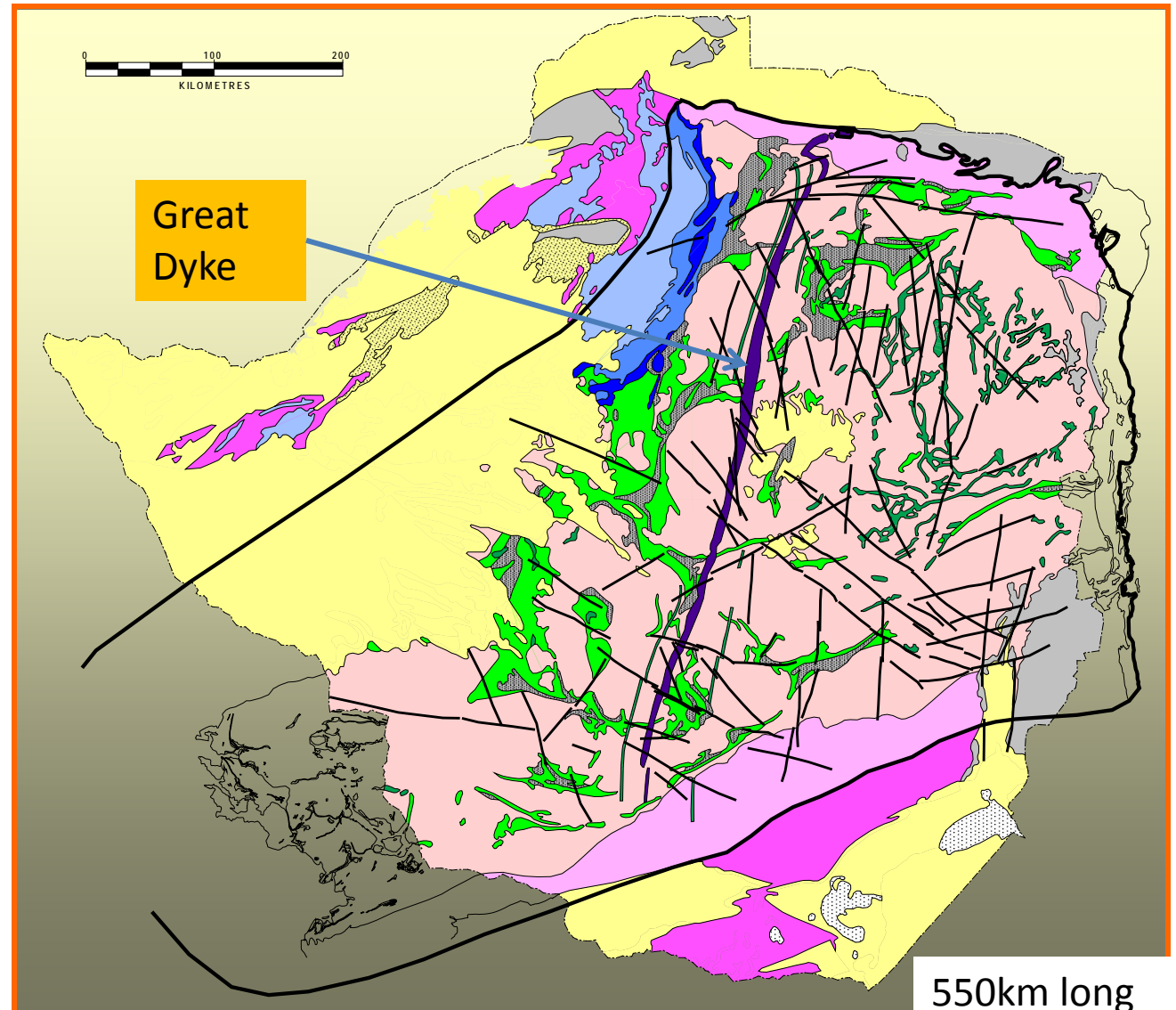
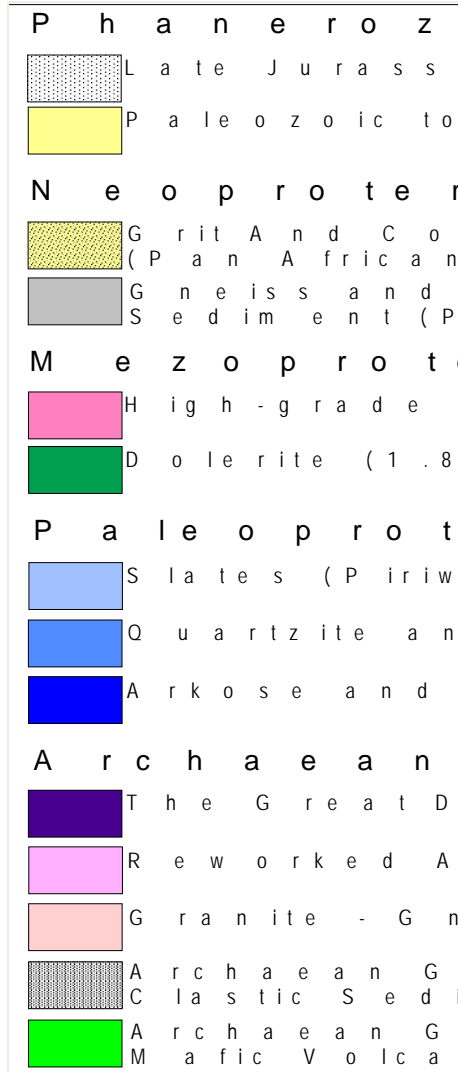


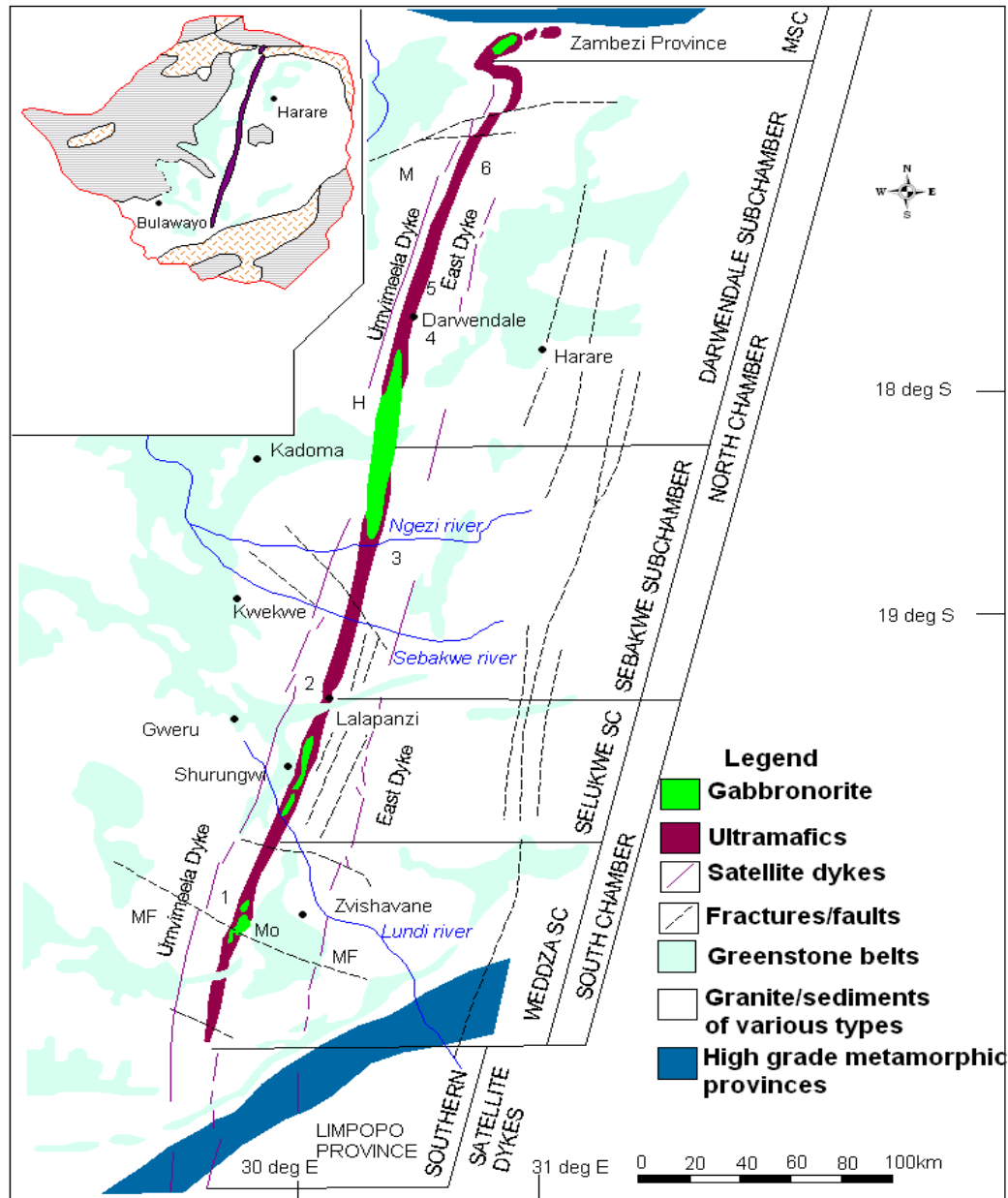
# A Snapshot of PGE resources of the Great Dyke

Collins Mwatahwa

# Great Dyke



550km long  
3-12km wide



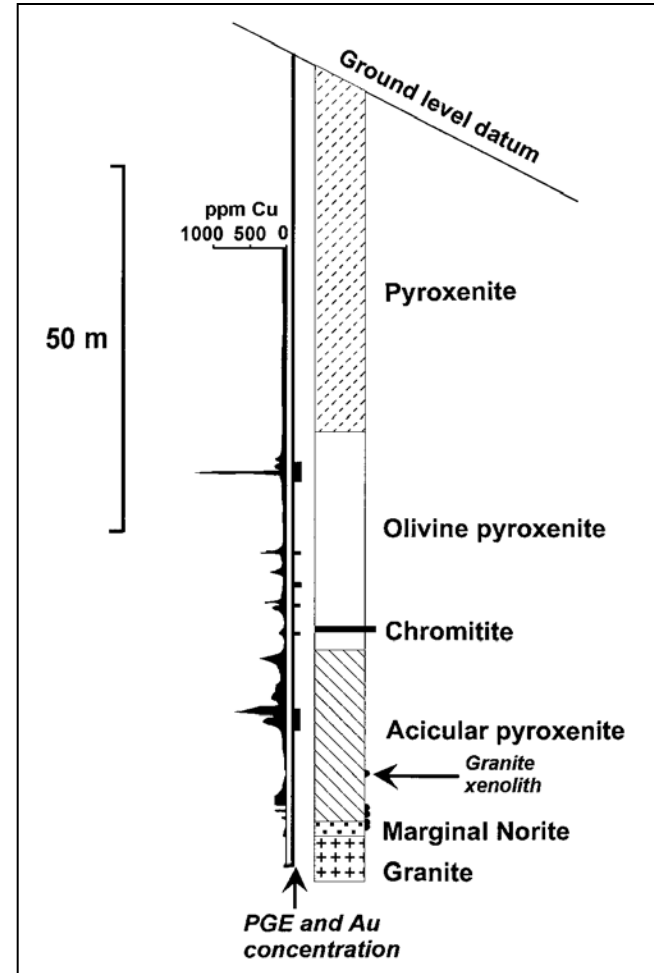
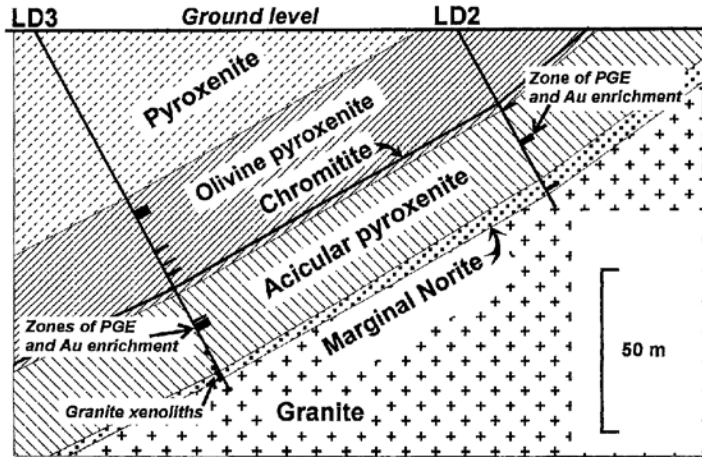
# Mineralised PGE zones of the Great Dyke

PGE –Pt, Pd, Rh, Ir, Ru, Os associated with Au, Ag , Ni Cu and Co

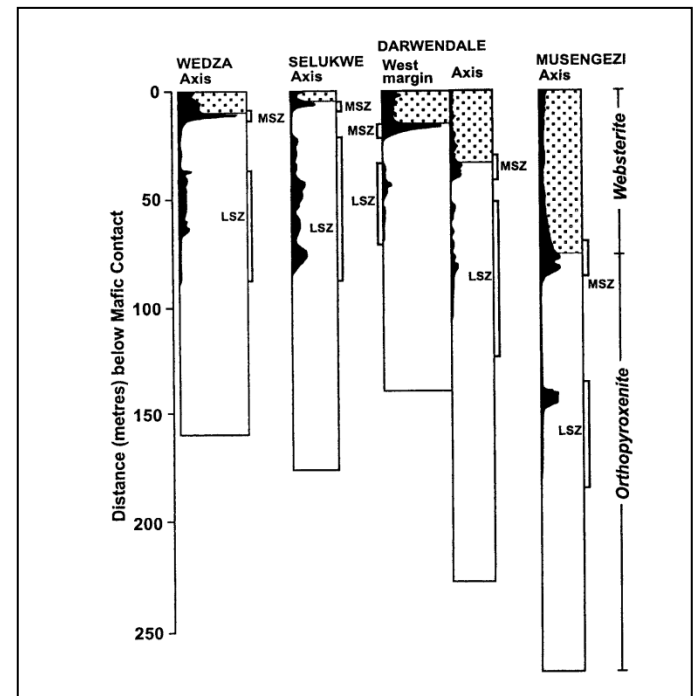
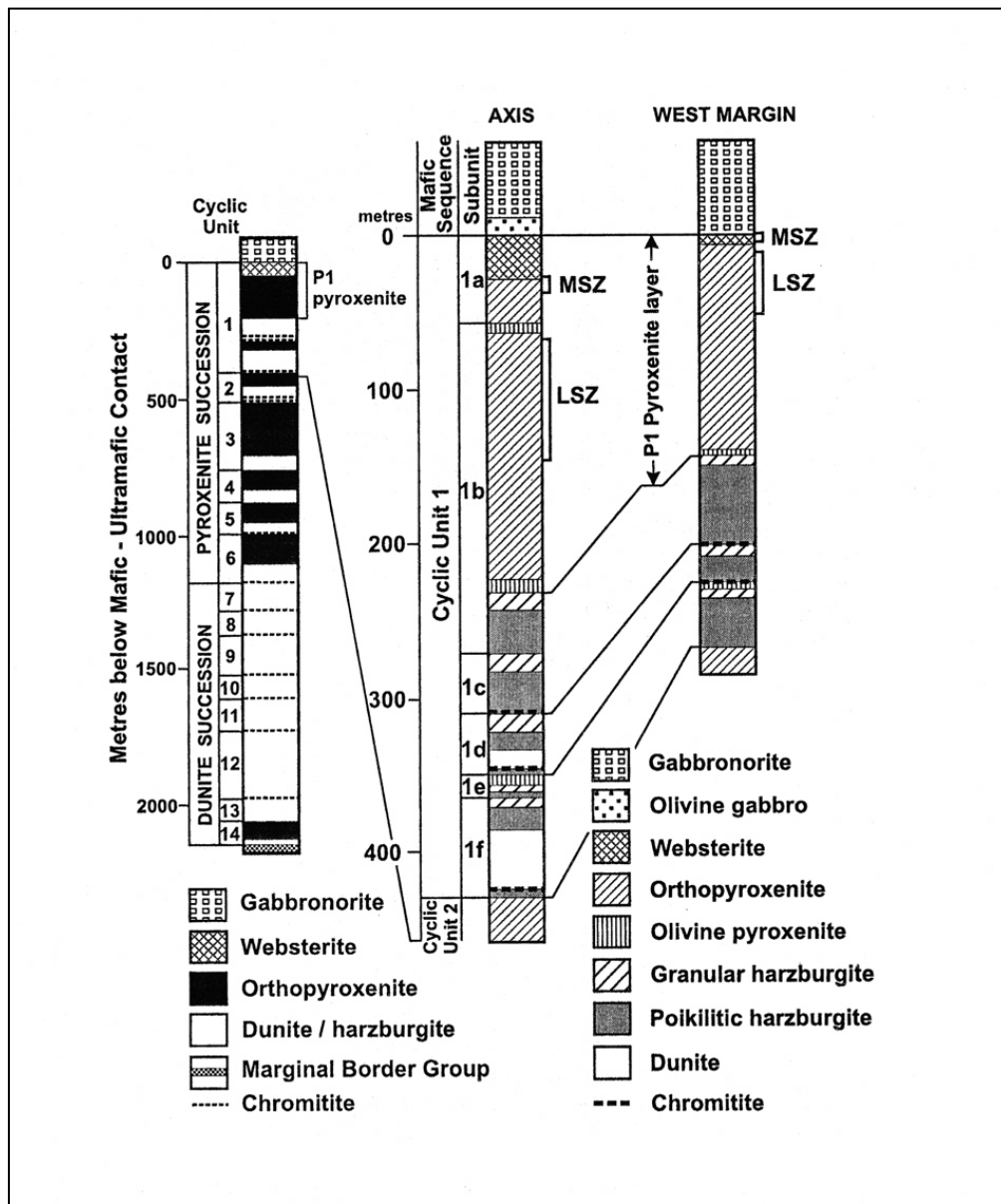
5 zones with PGE mineralisation have been identified

- Main Sulphide Zone-P1 layer (1925)
- Lower Sulphide Zone-P1 layer
- Chromite C1d-dunites and harzburgites
- Middle Mafic Unit-Mafic sequence
- Marginal zone –Marginal facies and border zone

# Marginal zone PGEs-Wedza Subchamber

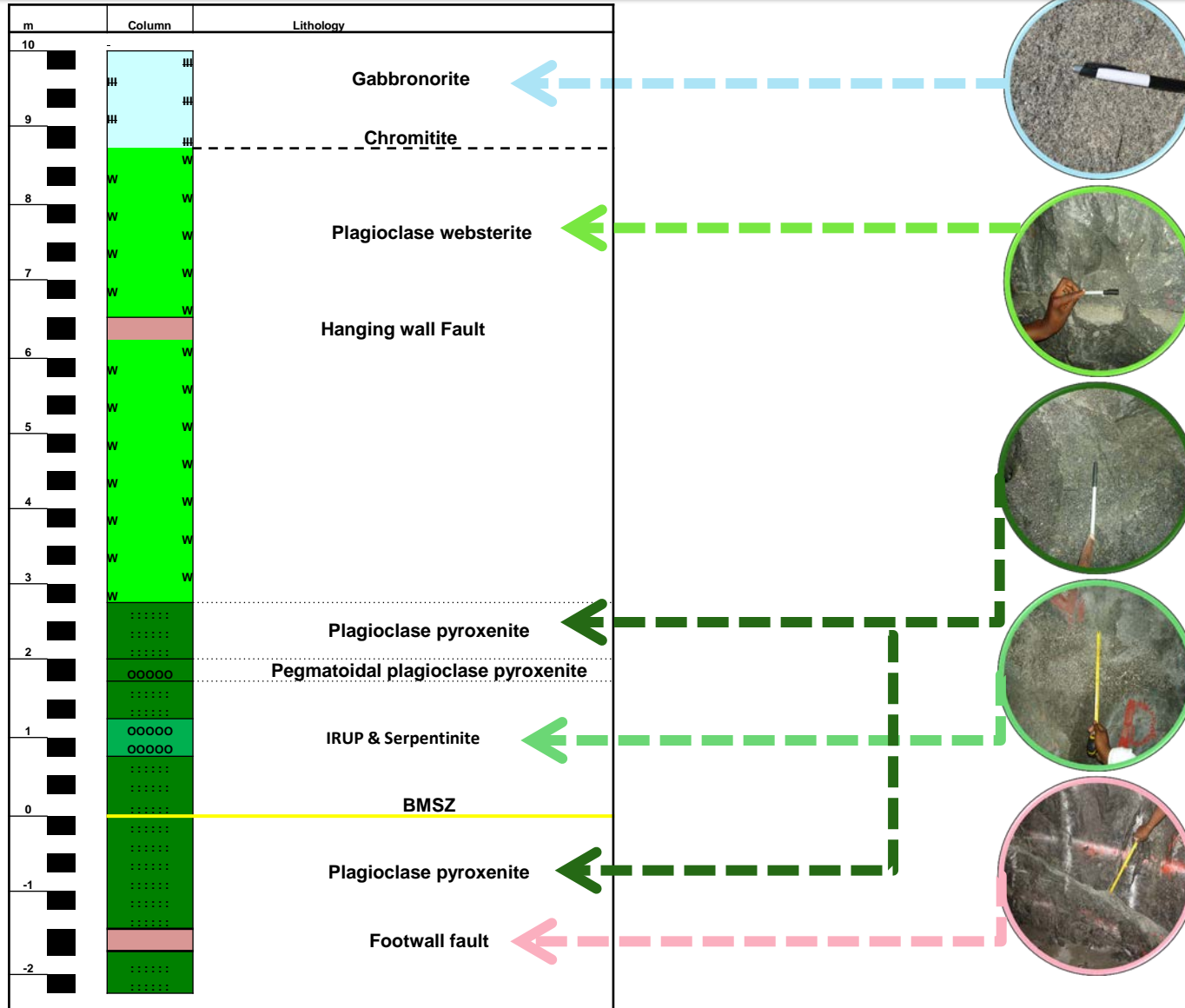


( M Prendergast and A Wilson 2000)

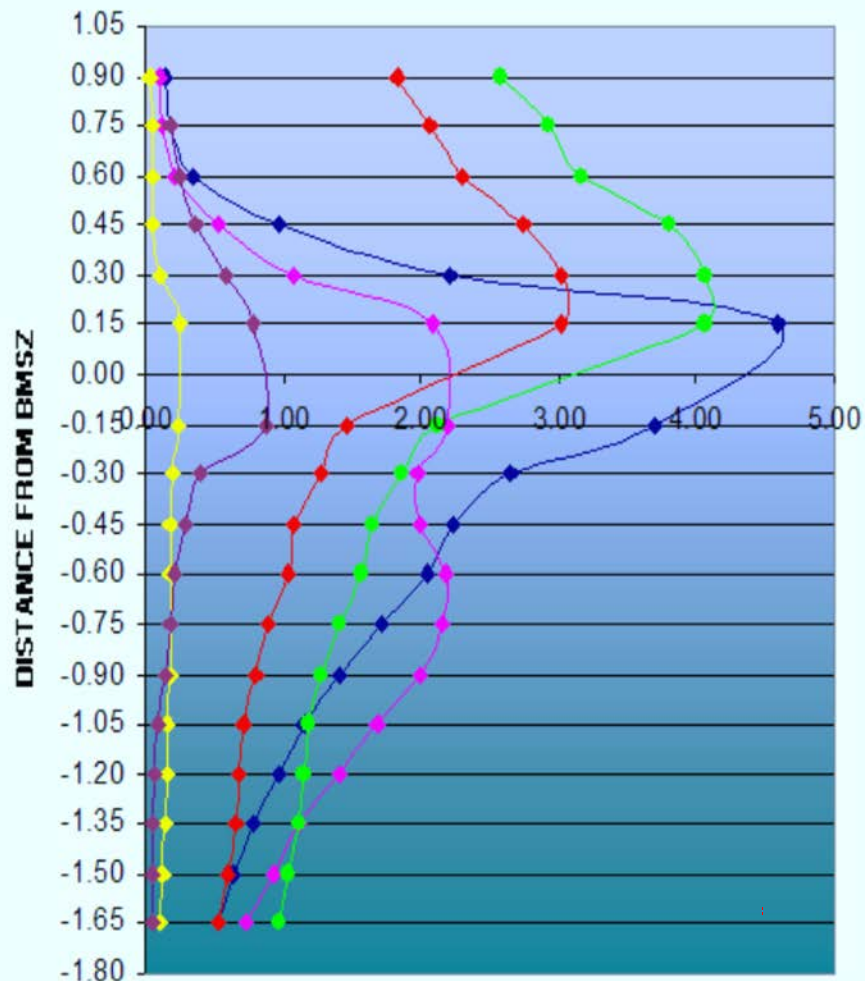


Stratigraphy of the Ultramafic Sequence in the Darwendale Subchamber, together with detail of Cyclic Unit 1 in the axial and west marginal facies (After M Prendergast and A Wilson 2000)

# Stratigraphic Column - Unki



# MSZ average PGE and BM profile\_Unki

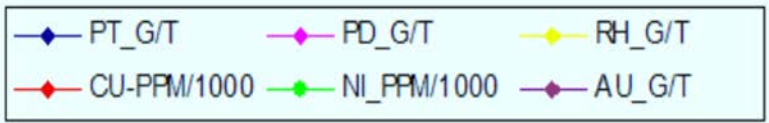


Base Metals Subzone

BMSZ

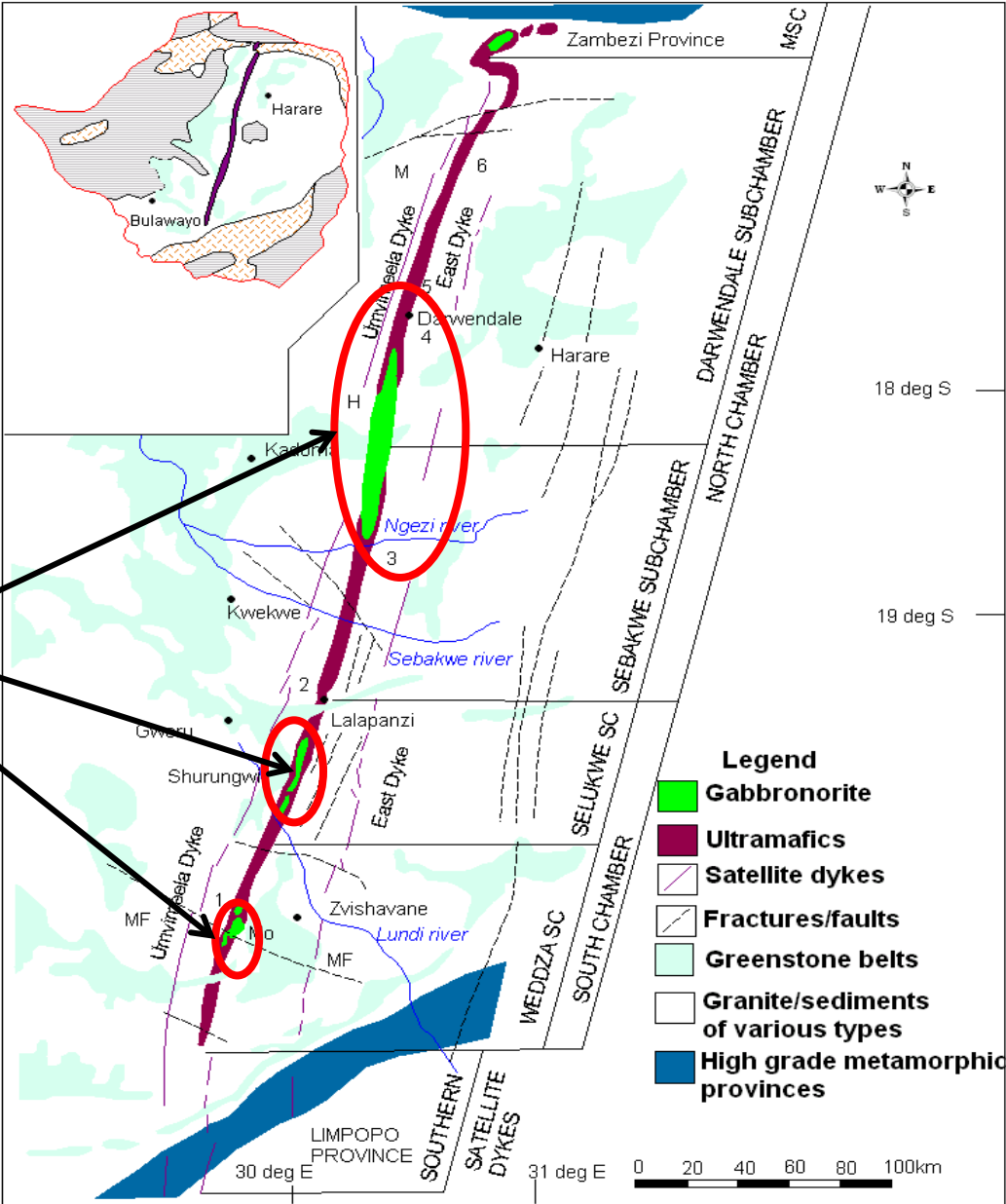
PGEs Subzone

- MSZ -2-3 metre zone.
- 2 Subzones
- Profiles across and within sub chambers have subtle differences, but can be correlated.
- Dominance of Pd in the footwall.
- Important for Mining





Locations of economic PGE resources



## Sulphide Resources distribution

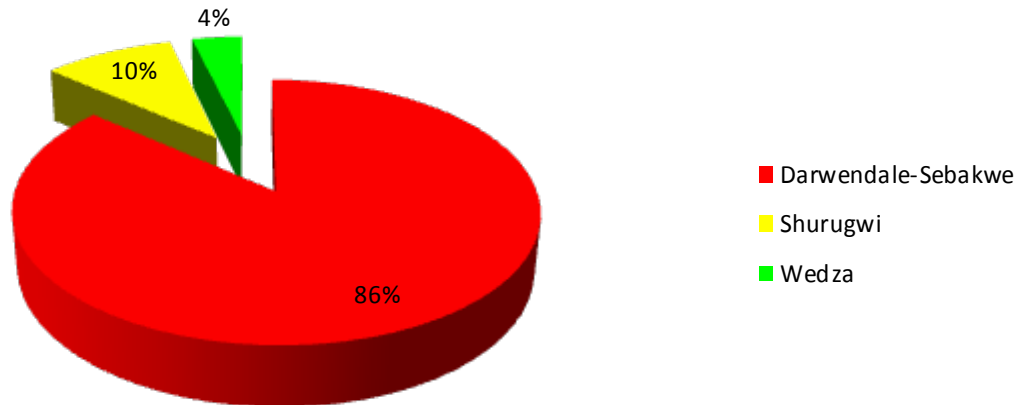
Resources Compiled from Published Annual Reports  
Subject to peer and external reviews.

4E= Pt +Pd+Rh+Au.

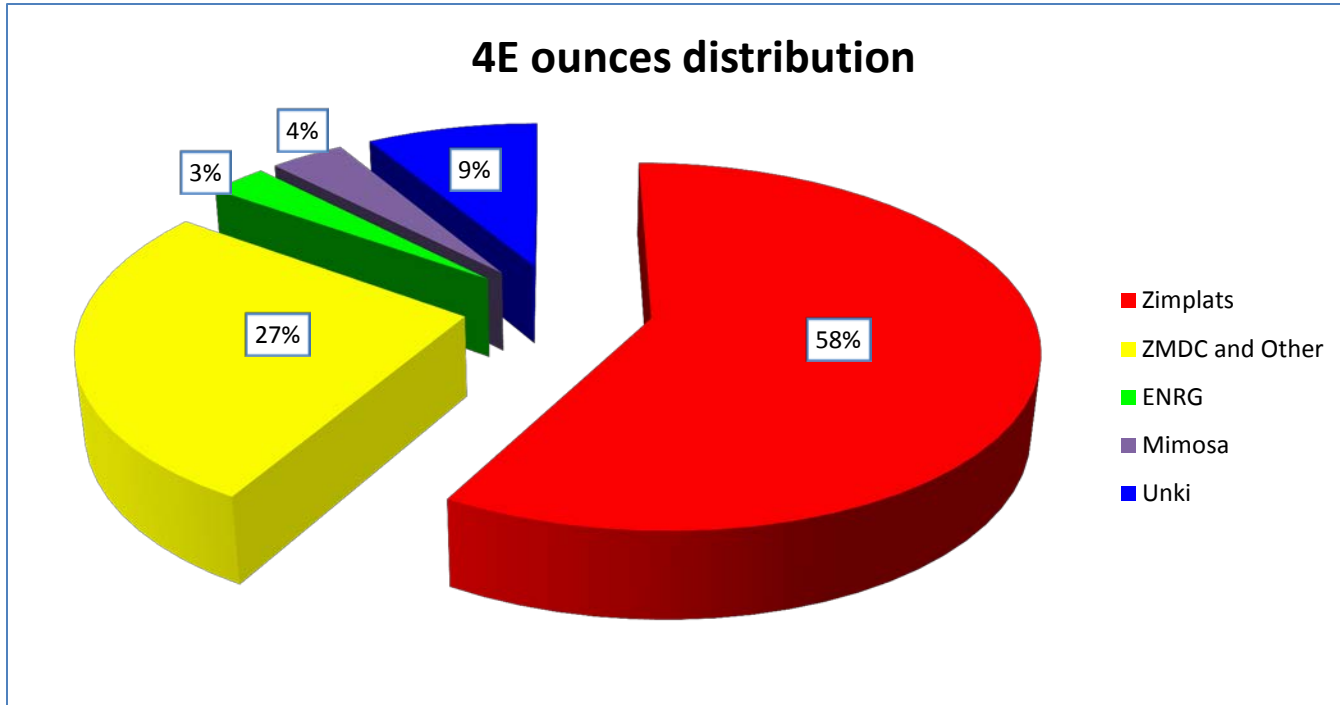
Table-Sulphide resources.

	Mt	4E_Moz	4E_g/t
Zimplats	1990.8	216.6	3.38
ZMDC and Other	873.2	99.1	3.53
ENRG	91.3	10.7	3.64
Mimosa	117.1	13.8	3.67
Unki	236.5	32.0	4.21
<b>Total</b>	<b>3308.9</b>	<b>372.2</b>	<b>3.50</b>

### Sulphide Resources\_Mt



# 4E ounces distribution



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**Thank you**