

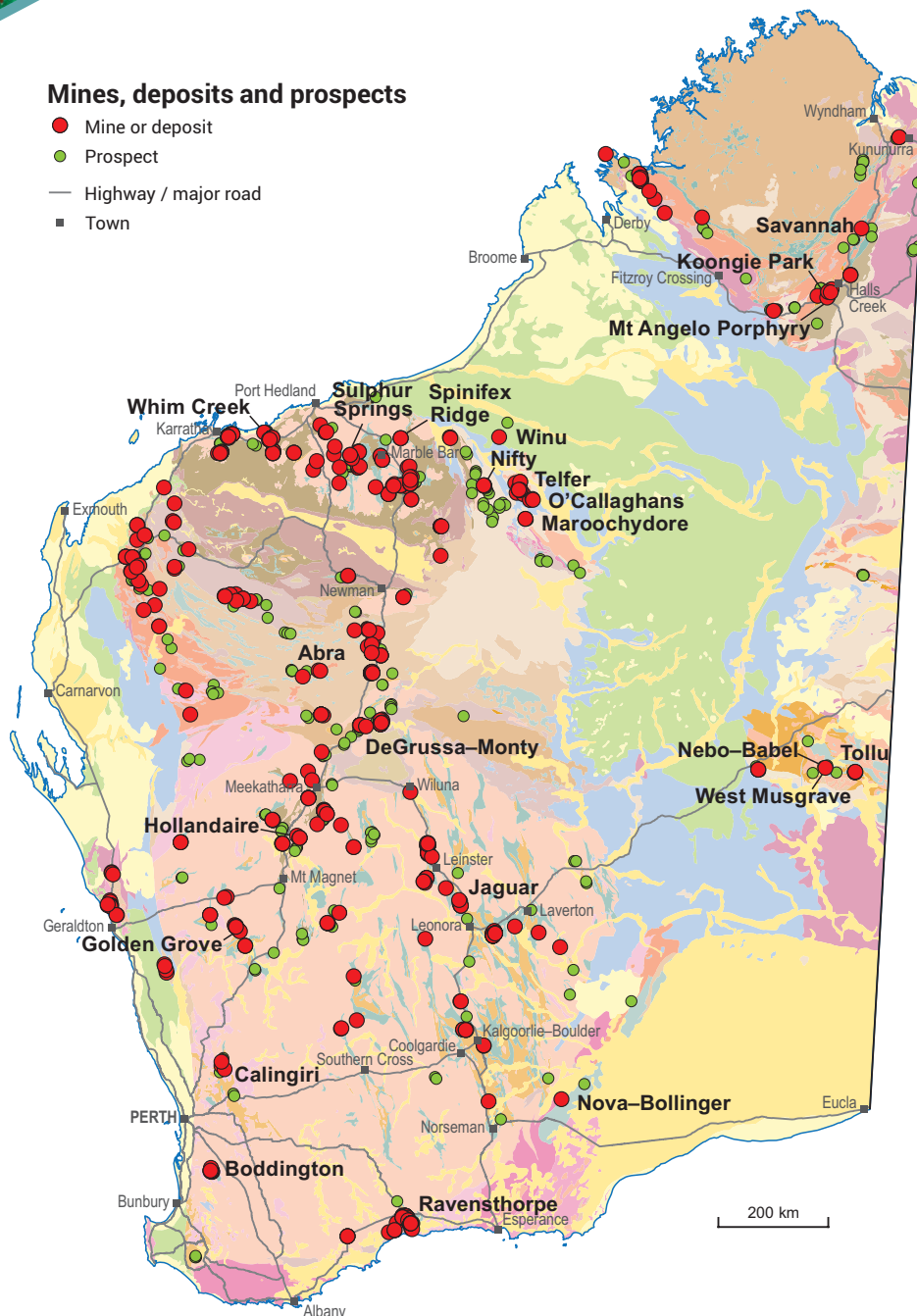
# COPPER

## INVESTMENT OPPORTUNITIES

**WORLD-CLASS RESOURCE PROVINCE | SECURE INVESTMENT LOCATION  
WORLD-LEADING GEOSCIENTIFIC DATA | GLOBAL MINING SERVICES INDUSTRY**

### Mines, deposits and prospects

- Mine or deposit
- Prospect
- Highway / major road
- Town



### Western Australia hosts world-class copper deposits

- Current Western Australian resources of over 11 Mt of contained copper
- Discoveries are still being made, e.g. Winu (Capricorn Orogen), Mawson, Andromeda (Albany–Fraser Orogen), Altair, Perrinvale, Mt Alexander, Mt Venn (Yilgarn Craton)
- Inferred maiden resource estimate was released for Newmont's Havieron deposit (Paterson Orogen), and the project is now under development

### Production trends

- In 2021, copper production in Western Australia was 145 853 t
- Principal operating mines are Golden Grove, Jaguar, DeGrussa–Monty, Boddington, and Nova–Bollinger
- Savannah has recently restarted producing nickel–copper–cobalt concentrate

### Most of Western Australia's Archean and Proterozoic terranes are prospective for copper

- Orthomagmatic nickel–copper sulfide deposits, e.g. Nova–Bollinger (Albany–Fraser Orogen), Nebo–Babel (West Musgrave Orogen), Savannah (Halls Creek Orogen)
- Volcanic-hosted massive sulfide deposits, e.g. Golden Grove, Jaguar (Yilgarn Craton), Sulphur Springs (Pilbara Craton), DeGrussa (Capricorn Orogen), Koongie Park (Halls Creek Orogen)
- Sediment-hosted massive sulfide deposits, e.g. Nifty, Maroochydore (Paterson Orogen)
- Porphyry-related deposits, e.g. Boddington, Calingiri (Yilgarn Craton), Spinifex Ridge (Pilbara Craton)
- Vein and hydrothermal deposits, e.g. Telfer and Havieron (Paterson Orogen)
- Skarn deposits, e.g. O'Callaghans (Paterson Orogen)

**\$1485 m**  
Sales value



**145 853 t**  
Tonnes sold



**1894\*\***  
Full-time employees



**\$1782 m\***  
Investment projects



(2020–21 financial year)

\* Includes projects planned, possible, committed or under construction as of October 2021

\*\* Total for copper, lead and zinc



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# Projects with copper resources – ranked by contained copper >40 kt

Resources estimated according to JORC 2012

	Project	Status	Owner	Commodity	Resources (Mt)	Av. grade (%)	Contained Cu (kt)	Resource date
	West Musgrave	Pre-feasibility	Oz Minerals	Cu–Ni	549.3	0.42	2286	09/12/2020
	Paterson–Winu	Exploration	Rio Tinto	Cu–Au	503.0	0.36	1790	28/07/2020
	Caravel	Scoping	Caravel Minerals	Cu–Mo–Ag–Au	372.2	0.35	1303	29/04/2019
	Golden Grove	Operating	29Metals	Zn–Cu–Pb–Ag–Au	57.6	1.60	920	30/06/2020
	Spinifex Ridge*	Exploration	Young Australian Mines	Mo–Cu	1051.3	0.08	798	10/02/2012
	Nifty	Scoping	Cyprium Metals	Cu	47.3	1.40	660	31/12/2019
	Maroochydhore	Exploration	Cyprium Metals	Cu–Co	48.6	1.00	485	31/03/2016
	Boddington	Operating	Newmont	Au–Cu	215.7	0.12	251	31/12/2020
	Telfer	Operating	Newcrest Mining	Au–Cu	151.7	0.16	244	31/12/2020
	Sulphur Springs	Feasibility	Venturex Resources	Zn–Cu–Pb–Ag	17.4	1.32	229	21/03/2018
	DeGrussa–Monty	Operating	Sandfire Resources	Cu–Au	6.1	3.71	226	31/12/2020
	O'Callaghans	Pre-feasibility	Newcrest Mining	Cu–Zn–Pb	78.0	0.28	222	31/12/2017
	Thaduna	Exploration	Sandfire Resources	Cu–Ag	8.2	2.09	171	31/12/2016
	Paterson–Havieron	Under development	Newcrest Mining / Greatland Gold	Au–Cg	52.6	0.31	161	10/12/2020
	Citadel	Exploration	Antipa / Rio Tinto	Au–Cu–Ag–W	108.1	0.15	159	17/05/2021
	Nanadie Well*	Exploration	Cyprium Metals	Cu–Au	36.1	0.42	151	19/09/2013
	Horseshoe Lights*	Exploration	Horseshoe Metals	Cu–Au–Ag	14.5	0.95	138	31/12/2014
	Koongie Park*	Exploration	Anglo Australian Resources	Zn–Cu–Pb–Ag–Au	8.0	1.17	94	01/11/2010
	Savannah	Operating	Panoramic Resources	Ni–Cu–Co	13.3	0.70	93	07/05/2020
	Mt Mulgine	Pre-feasibility	Tungsten Mining	W–Mo–Au–Ag–Cu	247.0	0.04	92	04/05/2020
	Nova–Bollinger	Operating	IGO	Ni–Cu–Co	11.8	0.71	85	31/12/2020
	Weld Range	Exploration	Podium Minerals	Pt–Pd–Cr–Cu	61.5	0.13	79	23/09/2021
	Jerdacuttup	Exploration	Medallion Metals	Au–Ag–Cu	5.6	1.21	68	01/03/2018
	Whim Creek – Mons Cupri	Scoping	Anax Metals / Venturex Resources	Zn–Cu–Pb–Ag–Au	6.9	0.97	66	25/05/2021
	Pardoo–Highway*	Exploration	Caeneus Minerals	Ni–Cu–Co	50.0	0.13	63	31/03/2010
	Carlow Castlae	Exploration	Artemis Resources	Au–Cu–Co	14.3	0.40	57	19/05/2021
	Jaguar	Operating	Round Oak Minerals	Zn–Cu–Ag–Au	6.5	0.86	56	30/06/2017
	Forrest	Exploration	Redstone Resources	Cu–Au	2.4	1.73	42	02/07/2020

Resource estimates have been rounded

\* Resource estimates are not JORC 2012 compliant

	Stratabound volcanic-hosted massive sulfides		Porphyry related		Vein and hydrothermal
	Orthomagmatic mafic and ultramafic		Stratabound sediment hosted		Skarn

## For more information



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