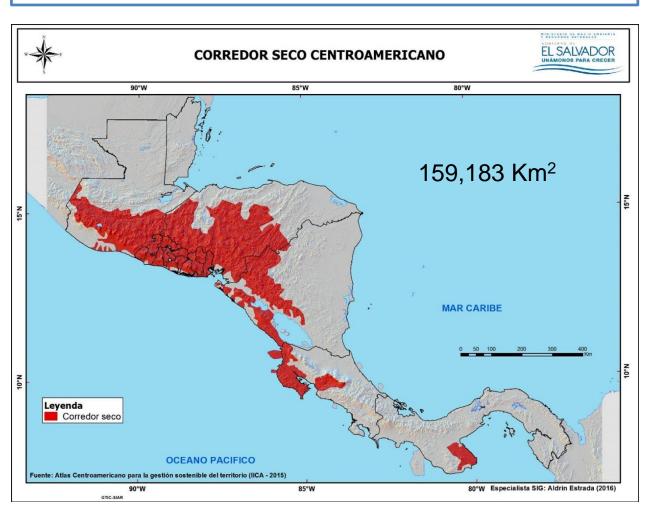




Coping with climate change in the Central American Dry Corridor

November, 17th, 2016

Central American Dry Corridor in brief



Ecorregión: Bosques Tropicales Secos de Centroamérica

DC concentrates 90% of the population, the "productive life" and the main cities

Predominates "Agricultura Familiar" - 70% of total production - with more than 2.1 million productive units

Population dependent on remittances - main income

Non-traditional crops and agro-industrial production linked to global markets (Economic Elites)

Promotion of public and private investment for the development of a Central American Logistic Corridor

Central American Dry Corridor in brief



Before eighties all storms were originated in the Atlantic Ocean, at present the storms also have formed in the Pacific Ocean

El Salvador passes from one extreme weather event per decade to 8 per decade

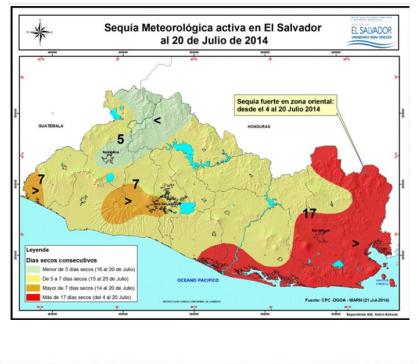
Geographical position is subject to extreme climate phenomena

Activities and livelihoods depend strongly on agriculture and climate

Inequality in the access and use of resources

Inadequate management of soil and water, with high degradation of ecosystems and pollution

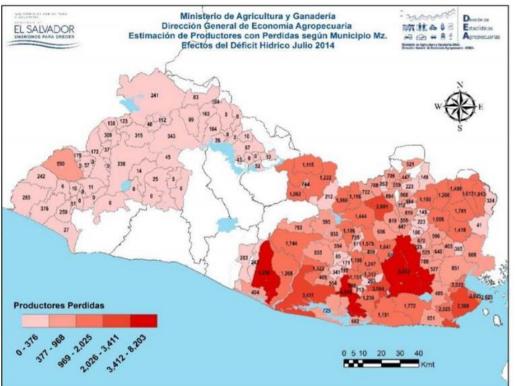
Unsustainable agricultural practices, high use of agrochemical use with negative impacts on health





Areas affected by Drought in El Salvador

104 Municipalities



2009-2015 Seven consecutive years of losses 3 floods and 4 droughts

Drought has effects on environmental, affecting ecosystem composition and functions, reducing ecosystem services provision, with negative impacts on availability of water resources, quality of solis and land productivity, economic activities and local welfare.

Drought directly affects agricultural production, livelihoods and health leads to food insecurity and poverty.

Climate Change will exacerbate the frequency, severity, and duration of drought events and associated impacts.





Drought

Loss of Biodiversity & Ecosystem services

Soil degradation

Water stress

Local social capital

Low Agricultural Productivity

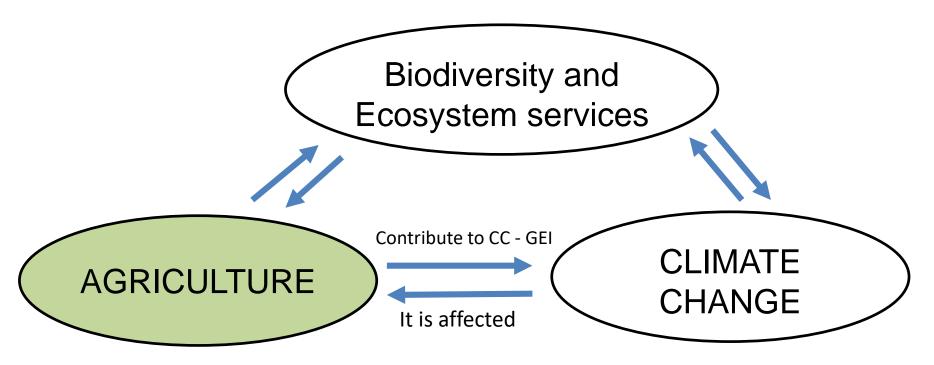
Reduced income for farmer; increased food prices; increased unemployment, migration and displacement

Food Insecurity, malnutrition and poverty





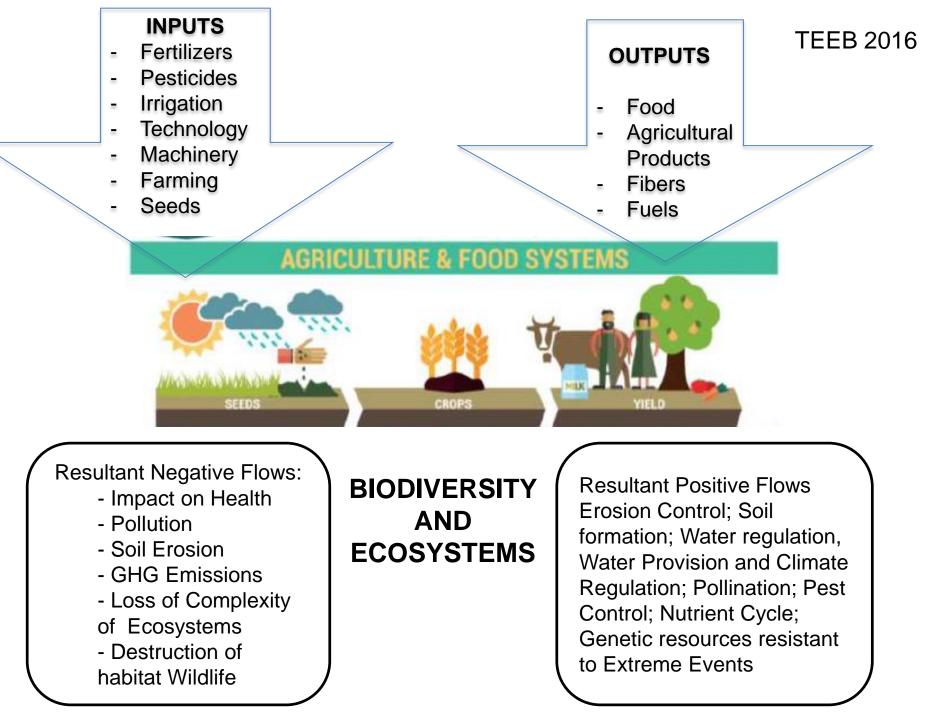
TOWARDS A NEW AGRICULTURE Sustainable Agriculture and Resilient to Climate Change



- 1. Sustainable agricultural practices
- 2. Work at the landscape level





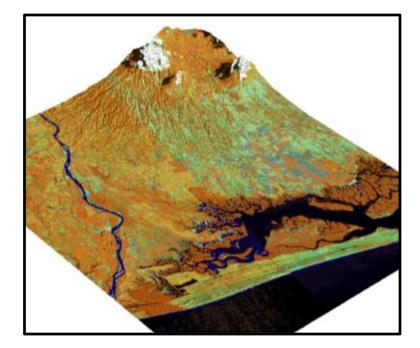


Working at landscape level



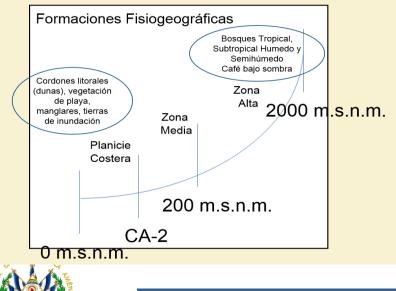








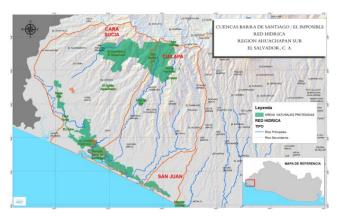


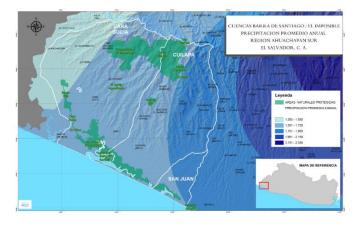
















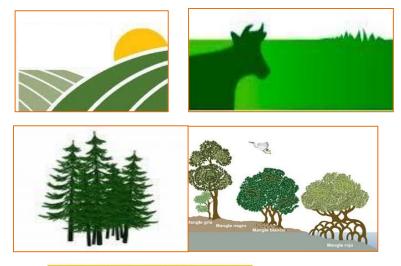
National Landscape and Ecosystem Restoration Program

Objective: Reverse enviromental degradation and reduce vulnerability to climate change

Restore highly degraded lands, through establishing a climate resilient and biodiversity-friendly agro-forestry system

Restore critical ecosystems through socially inclusive processes to recover key ecosystem services

Establish a more synergic integration of physical and natural infrastructure.





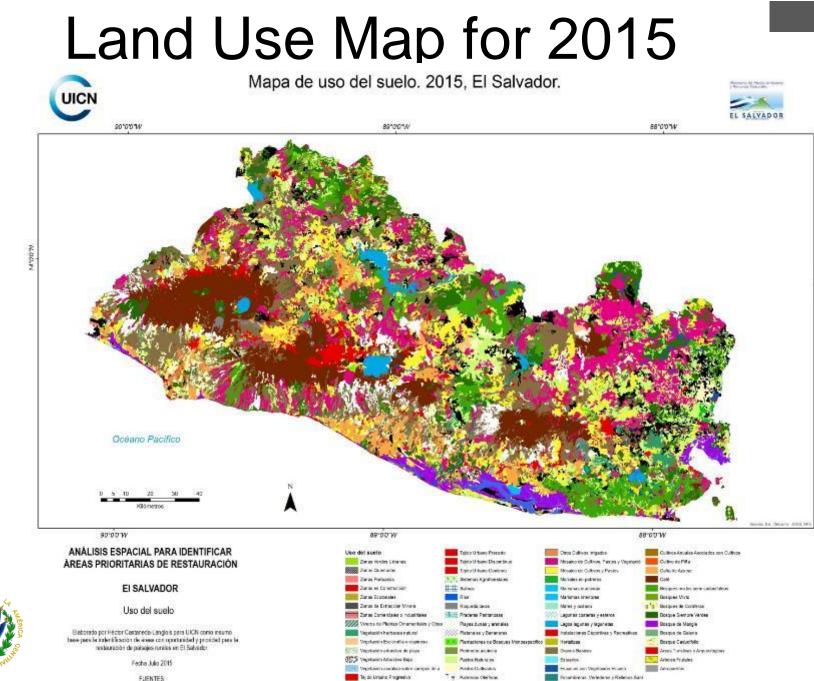
Zona Franca - Arenal Seco entre Municipios de San Martin e llopango

PREP: What will we achieve

- Resilient territories
- Functional Ecosystems and Agroecosystems delivering key environmental services to the territories
- More productive and resilient agricultural and livestock systems
- Increased water availability for different uses in the territory
- Risk reduction to landslides and floods
- Increased soil moisture and increased tolerance to drought







14'00'11

Surface water, groundwater and adaptation to drought

UICN

Soil Conservation and agriculture

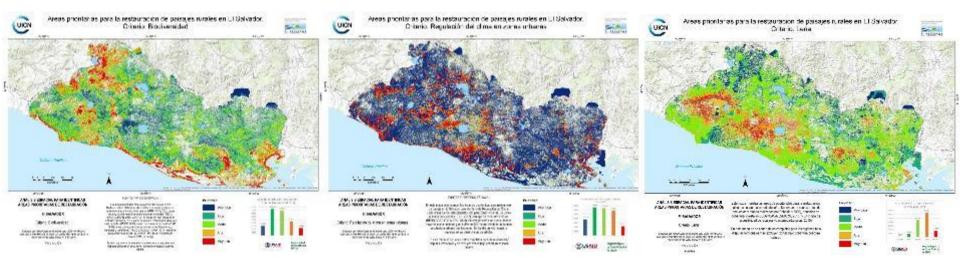
and storms Aveas prioritarias para la restauración de paisajes rurales en LI Salvador. Aveas prioritarias para la restauración de paisajes rurales en LI Salvador. Arcas prioritorias para la restauración de paísa es rurales en El Salvador. UICN UICN Criterio: Acaptación a la seguía y protesción de aguas superficiales y subterraneas 🗮 🌅 Criterio. Menejo y conservación de suelos y producción de el mentos Cólario, Adaptación e eventos estremos, protección contentes e intrideciones C HILLIAN a la la constante APRIL (WEDRE LINC.) tist. CONTRACTOR FRAME PROPERTY ACTIVITY AND ADDRESS OF NERVEN (PROBATIVAL) The second se and way, the second side interaction should be a straight of the second second straight of the second second nači, a na kraje stali na na je na na na kraje stali Sa se vranja je kraje su razve su kraje od koje WE OBTIVING DE RESTARNE interaction determined in the -later ---------and the second sec F GENERAL CO All and the set for any horse to be alara da cila conte parter spin-bas to show Control 1 Managers and and the process of decision of tal later is a talk terr 207 mprovidence WP-200, ek anne integrabell. 202 dell. 275, et al pri-And the state of the second second Alternative West and alternative west and alternative strength of the second strengt ot the second strength ot the second strengt ot the second str NAME OF THE ADDRESS O 2.2 and the second second

Biodiversity

Climate regulation by urban cities

Firewood

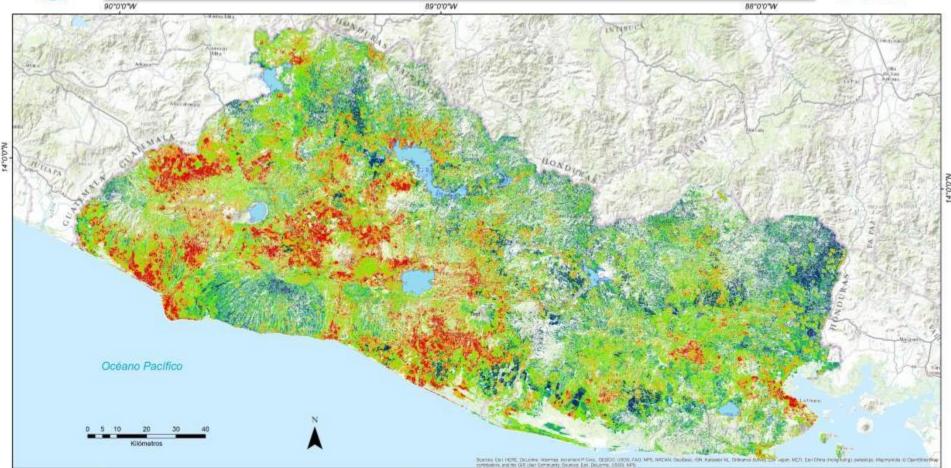
Adaptation: floods





Priority Areas for Landscapes Restoration in El Salvador. Consider All Criteria





ANÁLISIS ESPACIAL PARA IDENTIFICAR ÁREAS PRIORITARIAS DE RESTAURACIÓN

EI SALVADOR

Todos los criterios

Elaborado por Héctor Castaneda-Langtois para UICN como insumo base para la indentificación de áreas con oportunidad y prioridad para la restauración de paleajos rurales en El Salvador.

Fecha Julio 2015

89'0'0'W FUENTES Y PROCESO ESPACIAL

Este mapa identifica las oportunidades para a restauración de paisaje para El Salvador en cuanto los criterios establecidos durante el taller de consulta sobre el tema. Este mapa se generó seleccionando todas las zonas que presentaban una prioridad alta o muy alta para cualquiera de los criterios establecidos. Una vez seleccionadas se representa su relevancia en cinco categorias (I aV) que indican la nelevancia relativa de cada sitio.

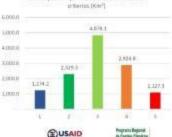
En este mapa no se tienen datos completos para las regiones bajo disputas territoriales y se excluyen zonas bajo cobertura boscosa natural.



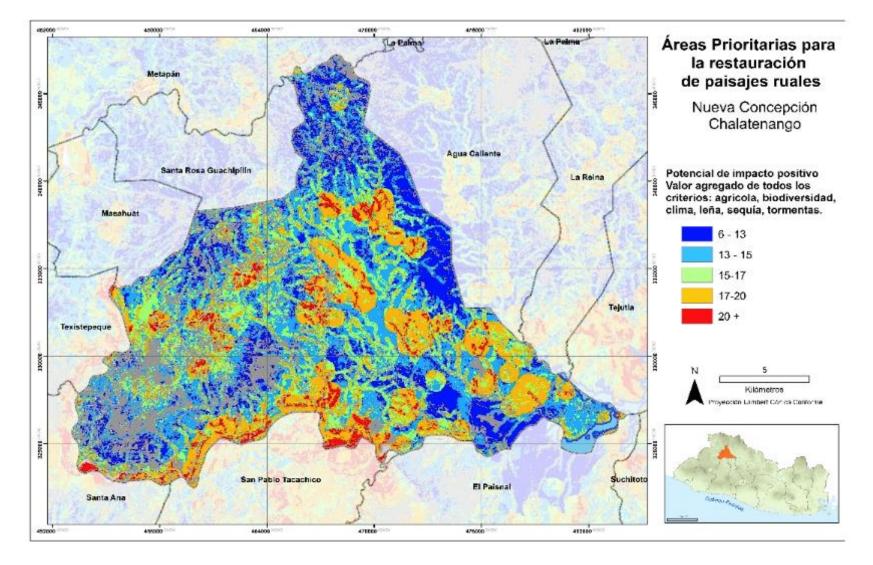




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Landscape Restoration Priorities at Municipal Level



Cabinet for Environmental Sustainability and Vulnerability







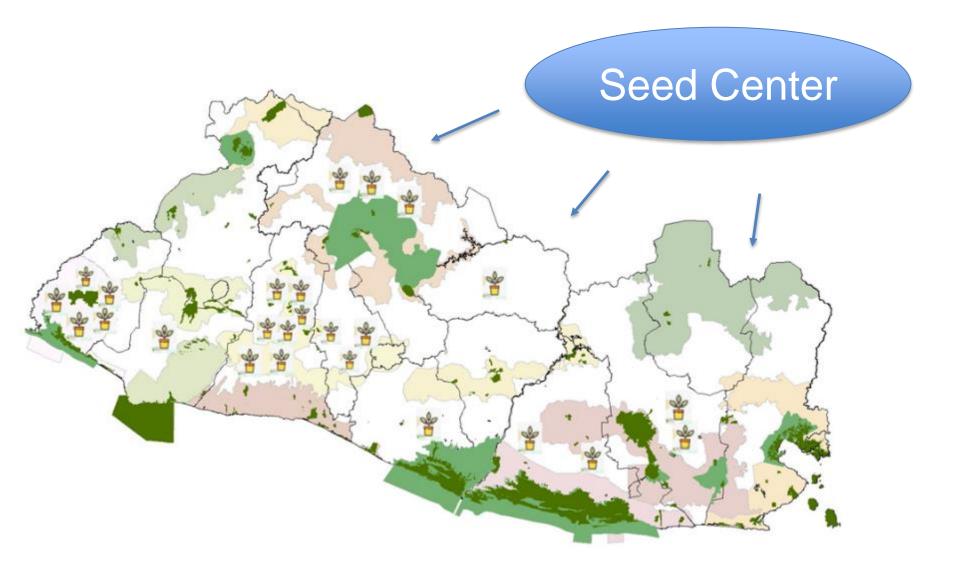
National Program Requirements for Success

- 1. Achieving political support at the Highest Level
- Leadership and Good Governance, with full participation in decision-making and monitoring system
- 3. Strategic alliances and logistics for implementation
- 4. Resource mobilization strategy (and design of an incentive mechanism
- Attack drivers of deforestation and forest degradation (forest fires; plagues and diseases; illegal logging; selective loging)

2016-2017 Biennial Plan: National Reforestation and Restoration Actions



Establishing a Plant Nursery Network to Support Restoration and Reforestation Activities



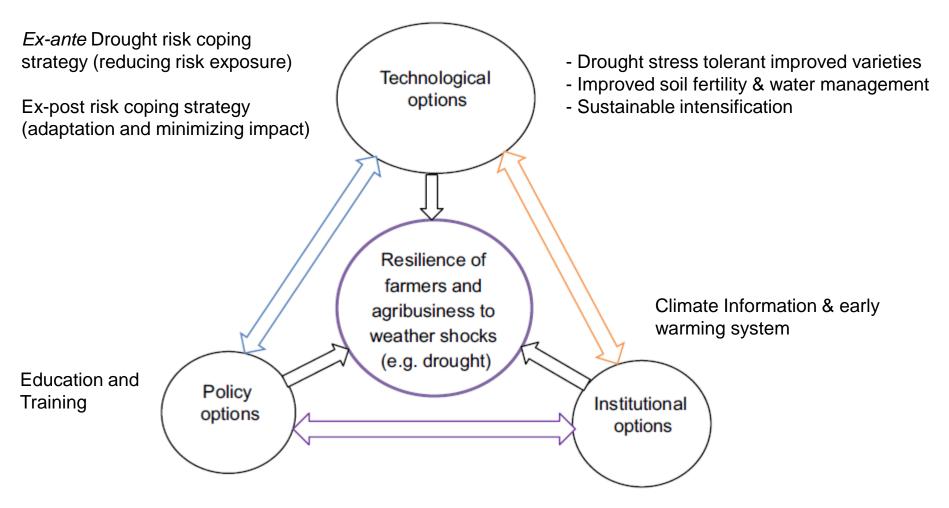


Fig. 4. Strategies for managing drought and enhancing resilience.

Thanks for your attention

Jorge Ernesto Quezada Diaz Ministry of Environment and Natural Resources El Salvador



