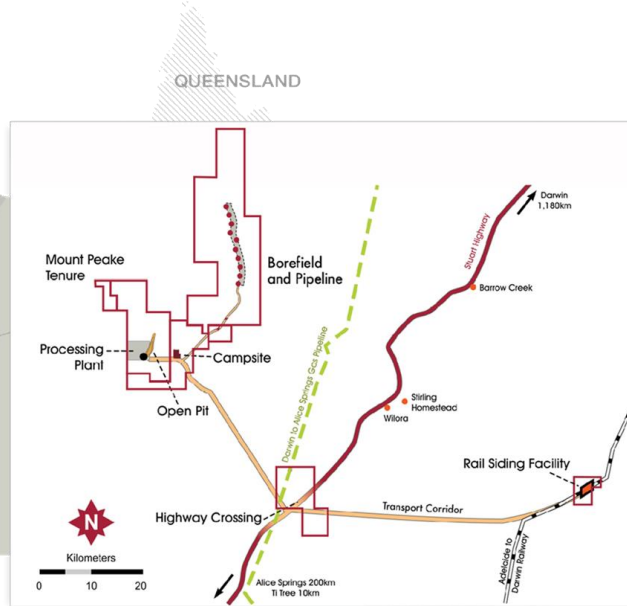
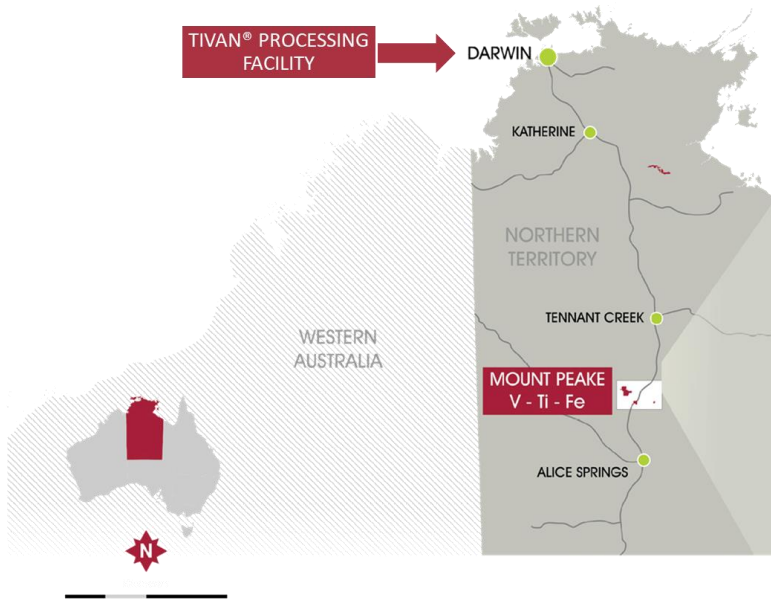


Mount Peake Project

TNG is an Australian resource and mineral processing technology company progressing towards development of its 100% owned world-class Mount Peake Vanadium-Titanium-Iron Project in the Northern Territory, Australia

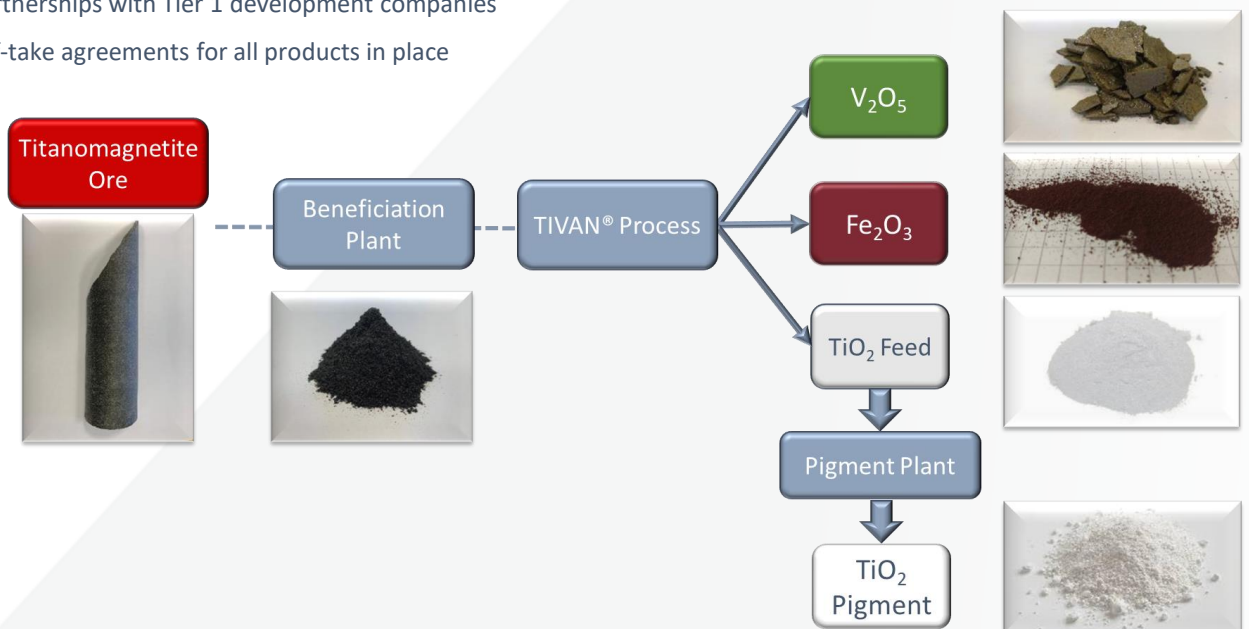


PROJECT HIGHLIGHTS

- ✓ Located in excellent jurisdiction close to existing power and transport infrastructure
- ✓ Vertically integrated, from production to market
- ✓ Mine Site approval completed in 2018
- ✓ Darwin TIVAN® Processing Facility permits underway
- ✓ Innovative TIVAN® technology enabling high-purity product development
- ✓ Partnerships with Tier 1 development companies
- ✓ Off-take agreements for all products in place

TIVAN® PROCESS

TIVAN® is a patented treatment process designed by TNG. This process is unlike other existing metallurgical treatment processes in the global market for this type of ore body. By utilising the TIVAN® Process, TNG will be able to extract three high-value strategic elements – **titanium dioxide, vanadium pentoxide and ferric oxide** – from the magnetite concentrate to produce high-purity products for export from Darwin.



THREE HIGH VALUE – HIGH PURITY PRODUCTS

PRODUCT	TITANIUM DIOXIDE PIGMENT (TiO ₂)	VANADIUM PENTOXIDE (V ₂ O ₅)	IRON OXIDE (Fe ₂ O ₃)
TNG'S AVERAGE PRODUCTION	100,000tpa (1.5% of world demand)	6,000tpa (3.5% of world demand)	500,000tpa (0.5% of world demand of fines)
MAIN USAGE	Paint, plastics, paper and inks	Steel, superalloys, chemicals, catalysts and energy storage (VRFB)	Steelmaking
OFFTAKE	LOM Offtake Agreement with DKSH to buy up to 100% of TNG's production	LOM Offtake Agreement with Woojin to buy up to 60% of TNG's production LOM Offtake Agreement with Gunvor (Singapore) to buy up to 40% of TNG's production	LOM Offtake Agreement Vimson Group to buy 100% of TNG's production
TNG PRODUCT PRICE	Expected 3% to 5% premium on market price as TNG product will be a high durable pigment	Expected 10% to 15% premium on market price for TNG product at 99.6%	Expected 10% premium on market price for TNG product above 64.4%

TNG ENERGY

Environmentally Sustainable Resources

VANADIUM REDOX FLOW BATTERIES - VRFB

- TNG's aim is to produce its own vanadium electrolyte and become a commercial supplier of VRFBs.
- TNG has previously produced high-purity vanadium electrolyte from vanadium pentoxide produced in pilot scale testwork for Mount Peake.
- TNG is progressing a VRFB study to confirm the commercial, marketing and technical requirements for the business.
- The VRFB is an energy storage flow battery suitable for large-scale energy storage.
- Long life cycle – 20 yrs vs 5-8 yrs (lithium-ion batteries).
- VRFBs are inherently more stable and fire safe than lithium-ion batteries and have low degradation.



HYDROGEN PRODUCTION TECHNOLOGY

- TNG & SMS entered into a partner development agreement to develop a low CO₂ technology.
- The technology will be developed to produce green hydrogen from various renewable, secondary or fossil hydrocarbon sources by means of plasma pyrolysis, utilising green electrical energy.
- Substantial quantities of CO₂-emissions could be eliminated as a result of the introduction of green hydrogen as the reduction agent in the TIVAN® Process.
- SMS will coordinate all development activities with a focus on the application to TNG's TIVAN® processing plant.
- Under this agreement, TNG will receive a royalty on all equipment that SMS sells globally.



CORPORATE DATA

ASX code	TNG
Cash as at 31 Dec 2020	A\$9.3 million
Shares on issue	1.25 billion
Market capitalisation (at 9c)	A\$112.5 million

TOP SHAREHOLDERS

Deutsche Balaton & Associates (DEU)	12.28%
Vimson Group (IND)	8.86%
WWB Investments P/L & Associates (AUS)	7.47%
SMS Investments SA (DEU)	1.21%