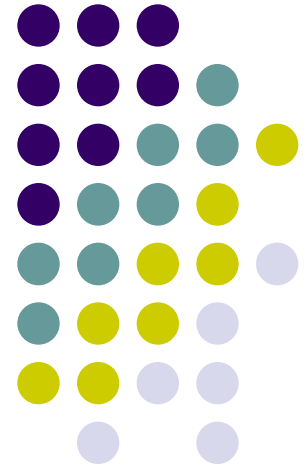
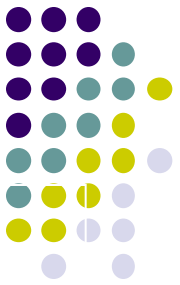


Climate Change, Trade Policy and Food Security: Conceptual Links

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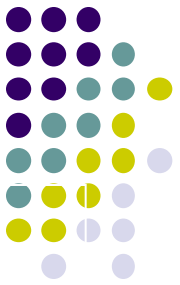


Introduction

- Food Security:
 - Concept: Food security is a multi-facet concept including demand and supply element; and nutritional and wellbeing element at the household, national and global levels
 - Therefore food security means adequate supplies of all elements of the concept, food security; while food insecurity suggests shortfall from the adequacy threshold
- Indicators
 - Availability of food
 - Access to food, and
 - Utilization of food
 - Stability

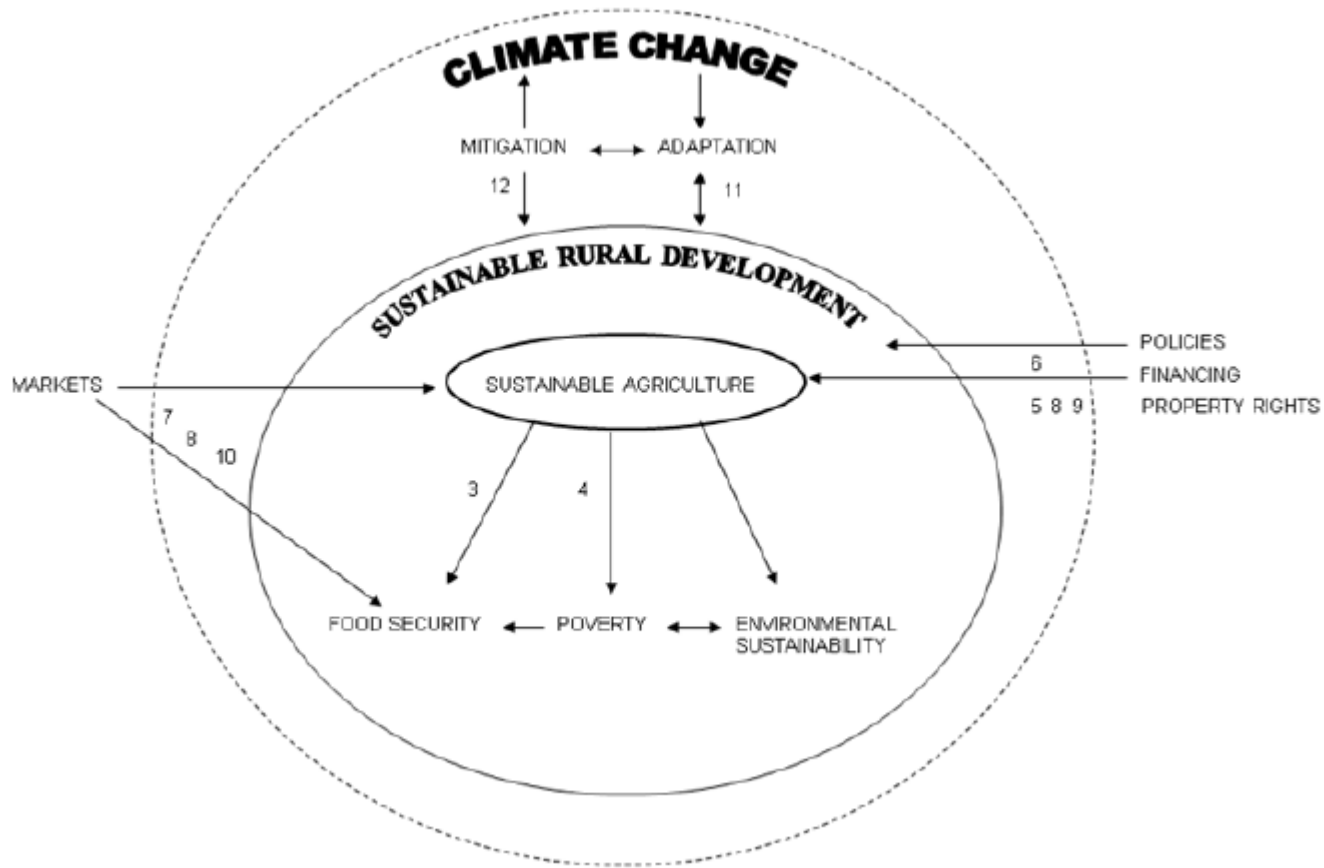
These elements are determined by food production, market and economy

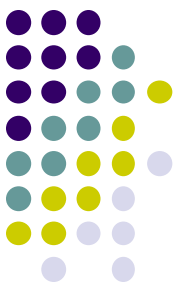
Introduction – contd.



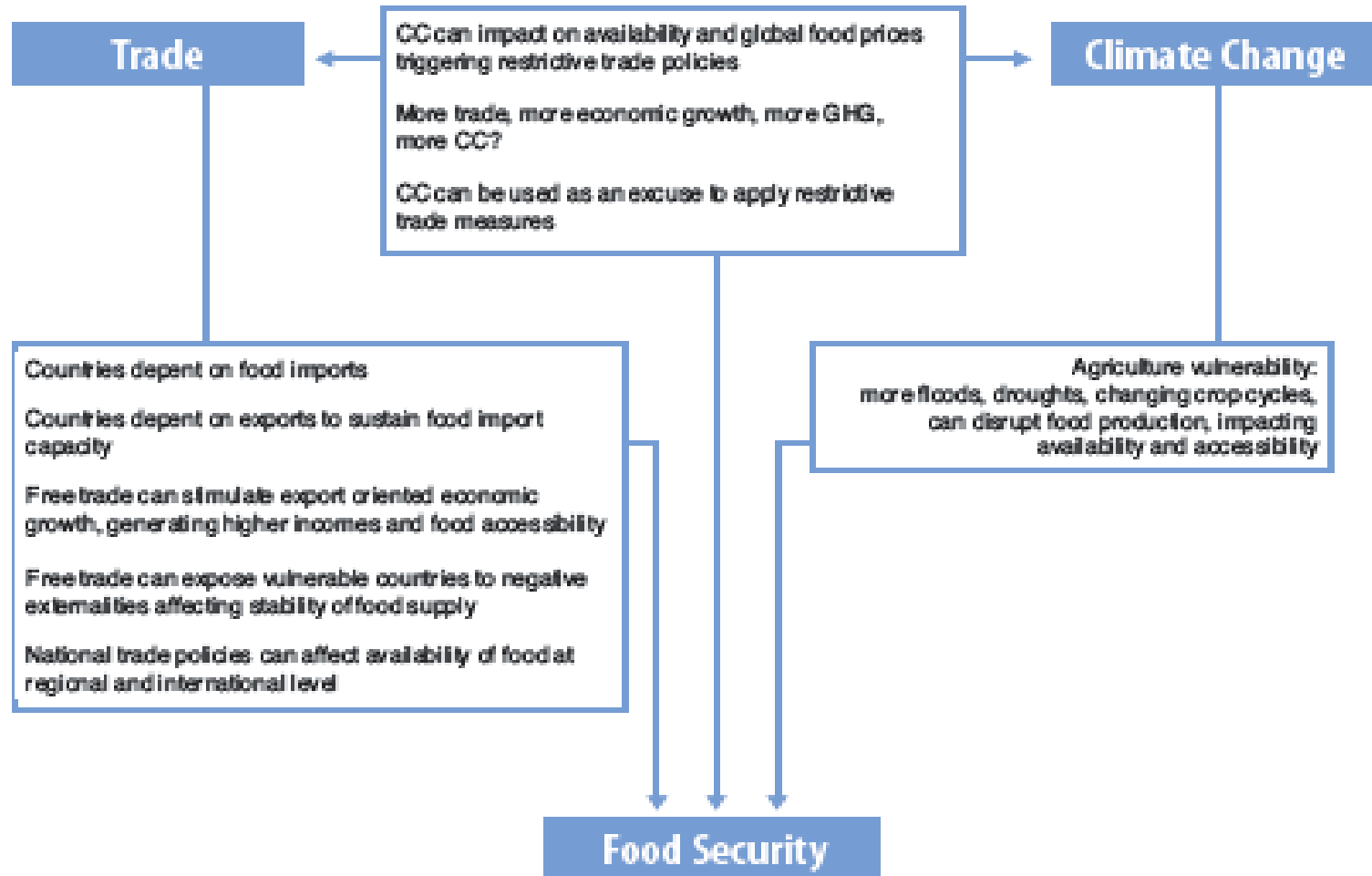
- Determinants
 - Food production: quantity and nutritional sufficiency determined by the environment, capital and knowledge including natural resource endowment and climatic condition; augmentation of labour through science, technology and innovation; and availability of capital
 - Market: domestic and cross-border markets for food determined by trade policies and rules; and domestic supports to agriculture or otherwise
 - Economic access: income and price determine by the national economic condition including macro-economy, poverty and inequality.
- There are at least four major manifestations of climate change
 - Temperature increase
 - Volatile changing climatic pattern
 - Rising sea level
 - Water: drought or/and flooding

- Conceptual Framework





CCH- TRD – FSC: Direction of Causality



Gains from Trade: theoretical insight and relevance



- Theory of comparative advantage: ricardian conventional and neo-classical trade theory
- Factor endowment: Heckscher-Ohlin (H-O) theorem
- Trade theory, protection vs liberalization
- Optimum tariff
- Fair-trade concern: human right dimension and hybrid model of trade relation; essence of trade negotiations

Methodological Issues



An undoubtedly complex scenario

- Relevant Methods
 - General Equilibrium Model
 - CGE – static or dynamic?
 - Relevant Partial Equilibrium Model
 - causality test to establish direction of effect
 - Multilevel analytical procedure

Expected Results and Concluding thoughts