



Sam Nujoma Marine & Coastal Resources Research Centre



OPPORTUNITIES FOR BIOFUELS CAPACITY BUILDING IN NAMIBIA

BY

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INTRODUCTION

- Capacity building remains one of the most challenging functions of global development.
- Capacity building is linked to training
- But training is in most cases only benefiting individuals without strengthening the capacities of institutions and of countries.
- Therefore, unless capacity building is targeted at both individuals and institutions, its benefits may be uneven and unreliable



Cont...INTRODUCTION

- At present there is no biofuels capacity building in Namibia
- Though, Namibia has two big institutions of higher learning, namely the University of Namibia (UNAM) and Polytechnic of Namibia (PoN).
- Therefore the opportunity for biofuels capacity building does exist within the structures of the two institutions.



- Because fields of study in natural resources are already well established in both these institutions' structures at undergraduate, post-graduate, and post doctoral level.
- Hence capacity building can be integrated into the curriculum's of both for UNAM and PoN.



OPPORTUNITIES AT UNAM

FACULTY OF AGRICULTURE AND NATURAL RESOURCES

CROPS SCIENCE

NATURAL RESOURCES MANAGEMENT

**INTEGRATED ENVIRONMENTAL
SCIENCE**

FORESTRY



CONT...UNAM

UNAM RESEARCH CENTRE/OTHER FACULTIES

SANUMARC

MRC

Faculty of Engineering

Faculty of Science/Biology
department



OPPORTUNITIES AT PoN

SCHOOL OF NATURAL RESOURCES & TOURISM

DEPARTMENT OF AGRICULTURE

**DEPARTMENT OF NATURE
CONSERVATION**

DEPARTMENT OF LAND MANAGEMENT

SCHOOL OF ENGINEERING



Possible stakeholders

- University of Namibia (UNAM)
- Polytechnic of Namibia (PoN)
- Other stakeholders could include:
 - Ministry of Mines and Energy
 - Ministry of Agriculture, Water and Forestry
 - Ministry of Fisheries and Marine Resources
 - Ministry of Environment & Tourism
 - Ministry of Education
 - VTCs, SMEs, NGOs

Driving force



INSTITUTIONAL OBJECTIVES OF BIOFUELS CAPACITY BUILDING MAY INCLUDE:

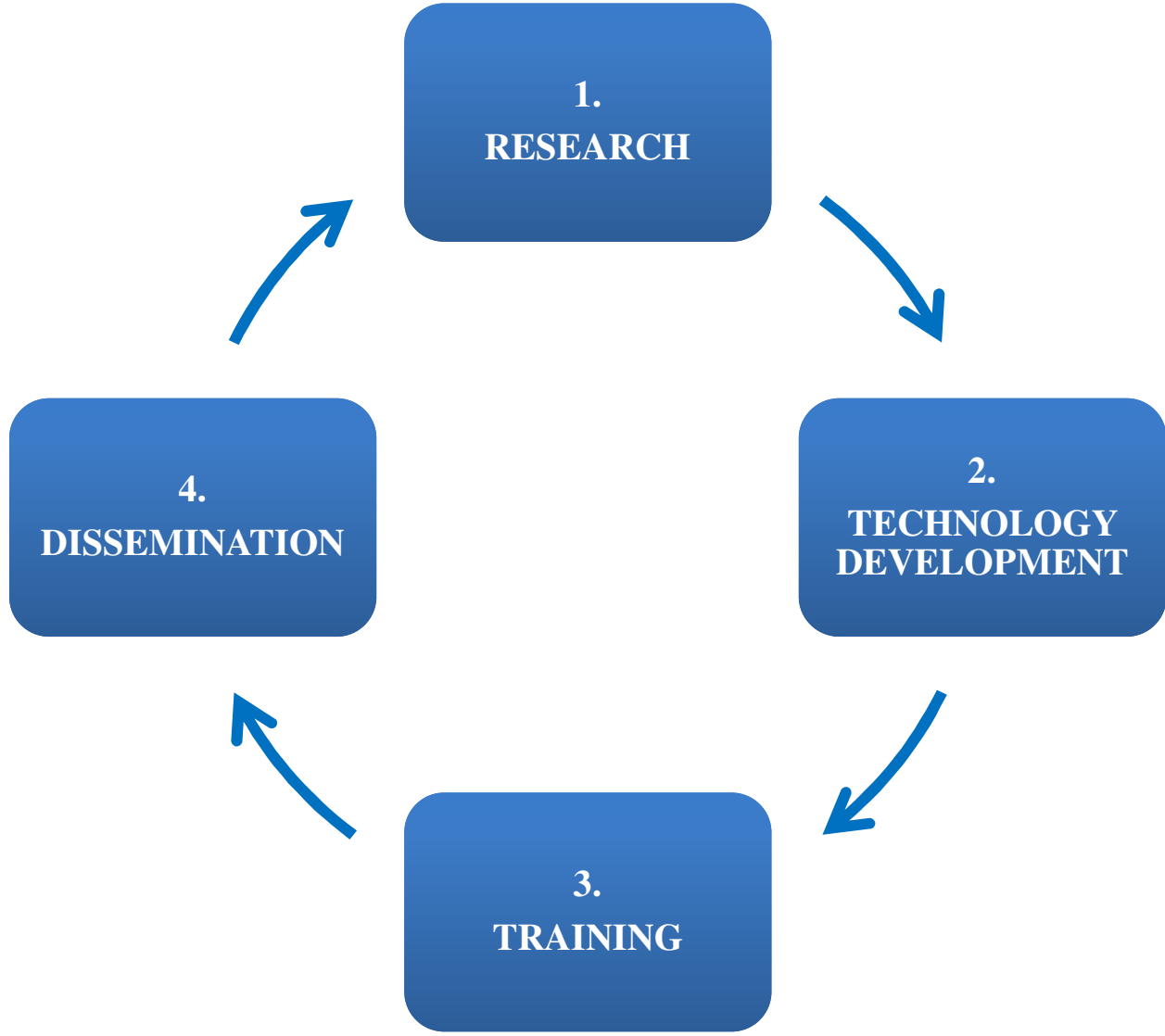
- Build and strengthen institutional capacity at all levels
- Facilitate opportunities for effective collaboration with role players/stakeholders
- Integrate biofuels training across disciplines and institutional setups
- Enhance access to both biofuels and biofuels information



Institutional biofuels capacity building framework



Capacity building framework as a four-step process designed to promote and shape biofuels capacity building activities at institutional level.





Institutional tasks through the framework may focus on:

- Providing technical expertise, training and conduct biofuels research
- Providing assistance in formulating policies, (national) strategies in order to ensure the sustainable development of the biofuel production
- Developing tools to quantify the likely biofuels resource base on a region-by-region and outline the opportunities
- Providing an enabling environment and build capacities for establishing biofuels programmes
- Facilitating efficient interactions and participation among stakeholders, including the private sector



Benefits of Biofuels Capacity Building

- The success of biofuels capacity building, direct or indirect will contribute to agricultural productivity and food security in Namibia.
 - Because both subsistence and commercial farmers will have access to relevant information, cheaper or affordable biofuels and in return increased crop production and income.
- Opportunities for Small Medium Enterprise (SMEs) as small-scale suppliers of biofuels.



Conclusion

- Capacity building should focus on building up institutional capacities first and foremost as recommended by United Nations Educational, Scientific and Cultural Organization (UNESCO) and International Institute for Capacity Building in Africa (IICBA) (1999).
- That can be achieved through the integration of biofuels capacity building into existing programmes of UNAM & PoN.
- Therefore the benefits of biofuels capacity building can only be realised if UNAM & PoN becomes the driving force in striving to overcome the challenges of technological development through research and training and later dissemination of relevant information to the stakeholders.



THANK YOU