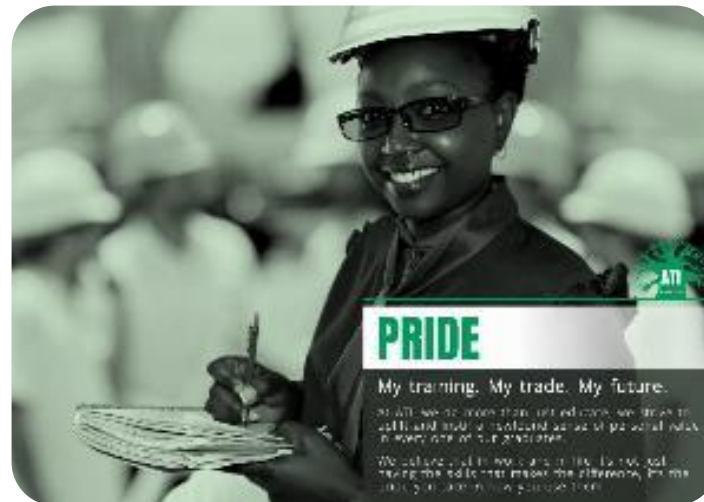




Future trends in engineering training for South Africa and the African continent

PRESENTATION OVERVIEW

- Context matters
- Technology acceleration
- Ideal world
- Reality
- Solutions



CONTEXT MATTERS

- **Global conflicts and energy crisis.**
- **Limited formal employment opportunities.**
- **Poor basic education.**
- **Policy uncertainty and policy/institutional voids.**
- **Bias towards university education.**
- **Rapid technology advancements.**

TECHNOLOGY

- Digital transformation (4IR);
- Trackless mining and mechanisation;
- Remote monitoring;
- Advanced asset tracking;
- Robotics;
- VR, AR and blended learning technologies;
- Renewable energy;
- Artificial Intelligence.



THE WAY FORWARD (IDEAL WORLD)

- Africa has formalised vocational qualifications, plus a continental qualification's framework.
- Lycee, Polytech, TVET and private colleges are properly structured with skilled staff and modern curricula.
- Qualifications are aligned to global best practice.
- Quality assurance is standardised.
- The African Union enables qualified staff to achieve above objectives.

IN THE ABSENCE OF THIS IDEAL SITUATION...

**Get out there, make a difference, and wait for governments
to catch up!**

ATI's experience from DRC, Ghana and Madagascar.

“Just do it”





Thank you