed.
- 1983** Ovoca Exploration - Gold Explorer in Russia. Listed on AIM. Now business changed to Pharma.

ONE SIX TWO GROUP PRINCIPALS



John Teeling

- 46 years resources experience.
- Extensive industrial experience in Ireland.
- Established a number of AIM resource companies.
- MBA from Wharton and Doctorate from Harvard.



James Finn

- 25 years experience in exploration companies.
- Held senior finance positions in industrial and commercial ventures.
- Director of 3 AIM companies.
- Qualifications in Accounting and Management.



David Horgan

- Holds a Law degree from Cambridge and an MBA from Harvard.
- Boston Consulting Group experience in Europe and South America.
- Former Commercial Director Kenmare.
- 36 years resource experience.



Jack Teeling

- Over 15 years experience in industry.
- Oversaw 85% growth in whiskey business between 2010 and 2012.
- Jack holds a MSc in International Business from Dublin University, MBS in Finance and B.Comm from University College Dublin.
- Co Founder of Teeling Whiskey Company.



Stephen Teeling

- Was Cooley Distillery Commercial Manager.
- Stephen holds a MBS in International Business from University College Dublin and Bachelors in Business, Economics, Political Science and Sociology from Dublin University.
- Co Founder of Teeling Whiskey Company.

David Hynes

- Holds a degree in Chemical Engineering from UCD and an MBA from Harvard.
- He worked in the chemical industry in the US for many years constructing new plants. After his MBA he worked in Business Development with Air Products and FMC. On his return to Ireland he was a marketing consultant before joining Cooley Distillery where he oversaw the construction of two distilleries and was managing director until 2010.