

# NATIONAL INTEGRATED MINERAL EXPLORATION PROJECT (NIMEP)



## Gold Projects

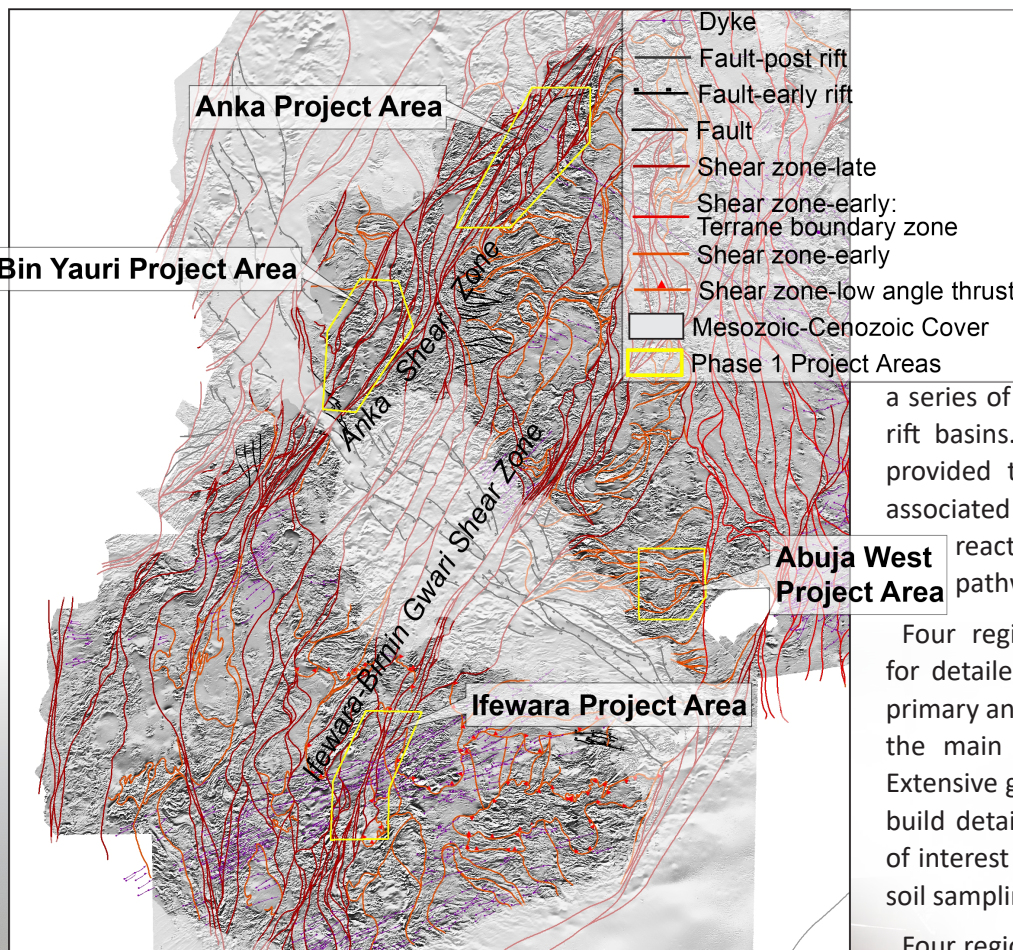


**FEDERAL REPUBLIC OF NIGERIA**  
 MINISTRY OF MINES AND STEEL DEVELOPMENT  
 and the  
**NIGERIAN GEOLOGICAL SURVEY AGENCY**



The National Integrated Mineral Exploration Project' (NIMEP) is a Ministry of Mines and Steel Development program for the development and promotion of the Nigerian mineral industry.

The NIMEP objectives were to delineate to "international standards" a series of prospective targets supported with detailed reporting of the methodology and results encompassing definition of the nature and style of economic deposits. The Gold programs within the NIMEP Project are part of the Lot 1A area which covers approximately 300,500km<sup>2</sup> of the Western Nigerian Shield, the primary gold province of Nigeria.



Gold mineralisation systems through the Western Nigerian Shield are associated with a series of regional, late tectonic, NNE-SSW trending shear zones which transect Nigeria. These late Neoproterozoic structures represent zones of progressive, dextral transpressional strain localisation along domains of crustal weakness established on

a series of inverted early to mid Neoproterozoic rift basins. These regional shear zone systems provided the conduits for gold mineralisation associated with a late tectonic sinistral reactivation which facilitated efficient fluid pathways through the shear zone network.

Four regional project areas were delineated for detailed follow up programs targeting both primary and subsidiary structural networks along the main late tectonic shear zone corridors. Extensive ground magnetic surveys were used to build detailed structural frameworks over areas of interest which provided the basis for targeted soil sampling programs.

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# The Abuja West Project Area

The Tsauni project area occurs along the eastern margin of the Western Nigerian Shield. The targets include a series of late brittle-ductile, en-echelon vein systems developed within a broad (~6km wide) discordant demagnetised shear zone.

Regional soil sampling (500 x 50m with 125x25m infill sample grids) results highlighted a series of discrete anomalous corridors delineated by this structural zone with anomalous Au, Pb and Zn defining a series of discrete N-S trending zones.

The Tsauni West and Tsauni South project areas occur along the same structural corridor defined by the eastern anomalous zone. The mineralisation is hosted within en-echelon, laminated to vuggy quartz veins within a reactivated regional high-grade shear zone.

These project areas define a mineralised structure with a strike of 1.8km and may extend for >9km along the extent of the Abuja West Project Area. Strong intersections along this zone include 12m@ 1.2g/t Au and 13m@ 0.9g/t Ag; 16m@ 0.9g/t Au and 1.6g/t Ag; 3m@ 32.43g/t Au and 2.59g/t Ag.

