# Capacity Building Needs and Priorities

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## Areas of capacity building

### Broad areas in which capacity is needed

- Institutional capacity
- Human resources capacity development and training
- Risk assessment and other scientific and technical expertise
- Risk management
- Public awareness, participation and education in biosafety
- Information exchange and data management including participation in the Biosafety Clearing-House
- Scientific, technical and institutional collaboration at subregional, regional and international levels
- Technology transfer

- Identification of LMOs, including their detection
- Socio-economic considerations
- Implementation of the documentation requirements under Article 18.2 of the Protocol
- Handling of confidential information
- Measures to address unintentional and/or illegal transboundary movements of LMOs
- Scientific biosafety research relating to LMOs
- Taking into account risks to human health

## Needs and priorities

### Specific needs and priorities

- **Mechanism for coordination among national regulatory authorities and processes**

  | *Extent of implementation* | *Preferred means* | *Major target groups* |
  |---|---|---|
  | • Partially addressed | • Funding support | • Government regulators / administrators |

- **System for magement of records related to LMO import applications and decisions**

  | *Extent of implementation* | *Preferred means* | *Major target groups* |
  |---|---|---|
  | • Partially addressed | • Funding support<br>• Conferences and other fora | • Government regulators / administrators |

- **System for tracking and dealing with unintentional or illegal transboundary movements**

  | *Extent of implementation* | *Preferred means* | *Major target groups* |
  |---|---|---|
  | • Partially addressed | • Funding support | • Government regulators / administrators |

- **System for post-release monitoring of LMOs**

  | *Extent of implementation* | *Preferred means* | *Major target groups* |
  |---|---|---|
  | • Partially addressed | • Funding support | • Government regulators / administrators |

- **Access to information on existing academic training programmes in biosafety**

  | *Extent of implementation* | *Preferred means* | *Major target groups* |
  |---|---|---|
  | • Partially addressed | • Funding support | • Government regulators / administrators |

- **Access to information on staff exchange/on-the-job-training opportunities**

  | *Extent of implementation* | *Preferred means* | *Major target groups* |
  |---|---|---|
  | • Partially addressed | • Funding support | • Government regulators / administrators |

- **Training in biosafety legislation and policy development and practice**

  | *Extent of implementation* | *Preferred means* | *Major target groups* |
  |---|---|---|
  | • Partially addressed | • Education and training | • Government regulators / administrators |

- **Training in scientific and technical fields relevant to biosafety**

  | *Extent of implementation* | *Preferred means* | *Major target groups* |
  |---|---|---|
  | • Partially addressed | • Funding support | • Government regulators / administrators |

- **Training in legal, social and economic fields relevant to biosafety**

  | *Extent of implementation* | *Preferred means* | *Major target groups* |
  |---|---|---|
  | • Partially addressed | • Education and training | • Government regulators / administrators |

- **Training in basics of biosafety and modern biotechnology**

  | *Extent of implementation* | *Preferred means* | *Major target groups* |
  |---|---|---|
  | • Partially addressed | • Education and training<br>• Exchange programmes, internships, study tours, etc.<br>• Conferences and other fora | • Government regulators / administrators<br>• Technical personnel / Scientists |

- **Training in risk assessment**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Education and training
  - Funding support

  *Major target groups*
  - Government regulators / administrators
  - Technical personnel / Scientists

- **Training in risk management**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Education and training
  - Funding support

  *Major target groups*
  - Government regulators / administrators
  - Technical personnel / Scientists

- **Training in biosafety communication**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **Training in LMO sampling and detection**

  *Extent of implementation*
  - Fully addressed

  *Preferred means*
  - Exchange programmes, internships, study tours, etc.
  - Conferences and other fora

  *Major target groups*
  - Government regulators / administrators

- **Training in post-release monitoring of LMOs**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **Biosafety research**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **Training in socio-economic considerations relating to LMOs**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **Training in documentation and identification requirements for LMO shipments**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **Training in compliance requirements under the Protocol**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **Access to basic ecological data to support risk assessments**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **Guidance on how to perform risk assessment**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Education and training

  *Major target groups*
  - Government regulators / administrators

- **National risk management system/strategy**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **System to detect and appropriately respond to unintentional LMO releases**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators /

administrators

- **Guidance on different risk management measures**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Education and training
  - Funding support

  *Major target groups*
  - Government regulators / administrators
  - Technical personnel / Scientists

- **Mechanisms for cooperation in risk management**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **National framework/system for post-release monitoring of LMOs**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **Tools and methodologies for environmental monitoring of LMOs**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **Biosafety awareness and education programmes**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **Training in risk-communication**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **National system (policy, procedures and mechanisms) for biosafety information management**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **Systems for data validation and quality control**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Education and training
  - Funding support
  - Conferences and other fora

  *Major target groups*
  - Government regulators / administrators
  - Technical personnel / Scientists

- **Training in collaboration techniques and approaches**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **Training in negotiation skills**

  *Extent of implementation*
  - Fully addressed

  *Preferred means*
  - Education and training
  - Guidance / training materials

  *Major target groups*
  - Government regulators / administrators
  - Technical personnel / Scientists

- **Establishment of technology information platforms**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **National framework and action plan for technology transfer**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **Public–private partnerships for technology development**

| Extent of implementation | Preferred means | Major target groups |
|---|---|---|
| • Partially addressed | • Funding support | • Government regulators / administrators |

• **Laboratory for LMO detection and analysis**

| Extent of implementation | Preferred means | Major target groups |
|---|---|---|
| • Fully addressed | • Education and training<br>• Exchange programmes, internships, study tours, etc.<br>• Conferences and other fora | • Government regulators / administrators<br>• Technical personnel / Scientists |

• **Guidance on unique identification systems**

| Extent of implementation | Preferred means | Major target groups |
|---|---|---|
| • Adequately addressed | • Education and training<br>• Guidance / training materials | • Government regulators / administrators<br>• Technical personnel / Scientists |

• **Simple/quick LMO test kits**

| Extent of implementation | Preferred means | Major target groups |
|---|---|---|
| • Partially addressed | • Education and training<br>• Conferences and other fora | • Government regulators / administrators<br>• Technical personnel / Scientists |

• **National system for taking into account socio-economic considerations in decision-making regarding LMOs**

| Extent of implementation | Preferred means | Major target groups |
|---|---|---|
| • Partially addressed | • Funding support | • Government regulators / administrators |

• **Guidance on taking into account socio-economic considerations in decision-making concerning LMOs**

| Extent of implementation | Preferred means | Major target groups |
|---|---|---|
| • Partially addressed | • Education and training<br>• Funding support<br>• Conferences and other fora | • Government regulators / administrators<br>• Technical personnel / Scientists |

• **Mechanisms for cooperation on research on socio-economic impacts of LMOs**

| Extent of implementation | Preferred means | Major target groups |
|---|---|---|
| • Partially addressed | • Funding support | • Government regulators / administrators |

• **Development of LMO traceability systems**

| Extent of implementation | Preferred means | Major target groups |
|---|---|---|
| • Partially addressed | • Funding support | • Government regulators / administrators |

• **Establishment of identity preservation systems**

| Extent of implementation | Preferred means | Major target groups |
|---|---|---|
| • Partially addressed | • Funding support | • Government regulators / administrators |

• **National system for inspection and verification of documentation accompanying LMO shipments**

| Extent of implementation | Preferred means | Major target groups |
|---|---|---|
| • Partially addressed | • Funding support<br>• Guidance / training materials | • Government regulators / administrators |

• **National system for managing and protecting confidential information**

| Extent of implementation | Preferred means | Major target groups |
|---|---|---|
| • Partially addressed | • Education and training<br>• Funding support<br>• Guidance / training materials | • Government regulators / administrators<br>• Technical personnel / Scientists<br>• Mass media / extension workers |

• **Training in biosafety record keeping and information security**

| Extent of implementation | Preferred means | Major target groups |
|---|---|---|
| • Partially addressed | • Funding support | • Government regulators / administrators |

- **Guidance on assessment risks of LMOs to human health**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators

- **Guidance on assessment risks of LMOs to human health**

  *Extent of implementation*
  - Partially addressed

  *Preferred means*
  - Funding support

  *Major target groups*
  - Government regulators / administrators