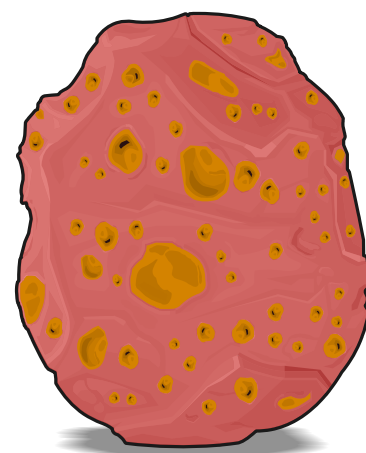
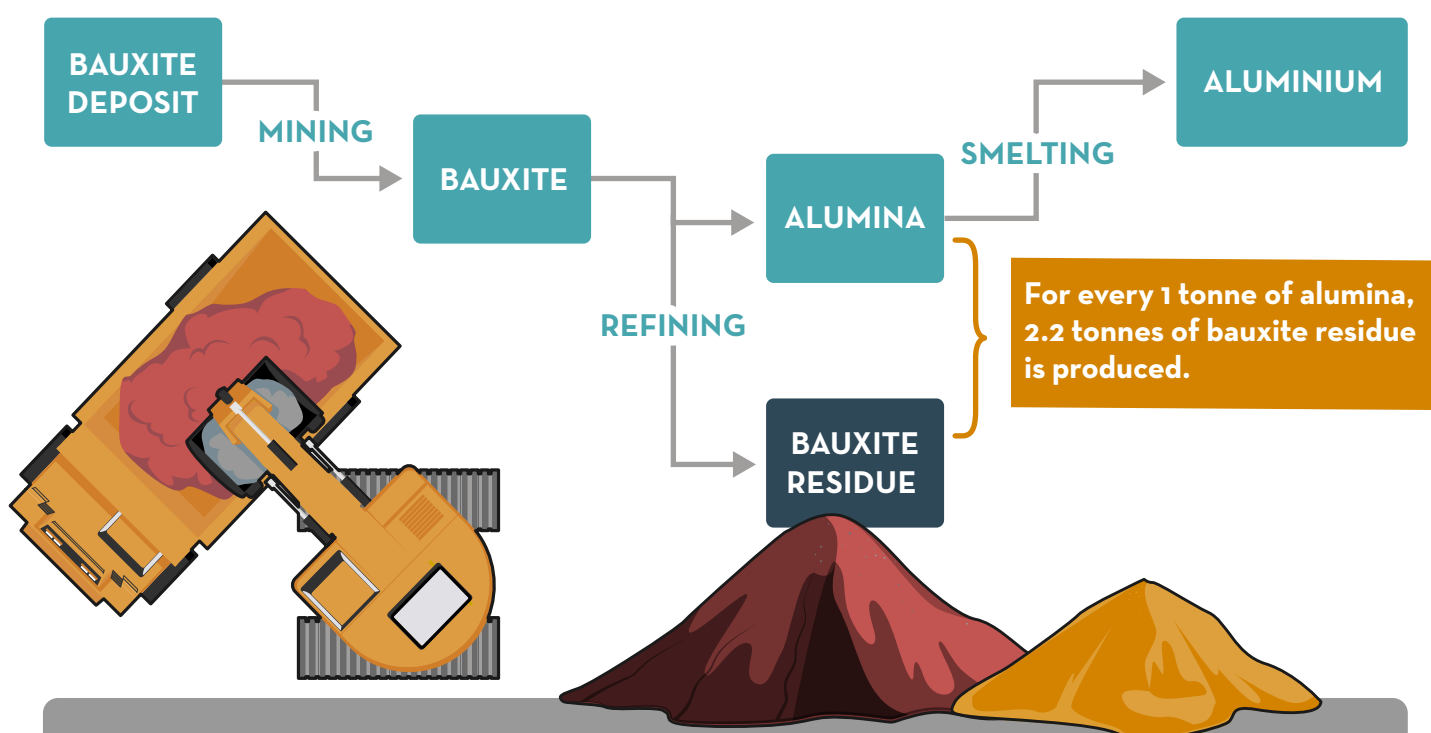


# BAUXITE RESIDUE: AN INTRODUCTION



Since the start of large-scale alumina production, Bauxite Residue has been a by product. Looking towards the future, the industry seeks to close the circularity loop through more sustainable use of bauxite residue.

## WHAT IS BAUXITE RESIDUE?



Bauxite residue is a waste product from the aluminium production process.

Rich in iron and aluminium, bauxite residue is produced through the extraction of alumina from bauxite, typically through the Bayer process.

The composition of bauxite residue depends on the source and the extraction process.

## VOLUMES

### 10 billion tonnes by 2050

Bauxite residue can be a significant contributor to industrial symbiosis. International Aluminium Institute's dynamic material flow model indicates that, by 2050, there could be a bauxite residue global inventory of 10 billion tonnes.

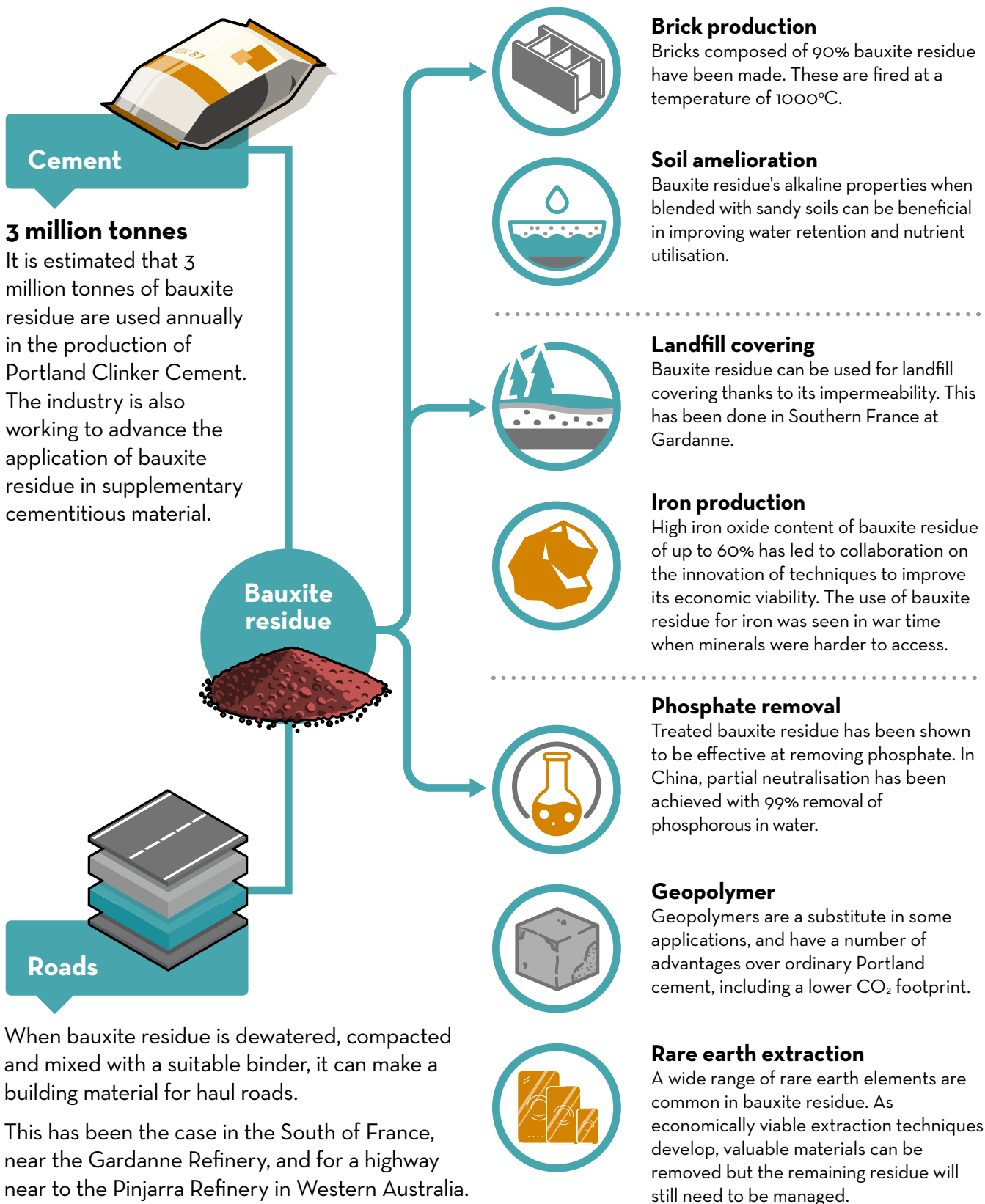
## AVAILABILITY

Demand for aluminium is expected to grow, with supply coming from both primary and recycled sources. This means bauxite residue will continue to be generated and available for industrial symbiosis. Bauxite residue can be used as an alternative raw material in industrial processes especially where traditional materials may become scarcer.

Visit [international-aluminium.org/resources/bauxite-residue](https://international-aluminium.org/resources/bauxite-residue) for more information.

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## BAUXITE RESIDUE: KEY APPLICATIONS



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