



# Botswana

Global Commercialization Centre  
Conference - Global Technology  
Commercialization for Innovative Development

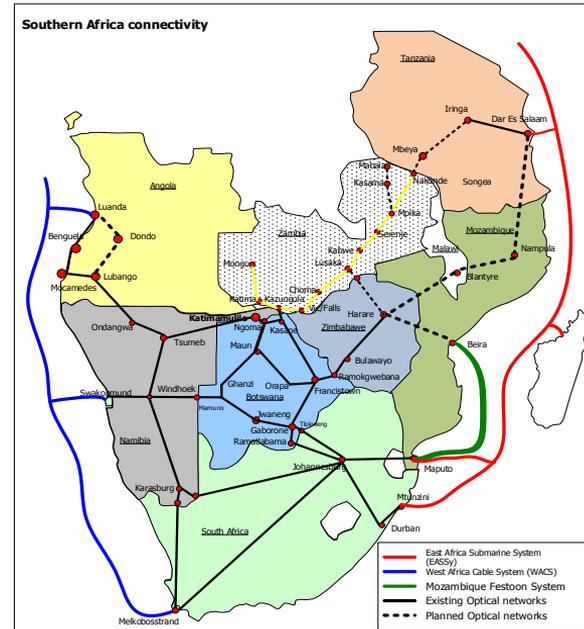
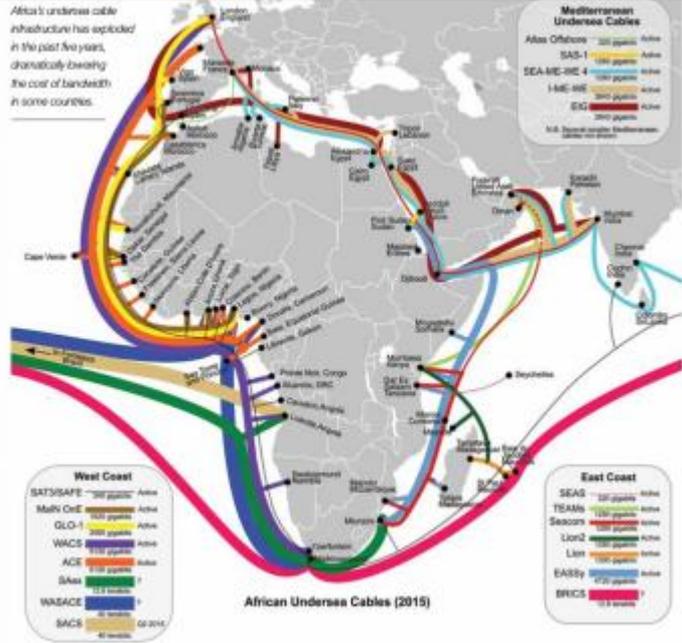
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Projects Coordinator (BIH)**

# WHY INVEST IN BIH | SCIENCE AND TECHNOLOGY PARK



- ❖ Population = 2,155,784 (2014 estimate)
- ❖ GDP = US\$36.505 billion (2016 estimate)
- ❖ Botswana's sustained economic growth averaging 5% per annum over the past decade, amongst the fastest in the world.
- ❖ Perfect gateway to the Southern African Development Community (SADC), which has its headquarters in Gaborone.

# BOTSWANA INTERNATIONAL CONNECTIVITY



- ❖ Africa continues to land submarine cables connecting it to the rest of the world.
- ❖ Direct investments and connectivity have been made by the Government to the EASSy and WACS landing on the East and West coast of Africa.

# Connectivity to EASSy and WACS

## 1. EASSy

### ➤ Backhaul:

- The Eastern Africa Submarine Cable System (EASSy) is an undersea fibre optic cable system connecting countries in Eastern Africa to the rest of the world.
- Botswana is connecting to EASSy through South Africa.
- Capacity entitlement: 22.165Gb/s
- Activated capacity: 4.960 Gb/s

## 2. WACS

### ➤ Backhaul:

- WACS (West Africa Cable System) is a submarine communications cable linking Africa with the rest of the world along the west coast of Africa
- Botswana is connecting to WACS through 2 landing stations; Namibia and South Africa
- Capacity entitlement: 97.96 Gb/s
- Activated capacity: 10.54 Gb/s



# Botswana Innovation Hub (BIH) | ROLE



# BIH | SCIENCE AND TECHNOLOGY PARK

“ An Innovative and networked organisation that promotes technology, entrepreneurship and commercialisation on a purpose built Science and Technology Park.

12/7/2016

[www.bih.co.bw](http://www.bih.co.bw)



# BIH | STRATEGIC PILLARS

1. **Develop and Manage Science and Technology Park**
2. **Foster commercialisation of innovations and technology transfer**
3. **Attract innovative companies and institutions**
4. **Strengthen Organizational Capacity**
5. **Contribute towards National Economic Diversification and Knowledge Economy**



# BIH | TIMELINE

## Setting Up (2008-2011)



- ❖ BIH and subsidiary (BIHP) established
- ❖ Company Constitution approved
- ❖ BIH Board Appointed
- ❖ Microsoft Innovation Centre (MIC) launched

## Transition (2012-2016)



- ❖ BIH company fully operational
- ❖ Key Innovation Support Programmes launched
- ❖ Physical development of the Science and Technology Park
- ❖ Develop strategic partnerships & increase BIH membership registration
- ❖ Commencement of Innovation Fund

## Scaling Up (beyond 2016)



- ❖ Science and Technology Park operational
- ❖ Attraction of Science and Technology Companies
- ❖ Property development in other part of the Park
- ❖ Impact of Innovation Support Programmes (e.g. jobs created in new niche sectors, new technological solutions)
- ❖ Data Centre Technologies

# BIH | INNOVATION ECOSYSTEM



**Government**



**Industry**



**UNIVERSITY  
of  
BOTSWANA  
Academia**



**Innovators & Entrepreneurs**



**Financiers**



# SPACE AVAILABLE TO LET -ICON BUILDING

*The outstanding building quality complemented by excellent lifestyle amenities business support facilities and vibrant activities offer optimal networking opportunities for top names in technology*

- **Apex Laboratory**
  - Shared Cutting Edge Laboratory Spaces
- **Iconic Building**
  - Reception & Security
  - Auditoriums & Conferencing
  - Restaurants
  - Lounges For Networking
  - Outdoor Amenities
  - Business Support Services
- **Commercial Office**
  - High Grade
  - Prime Location
- **Additional Benefits**
  - Tax Incentives
  - Labour Dispensation
  - Superior High-speed Broadband and Internet Connectivity
  - Themed Developments
  - Park Environment



# The Icon Building

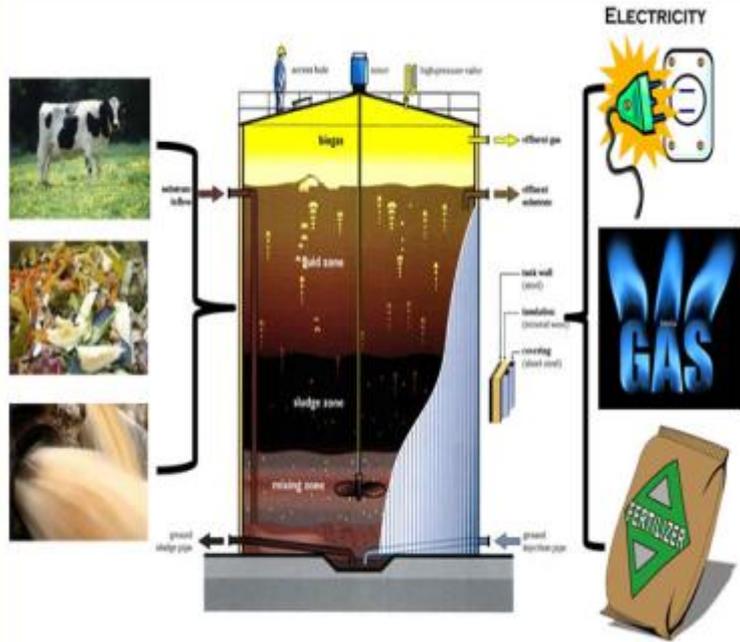
- A catalyst for other Developments
- Networking Platform
- Trend Setter
- Sign Of Commitment to the Cause By Promoter
- Symbol Of Innovation & Technology
- Landmark & Attraction – To Sell The Park
- LEED Certified In The Region
- Innovative Development
- Has public good elements – Incubation & laboratories:



# Opportunities For Partnership through BIH

- 1. Biogas Project for Botswana Rural Areas**
- 2. PV-Solar/ Wind Hybrid System for off-grid mobile base stations**
- 3. Solar Cooker Project**
- 4. Water treatment & Conservation**
- 5. Biotech – food security & IKS Commercialisation**
- 6. Local Specific Application Development**
- 7. Technology Knowledge transfer – capacity and/or knowledge**
- 8. Open Data**

# Biogas Project



- 1. Project Brief** - Rural areas of developing countries like Botswana are very dependent on biomass fuels such as firewood and dried dung for their energy consumption. This use of energy is often coupled with many problems such as deforestation, land degrade, various health and social problems as well as giving raise to emissions of greenhouse gases. In many areas biogas can be used as a replacement for these fuels and can help solve many of the problems that are associated with biomass fuels.
- 2. Support Required** - technical support in terms of detailed design of the plant based on specific site characteristics.
- 3. Progress made to date** – Currently at planning stage; where we are identifying the location, type of input substrates, quantity of input substrates and local circumstances.

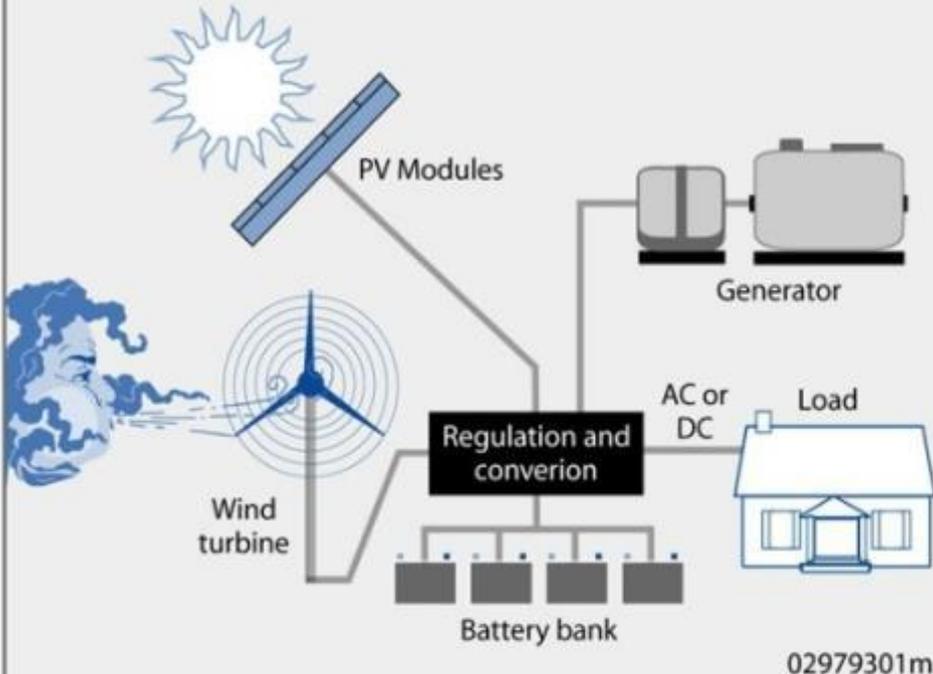
# SOLAR COOKER PROJECT

- 1. Project Brief** - Cooking in rural areas is customarily done on open fires using firewood, charcoal, and kerosene. This leads to deforestation in these rural areas as well as causing excessive pollution and significant smoke inhalation. Botswana has abundance of sunshine and as BIH want to explore solutions that can use this natural resource to assist the community hence the Solar Cooker Project. Some alternate uses for proposed solar cookers are; Water pasteurization, disinfect dry medical supplies and to sanitize utensils. The main objective of the project is to design a solar cooker made specifically for Botswana environment at the same time utilizing locally available materials.
- 2. Support Required** - technical support in terms of detailed design of the cooker based on Botswana climatic conditions.
- 3. Progress made to date** – Currently at planning stage; where we are identifying the location, type of input substrates, quantity of input substrates and local circumstances.

# OTHER PROJECTS

## Hybrid Power Systems

Combine multiple sources to deliver non-intermittent electric power



1. **Project Brief** – Botswana has abundance of sunshine and wind and as BIH we want to explore solutions that can use this natural resources to substantiate Power generation currently get from coal.
2. **Support Required** - technical support in terms of detailed research and development in this area.
3. **Progress made to date** – Currently at planning and feasibility stage.

Thank You

감사합니다

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# BIH | ...COME AND JOIN US



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http://

[www.bih.co.bw](http://www.bih.co.bw)



Botswana Innovation Hub |



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