**50 Programs and Activities Developed as Solutions to Community Challenges in Community Based Adaptation, DRR, Forestry, and Water Management**

People from [154 countries](https://training.csd-i.org/student-countries-and-projects/) have participated in CSDi online field courses developing real projects on-the-ground. This has given us an unusual vantage of challenges faced by community members worldwide—and of potential solutions.

Working with students in the early stages of project design, course facilitators provide a consulting role in helping students to develop programs and activities designed to address their community's challenges. Each program is fine tuned to fit specific regional or community context. Because of universal challenges faced by communities in both adaptation and DRR, the majority of these programs have a strong connection to water use management, forest restoration and management, livelihoods, agriculture, and building community resilience.

We have selected a range of solutions from the field projects that we feel are classic: the best programs that students have used successfully on-the-ground. Many of the programs are highly specific to one student's project and will need to be adapted to fit yours. Many of the programs have a number of alternative activities—these are to give you options for customizing your own programs: edit the activities down as you see fit for your project

**Although many of the programs and activities below are cross-sectoral, they are loosely grouped into the following categories:**

* Water
* Agriculture
* Health, Hygiene and Nutrition
* Income Generation
* Disaster Risk Reduction and Preparedness
* Advocacy
* Forestry
* SIDS and Coastal Challenges
* Social Programs

**WATER**

**Water Use Management Plan** [Solution to underlying causes: Lack of Water Use Management Plan.]

[Activity 1]. Community-based workshop and survey with community members to identify their knowledge of water use.

[Activity 2]. Consultation with water management expert to develop a participatory process and training program

[Activity 3]. Facilitate the Organization of a community based Water Use Management Committee

[Activity 4]. Community workshop on participatory mapping of water resources and uses (consciousness raising)

[Activity 5]. Prioritize water springs, rivulets, ravines and man-made waterways for protection/restoration

[Activity 6]. Investigate water sourcing alternatives for the community

[Activity 7]. Committee participatory workshop on developing a community based Water Use Management Plan

[Activity 8]: Investigate and develop an installation and maintenance program for appropriate water sourcing alternatives

[Activity 9]: Data collection to identify scientific baseline data and facilitate the organization of a community based Monitoring and Evaluation Committee

**Water Use Management Plan** [Solution to underlying causes: Lack of Water Use Management Plan.]

[Activity 1]. Community-based workshop and survey with community members to identify their knowledge of water use and management.

[Activity 2]. Consultation with water use management expert to develop a participatory process and training program

[Activity 3]. Facilitate the Organization of a community based Water Use Management Committee

[Activity 4]. Community workshop on participatory mapping of water resources and uses, and degraded watersheds (consciousness raising)

[Activity 5]. Prioritize water springs, rivulets, ravines and man-made waterways for protection/restoration

[Activity 6]. Investigate and develop water sourcing alternatives for the community

[Activity 7]. Investigate underlying causes of flooding and potential adaptation/mitigation actions

[Activity 8]. Committee participatory workshop on developing a community-based and implementable Water Use Management Plan

**Land Use Management Plan** [Solution to underlying causes: Lack of Land Use Management Plan.]

[Activity 1]. Community-based workshop and survey with community members to identify their knowledge of land use.

[Activity 2]. Consultation with land use management expert to develop a participatory process and training program

[Activity 3]. Consciousness-raising workshop for community members on land degradation and collective land management

[Activity 4]. Facilitate the Organization of a community based Land Use Management Committee

[Activity 5]. Community workshop on participatory mapping of forest, water and land resources and uses—and degraded hotspots

[Activity 6]. Committee participatory workshop on developing a community-based and implementable Land Use Management Plan

[Activity 7]. Consciousness-raising workshop for community members on improving the environment around their houses.

**Community-level Water Harvesting Program** [Solution to underlying causes: Lack of knowledge of Water conservation.]

[Activity 1]. Community-based survey with community members to identify their knowledge of water harvesting.

[Activity 2]. Evaluate results of participatory mapping of water resources and select appropriate water harvesting techniques

[Activity 3]. Share these techniques with Water Management Committee for feedback

[Activity 4]. Community participatory workshop on water harvesting techniques

**Household Rain water harvesting and storage system program** [Solution to underlying causes: flooding causing pollution of drinking water]**:**

[Activity 1]. Awareness workshops on simple water purification system and follow-up

[Activity 2]. Awareness workshops and demonstrations on establishment of rain water harvesting and storage system in the village

[Activity 3]. Work with local designers and material providers to design appropriate rainwater harvesting systems

[Activity 4]. Develop a program to facilitate the provision of these rainwater harvesting systems

[Activity 5]. Provide training workshops and follow-up in the construction, installation, use and maintenance of rainwater harvesting systems

**AGRICULTURE**

**Improved water management and irrigation program** [Solution to underlying causes: Climate variability, unpredictable rainy and dry seasons]

[Activity 1]. Facilitate the organization of an irrigation management subcommittee of the land management committee.

[Activity 2]. Consultation with irrigation expert to develop a participatory process and training program

[Activity 3]. Community workshop on participatory mapping of water resources and uses

[Activity 4]. Work with committee members and irrigation expert to design and an appropriate system that can be managed by the community

[Activity 5]. Facilitate the formulation of a management plan for the newly-installed irrigation system.

[Activity 6]. Workshop in management and maintenance of the irrigation system with follow-up.

[Activity 7]. Establish a pilot community weather station.

**Farmer Soil Conservation and Water Conservation and Management Program** [Solution to underlying causes: Climate variability, extreme weather, and unpredictable rainy season have reduced crop harvests]**:**

[Activity 1]: Identify expert specialist/extension agent in soil, water and agriculture to design and facilitate participatory workshops

[Activity 2]. Participatory mapping and identification of local soil conditions, natural water sources and water challenges

[Activity 3]. Farmer workshop on soil restoration and conservation techniques

[Activity 4]. Farmer workshop on water harvesting, conservation and management techniques

**Farmer Extension Adaptation Program** [Solution to underlying causes: Unpredictable/late start to rainy season; mid-season drought/early end to rainy season have reduced crop harvests.]**:**

[Activity 1]: Identify expert specialist/extension agent in soil, water and agriculture to design and facilitate participatory workshops

[Activity 2]. Participatory mapping and identification of local crop and buffering challenges

[Activity 3]. Farmer workshop and follow-up on early maturing and/or drought resistant crops/varieties for adapting to climate variability

[Activity 4]. Farmer workshop and follow-up on buffering against the late arrival of rain and/or an early end to the rainy season

**Long Version:**

[Problem 2] Vulnerability to climate change impacts and lack of adaptive capacity

**Improved Agricultural Practices Program** [solution to underlying cause: Inappropriate agricultural practices - loss of traditional agricultural knowledge]:

[Activity 1]: Surveys and interviews to collect traditional knowledge on agriculture, changes in agricultural cycles, vulnerabilities and coping strategies

[Activity 2]: Identify expert specialist/extension agent in soil, water and agriculture to design and facilitate participatory workshops

[Activity 3]. Community workshop on participatory mapping of water and land resources and uses, agricultural challenges and vulnerabilities—and degraded hotspots

[Activity 4]. Extension agent visits most affected farmers to identify exact CC impacts to crop production and needs of farmers to adapt to the impacts (diseases, droughts and floods)

[Activity 5]: Develop plan that combines resilient and improved agricultural techniques with traditional knowledge for an overall improvement in productivity

[Activity 6]: Establish pilot plots demonstrating better cultivation practices

[Activity 7]: Farmer workshops on soil restoration and conservation techniques

[Activity 8]: Farmer workshops on water harvesting, conservation and management techniques

[Activity 9]. Workshops on crop diversification and drought resistant crops.

**Short Version:**

**Improved Agricultural Practices Program** [solution to underlying cause: Inappropriate agricultural practices - loss of traditional agricultural knowledge]:

[Activity 1]: Surveys and interviews to collect traditional knowledge on agriculture, changes in agricultural cycles, vulnerabilities and coping strategies

[Activity 2]: Identify expert specialist/extension agent in soil, water and agriculture to design and facilitate participatory workshops

[Activity 3]. Community workshop on participatory mapping of water and land resources and uses, agricultural challenges and vulnerabilities—and degraded hotspots

[Activity 4]: Develop plan that combines resilient and improved agricultural techniques with traditional knowledge for an overall improvement in productivity

[Activity 5]: Farmer workshops on soil restoration and conservation techniques

[Activity 6]: Farmer workshops on water harvesting, conservation and management techniques

**Conservation Agriculture/Agroforestry Programme** **1** [Solution to underlying causes: Unpredictable/late start to rainy season; mid-season drought/early end to rainy season have reduced crop harvests.]**:**

[Activity 1]: Surveys and interviews to collect traditional knowledge on agriculture, changes in agricultural cycles, vulnerabilities and coping strategies

[Activity 2]: Identify expert specialist/extension agent in soil, water conservation agriculture and agroforestry to design and facilitate participatory workshops

[Activity 3]. Introduction of community members to conservation agriculture/agroforestry concepts

[Activity 4]. Community workshop on participatory mapping of water and land resources and uses, agricultural challenges and vulnerabilities—and degraded hotspots

[Activity 5]. Farmer workshop and follow-up on conservation agricultural techniques

[Activity 6]. Farmer workshop and follow-up on agroforestry techniques

[Activity 7]. Establishment of village tree nursery

**Climate Smart Agricultural Practices Programme** **1** [Solution to underlying causes: Unpredictable/late start to rainy season; mid-season drought/early end to rainy season have reduced crop harvests.]**:**

[Activity 1]: Identify expert specialist/extension agent in soil, water and agriculture to design and facilitate participatory workshops

[Activity 2]. Participatory mapping and identification of local crop and buffering challenges

[Activity 3]. Farmer workshop and follow-up on early maturing and/or drought resistant crops/varieties for adapting to climate variability

[Activity 4]. Farmer workshop and follow-up on buffering against the late arrival of rain and/or an early end to the rainy season

**Climate Smart Agricultural Practices Programme 2** [solution to underlying cause: Inappropriate agricultural practices - loss of traditional agricultural knowledge]:

[Activity 1]: Surveys and interviews to collect traditional knowledge on agriculture, changes in agricultural cycles, vulnerabilities and coping strategies

[Activity 2]: Identify expert specialist/extension agent in soil, water and agriculture to design and facilitate participatory workshops

[Activity 3]. Community workshop on participatory mapping of water and land resources and uses, agricultural challenges and vulnerabilities—and degraded hotspots

[Activity 4]. Extension agent visits most affected farmers to identify exact CC impacts to crop production and needs of farmers to adapt to the impacts (diseases, droughts and floods)

[Activity 5]: Develop plan that combines resilient and improved agricultural techniques with traditional knowledge for an overall improvement in productivity

[Activity 6]. Design program to equitably provide agricultural tools/inputs (payments over time? Government support? Micro credit NGO? Village Bank Revolving Account?)

[Activity 7]: Establish pilot plots demonstrating better cultivation practices

[Activity 8]: Conduct Farmer workshops on soil restoration and conservation techniques

[Activity 9]: Conduct Farmer workshops on water harvesting, conservation and management techniques

[Activity 10]. Workshops on crop diversification and drought resistant crops.

**Climate Smart Agricultural Practices Programme 3: Farmer Field School** [Solution to underlying causes: Climate variability and change (delayed, unpredictable start and ending of the rainy season and unusual dry periods), and extreme weather events—and—Lack of support for and knowledge of sustainable agricultural practices]**:**

[Activity 1]: Surveys and interviews alongside activity 2 above to collect traditional knowledge on agriculture, changes in agricultural cycles, vulnerabilities and coping strategies

[Activity 2]. Consultation with an agricultural expert (extension agent?) to develop a participatory process and training programme including Farmer Field School (FFSs) Approach

[Activity 3]: Develop plan that combines resilient and improved agricultural techniques with traditional knowledge for an overall improvement in productivity

[Activity 4]: Establish FFS(s) where farmers will set-up pilot plots demonstrating conservation agriculture practices paired with their cultural practices

[Activity 5]. Design program to equitably provide agricultural tools/inputs (payments over time? Government support? Micro credit NGO? Village Bank Revolving Account?)

[Activity 6]: Conduct Farmer Field School leaders’ workshops on soil restoration and conservation techniques

[Activity 7]: Conduct Farmer Field School leaders’ workshops on water harvesting, conservation and management techniques

**Agricultural Energy Use Management Plan** [Solution to underlying causes: High energy costs.]

[Activity 1]. Community-based workshop and survey with community members to identify their knowledge of energy use.

[Activity 2]. Consultation with energy use management expert to develop a participatory process and training program

[Activity 3]. Consciousness-raising workshop for community members on opportunities for agricultural energy use reduction

[Activity 4]. Facilitate the Organization of a community based energy use Use Management Committee

[Activity 5]. Community workshop on participatory mapping of energy uses—and challenges

[Activity 6]. Committee participatory workshop on developing a community-based and implementable Energy Use Management Plan

**Land Use Management Plan for Nomadic Pastoralists** [Solution to underlying causes: Chronic malnutrition among livestock: Overall shortage of pasture, Climate variability (prolonged drought from five to ten months over a period of twenty years), and extreme weather events have reduced availability of pastures and water for the livestock]

[Activity 1]. Community-based workshop and survey with community members to identify their knowledge of land use.

[Activity 2]. Facilitate the Organization of a community based Land Use Management Committee for Nomadic Pastoralists

[Activity 3]. Community workshop on participatory mapping of pasture, water and land resources and uses (consciousness-raising)

[Activity 4]. Consultation with pastoral land use management expert to develop a participatory process and training program

[Activity 5]. Committee participatory workshop on developing a community based Land Use Management Plan for Nomadic Pastoralists

**Animal Husbandry Program** [Solution to underlying causes: Limited knowledge of the right numbers to keep, health, hygiene, nutrition and proper care for livestock.]

[Activity 1]: Community-based workshop and survey with community members to identify their knowledge of animal husbandry.

[Activity 2]:A training program with a view to increase the training level of pastoralists in improving their know-how and skills in herd size, health, hygiene, nutrition, and proper care

[Activity 3]. Consultation with pastoral animal husbandry expert to develop a participatory process and training program

[Activity 4]. Periodic training sessions and 12 months of follow-up activities with pastoralists

[Problem 2]. Lack of sources of income generation in the population

**Livestock Association and Production Increase Program** [Solution to underlying causes: Reduced cattle and agricultural production in the area]**:**

Activity 1: Facilitate the creation of a Livestock of Association.

Activity 2: Survey local and regional businesses to determine product/services they need on a routine basis.

Activity 3: Establish a market link and ask businesses for their help in vocational training programs to develop the products/services they need.

Activity 4: Using this input, launch workshops on improved livestock practices for these products and services.

**Agricultural Income Generation Program** [Solution to underlying causes: Lack of income generation opportunities]:

[Activity 1]. Facilitate the organization of a community based Farmer Association

[Activity 2]. Survey local/regional businesses or markets that buy and sell agricultural produce in order to determine products they need on a routine basis

[Activity 3]. Establish a market link and ask the businesses for their support in training programs and inputs for farmers to grow the products they need

[Activity 4]. Using this input, launch vocational training workshops on improved agricultural practices for these new crops and markets

**Agricultural Income Generation Program 2** [Solution to underlying causes: Lack of income generation opportunities]:

[Activity 1]. Facilitate the organization of a community based Farmer Association

[Activity 2]. Survey local/regional businesses or markets that buy and sell agricultural produce in order to determine products they need on a routine basis

[Activity 3]. Establish a market link and ask the businesses for their support in training programs and inputs for farmers to grow the products they need

[Activity 4]. Using this input, launch vocational training workshops on improved agricultural practices for these new crops and markets

[Activity 2] Facilitate the creation of community Information Centre

[Activity 5] Community workshop on year-round season cycle to determine right crops and livestock they need to produce/ before and after the floods or natural calamities

**Garden Produce Income Generation Program** [Solution to underlying causes: Lack of income generation opportunities]:

[Activity 1]. Facilitate the organization of a woman's garden produce Association

[Activity 2]. Survey local businesses/markets that buy and sell produce in order to determine products they need on a routine basis

[Activity 2]. Survey community members that buy produce in order to determine produce they need on a routine basis

[Activity 3]. Establish a market link and ask the businesses for their support in training programs and inputs gardeners to grow the products they need

[Activity 4]. Using this input, launch training workshops on improved gardening practices for these new vegetables

**HEALTH, HYGIENE AND NUTRITION**

**Project Outline: Problem list combined with potential interventions/activities/solutions that I chose**

[Problem 1]. Chronic diarrhea in small children

**Health and Hygiene Program** [Solution to underlying cause: little knowledge of health and hygiene]**:**

[Activity 1]. Consciousness raising health and hygiene workshop and follow-up

[Activity 2]. Hand washing workshop and follow-up

[Activity 3]. Point of use water purification system workshop and follow-up

[Activity 4]. Kitchen hygiene workshop and follow-up

**Health and Hygiene Program** [Solution to underlying cause: Unsanitary living conditions, Limited hygiene awareness, Limited access to safe/clean drinking water]**:**

[Activity 1]. Community-based (staff, volunteers and children) workshop and survey with community members to identify their knowledge health & hygiene issues

[Activity 2]. Consultation with health and hygiene expert to develop a participatory planning process

[Activity 3]. Facilitate the Organization of a community based health and hygiene Committee

[Activity 4]. Work with expert to develop a master health, hygiene and sanitation plan

[Activity 5]. Prioritize activities

[Activity 6]. Consciousness-raising health and hygiene workshop and follow-up

[Activity 7]. Training plan for volunteers

[Activity 8]. Two step hand washing workshop and follow-up: training workshop for volunteers followed by workshop for orphans

[Activity 9]. Two step point of use water purification system workshop and follow-up: training workshop for volunteers followed by workshop for orphans

[Activity 10]. Two step kitchen hygiene workshop and follow-up: training workshop for volunteers followed by workshop for orphans

[Activity 11]. Two step sanitation workshop and follow-up: training workshop for volunteers followed by workshop for orphans

[Problem 2]. Chronic under-nutrition of children

**Family garden and nutrition program** [Solution to underlying causes;Seasonal food shortages in the months preceding the harvest]

[Activity 1]. Conduct a food security, food diversity and home gardening survey

[Activity 2]. Workshop and follow-up in family nutrition and home garden planning for nutrition

[Activity 3]. Forming beds and planting seeds workshop and follow-up

**Alternatives:**

[Activity 4]. Workshop on establishment of fish ponds/aquaculture and follow up

[Activity 4]. Workshop on small livestock (poultry, rabbits, guinea pigs) and follow up

**Health and Community Awareness Program: Local Community Health Practitioners** [Solution to underlying cause: few health facilities and little knowledge of medical know how]:

[Activity 1]. Community-based workshop and survey with community members to identify their knowledge health issues and benefits of having a community health center (consciousness raising).

[Activity 3]. Partner with an NGO/governmental organization with experience in training community-based health workers to develop plan and training program

[Activity 2]. Facilitate the formation of a community-based health center management committee

[Activity 4]. Building/retrofitting health center and facilities

[Activity 5]. Training of local community health practitioners

[Activity 6]. Provide 12 months of follow-up, regular professional support, and regular supplies

**Community Health Center Program** [Solution to underlying cause: lack of knowledge of health, hygiene, and nutrition]**:**

[Activity 1]. Consciousness-raising workshop on the benefits of having a community health center

[Activity 2]. Facilitate the formation of a community-based health center management committee

[Activity 3]. Partner with an NGO/governmental organization with experience in training community-based health workers

[Activity 4]. Establish physical location of health Center

[Activity 5]. Solicit volunteers for receiving training and managing the health center

[Activity 6]. Establish fee structure for visitors to the health Center

**Community-Based Solid Waste Management Program** [Solution to cause: poor solid waste management polluting standing water

[Activity 1]. Facilitate the formation of a community-based solid waste management committee

[Activity 2]. Community-based mapping of flow of solid waste

[Activity 3]. Composting workshop

[Activity 4]. Why recycling workshop

[Activity 5]. Establish a recycling center in the community

[Activity 6]. Develop a program for community members to separate waste from recycling materials, and to sort recycling products

[Activity 7]. Advocacy campaign to authorities for assistance in improving solid waste management

[Activity 8]. Design of plan for solid waste management and plan for implementation

**SANITATION**

**Rainy Season Drainage and Sanitation Master Plan** [Solution to underlying causes: Inadequate drainage facilities. Climate change related increased intensity of rainfall]

[Activity 1]. Community-based workshop and survey with community members to identify their needs for drainage facilities.

[Activity 2]. Consultation with expert to develop a participatory planning process

[Activity 3]. Facilitate the Organization of a community based Drainage and Sanitation Management Committee

[Activity 4]. Facilitate the Organization of a community based Drainage Management Sub Committee

[Activity 5]. Community workshop on participatory mapping of rainy season drainage challenges

[Activity 6]. Work with expert to develop a master plan and a budget

[Activity 7]. Develop a proposal for presentation to donors

[Activity 8]. Work with the advocacy program committee to develop a presentation for soliciting NGO and government support

**Sanitation Master Plan** [Solution to underlying causes: Inadequate drainage facilities. Climate change related increased intensity of rainfall]

[Activity 1]. Community-based workshop and survey with community members to identify their needs for sanitation facilities.

[Activity 2]. Consultation with expert to develop a participatory planning process

[Activity 3]. Facilitate the Organization of a community based Sanitation Management Sub Committee

[Activity 4]. Community workshop on participatory mapping of sanitation challenges

[Activity 5]. Work with expert to develop a master plan and a budget

[Activity 6]. Develop a proposal for presentation to donors

[Activity 7]. Work with the advocacy program committee to develop a presentation for soliciting NGO and government support

**INCOME GENERATION**

[Problem 2]. Lack of livelihood opportunities.

**Alternative Income Generation Program** [solution to underlying cause: Lack of alternative income generation opportunities]:

[Activity 1]. Facilitate the organization of a community based Income Generation Committee

[Activity 2]. Survey local/regional businesses and markets in order to determine products/services they need on a routine basis

[Activity 3]. Establish a market link and ask the business for their support in vocational training programs to develop the products/services they need

[Activity 4]. Using this input, launch vocational training workshops on building local capacity for new products and services for new markets

**Alternative Income Generation Program** [solution to underlying cause: Lack of alternative income generation opportunities]:

[Activity 1]. Facilitate the organization of a community based Income Generation Committee

[Activity 2]. Survey local/regional businesses and markets in order to determine products/services they need on a routine basis

[Activity 3]. Survey skills, capacity, products that community members possess

[Activity 4]. Compare community skills, capacity and products to business survey to identify a potential match

[Activity 5]. Establish a market link and ask the business for their support in vocational training programs to develop the products/services they need

[Activity 6]. Using this input, launch vocational training workshops on building local capacity for new products and services for new markets

**Micro-Finance and Financial Literacy Program** (Solution to underlying cause: local money lenders lend money with extremely high interest,)

[Activity 1] Partner with a Micro credit NGO to Facilitate a Micro-Finance scheme in the community

[Activity 2] Provide Financial Literacy training

[Activity 3] Budgeting and savings training course

[Activity 4] Personal budget and saving plan creation

[Activity 5] Creation of self-help-savings groups and monitoring

**Financial Literacy Program for Multicultural Women Entrepreneurs** (Solution to underlying cause of Lack of access to funds and poor knowledge of financial basic skills)

[Activity 1]: Budgeting and savings training course

[Activity 2]: Personal budget and saving plan creation

[Activity 3]: Creation of self-help-savings groups and monitoring

**DISASTER RISK REDUCTION AND PREPAREDNESS**

[Problem 3]. Insufficient resources and capacities to prepare for and respond to the consequences of recurring floods

**Community-Based Disaster Preparedness and Risk Reduction Program** [solution to underlying cause: Increase in the frequency and severity of floods triggered by the climate change]:

[Activity 1]. Community-based workshop and survey with community members to identify their knowledge of risk, vulnerability, and traditional coping techniques.

[Activity 2]. Organization of a community Disaster Preparedness and Risk Reduction Committee

[Activity 3]. Training program for committee leaders

[Activity 4]. Community workshop on hazard data collection and risk assessment techniques such as participatory mapping, Participatory Vulnerability and Capacity Assessments (consciousness raising)

[Activity 5]. Community workshop on risk reduction, prevention of, preparedness for and responses to disasters.

[Activity 6]. Program on access to timely and reliable information and forecasts on the possible occurrence of natural calamities.

[Activity 7]. Disaster Preparedness and Risk Reduction Committee develops a risk reduction and disaster preparedness plan

**Community-Based Disaster Preparedness and Risk Reduction Program 2** [solution to underlying cause: extreme climate transformation has led to flooding during the rainy season destroying all the crops and livestock]:

[Activity 1] Community-based workshop and survey with community members to identify their knowledge of risk, vulnerability, and traditional coping techniques

[Activity 2] Organization of a community Disaster Preparedness and Risk Reduction Committee

[Activity 3] Training program for committee leaders *(Disaster Preparedness and Risk Reduction Committee develops a risk reduction and disaster preparedness plan)*

[Activity 4] Program on access to timely and reliable information and forecasts on the possible occurrence of natural calamities

[Activity 5] Community workshop on risk reduction, prevention of, preparedness for and responses to disasters

[Activity 6] Community workshops on participatory flood early warning and flood contingency planning

[Activity 7] Community workshop and training on life saving skills

[Activity 8] Community workshop and training on water hygiene

[Problem 3]. Flood

**Community-Based Flood Mitigation and Adaptation Program** [Solution to underlying causes: Climate variability, rise in sea level and floods]**:**

[Activity 1]. Community-based workshop and survey with community members to identify their knowledge of risk, vulnerability, and traditional coping techniques for floods.

[Activity 2]. Form Flood Preparedness and Risk Reduction Committee to coordinate activities during flood disaster

[Activity 3]. Training program for committee leaders

[Activity 4]. Community workshop on hazard data collection and risk assessments techniques such as participatory mapping, Participatory Vulnerability and Capacity Assessments (consciousness raising)

[Activity 5]. Community workshops on participatory flood early warning and flood contingency planning.

[Activity 6]. Program on access to timely and reliable information and forecasts on the possible occurrence of natural calamities

[Activity 7]. Community workshop and training on life saving skills

[Activity 8]. Community workshop and training on water hygiene

[Activity 9]. Flood Preparedness and Risk Reduction Committee develops a risk reduction and flood and preparedness plan

[Problem 1]. Villagers are suffering from the impact of flash floods and landslides

**Community-Based Flash flood and landslide prevention Program** [Solution to underlying cause: Deforestation]**:**

[Activity 1]. Use of bio-engineering methods for slope stabilization and minimization of runoff on degraded land prone to landslide and flash flood

[Activity 1]. Training

[Activity 1]. Field implementation and follow-up

**ADVOCACY**

**Advocacy Program for Government Flood Response Support** [solution to underlying cause: Lack of knowledge and support on the ways to claim for compensation for the damages]: [Activity 1]. Facilitate the organization of a community Advocacy Program committee

[Activity 2]. Consultation with advocacy expert to develop a participatory process and committee training program

[Activity 3]. Advocacy Program committee develops an advocacy plan in order to work together with the authorities on the provision of basic flood response support.

[Activity 4]. Advocacy program: Make an official claim to the local authorities asking to include on the budget the provision of basic flood response support

**Advocacy Program for Government/INGO Housing Support** [solution to underlying cause: Lack of knowledge and support on the ways to claim for compensation for the damages]:

[Activity 1]. Facilitate the organization of a community Advocacy Program committee

[Activity 2]. Consultation with advocacy expert to develop a participatory process and committee training program

[Activity 3]. Advocacy Program committee develops an advocacy plan in order to work together with the authorities on the provision resilient housing.

[Activity 4]. Advocacy program: Make an official claim to the Government/INGO authorities asking to include on the budget the provision of resilient housing

**Advocacy Program for Government/INGO Drainage and Sanitation Support** [solution to underlying cause: poor sanitation and inadequate drainage facilities]:

[Activity 1]. Facilitate the organization of a community Advocacy Program committee

[Activity 2]. Consultation with advocacy expert to develop a participatory process and committee training program

[Activity 3]. Advocacy Program committee develops an advocacy plan in order to work together with the authorities on the provision of sanitation and community drainage facilities.

[Activity 4]. Advocacy program: Make an official claim to the Government/INGO authorities asking to include on the budget the provision of sanitation and community drainage facilities

**Land Rights Program** [Solution to underlying causes: Lack of secure rights to land; Poor land policies and laws in place to protect the poor indigenous people]

[Activity 1]. Workshop on procedures of land acquisition

[Activity 2]. Awareness programs on importance of developing pro poor land laws and policies

[Activity 3]. Facilitate the organization of a community Advocacy Program committee

[Activity 4]. Advocacy Program committee develops an advocacy plan in order to work together with the authorities

[Activity 5]. Advocacy program: Make an official claim to the local authorities asking for assistance in Land Rights

**FORESTRY**

**Participatory Forest Management Program** [Solution to underlying causes: forest encroachment and poaching]**:**

[Activity 1]. Workshop & follow-up on consciousness raising about environmental services and forest stewardship

[Activity 2]. Facilitate the formation of a participatory forest management committee

[Activity 3]. Community workshop on participatory mapping of water resources and uses (consciousness raising)

[Activity 4]. Development of Participatory Forest Management Plan

[Activity 5]. Assessment of appropriate species for planting and locations for planting

[Activity 6]. Forming groups for establishment and management of tree nurseries, planting seeds workshop and follow-up

[Activity 7]. Workshops to plant trees in strategic areas

[Activity 8]. Planting trees along the riparian zones, catchment rehabilitation, protection and conservation

[Problem 2]. River erosion

**Participatory Community Afforestation Program** [Solution to underlying causes: cutting of trees and river sedimentation and sea level rise]**:**

[Activity 1]. Workshop and consciousness raising about environmental services, participatory community afforestation, and forest stewardship

[Activity 2]. Participatory forest management committee formation

[Activity 3]. Development of Participatory Forest Management Plan

[Activity 4]. Assessment of appropriate species for planting and locations for planting

[Activity 5]. Forming groups for establishment and management of tree nurseries, planting seeds workshop and follow-up

[Activity 6]. Planting trees along the riparian zones, catchment rehabilitation, protection and conservation

[Activity 7]. Riparian/riverbanks soil stabilization, dyke construction and rehabilitation

**Agroforestry Income Generation Program** [Solution to underlying causes: Declining soil fertility and lack of income generation opportunities]:

[Activity 1]. Introduction of community members to agroforestry concepts

[Activity 2]. Survey local/regional businesses that buy and sell agroforestry agricultural produce in order to determine products they need on a routine basis

[Activity 3]. Establish a market link and ask the businesses for their help in training programs for farmers to grow the products they need

[Activity 4]. Using this input, launch training workshops on improved agroforestry/agricultural practices for these new crops/products

[Activity 5]. Deliver seeds

[Activity 6]. Establishment of village tree nursery

[Problem 1]. High unemployment rate

**Non-Traditional Forest Products Skills and Microenterprise Program** [Solution to underlying cause: lack of Microenterprise skills and market opportunities]**:**

[Activity 1]. Introduction of community members to NTFP concepts

[Activity 2]. Facilitate the formation of a participatory community NTFP committee/association formation

[Activity 3]. Non-timber forest products and markets assessment

[Activity 4]. Association sales and marketing strategy

[Activity 5]. Participatory vocational skill needs analysis

[Activity 6]. Non-timber forest products skills development training program

[Activity 7]. Microenterprise skills development workshops

[Problem 2]. Reduction in vital environmental services of the forest in providing food, medicine and water catchment

**REDD+ with Forest Stewardship program** [Solution to underlying causes: forest encroachment and poaching]**:**

[Activity 1]. Workshop & follow-up on consciousness raising about environmental services and forest stewardship; forest buffer zone and wildlife protection

[Activity 2]. Participatory community forest stewardship committee formation

[Activity 3]. Assessment of appropriate monetization programs for environmental services - rewards and incentives scheme for forest stewardship and buffer zone workshop and follow-up

[Activity 4]. Committee plan for participating in monetization program

[Problem 3]. Low productivity of food and tree crops (cocoa and banana) in an agroforestry system

**Climate Smart Agroforestry, Farmer Soil and Water Conservation Program** [Solution to underlying causes: Climate variability, extreme weather, unpredictable rainy season and prolong drought have reduced crop harvests of cocoa and banana]**:**

[Activity 1]. Farmer workshop on soil restoration and conservation techniques in an agroforestry system

[Activity 2]. Farmer workshop on water conservation and management techniques in an agroforestry system

**COASTAL CHALLENGES**

[Problem 1]. Lack of a mangrove forest management plan

**Mangrove Forest Management Program** [Solution to underlying causes: lack of alternative energy source]:

[Activity 1]. Facilitate the organization of a community-based Forest Management Committee

[Activity 2]. Workshop on alternative energy sources and the importance of mangroves to the health of their fisheries

[Activity 3]. Mapping and Identifying degraded mangrove systems

[Activity 4]. Launching a localized program for restoration of degraded mangroves and mangrove afforestation

[Problem 1]. Increasingly stressed mangrove ecosystem

**Mangrove protection Program** [Solution to underlying causes: variable weather patterns and rising sea levels]**:**

[Activity 1]. Workshop on community involvement for mangrove’s restoration or reforestation

[Activity 2]. Facilitate the organization of the community-based mangrove forests management committee

[Activity 3]. Mangrove’s restoration (by a “put into action” workshop)

[Problem 1]. Increasing erosion of shoreline caused by increase wave actions

**Coastal Ecosystem based adaptation program** [Solution to underlying cause: wave impacts at high tide and rising sea level]

[Activity 1]. Workshop on values of the ecosystem as natural buffers and coastal processes

[Activity 2]. Land use management workshop and follow up

[Activity 3]. Workshop on habitat restoration technique - mangroves and artificial reefs

[Activity 4]. Coastal management planning workshop and follow up

**Habitat and Biodiversity Awareness Program** [Solution to negative impact on: illegal hunting and trade of manatee parts]:

[Activity 1]: Community based workshop and survey to identify their knowledge of the importance of habitat conservation and biodiversity to their livelihoods

[Activity 2]: Consciousness raising workshops about the importance of habitat conservation and biodiversity to their livelihoods

[Activity 3]. Discussion and community prioritization of developing a long-term plan as a follow-up project to this project

[Problem 1]. Diminishing amount of fish catch

**Sustainable Fishing Program [**Solution to underlying cause: indiscriminate mechanized fishing]**:**

[Activity 1]. Facilitate the organization of a community-based committee for improved fishing and disaster management

[Activity 2]. Advocacy/Awareness program among legislators against indiscriminate fishing and need for stringent regulations against mechanized fishing by big trawlers

[Activity 3]. Awareness raising and data collection workshop on the benefit of sustainable fishing with pilot group

[Activity 4]. Training workshops on specific techniques for increasing the fishing catch sustainably

[Problem 1]. Decline in income

**Strengthening local community managed rules related to net size, time and distance to be travelled in sea, type of fish to be caught)** [Solution to underlying cause: a reduction the fishermens’ fish catch]**:**

[Activity 1]: Focus Group Discussions with the traditional institutions of community to establish resource management rules

[Activity 2]. Participatory community fishing stock stewardship committee formation

[Activity 3]: Training for local fishing authorityon importance of surveillance for sustainable resource management

[Activity 4]: Production and distribution of an informational flyer.

**Improving fishermen capacity for commercial activities** [Solution to underlying cause: needing to work through a middleman to reach the local market]**:**

[Activity 1]. Participatory community fish sales and distribution committee/association formation

[Activity 2]. Fish products and markets assessment

[Activity 3]. Association sales and marketing strategy

[Activity 4]. Installation and training on maintenance of a community owned cold storage facility

[Problem 1]: Depletion of traditional fishing stock -- fish and octopus

**Fisheries management program** [Solution to underlying cause: Overfishing and destructive fishing]

[Activity 1] Facilitate the organization of a community-based fisheries management committee

[Activity 1] Launch an advocacy campaign with local authorities for the Designation of a marine protected area & an update to fishing area zoning

[Activity 2] Community based marine resource management training, including information on destructive and improved fishing practices

**SOCIAL PROGRAMS**

**Community Youth Activity Program** [solution to underlying cause: Youth lack access to recreational, educational (Ie. public libraries) and safe public spaces.]:

[Activity 1]. Community consciousness-raising meeting on the importance of activities for youth in the community

[Activity 2]. Facilitate the organization of a community youth activity committee or subcommittee

[Activity 3]. Youth town-hall meeting to identifying activities and a place for holding them.

[Activity 4]. Develop a plan for funding, organizing, and maintaining youth activities

**Responsible parenting program** [Solution to underlying cause: A lack of knowledge of responsible parenting]

[Activity 1]. Facilitate a consciousness-raising workshop with parents on the importance of responsible parenting

[Activity 2]. Meet with an expert on challenges with parenting to develop a participatory plan in developing parental responsibility within the community

[Activity 3]. Approach government social programs and request resources and assistance in developing a series of workshops to address these challenges

[Activity 4]. Lead a series of workshops on the different challenges that families find and provide appropriate and doable solutions

Visit [Online Learning](https://csd-i.org/online-learning/) to see a full listing of Sustainable, Impact-oriented, Community Based courses.

**Students project activities have used programs similar to the ones above to focus on over 270 different types of challenges:**

|  |  |
| --- | --- |
| Activities for the Elderly  Acutely Malnourished Children  Adaptation to Climate change  Adult Literacy  Advocacy Committee  Advocacy for Agricultural Inputs  Advocacy for the Elderly  Afforestation  Agricultural Adaptation  Agricultural Coping Strategies  Agricultural Extension and Inputs  Agricultural Income Generation  Agricultural Infrastructure  Agricultural Irrigation  Agricultural Market Linkages  Agricultural Pilot Plots  Agricultural Production  Agricultural Value Chains  Agricultural Vulnerabilities  Agriculture and Food Security  Agrobiodiversity  Agroecology  Agroecotourism  Agroforestry  Alternative Energy Sources  Alternative Income Generation  Alternative Livelihoods  Alternative Transportation  Animal Husbandry  Appropriate Agricultural Techniques  Aquaculture/Mariculture  Artificial Reefs  Artisanal Fisherman Licensing  Beekeeping  Bicycle Paths  Bio-engineering for Slope Stabilization  Business Skills Training  Capacity Building for Farmers  Capacity Building for Women  Cassava: Disease Resistant  Civic Leadership  Climate Change Awareness  Climate Resilience Water Management  Climate Smart Agriculture  Climate Smart Agroforestry  Coastal Ecosystem Adaptation  Coastal Management  Coffee Production  Cold Storage Fish Facility  Community Based Adaptation  Community Based DRR  Community Based Flood Adaptation  Community Based Flood Mitigation  Community Based Forestry  Community Development Committee  Community Health  Community Health Center  Community Health Practitioners  Community Management Committees  Community Organization  Community Youth Activities  Composting  Composting Toilets  Conflict Management Resolution  Conservation  Conservation Agriculture/Agroforestry  Conservation Tillage  Coral Reef Preservation  Crop Diversification  Deaf in Zambia  Deforestation  Degraded Watersheds Restoration  Direct Marketing Agricultural Products  Disaster Preparedness  Disaster Resistant School Construction  Disaster Risk Management  Drainage and Sanitation Support  Drought Mitigation  Drought Response Capacity Building  DRR Early Warning System  Drug Abuse  Ecotourism  Education  Educational Advocacy  Elderly Care Facilities  Emergency Preparedness  Employment Services  Empowering the Elderly  Empowerment of Women  Energy Saving Campaign  Entrepreneurialism  Environmental Sanitation  Environmental Services  Environmental Sustainability  Family Gardens and Nutrition  Family Planning  Farm Technique Improvement  Farmer Extension & Adaptation  Farmer Soil Conservation  Farmer to Farmer Schools  Farmer Training  Farmer Water Conservation  Farmer’s Association  Financial Literacy  Fisheries Management  Fishing Stock Stewardship  Flood Early Warning  Flood Mitigation  Flood Resilience Program  Flood Resilient Housing  Flood Response Support  Food and Nutrition  Food Preservation  Food Processing  Food Security  Forest Conservation  Forest Restoration  Forest Stewardship  Fundraising  Garden Fence Installation  Government Advocacy  Greenhouse Agriculture  Habitat Conservation  Habitat Restoration  Hand Washing  Hazard Mapping  Health  Health and Community Awareness  Health and Hygiene  Health and Traditional Knowledge  Health Center  Health, Hygiene and Sanitation | Home Gardens Household Energy Efficiency  Human Resource Development Council  Human rights  Hygiene and Sanitation Program  Improved Agricultural Practices  Improved Cook Stoves  Income Generation  Indoor Air Pollution  Integrated Pest Management  Irrigation  Irrigation Tank Repair  Job Creation and Capacity Building  Kitchen Hygiene  Land Degradation  Land Use Management Plan  Latrines  Leadership  Linking Artisans to Markets  Linking Farmers to Markets  Livestock Association  Livestock Protection/Weather Extremes  Local Community Health Practitioners  Malaria Prevention  Mangrove Restoration & Conservation  Marine Conservation Program  Marine Resource Management  Market Development  Market Linkages  Market Survey  Marketing and Networking Skills  Marketing of Crops  Marketing of Livestock  Micro-Credit  Micro-Enterprise  Micro-Finance  Micro-Hydro  Micro-Irrigation  Micro-Savings and Loan Program  Migration/Family Disintegration  Money Management  Monitoring & Evaluation  Mulching  Natural Resource Degradation  Natural Resource Management  Neighborhood Clean-up  Non-Timber Forest Products  Nutrition  Nutrition and Food Diversity  Organizational Strengthening  Orphans  Parental Involvement  Parental Responsibility  Participatory Afforestation  Participatory Forest Management  Participatory Hazard Mapping  Participatory Mapping  Participatory Mapping of Water Resources  Participatory Monitoring & Evaluation  Participatory Reforestation  Participatory Tree Planting  Pastoral Land Use Management  People with Disabilities  Permaculture Center  Piped in Water/Wells/Infrastructure  Point of Use Water Purification  Post Harvest Management  Preserving Traditional Culture  Preserving Traditional Knowledge  Project Management  Protection of Cultural Patrimony  Provide School Materials  Public Health  Rainforestation Farming  Rainwater Harvesting  Rainy Season Drainage Master Plan  Rainy Season Infrastructure Master Plan  Rainy Season Sanitation Master Plan  Range Management  Recycling  REDD+  Reforestation  Refuse Management  Relief Housing  Reproductive Health  Resilience to Extreme Weather Conditions  Resilience to Weather Variability  Restoration  Rice Farming  River Conservation  Safe Water  Saltwater Intrusion on Farmlands  Sanitation  Sanitation Master Plan  Savings Program  School Drop Outs  School DRR  Sedimentation Reduction Program  Sewerage System Maintenance and Repair  Sexual and Reproductive Rights  Small Animal Production  Social Assistance  Soil Conservation  Soil Restoration  Soil, Water & Natural Resource Conservation  Solar Ovens  Solid Waste  Spring Protection  Storm Water Management  Supply Chains  Surface Water Management  Surveillance for Sustainable Resource Management  Sustainable Livelihoods  Sustainable Tourism  Synergistic Agroforestry  Traditional Agricultural Knowledge  Transportation and Infrastructure Support  Tree Seedling Nurseries  Value Chains  Vocational Skills Training  Vulnerability and Capacity Analysis  WASH  Water and Sanitation  Water Conservation and Management  Water Harvesting  Water Hygiene and Purification  Water Infrastructure  Water Pump Installation and Maintenance  Water Purification  Water Supply Program  Water Use Management Plan  Young Adult Income Generation  Youth Programs & Mentoring |

The Center for Sustainable Development specializes in providing sound, evidence-based information, tools and training for humanitarian development professionals worldwide. CSDi is a 501(c)(3) nonprofit organization.

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