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## Agricultural development: an international perspective

Author(s) : [HAYAMI, Y.](#) ; [RUTTAN, V. W.](#)

Book : [Agricultural development: an international perspective](#). 1971 pp.xiv + 367

Abstract : A proposal is made for a new model of agricultural development which includes technological and institutional change as factors endogenous to the system. The importance of the public sector in developing agricultural technology is stressed. Success in agricultural growth, it is believed, is based on an ecologically and economically viable agricultural technology which involves a continuous use of available resources as well as a positive response by cultural, economic and social forces. The "induced development model" attempts to underline the whole

change as induced by farmers, agribusiness and administrators as well as supply and demand of factors and products. Put simply, technical change er new and more productive inputs may be induced primarily either (a) to save to save land. The non-agricultural sector is shown to play a vital role in this supplier of technical inputs which can be substituted for land and labour in a production. It is then hypothesized that the high agricultural productivity of countries is based on the development of an industrial sector capable of tra increased productivity to agriculture in the form of cheaper services, and th the state to generate a continuous sequence of technical innovations in far increases the demand for inputs supplied by industry. The critical element i effective market information, research, supply and markets for factors and concluded that effective interaction between these elements is a key to suc generation of technical change-necessary for agricultural development in a country. International time-series and cross-sectional comparisons of produ productivity and agricultural inputs are used to test the hypothesis. A furthe time-series data for USA and Japan where massive growth has been achiev agriculture despite different resource endowments, institutions and culture

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