



SERVIR GLOBAL

CONNECTING SPACE TO VILLAGE

International Conference on Climate Services 4

Practical Session: Ensuring evaluability of climate-related programs

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Please state your:

- Name and organization
- Position/role
- Interest in evaluation. Project to be evaluated?
- Expectations for this session





Objective: to test guidelines for ensuring evaluability of the climate change and variability programs/services.

- Learn from experience of SERVIR
- Develop theory of change for test cases
- Discuss improvements to the approach and usability with other projects
- Suggest a set of recommendations





- Participate fully and actively
- Share discussion time
- Respect views and opinions of others
- Ask questions
- Be flexible
- Turn off electronic devices
- Mind the objectives/product goals and the time available to produce them (in this session)
- Others?





- Monitoring: An ongoing process to measure the extent to which desired results are occurring. Allows for checking whether implementation is on track
- Evaluation: The systematic collection and analysis of information about the characteristics and outcomes of programs and projects





Although evaluation could be done in many different ways, here we address it in terms of the climate service's theory of change.

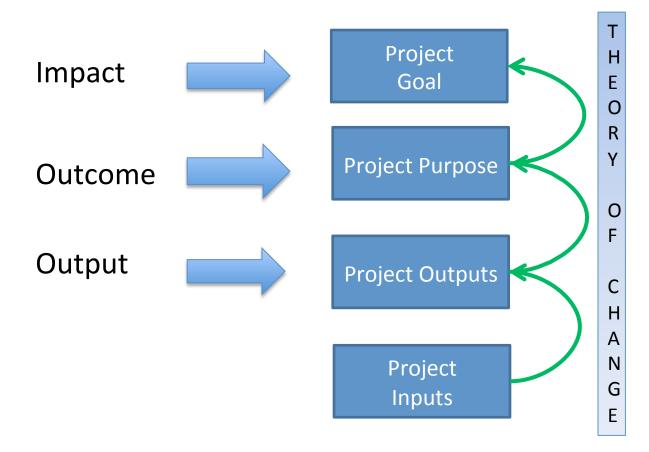
Why?



How do development agencies view a Project?



At the project level, USAID uses a matrix for displaying the key elements of a project. The first column in a Logical Framework contains the project's theory of change







Different Levels of Results



- Outputs are directly attributable to project activities, e.g. the CREST Streamflow Viewer
- Outcomes represent results to which a given project contributes but which are beyond its control. Outcomes are referred to as intermediate or sub-intermediate results at the program level (results framework)
- Impact refers to higher-level outcomes that are achievable more in the long-term, e.g. reduction of loss of life and property due to flood. Impact is referred to as the goal at the program level





From project to components



Global Climate Change and Variability Project

Develop tool Create model

Provide method and training

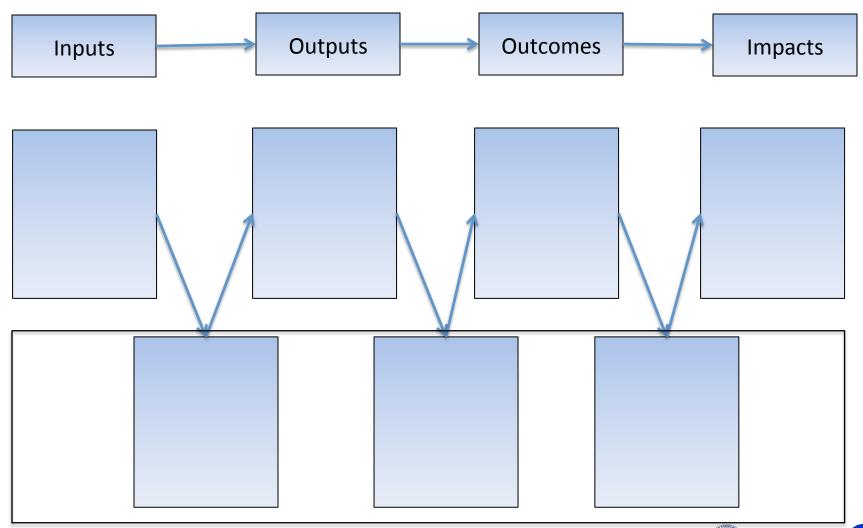
- Long-term
 horizon for both
 impacts and
 outcomes
- Hard to evaluate
 - Long-term
 horizon for both
 impacts
 - more immediate outcomes
 - Easier to evaluate





Exercise: Complete the Logical Framework











- Global joint development initiative of NASA and USAID
- strengthens the capacity of governments and stakeholders to incorporate Earth observations and geospatial technologies
 - respond to natural disasters
 - work to improve food security
 - safeguard human health
 - manage water and natural resources





Implemented by local HUBs:

- SERVIR Himalayan
- SERVIR East and South Africa
- SERVIR Mekong

Multiple activities/products

- More than 40 analytical products & tools
- Tools integrate information in real-time
- Alerts & information via Internet & mobile technolog



Land Cover Mapping for HKH region



- Developing a harmonized land cover database at national and regional levels over different time slices and analysis in order to help understanding the change processes and support informed decision-making.
- Outputs where declared by the project documentation:

Land cover classification of 1990, 2000 and 2010
Forest cover density maps
Wetland maps
Methodology for assessment of ecosystem services

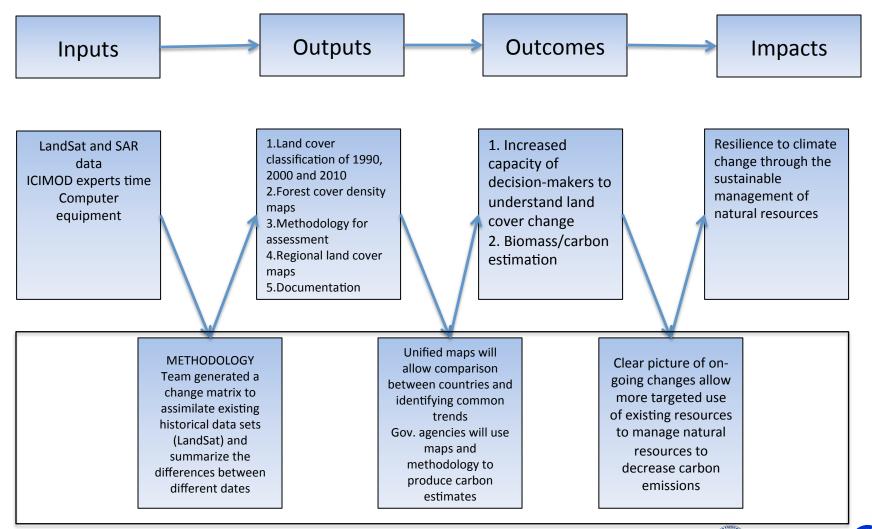
Regional land cover maps using MODIS land cover composite

Documentation on methods and products Multiple activities/products



Logical Framework for Land Cover Mapping









Select pilot activity/component

Develop Theory of Change for the activity

Present your Theory of Change

Discuss challenges

Set of recommendations



Latin American Observatory (OLE²)



Observatorio Latinoamericano de Eventos Extraordinarios

OLE²

- Regional partnership
- Since 2008
- Still growing
- No funding!!

Use of infrastructure already in existence

Linkages between providers and users







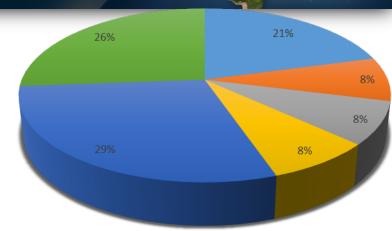


Latin American Observatory (OLE²)

SERVIR & GLOBAL

- Strong training component
- Transference of technology and knowledge
- Boundary institutions





Tailored, impact-oriented products: risk maps (hazard and vulnerability)!

Meteorology

Climate and Health Training and tools

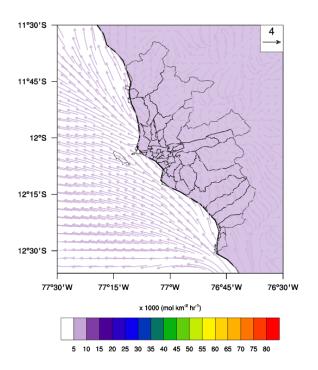




Pilot Project 1: Air Quality in Lima



Pronostico NOx para 0hr (SENAMHI - OLE²)



Goal:

Produce experimental shortterm forecasts of air quality for Lima, Peru

Outputs:

- Training
- Technology installed and running locally
- Air quality hindcasts
- Model validation
- Experimental forecasts (maps)

Figure 9. 4-km spatial resolution hindcast WRF-Chem model simulation outputs of NOx concentration fluxes in the geographic domain $12^{\circ}30'S - 11^{\circ}30'S$ and $76^{\circ}30'W - 77^{\circ}30'W$. Typical NOx concentration fluxes are expressed in thousand mol/km²/hr. The reference arrow represents wind speeds of 4 m/s.

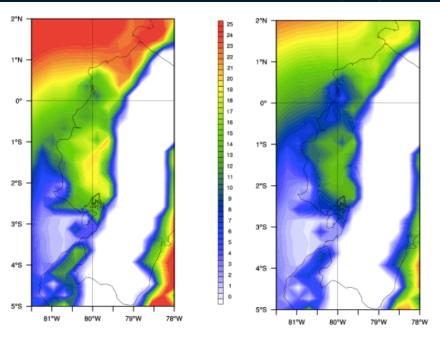






Pilot Project 2: Malaria Risk in Coastal Ecuador





Goal:

To explore the feasibility of establishing an Early Warning System for Malaria Risk in Coastal Ecuador

Figure 8. January *Plasmodium vivax* (left panel) and *P. falciparum* (right panel) basic reproductive rates on the Ecuadorian coast, simulated for the period 1996-2008 and for *Anopheles albimanus* mosquito species. (After Muñoz and Recalde [24]).

Outputs:

- Predictability study
- Malaria Risk maps (P. vivax and P. falciparum)
- Analysis of human intervention

- Training
- Climate and Health WG

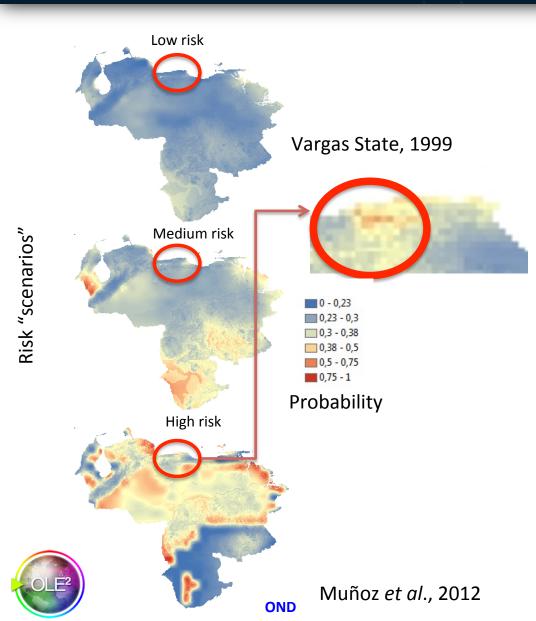






Pilot Project 3: Floods Early Warning System for Vargas State, Venezuela





Goal:

Predictability of Flood Risk in Vargas State, Venezuela

Outputs:

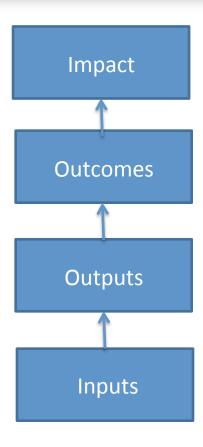
- Predictability study
- Hazard hindcast
- Vulnerability evaluation
- Flood risk maps (3 categories)
- Open source platform





Team Task 1: Find the Theory of Change Elements for Your Project/Activity





- Find at least 2 elements at each of the 4 levels
- Flipchart your responses. Select the person(s) in your group to report





Report on Theory of Change Elements



- Briefly describe your selected project/activity
- Present your theory of change by specifying the elements identified by your team at each of the 4 levels
- What helped your team develop your theory of change?
- What were some challenges?



