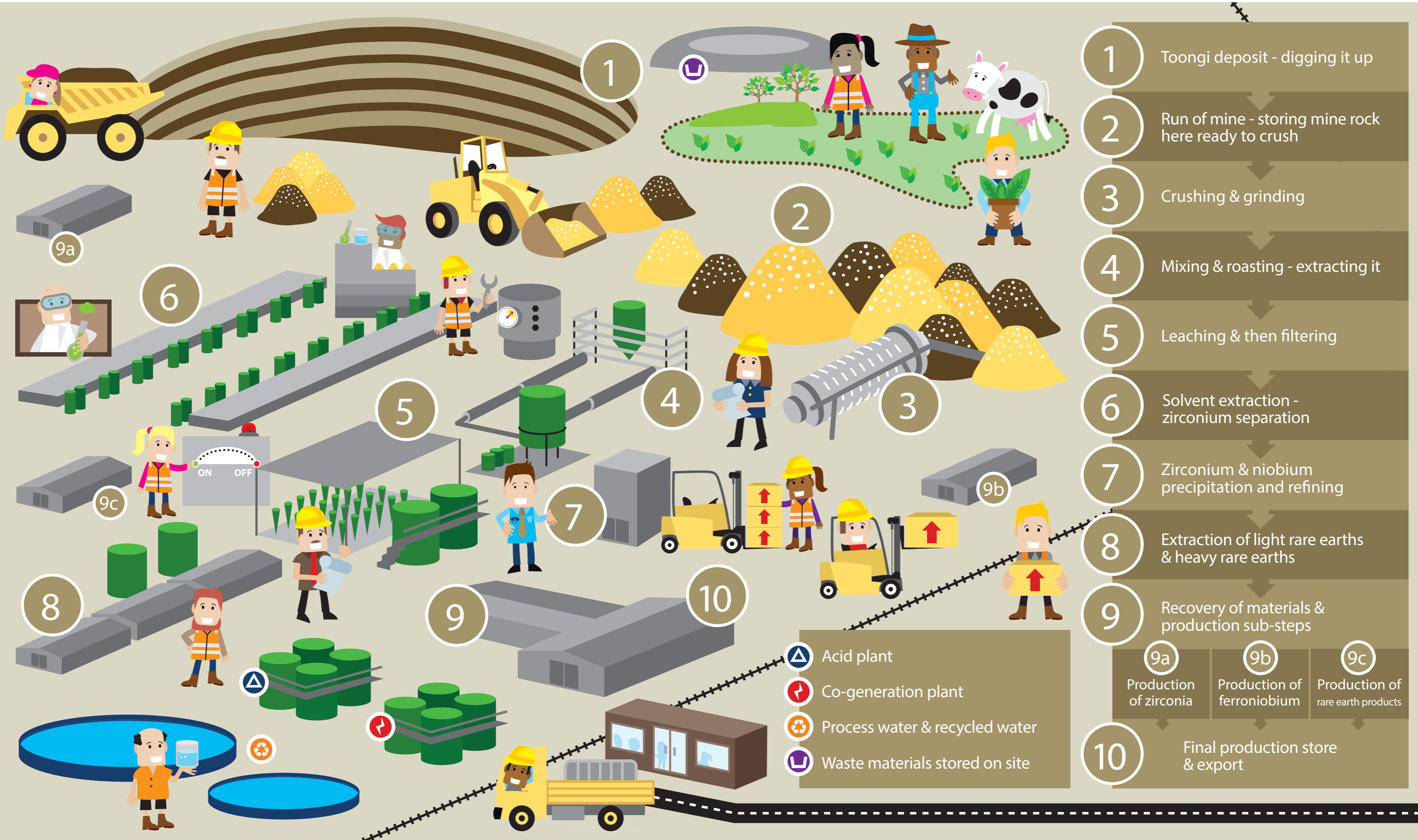


Dubbo Zirconia Project (DZP)

A strategic & alternate supply of zirconium & heavy rare earths



- 1 Toongi deposit - digging it up
- 2 Run of mine - storing mine rock here ready to crush
- 3 Crushing & grinding
- 4 Mixing & roasting - extracting it
- 5 Leaching & then filtering
- 6 Solvent extraction - zirconium separation
- 7 Zirconium & niobium precipitation and refining
- 8 Extraction of light rare earths & heavy rare earths
- 9 Recovery of materials & production sub-steps
 - 9a Production of zirconia
 - 9b Production of ferroniobium
 - 9c Production of rare earth products
- 10 Final production store & export

- Acid plant
- Co-generation plant
- Process water & recycled water
- Waste materials stored on site