



### **Outline**

- · Background & conceptual approach
  - Dashboard development timeline
  - Pressure-state-response-benefit indicator framework
- Intended audiences and goals for Dashboard
- · Demonstration of initial Dashboard prototype
- · Indicator recruiting strategies
- Challenges and capacity needs: Lessons learned from regional stakeholders
- · Dashboard ongoing efforts and next steps





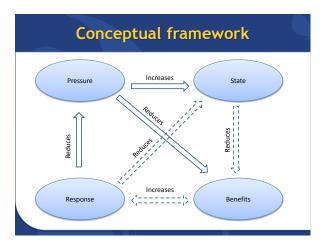
## ...but monitoring is difficult!

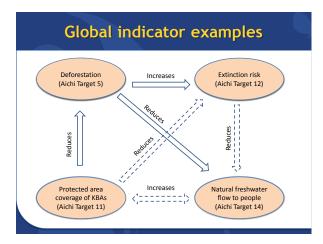
- · Barriers to data access and sharing
- · Lack of access to remotely sensed data
- Dispersed, inadequate, non-standard data
- Limited data reporting and visualization tools
- · Insufficient resources: human, funding, IT
- Inadequate coordination among institutions
- · Ineffectual national regulatory requirements

...Comprehensive and easily understood information on biodiversity trends is often not available at regional and national scales

## Dashboard development timeline

- Phase I: Proof of Concept, 2011 2012
  - Establish four baseline indicators in three regions
  - Access local data capacity through regional consultation workshops
- Phase II: Dynamic Prototype, 2013 2015
  - Develop the dashboard platform
  - Continue building local capacity
  - Analyze dashboard data to assess conservation actions





## Dashboard program goals

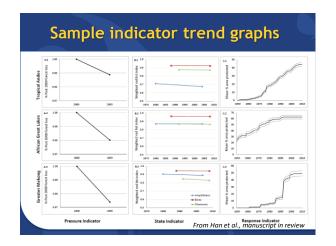
A clear, user-friendly visualization of biodiversity indicators that tracks biodiversity and conservation performance and facilitates iterative adaptive management

- Establish regional dashboard assessments for reporting on trends in biodiversity using a "pressure–state–response– benefits" indicator framework
- Develop infrastructure to allow data upload, maintenance, analysis, and reporting
- Catalyze sustainable national investment in the data flow needed to sustain assessments
- Inform adaptive management and investment by better placement of responses within the regional context of status, threats, and benefits to humanity

## Audiences: policy and practice

- Regional and global:
  - Support reporting to global conventions, e.g., the Convention on Biological Diversity
  - Inform regional- and global-scale investment by agencies and donors
- National:
  - Strengthen coordination and investment among national government agencies and civil society
- Local:
  - Provide counterfactuals for appropriate reporting of conservation results
  - Support adaptive management of conservation action and investment

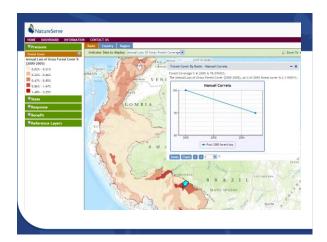
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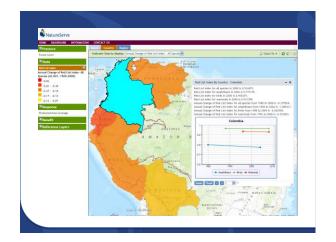


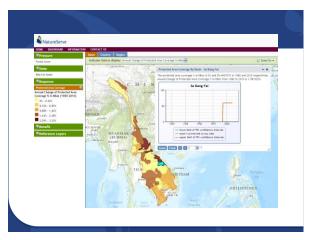


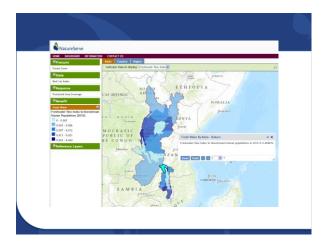
## **Prototype Demonstration**

http://dashboarddev.natureserve.org



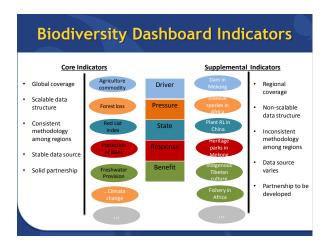






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# Data mining of National Reports and NBSAP reports Partner with existing intergovernmental data hosts to harvest ready country indicators & national reporting agencies ASEAN Centre for Biodiversity World Bank Open Data China CBD /Nanjing Institute of Environmental Science Vietnam National Biodiversity Database System Uganda Data Bank Peru National Environmental Information System Acquire indicators generated by foundation grantees Partner with existing local-scale monitoring initiatives , regional data centers, and NatureServe network

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**Outline** 

## **Consultation workshops**

- Entebbe, Uganda (Sep 2011)
  - 20 participants from 6 countries
- Phnom Penh, Cambodia (Oct 2011)
   70 participants from 5 countries
- Entebbe, Uganda (Nov 2011)
  - 39 participants from 10 countries
- Nairobi, Kenya (Jan 2012)
  - 27 participants from 3 countries
- Hanoi, Vietnam (Mar 2012)
  - 47 participants from 9 countries
- Lima, Peru (May 2012)
  - 27 participants from 4 countries
- Lima, Peru (August 2012)
  - 30 participants from 10 countries

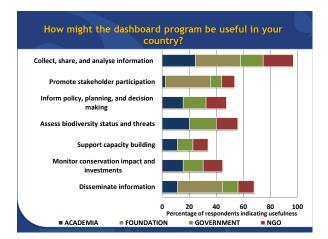


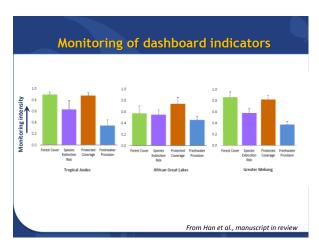
## Dashboard questionnaire

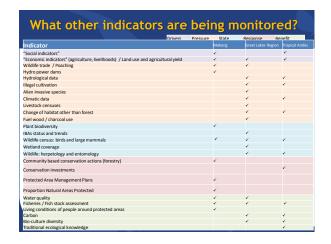
- 1. How might the dashboard program be useful in your country?
- 2. Are the four example indicators being monitored in your country? What other indicators are monitored?
- 3. Which of the spatial scales would be most useful in your country?
- 4. Do you have any other questions/comments about the dashboard program?













## Work plans for Phase II, 2013-15 Develop digital information architecture: Migrate dashboards from static proof of concept to dynamic digital environment Support a minimum of 4 datasets for data upload, periodic archiving, analysis, download, reporting, and accuracy assessment Analyze data to assess conservation actions: Extend Phase I results to watershed scale Incorporate a driver indicator Calibrate pressure and benefits indicators against high resolution data Advance scientific research on benefits and impact of conservation investments and actions Continue building monitoring capacity

### Communicate with audiences

### Story map

• Dashboard Map Journal for Mekong region

