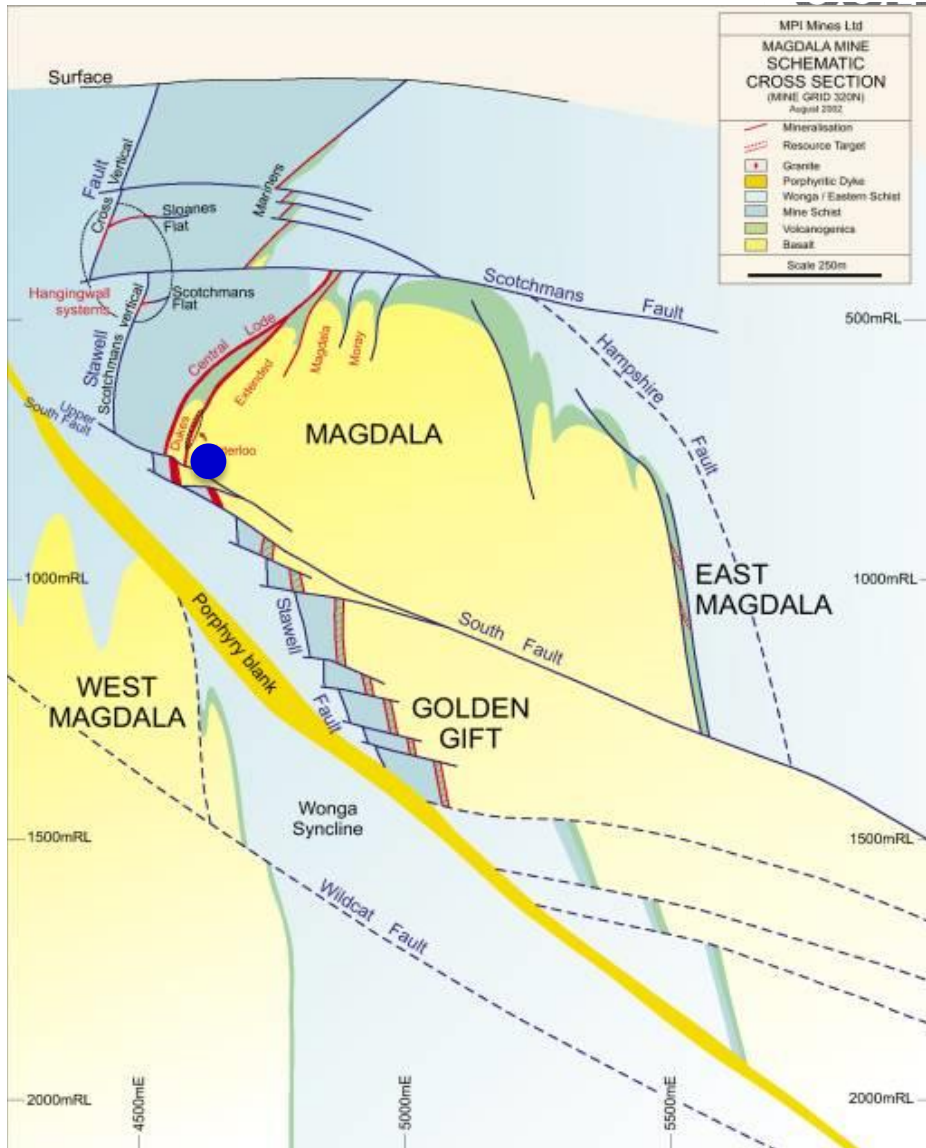


Stawell Mine ↓ 1km

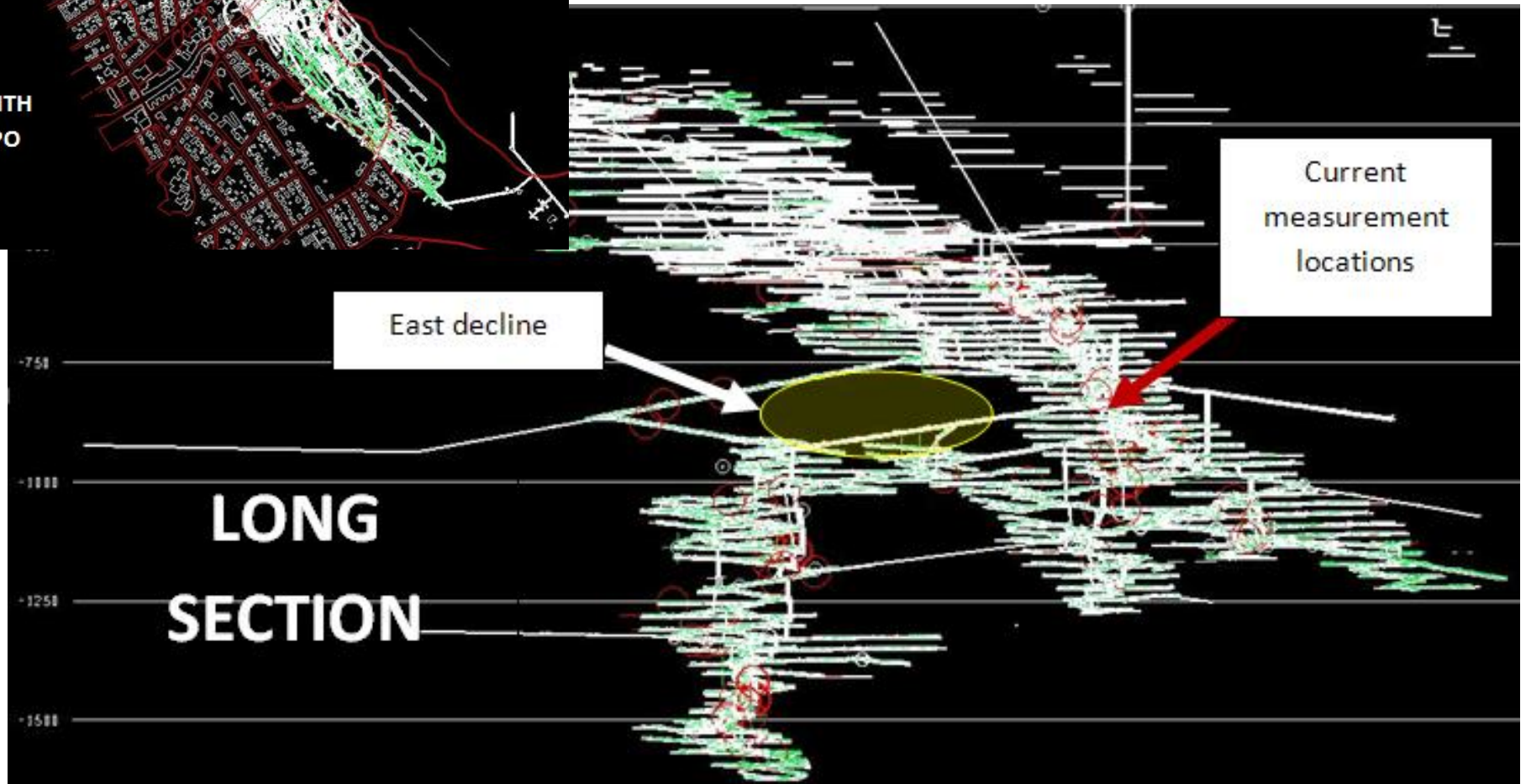
Stawell gold mine ~240 km west of Melbourne,

Laboratory to be placed at 1.0 km depth with a flat overburden.

All sites served with electricity, optical fibre, reached by car/truck.



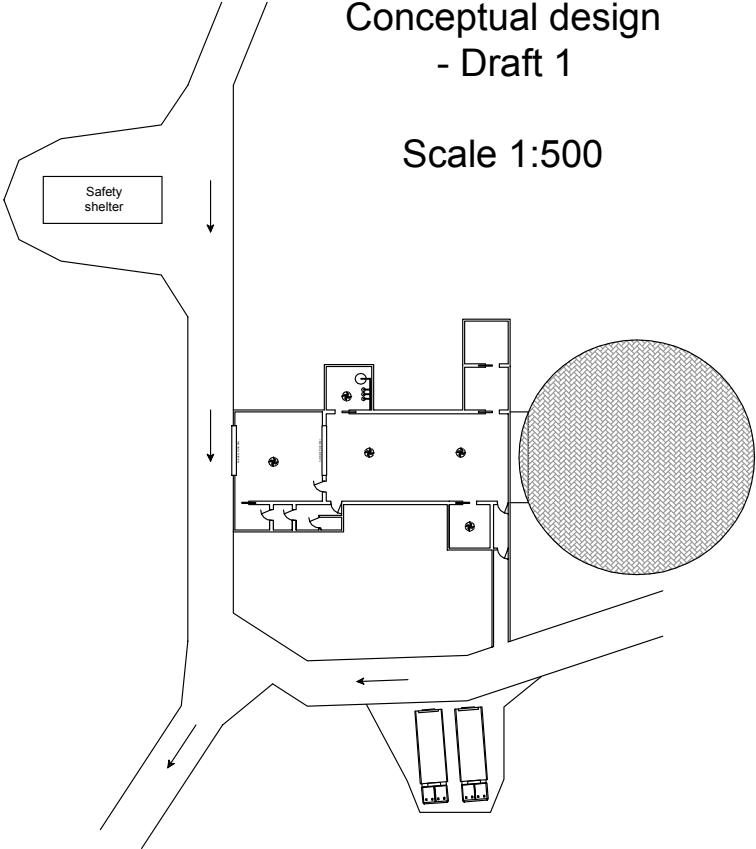
Stawell Mine ↓ 1km



Concept design

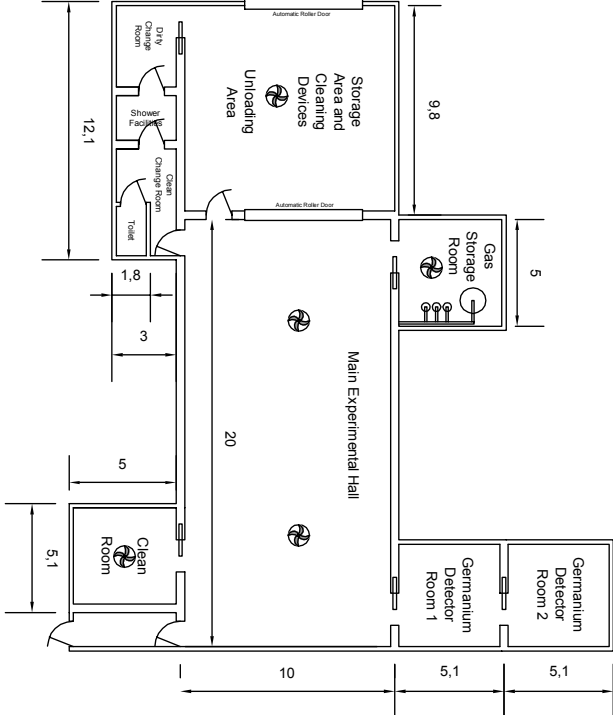
Conceptual design
- Draft 1

Scale 1:500



Conceptual design - Draft 1

Scale 1:250



Stawell Mine ↓ 1km

The first underground laboratory in the Southern hemisphere.

2014

Lab proposed (September)

2015

Funding secured (May) *Federal (\$1.75M) & State (\$1.75M), ARC Linkage (July) \$1.28M + Stawell Shire, ANSTO, Stawell Gold Mine + Uni.'s*
Appointed AEMEC to do the design

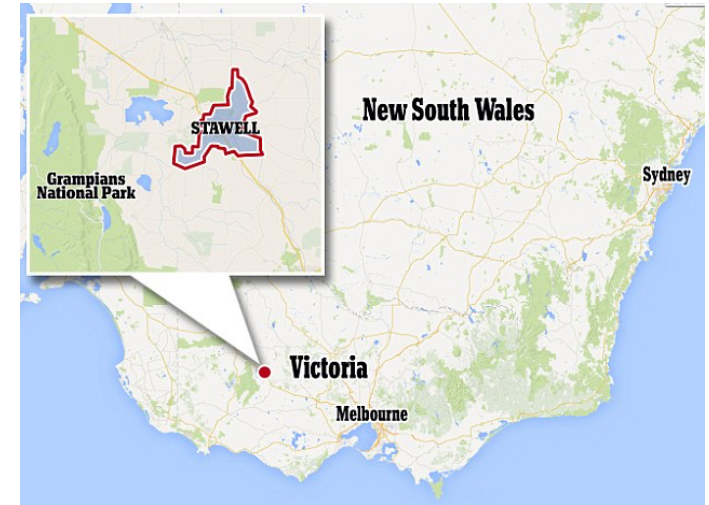
Measurements by ANU, Melbourne and ANSTO for the background

2016

Start Construction (Jan/Feb)

2017

Lab ready to be used (Feb)
ANSTO low background measurements facility



Activities in Australia and Funding

We got \$300K for SABRE (Vessel, some electronics, phototubes for the vessel..)

We can ask more this year (we have 1year cycle so we may ask the money for the crystals...

Melbourne: E. Barberio, P. Urquijo, F. Nuti + 1 postdocs (to arrive soon)+ 2 students

Simulations, DAQ, readout and help with the quenching measurements.

Mechanical engineering

ANU (Australia National University): A. Stuchbery, C. Simenel, G. Lane, A. Wallner + students

Quenching factor measurements, screening of the materials, pulse shape discrimination, readout

They have a heavy ion accelerator, tandem, can do mass spectrometry useful for long living radioactive material.

Swinburne: J. Mould + 1 postdoc to be hired

low electronic threshold

Adelaide (will join may be next year): 2 staffs (theorists) + 1 phd (payed by the ARC Linkage)

ANSTO+ANU Background in the underground lab.