



DAIA Summit 23.10.2024:

Parallel session summaries

Effective Training for the Future: Recommendations

Key question #1: How can South Africa and Africa leverage AI, VR, and other emerging technologies in education and training?

Recommendation: Teachers need capacity and support in using technology: start with existing infrastructure, build collaboration with partners and make strategic plans.

Key question #2: What strategies can be employed to modernize TVET systems in South Africa and better align them with industry demands?

Recommendation: Excellent TVET pedagogy combined with industry partnerships.

Key question #3: How can we improve the training and mentoring of educators and trainers to enhance learning outcomes?

Recommendation: Future-proof the education and training: a change in policy is needed to allow flexibility in curricula and qualifications.

Effective Training for Future Demands in Water Sector: Recommendations

- Challenges in the sector (aging infrastructure and workforce) are so big that drastic actions are needed
- At the same time solutions are in principal terms simple:
 - Teachers need more **exposure to the industry**
 - Learners need more **exposure to the practice**
 - More train the trainers methods needed parallel to digital learning to achieve scalability
- In the future multidisciplinary approach needed that takes into account new technology (IoT, Robotics, AI etc.) that is needed in smart water solution area
- Special focus should be put on maintenance and leadership related issues
- One of the key ways to deliver scale is to speed up public and private collaboration; this will bridge the gap from education to the world of work

Construction & Mining: Recommendations

- Leadership capability development should be a starting point
- Huge need for change management needed, also from training perspective
- Industries are changing rapidly and need for cross sectoral and multidisciplinary approach needed in training (e.g. smart mining, industrialisation of construction)
- Only way to secure topical and relevant capacity building is to have a continuous dialogue between public and private sector
- Industries have huge potential to create social value (as big employers) – impact needs to be monitored continuously
- Only way for industries to survive is to set up processes that secure demand driven skills development

Agriculture: Recommendation

- Agriculture is a complex ecosystem of actors that is missing ecosystem approach in training – silo approach in training needs to be changed
- Adoption of new technology will change also the trainings needed – trust needs to be enhanced in technology and data usage through training
- Measures needs to taken to address distrust in the system - training has huge potential to be used as tool for that
- Transparency is another key component that is needed and training could help to achieve that