



**INTERNATIONAL FOOD
POLICY RESEARCH INSTITUTE**
sustainable solutions for ending hunger and poverty
Supported by the CGIAR



PROGRAM FOR BIOSAFETY SYSTEMS
A partnership program for biosafety capacity development

Capacity Building under the Cartagena Protocol for Biosafety

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What do we mean by capacity?

- **Organizational development?**
- **Trainings/workshops?**
 - **Self - organizing principle**
- **Development of (physical) infrastructure**

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Article ^{JK3} 22

The Parties shall cooperate in the development and/or strengthening of human resources in biosafety ... for the effective implementation of this Protocol.

...[T]he needs of Developing country Parties, shall be taken fully into account for capacity building in biosafety.

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Capacity Building: Aims

Cooperation in capacity-building shall...include scientific and technical training in the proper and safer management of biotechnology, and in the use of risk assessment and risk management for biosafety, and the enhancement of technological and institutional capacity in biosafety.

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JK3 of the Protocol says:
John Komen, 11/3/2011





Capacity Building: Donors

- **Multilateral Organizations**
 - UNEP-GEF
 - World Bank
 - IFPRI (PBS)
 - FAO
- **Foundations and NGOs**
 - ILSI
 - Gates Foundation
 - Rockefeller Foundation
- **Governments**
 - USAID
 - DANIDA (Denmark)
 - GTZ (Germany)
 - NORAD/Genøk (Norway)
- **Private Sector**
 - Crop Life International

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Capacity Building: Challenges

- Weak coordination and cooperation among donors, due to differing donor objectives
- Short-term nature of most capacity building projects
- Focus on “easy” part of capacity building
e.g. assistance in drafting legislation but not bringing them into adoption

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Capacity Building: Action Plan



Action Plan* should, as appropriate:

- Be country-driven,
- Ensure national ownership and leadership,
- Ensure systematic and timely participation of all relevant stakeholders in ... capacity-building initiatives
- Promote policy dialogue with donors and organizations providing biosafety capacity
- Encourage the development and implementation of nationally-designed and resourced activities that address the specific needs and priorities of each country

*http://bch.cbd.int/resources/capacitybuilding/annexbsiii3_revised_action_plan_en.pdf

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PBS and Capacity Building



Organizational Structure

MANAGEMENT

Judy Chambers
Director

John Komen
Assistant
Director &
Africa
Coordinator

Julian Adams
Asia
Coordinator

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Organizational Management
Adelaida Harries

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Action Plan: Key elements



- Institutional capacity-building:
 - Legislative and regulatory framework;
 - Administrative framework;
- Risk assessment and other scientific and technical expertise;
- Risk management;
- Awareness, participation and education at all levels, including for decision makers, stakeholders and the general public;
- Scientific, technical and institutional collaboration at sub regional, regional and international levels;
- Socio-economic considerations;
- Implementation of the documentation requirements under Article 18.2 of the Protocol;
- Scientific Biosafety research relating to living modified organisms;

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Action Plan: Development of Legislative and Regulatory Framework



- Indonesia
 - Workshops on Policy and Legal Analysis and Liability & Redress
 - Workshop on Confined Field Trials
- Vietnam
 - Workshop on Liability & Redress
 - Workshop on Confined Field Trials

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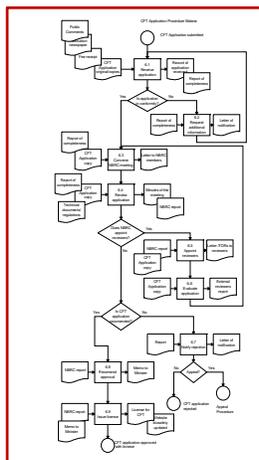
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Action Plan: Administrative Framework



- Identification of Organizational Structures – Malawi

Deliverables

- Development of CFT Guidelines
- Approval Obtained for First Field Trial in Malawi

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Action Plan: Risk Assessment

- Indonesia
 - ERA Training for Technical Committee
- Vietnam
 - Assistance in preparing Circular

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Action Plan: Scientific, technical and institutional collaboration JK10



Study Tour
Kenya National Biosafety Authority
to the Philippines
May 2011

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Action Plan: Risk Management

- Indonesia, Vietnam, APEC
 - Workshops and Policy Round Tables on LLP

Deliverable

- Catalyzed the formulation of LLP implementing guidelines in the Philippines and Indonesia

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JK10 The vietnamese internships in the Philippines could be cited as another examples.
John Komen, 11/4/2011



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Action Plan: Awareness Participation

APPLYING BIOTECHNOLOGY IN A SAFE AND RESPONSIBLE MANNER: JUSTIFICATION FOR A BIOSAFETY LAW IN KENYA

Introduction

The draft Biosafety Bill, 2010, published by Kenya Ministry of Higher Education, Science and Technology, sets out the legal and regulatory framework for applying biotechnology in Kenya. This draft is a significant step towards the development of a comprehensive regulatory framework for biotechnology in Kenya. The Bill is a key element of the Kenyan government's strategy to harness biotechnology for economic growth and social development. The Bill is a key element of the Kenyan government's strategy to harness biotechnology for economic growth and social development.

Biotechnology and Biosafety Developments in Kenya

The present review of biosafety and biotechnology in Kenya is intended to provide a comprehensive overview of the current state of biotechnology in Kenya. The review is intended to provide a comprehensive overview of the current state of biotechnology in Kenya. The review is intended to provide a comprehensive overview of the current state of biotechnology in Kenya.

The Biosafety Regulatory System

Biosafety regulatory systems for genetic engineering are based on the use of a regulatory framework. The regulatory framework is based on the use of a regulatory framework. The regulatory framework is based on the use of a regulatory framework.

Conclusions

The review concludes that the Kenyan government should take steps to ensure that the regulatory framework is based on the use of a regulatory framework. The review concludes that the Kenyan government should take steps to ensure that the regulatory framework is based on the use of a regulatory framework.

GMOs and Exports: Demystifying Concerns in Africa

Introduction

Current trends and future projections indicate that Genetically Modified Organisms (GMOs) in food crops are increasing because of the global economy and world trade. In 2007, the global market value of GM crops was US\$9.9 billion, representing 1.8% of the US\$541.6 billion global agricultural market. Substantial net economic benefits of US\$2.2 billion are expected to be realized in 2008 and 20% of the US\$36 billion global agricultural market. Substantial net economic benefits of US\$2.2 billion are expected to be realized in 2008 and 20% of the US\$36 billion global agricultural market.

GM crops commercialized globally

The demand for GM crops that have been granted approvals for commercial planting globally includes soybeans, maize, cotton and sorghum. GM rice, papaya and banana have also been approved for commercial planting. The demand for GM crops that have been granted approvals for commercial planting globally includes soybeans, maize, cotton and sorghum. GM rice, papaya and banana have also been approved for commercial planting.

Status of Biotechnology in Kenya

A Handbook for Policymakers

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Action Plan: Communication



Netmapping: Indonesia, Vietnam

Design of an effective communications strategy to determine the type of information, and audiences that need to be addressed when considering general GMO releases in the Indonesian market

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Action Plan: Socio Economic Considerations

Indonesia, the Philippines: Workshops on socio-economic issues, and the interpretation of Article 26

Deliverables

- Objective evaluation of benefits and consequence (costs of compliance) of Socio Economic evaluations
- Suggest management practices to increase benefits from use
- Support economically beneficial applications and encourage new technology

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Action Plan: Article 18.2.a

- Policy Analyses of the impact of article 18.2.a on trade in APEC and other regions

Deliverable

- Identification of main policy options, constraints and trade-offs

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Action Plan: Scientific Biosafety Research

BBI PROGRAM Competitive Research Grant Program

Generation of scientific knowledge and data to:

- Support risk assessment and decision-making
- Assist regulatory bodies in making science-based decisions about the effects (risks and benefits) on biodiversity of introducing GMOs into the environment. (ex. geneflow implications)
- Develop strategies for managing potential risks in the context of agro-ecosystems found in developing countries.


Building Local Research Capacity to Support National Biosafety Systems
 Biotechnology and Biodiversity Interface (BBI) Competitive Grant Program

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Lessons Learned



- **Product Focus**
 - Essential role of field trials in building confidence and in driving regulatory framework development
- **Patience**
 - No “shortcuts”; comprehensive, consultative approach needed to bring policies and laws from draft to adoption
- **Outreach**
 - Importance of Communication and outreach to Policy Makers
- **In-Country**
 - Local teams, taskforces, advisors and champions

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Thank you!
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