

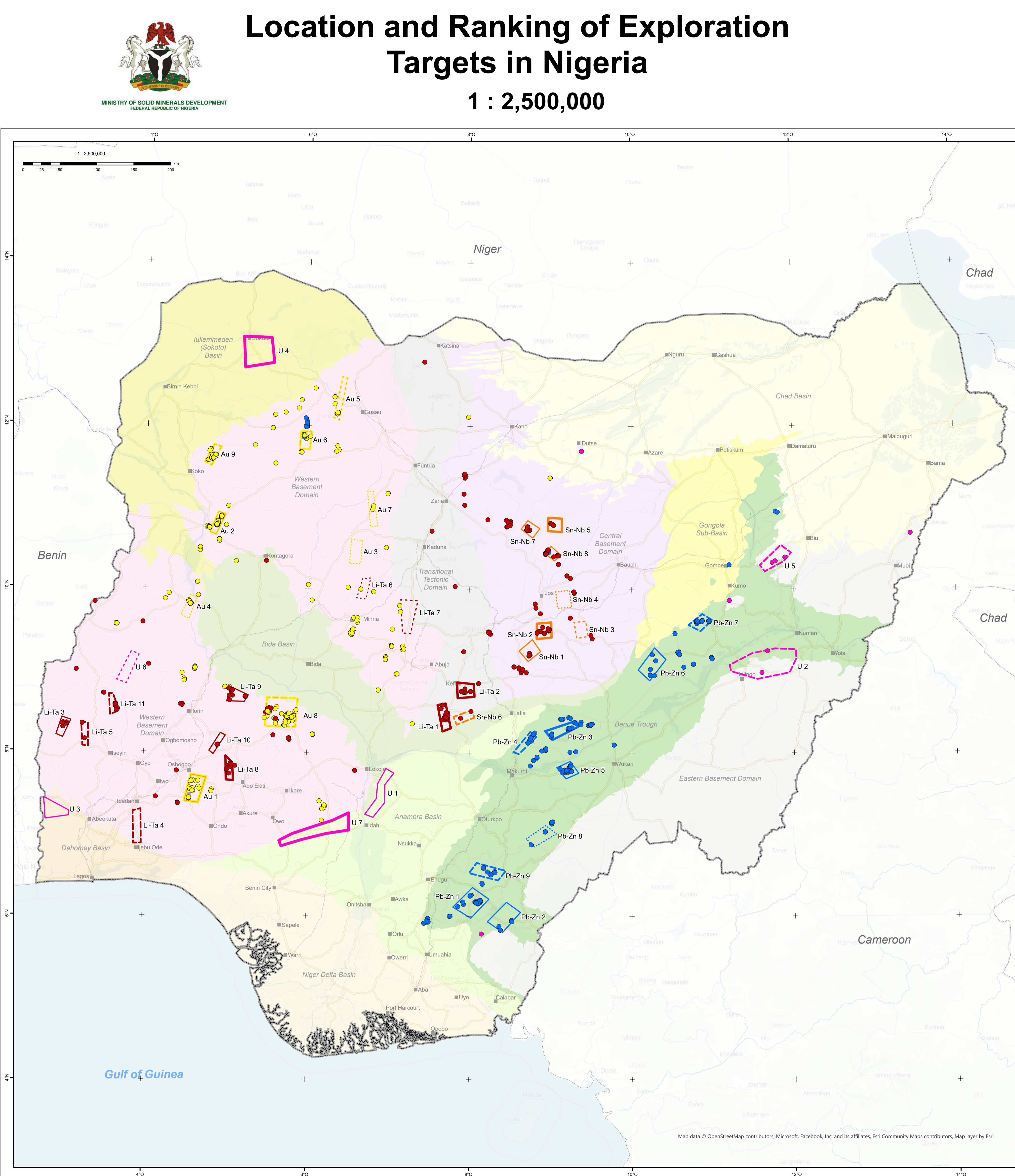
- Gold (Au) Targets**
- Au 1: Located in Ogun State, contains 17 known hydrothermal vein occurrences of Au and over 100 placer deposits, all hosted in Neoproterozoic meta-volcanics and volcano-sedimentary units. All mining activities are artisanal and active.
 - Au 2: Located in Kebbi State, contains 101 active hard-rock occurrences of Au hosted in Neoproterozoic volcano-sedimentary units and Cambrian granites. All mining activities are artisanal and active.
 - Au 3: Located in Niger State, is devoid of any documented hard-rock mineral occurrences and contains two placer deposits, all hosted in Neoproterozoic volcano-sedimentary units.
 - Au 4: Located in Niger State, contains at least 27 active hard-rock occurrences of Au of hydrothermal genesis within Neoproterozoic volcano-sedimentary units and Cambrian granites. Presently, all mining activities are artisanal and active, and under a mining lease.
 - Au 5: Located in Zamfara State, contains at least 21 active hard-rock occurrences of Au hosted in Neoproterozoic volcano-sedimentary units. All mining activities are artisanal and active, and partially covered by a mining lease.
 - Au 6: Located in Zamfara State, contains at least 15 active hard-rock occurrences of Au of hydrothermal genesis hosted in Neoproterozoic volcano-sedimentary units. All mining activities are artisanal and active following an N-S mineralization trend, covered by a mining lease.
 - Au 7: Located between Kaduna and Niger States, contains at least two active hard rock occurrences of Au seemingly a stockwork deposit hosted in Neoproterozoic volcano-sedimentary units. All mining activities are artisanal and active following an N-S mineralization trend, covered by a mining lease.
 - Au 8: Located in Kogi State, contains at least 99 active hard rock occurrences of Au suggesting a stockwork system hosted in Archean-Paleoproterozoic gneisses. All mining activities are artisanal and active following an NE-SW mineralization trend, covered by several mining licenses.
 - Au 9: Located in Kebbi State, contains at least 67 mineral occurrences of Au suggesting a stockwork deposit hosted in Cambrian granites. All mining activities are artisanal and active following an NE-SW mineralization trend, partially covered by licenses.

Criteria	Points per Criterion	Au Targets and their scoring per criterion								
		Au 1	Au 2	Au 3	Au 4	Au 5	Au 6	Au 7	Au 8	Au 9
MPM Shape and intensity										
Compact pattern above 0.9	5	5	4	4	4	4	4	5	5	
Compact pattern and above 0.8	4	4	4	4	4	4	4	5	5	
Compact pattern and above 0.7	3	3	3	3	3	3	3	3	3	
Diffuse pattern and above 0.9	2	2	2	2	2	2	2	2	2	
Diffuse pattern and above 0.8	1	1	1	1	1	1	1	1	1	
Within schist belt?										
Yes	5	5	5	5	5	5	5	5	5	
No	1	1	1	1	1	1	1	1	1	
Within ultramafic complex?										
Yes	5	5	5	5	5	5	5	5	5	
No	1	1	1	1	1	1	1	1	1	
Gold occurrences known?										
Yes	5	5	5	5	5	5	5	5	5	
No	1	1	1	1	1	1	1	1	1	
Gold currently being mined?										
Yes	5	5	5	5	5	5	5	5	5	
No	1	1	1	1	1	1	1	1	1	
Existence of placer deposits pinpointing to source?										
Yes	5	5	5	5	5	5	5	5	5	
Partially	3	3	3	3	3	3	3	3	3	
No	1	1	1	1	1	1	1	1	1	
Contains cluster of deposits?										
Yes	5	5	5	5	5	5	5	5	5	
No	1	1	1	1	1	1	1	1	1	
Number of veins in the target										
>15	5	5	5	5	5	5	5	5	5	
15-10	4	4	4	4	4	4	4	4	4	
10-6	3	3	3	3	3	3	3	3	3	
6-3	2	2	2	2	2	2	2	2	2	
<3	1	1	1	1	1	1	1	1	1	
Length of major identified vein (m)										
>1000	5	5	5	5	5	5	5	5	5	
500-1000	4	4	4	4	4	4	4	4	4	
250-500	3	3	3	3	3	3	3	3	3	
60-250	2	2	2	2	2	2	2	2	2	
<60	1	1	1	1	1	1	1	1	1	
NIMEP Data Available?										
Yes	5	5	5	5	5	5	5	5	5	
No	1	1	1	1	1	1	1	1	1	
Total Score										
Score		48	43	18	27	34	36	26	37	33
Rank										
Rank Order		1	2	5	5	4	3	5	3	3

- Lithium (Li)-Tantalum (Ta) Pegmatite Targets**
- Li-Ta 1: Located around Keffi in Nasarawa State containing 17 pegmatite veins hosted in gneisses and with a proven thickness of 20m. Mineralization trend of the bodies is NE-SW. Primary mining operations in the region are artisanal.
 - Li-Ta 2: Located around Keffi in Nasarawa State containing 12 pegmatite veins in gneisses. Mining in the region is artisanal and concentrates in 2 main areas with bodies of at least 20m thickness. Mineralization trend of the bodies is NE-SW.
 - Li-Ta 3: Located close to Atabo town, Oyo State, containing 9 pegmatite veins hosted mainly in gneisses. Mining in the region, on bodies with NNE-SSW trend, is artisanal and sites are mainly abandoned except one main pit.
 - Li-Ta 4: Located around south-east of Ibadan, Oyo State, contains no known lithium or tantalum pegmatite veins, but several aquamarine sites hosted in gneisses. Mining in the region is artisanal aided with excavator machinery on bodies with N-S trend.
 - Li-Ta 5: Located around Sokki East in Oyo State, containing two known mineralized pegmatite veins hosted in gneisses. Mining in the region is solely artisanal on bodies with NE-SW trend.
 - Li-Ta 6: Located around Beni Hill, Niger State, contains no known mineralized pegmatite veins but has recent artisanal activities in an interpreted 2km body hosted in gneisses. Pegmatites seem to have a NNW-SSE trend.
 - Li-Ta 7: Located around Iru town, Niger State, contains no known mineralized pegmatite veins but has recent artisanal activities for gold related to pegmatites, having a N-S trend.
 - Li-Ta 8: Located around Ijero area, Ekiti State, containing 13 known mineralized pegmatite veins with proven thicknesses of 50m and hosted in gneisses and granites. Mining in the region is artisanal on bodies with NNE-SSW trend.
 - Li-Ta 9: The target area situated around Danba Lema, Kwara State, containing 11 known mineralized pegmatite veins with proven thicknesses of 40m and hosted in gneisses and granites. Mining is solely artisanal on bodies with NNE-SSW trend.
 - Li-Ta 10: Located around Ila-Orangun, Kwara State, containing 3 known mineralized pegmatite veins hosted in gneisses, of which two are recent and active and operated by artisanal miners, one is abandoned, and with an apparent NE-SW trend.
 - Li-Ta 11: Located around Sepeteri Area, Oyo State, containing 12 known mineralized pegmatite veins hosted in gneisses currently active and being exploited by artisanal miners with a NW-SE trend. Currently, there are covered by several mining leases.

Criteria	Points	Li-Ta Pegmatite Targets										
		Li-Ta 1	Li-Ta 2	Li-Ta 3	Li-Ta 4	Li-Ta 5	Li-Ta 6	Li-Ta 7	Li-Ta 8	Li-Ta 9	Li-Ta 10	Li-Ta 11
MPM Shape and intensity												
Compact pattern above 0.9	5	5	5	5	5	5	5	5	5	5	5	5
Compact pattern and above 0.8	4	4	4	4	4	4	4	4	4	4	4	4
Compact pattern and above 0.7	3	3	3	3	3	3	3	3	3	3	3	3
Diffuse pattern and above 0.9	2	2	2	2	2	2	2	2	2	2	2	2
Diffuse pattern and above 0.8	1	1	1	1	1	1	1	1	1	1	1	1
Close to young shear zone?												
Yes	5	5	5	5	5	5	5	5	5	5	5	5
No	1	1	1	1	1	1	1	1	1	1	1	1
Li stream sediment anomalies												
>100	5	5	5	5	5	5	5	5	5	5	5	5
100-80	4	4	4	4	4	4	4	4	4	4	4	4
80-60	3	3	3	3	3	3	3	3	3	3	3	3
60-40	2	2	2	2	2	2	2	2	2	2	2	2
<40	1	1	1	1	1	1	1	1	1	1	1	1
Ta stream sediment anomalies												
>15	5	5	5	5	5	5	5	5	5	5	5	5
15-10	4	4	4	4	4	4	4	4	4	4	4	4
10-6	3	3	3	3	3	3	3	3	3	3	3	3
6-3	2	2	2	2	2	2	2	2	2	2	2	2
<3	1	1	1	1	1	1	1	1	1	1	1	1
Cs stream sediment anomalies												
>15	5	5	5	5	5	5	5	5	5	5	5	5
15-10	4	4	4	4	4	4	4	4	4	4	4	4
10-6	3	3	3	3	3	3	3	3	3	3	3	3
6-3	2	2	2	2	2	2	2	2	2	2	2	2
<3	1	1	1	1	1	1	1	1	1	1	1	1
Pegmatites occurrences known?												
Yes	5	5	5	5	5	5	5	5	5	5	5	5
No	1	1	1	1	1	1	1	1	1	1	1	1
Number of pegmatite points												
>15	5	5	5	5	5	5	5	5	5	5	5	5
15-13	4	4	4	4	4	4	4	4	4	4	4	4
13-10	3	3	3	3	3	3	3	3	3	3	3	3
10-5	2	2	2	2	2	2	2	2	2	2	2	2
<5	1	1	1	1	1	1	1	1	1	1	1	1
Pegmatites being mined?												
Yes	5	5	5	5	5	5	5	5	5	5	5	5
No	1	1	1	1	1	1	1	1	1	1	1	1
Proven thickness of pegmatites (m)												
>50	5	5	5	5	5	5	5	5	5	5	5	5
50-30	4	4	4	4	4	4	4	4	4	4	4	4
30-20	3	3	3	3	3	3	3	3	3	3	3	3
20-10	2	2	2	2	2	2	2	2	2	2	2	2
<10	1	1	1	1	1	1	1	1	1	1	1	1
Total Score												
Score		32	31	27	20	25	13	17	31	29	25	24
Rank												
Rank order		1	1	2	3	3	5	4	1	2	2	3

- Uranium (U) Targets**
- Uranium Mineral Occurrences after mineralization type:
- Sandstone hosted ► diagenetic-epigenetic accumulations of uranium in sandstones from nearby leached uranium-rich basement complex granites. Uranium minerals, mainly pitchblende and coffinite, are disseminated or present as veinlets and found up to a depth of 200 meters, totaling 0.18 wt. % to 0.25 wt. % of U concentration
 - Phosphate related ► sedimentary marine origin mineral occurrences with apatite as the main host of uranium minerals within the Sokoto basin and Dahomey basin. Average uranium concentrations along the phosphate nodules and pellets range from 29-65 ppm.
 - Hydrothermal (vein) ► endogranitic and perigranitic hydrothermal-related accumulations of uranium in fractures, stockworks and shear zones concentrated in the Adamawa Massif, which hosts the Miki prospect. Estimated uranium resources at the Miki Prospect total 52 tons at 0.63wt. % U with a vertical extent of 130 meters, while at Gsumchi, 100 tons at 0.90wt. % U with a vertical extent of 200 meters.
 - Accessory minerals ► uranium occurring as accessory phases, mainly as pyrochlore, within granitic intrusions (e.g., Older and Younger Granites) formed through anatexis and anagenic processes. Uranium minerals contain concentrations from 190 ppm of up to 3.5 wt. % UO₂ and average ThO₂ values of 4.3 wt. % ThO₂.



Legend

Mineral Occurrences (without Placers)

- Gold (Au)
- Base Metals (Pb, Zn, Ba)
- Rare Metals (Ta, Li, Sn, Nb)
- Nuclear Fuel (U)

Tin (Sn) Targets

Rank	Score
1	>= 31
2	>= 25-30
3	>= 20-24
4	>= 15-19
5	< 15

Lead (Pb)-Zinc (Zn) Targets

Rank	Score
1	>= 35
2	>= 30-34
3	>= 25-29
4	>= 20-24
5	< 20

Lithium (Li)-Tantalum (Ta)-Pegmatites Targets

Rank	Score
1	>= 30
2	>= 25-29
3	>= 20-24
4	>= 15-19
5	< 15

Uranium (U) Targets

Genetic types

1	Sandstone hosted
2	Phosphate related
3	Granite related/hydrothermal
4	Accessory minerals

Geological & Tectonic Units

- Chad Basin
- Niger Delta Basin
- Gongola Sub-Basin
- Lullemedden (Sokoto) Basin
- Dahomey Basin
- Anambra Basin
- Bida Basin
- Benue Trough
- Western Basement Domain
- Transitional Tectonic Domain
- Central Basement Domain
- Eastern Basement Domain

Topography

- Nigeria Border
- International Borders
- River
- Lake
- Settlements
- Railway
- Road

- Tin (Sn) and Niobium (Nb) Targets**
- Sn-Nb 1: Located in Plateau State, boasts six Pneumatolytic veins of Sn-Nb within superegne-enriched sediments, aligned with east-west structures in late Jurassic intrusives/volcanics. All mining activities in the region are artisanal, with no active licenses reported as of 2023.
 - Sn-Nb 2: Located in Plateau State, contains 11 Pneumatolytic veins of Sn-Nb within superegne-enriched sediments, aligned along east-west structures in late Jurassic intrusives/volcanics. All mining operations are artisanal, with no active licenses reported as of 2023.
 - Sn-Nb 3: Located in Plateau State, lacks any known hard-rock occurrences but some placer deposits of Sn-Nb, all hosted in late Jurassic intrusives/volcanics. Mining activities in the region are artisanal, albeit all active licenses are exploratory in nature.
 - Sn-Nb 4: Located in Plateau State, hosts just one known Pneumatolytic vein occurrence, aligning with a north-south trend within late Jurassic intrusives/volcanics. All mining operations in the vicinity are artisanal and covered by a license.
 - Sn-Nb 5: Located in Bauchi State, boasts four known hard-rock occurrences along with several placer deposits of Sn-Nb. Pneumatolytic veins within late Jurassic intrusives/volcanics follow an NNW-SSE trend. All mining activities in the region are artisanal without a valid license.
 - Sn-Nb 6: Located in Nasarawa State, contains one known hard-rock occurrence and one massive placer deposit. Structures follow an NE-SW trend within late Jurassic intrusives/volcanics. All mining activities are artisanal.
 - Sn-Nb 7: Located in Kano State, contains four Pneumatolytic veins of Sn-Nb along with nine diagenetic placer deposits hosted mainly in late Jurassic intrusives/volcanics. Primary mining operations are industrial, with some additional artisanal sites.
 - Sn-Nb 8: Located in Bauchi State, contains six Pneumatolytic veins and eight diagenetic placer deposits all within late Jurassic intrusives/volcanics. Primary mining operations in the region are artisanal without any valid license.

Criteria	Points per Criterion	Sn Targets and their scoring per criterion							
		Sn-Nb 1	Sn-Nb 2	Sn-Nb 3	Sn-Nb 4	Sn-Nb 5	Sn-Nb 6	Sn-Nb 7	Sn-Nb 8
MPM Shape and intensity									
Compact pattern above 0.9	5	5	5	5	5	5	5	5	5
Compact pattern and above 0.8	4	4	4	4	4	4	4	4	4
Compact pattern and above 0.7	3	3	3	3	3	3	3	3	3
Diffuse pattern and above 0.9	2	2	2	2	2	2	2	2	2
Diffuse pattern and above 0.8	1	1	1	1	1	1	1	1	1
Tin occurrences known?									
Yes	5	5	5	5	5	5	5	5	5
No	1	1	1	1	1	1	1	1	1
Tin deposits being mined?									
Yes	5	5	5	5	5	5	5	5	5
No	1	1	1	1	1	1	1	1	1
Niobium within the mineral suite?									
Yes	5	5	5	5	5	5	5	5	5
No	1	1	1	1	1	1	1	1	1
Undocumented deposits found?									
Yes	5	5	5						