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Resilient agriculture in the Pacific

Climate is Changing: Food and Agriculture too

Introduction

- **Climate is changing**
 - rainfall becoming more unpredictable
 - Numbers of hot days increased and number of cold days decreased
 - Severe droughts increasing
 - Cyclone are stronger (category 5)
 - Rising sea water levels
- **Food systems changing**
 - Flowering and fruiting patterns of some of the fruit trees like breadfruit and mango- changing
 - Animal behaviour like chicken egg laying is changing- daylight lengths(?), temperature changes (?)
 - Fish spawning is also changing-timing/period

Building Agricultural Resilience

- Need Enhanced understanding of the role of natural resource base (water and soil) and biodiversity
- Understand Potential Exposures
 - Focus on extremes as well as mean changes
- Understand Sensitivities
 - Define critical thresholds & interactions
- Enhance Adaptive Capacity
 - Resilient systems: Climate-ready crops & production systems
- Improved treatment of uncertainty and risk in climate and adaptation decision-making and policy
 - Potential impacts are real but inherently uncertain

Agriculture and Climate Change



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- Agriculture has been and will continue to be significantly affected by changes in climate conditions
- Existing adaptation strategies can help offset many – but not all – effects over the next 20-30 years; effects are very likely to worsen significantly beyond then, especially if GHG emissions remain high
- Improving the resilience of agricultural systems to climate change requires protection of the natural resource base (water & soil) and biodiversity, and development of new policies, strategies, tools, and practices for adaptation

Resilient Agriculture Systems

What do we mean? A system with the :

1. capacity to respond to a disturbance or event to avoid or reduce damage to the existing system – **persistence**
2. capacity to recover from damaging events - **adaptive**
3. capacity to transform or change the existing system to one that is more resilient to disturbance - **transformative**



Climate Resilience Agriculture through CSA:



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- **Increasing productivity**
 - Soil health – C stock
 - ICM
 - Improved varieties and breeds
- **Improving resilience**
 - Adaptation and biodiversity
 - Diversification - varieties
 - Integration - agroforestry
- **Reducing GHG emissions**
 - Integration of agroforestry with



预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_2609

