
Agricultural Organization and Productivity: Introduction

- Agriculture occupies a central place in the economy of many less developed economies.
 - According to the UNDP, in 1996 agriculture employed
 - 60% of the labour force while generated only 20% of GDP of the LDCs;
 - 2% of the labour force while generated 2% of GDP of the DCs.
- The first fact implies that in the LDCs agriculture is relatively less productive compared to non-agriculture (employs 40% of labour, contributes 80% of GDP).
- The two facts together imply that agriculture in the less developed countries is also relatively less productive compared to agriculture in developed countries.
 - Yet it provides the livelihood of a majority of people in LDCs.
- One set of reasons is backward technology, infrastructure, “bad policies”, and so on.
- Another set of reasons is *missing markets*, *transactions costs*, and *inefficiencies* of agricultural organization.

Market Incompleteness and Informal Institutions

- Outline and try to understand the variety of **market imperfections** pervasive in the developing world and the nature and effectiveness of **informal institutions** that arise to fill the resulting gaps.
- The literature has witnessed a remarkable explosion in the last three decades drawing on advances in
 - game theory and
 - the economics of information.
- The main contribution of this literature is
 - explain the source of distinctive institutional characteristics of the *informal economy* in developing countries extensively documented by
 - empirical economists, sociologists and anthropologists.

(a) Fragmented labor and credit markets:

- large variations in wages and interest rates within a narrow geographic region, despite the presence of competition.

(b) Persistent lack of market clearing despite absence of any regulations that prevent prices from adjusting flexibly:

- unemployment; credit rationing.

(c) Pervasiveness of long-term contracts between

- borrowers and lenders, employers and employees, farmers and traders.

(d) Coexistence of diverse contractual forms:

- tenancy contracts, some involve fixed rents and others sharecropping.

(e) Unequal treatment of observationally similar workers or borrowers.

- Dual labor markets where some workers enter into long-term contracts while others carry out similar tasks on a casual basis at substantially lower wages.

(f) Interlinked transactions and exclusive dealings between specific agent pairs across multiple markets:

- bundling of credit with tenancy, employment or marketing contracts.

(g) Importance of asset ownership in access to credit, tenancy or employment markets.

- Limited access of the poor
 - to credit owing to lack of collateral
 - to tenancy owing to higher risks of rent default
 - to employment owing to malnutrition and absence of human capital.

- (h) Higher yields achieved by small farms *vis-a-vis* large farms, despite superior access of the latter to credit and technology.
- (i) Thinness of certain markets such as the market for land sales;
 - Causes persistence of tenancy and unequal land ownership distributions despite the superior productivity of small family farms.
- (j) Importance of informal cooperatives and kinship networks in determining access to essential productive inputs such as
 - credit, insurance, technological information, water and common lands.

- These phenomena are difficult to explain within the traditional neoclassical theory of a complete set of Arrow-Debreu markets.
 - Neither are most of them consistent with textbook versions of monopoly or oligopoly.
- Accordingly many traditional scholars have inferred the irrelevance of neoclassical economics to the context of developing countries.
 - ⇒ Need for alternative paradigms.
- The new **economics of information** does provide a cogent explanation of many of these institutional characteristics
 - within the context of an analytical framework grounded on the same methodology as the traditional approach.
 - The theoretical models also serve as a useful basis for empirical testing and measurement.