Planning for long term sustainability of an open access global database

Scientific and Technical Information and Rural Development.
IAALD XIIIth World Congress, Montpellier, 26-29 April 2010
Elizabeth Dodsworth, Peter Scott and Hilda Diaz-Soltero

www.cabi.org
KNOWLEDGE FOR LIFE
Development Consortium Members....

- USDOC NOAA
- US Agency for International Development
- USDA Agricultural Research Service
- USDA Animal and Plant Health Inspection Service
- USDA Foreign Agricultural Service
- USDA Forest Service
Development Consortium Members....

• Australia, Group Membership (CRCNPB, GRDC, HAL, IACRC)
• Canadian Food Inspection Agency
• Canadian Forest Service
• Canadian International Development Agency
• FARA
• India, Ministry of Agriculture
• Malaysian Agricultural Research and Development Institute
• Mexico, National Health, Safety and Quality Service for Agri-Food
• Monsanto
• Netherlands Ministry of Agriculture, Nature and Food Quality
• Swiss Agency for Development and Cooperation
• Syngenta Crop Protection
• UK Department for Environment, Food and Rural Affairs (Defra)
• UK Department for International Development (DFID)
The Invasive Species Compendium will be a multi-media encyclopaedia of:

Known invasive species, of all taxa affecting all natural and managed ecosystems, except human pathogens. It will be global in coverage, and will concentrate on those species that have the greatest impacts on economies, livelihoods, human health, the environment and biodiversity.
Datasheet country records translated into centre-of-country points in KML format

Key
X Present, No Further Details
A Present, Widespread
B Present, Restricted Distribution
C Present, Few Occurrences
D Absent, Formerly Present
E Absent, Eradicated
F Absent, Intercepted Only
G Absent, Unconfirmed
I Absent, Invalid Record
K Absent, Unreliable Record

Red = Present, Green = Absent
Why does this species not occur in the south? Is temperature a factor?
Do differences in land use affect the range of an invasive species?
1. IDENTITY SECTION
   Notes on Taxonomy and Nomenclature
   Summary of Invasiveness

2. DISTRIBUTION SECTION
   Distribution – Further information
   History of Introduction/Spread
   Risk of introduction

3. BIOLOGY AND ECOLOGY SECTION
   Description
   Similarities to Other Species/Conditions
   Notes on Habitat
   Notes On Crops/Other Plants Affected
   Biology and Ecology
     Genetics
     Reproductive biology
     Physiology and phenology
     Nutrition
     Associations
     Environmental requirements
   Movement and Dispersal – Summary
     Natural dispersal (non-biotic)
     Vector transmission (biotic)
     Accidental introduction
     Intentional introduction
   Notes on Natural Enemies

4. IMPACT SECTION
   Impacts
     Economic impact
     Social impact
     Environmental impact
     Impact on habitats
     Impact on biodiversity

5. MANAGEMENT SECTION
   Productive Uses and Management
     Economic value
     Social benefit
     Environmental services
   Invasive Species management
     Detection and inspection methods
     Diagnosis
     Prevention
     SPS measures
     Early warning systems
     Rapid response
     Public awareness
     Eradication
     Containment/zoning
   Control
     Cultural control and sanitary measures
     Physical/mechanical control
     Movement control
     Biological control
     Chemical control
     Host resistance (incl. vaccination)
     IPM
     Control by utilization
     Monitoring and surveillance (incl. remote sensing)
     Mitigation
     Ecosystem restoration

6. FURTHER INFORMATION
   Gaps in Knowledge/Research Needs
   Case Studies
   References
Why focus on long term sustainability?

- Complex, multi-faceted information
- Comprehensiveness
- Minimised barriers to access the information
- Validation and verification of information
- Information reviewed and updated
- Technology platform regularly reviewed
Financials of development

US$3M

Financials of sustainability

US$350k.... per year
Issues for long term sustainability?

- Open access – who pays?
- Model for journal publishing – author pays not applicable
- User generated content? Quality control?
- Maintaining momentum when many conflicting priorities for funds
Conclusions and what next?

- The Invasive Species Compendium will be open access.
- Author and user will not pay.
- Governments, Development Agencies and Private Sector will fund sustainability?
- Model of a Sustainability Consortium is being tested.
- Fund raising programme accelerating to achieve 5-year sustainability plan.
Thank You

e.dodsworth@cabi.org