Challenges of Promoting Sustainability in the Namibian Minerals Education

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Presentation Outline

- Introduction
- Background
- Challenges
- Methodology
- Results and Discussion
- Conclusion
Introduction

The Namibian economy and minerals:
- Rough diamonds, uranium, gold, zinc, fluor spar, copper, lead...
- Big contribution to the Namibian Economy.

Minerals Engineers shortage: University of Namibia (Unam) and Polytechnic of Namibia (PoN).
Background

- Minerals Education globally in crisis.
- The case of Namibia:
  - Shortage (Namibian Chamber of Mines)
  - Expatriates
  - Competition with outside
Threats to Sustainability

- Quality of students,
- Shortage of academic staff,
- Poor image of the industry,
- Dwindling government funding,
- Limited involvement of the mining industry,
- Low student enrolments,
Quality of Students: Maths Pass Rate

Academic Years

Percentage

2008 2009 2010 2011 2012 2013
Students Enrollment

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<th>Academic years</th>
<th>Target</th>
<th>Actual</th>
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Number of students

- Target
- Actual
Academic qualification

- PhD
- MSc
- BSc

Number

Budgeted | Actual | Visiting
Academic Partnerships

- Clausthal Technical University: 30%
- Freiburg: 15%
- Thailand: 10%
- Local Minerals industry: 5%
- University of Namibia: 25%
- Regional partners: 25%
Government Funding

![Graph showing Government Funding from 2011 to 2015. The funding peaked in 2012 and then declined gradually.]
Limited involvement of The Mining Industry

- Young institutions
- Opportunity to learn from older institutions
Proposed Model

Mining & Related Companies
- Challenges
- Needs

Government

Alliance with other Universities

University
- Challenges
- Needs

Trained Staff
- Solutions

Sustainable Minerals Education
CONCLUSIONS

- Engagement with stakeholders
- Local and international partnership