

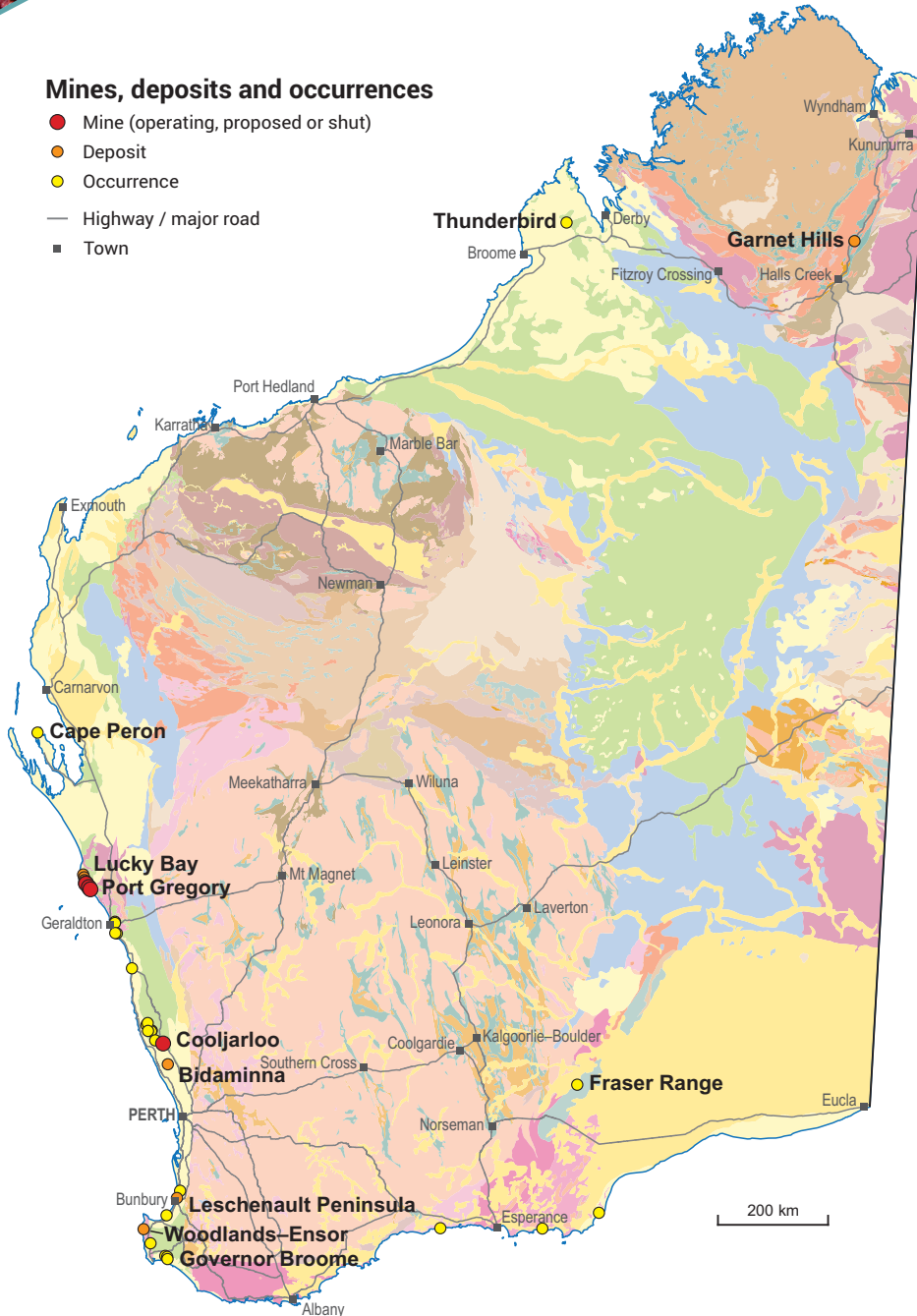
# GARNET

## INVESTMENT OPPORTUNITIES

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

### Mines, deposits and occurrences

- Mine (operating, proposed or shut)
- Deposit
- Occurrence
- Highway / major road
- Town



### Western Australia is the world's largest producer of industrial garnet

- Port Gregory is Australia's only operating garnet mine
  - Supplies high-quality garnet from sands which have eroded from the Yilgarn Craton
  - Has been operating for over 40 years
- Construction of a second garnet mine at Lucky Bay is now underway
- The industrial garnet market is growing, as it is a safer, more environmental replacement for silica sands
- Alluvial garnet is associated with sand dune deposits in Western Australia



Government of Western Australia  
Department of Mines, Industry Regulation and Safety

[dmirs.wa.gov.au](http://dmirs.wa.gov.au)

Geological Survey of  
Western Australia



## Garnet resources ranked by contained garnet (kt)

Resources are NOT estimated to JORC 2012 (except for Lucky Bay)

Project	Status	Owner	Resources (Mt)	Av. grade garnet (%)	Contained garnet (kt)	Resource date
Lucky Bay	Under development	Resource Development Group	18.8	86.1	16 198	01/07/2021
Port Gregory	Operating	GMA Garnet	17.3	91.1	15 726	08/02/2018
Garnet Hills	Exploration	Garnet Hills	0.1	100.0	66	31/05/1997

Resource estimates have been rounded



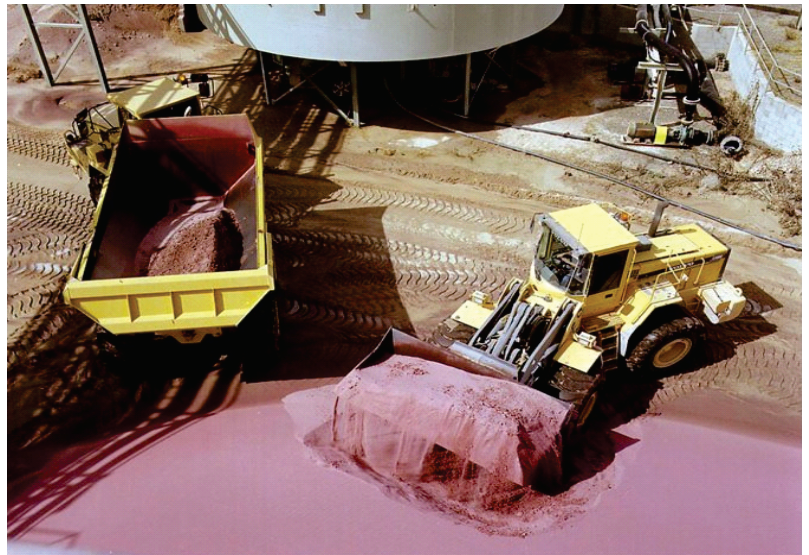
Metamorphic deposit



Sand deposit

### Properties and uses

- Garnet is generally sourced from gneissic and schistose rocks
- Erosion of the garnet rich-rocks plus the preferential deposition of garnet within sand dunes also occurs along the Western Australian coastline
- Garnet has applications as an industrial mineral due to its highly abrasive properties
- Industrial garnet is used in abrasive blasting, water-jet cutting and water filtration
- It is also preferred in industrial applications over silica due to its low health impacts and recyclability



Loading industrial garnet in Western Australia (Source: Quelle: Jebesen and Jessen-Gruppe)

#### For more information



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Western Australia

[www.dmirs.wa.gov.au/gswa](http://www.dmirs.wa.gov.au/gswa)

**MINEDEX**

[www.dmirs.wa.gov.au/minedex](http://www.dmirs.wa.gov.au/minedex)

**GeoVIEW.WA**

[www.dmirs.wa.gov.au/geoview](http://www.dmirs.wa.gov.au/geoview)

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