

## REFORMS IN RURAL DEVELOPMENT AND THEIR INFLUENCE ON AGRICULTURAL EXTENSION OF UZBEKISTAN: EXPERIENCE AND CHALLENGES IN WATER MANAGEMENT

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Nowadays science applies agricultural innovations in a wide range all over the world; however, number of water users in innovations is in smaller amounts. This might happen to a number of factors, for example lack of adequate knowledge exchange system, nominal extension services at places, lack of well-defined policies, barriers in 'human' minds change, barriers at policy level. As for Uzbekistan, it could be said that practice of extension of innovations application and its diffusion in agricultural irrigation sector in Uzbekistan does not have much experience, however, before 1991 Uzbekistan was one of the Soviet Unions' republics and as it is known, the Soviet Union had high practice in innovations in different sectors, as well as in agriculture. Although, since independence, Uzbekistan has continued to experience innovations in agricultural sector independently, their diffusion is at a challenging shape. This article captures the policy issue, how Uzbekistan started to develop water management issues in its economic reforms, it describes a case research on application of innovative technique on a farm level and accordingly, it tries to propose the aspects that need to be involved in future reforms to make the current situation be better managed.

**Keywords:** agriculture, water, extension, innovations, policy

Water is the most distributed natural substance in our planet and the most important and critical resource which is unevenly distributed on the Earth. In the world, where number of inhabitants is expanding enormously the withdrawals from the water resources are exceeding. The surface area is constant but population is increasing. This indicates that from the same land we need to produce more crops. Basically, irrigation proved to contribute considerably to making land more productive, although especially large-scale irrigation often leads to disadvantageous impacts on the environment.

The FAO (2002) predicted that the irrigated area in developing countries needs to be expanded from 202 million ha in 1999 to 242 million ha in 2030 to meet the increasing food demand. The demand for irrigation will in particular increase in arid and semi-arid regions where more than 90% of agriculture depends on irrigation due to predictions on the impact of climate change that will reduce irrigation water availability. As for Uzbekistan, the World Bank (2010) forecasts, that climate change for Uzbekistan from 2005 to 2050 indicates that:

1. the water demand will increase from 59 km<sup>3</sup> to 62–63 km<sup>3</sup>,
2. the supply will decrease from 57 km<sup>3</sup> to 52–54 km<sup>3</sup>,
3. the present water deficit will increase by over 500% from about 2 km<sup>3</sup> to 11–13 km<sup>3</sup>.

Moreover, Toderich et al. (2009) reported that approximately 20 000 ha of irrigated land in Uzbekistan are lost due to salinity and invariably abandoned every year.

Considering that the most applied irrigation technique in Uzbekistan is furrow irrigation, this technique increases the water management problem by applying about double water amount than is the actual need for plants. For example, Mohan et al. (2012) evaluated the performance of furrow irrigation in Fergana valley and the results showed that the application efficiency of the irrigation events in 2009 was 48% with an average runoff loss of 39% from fields. Moreover, the problem is becoming bigger taking into account that irrigation norms between farmers are hardly considered and water price is hardly valued.

The high population growth rate, degradation of agricultural lands and scarcity of fresh water have raised doubt about the future suitability of the dominant agricultural practices for irrigated drylands. In face of the environmental and economic challenges, there is an urgent need to reconsider the existing classical agricultural systems and to adapt agricultural systems that can help to prevent soil quality, soil fertility degradation, water management efficiency and hence increase productivity. In most countries, this issue is being solved by applying innovative techniques, however, innovative techniques are used rather in smaller amounts in comparison to what people are used to, under conventional approach. This might happen to a number of factors e.g. lack of adequate knowledge exchange system, nominal extension services at places (Levidov et al., 2014), lack of well-defined policies (Iglesias and Garrote 2015), barriers in 'human' minds change, barriers at policy level.

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# Rural And Agricultural Development In Uzbekistan

**Sandjar Djalalov, Suresh Chandra Babu**



## **Rural And Agricultural Development In Uzbekistan:**

**Rural and Agricultural Development in Uzbekistan** Peter Craumer,1995 A study of the economic social and environmental factors in contemporary Uzbekistan s rural development and their effects on the economy and society of the country as a whole Special attention is given to problems of water resources and irrigation agricultural problems and reforms population growth and migration and food supply all in the context of Uzbekistan s diverse regions **Integrated land use management systems in Uzbekistan - Part 2** Food and Agriculture Organization of the United Nations,2024-02-22 The aim of this report is to describe and analyse the economic and business aspects of agroforestry implementation in Uzbekistan This information is presented with the goal of enabling the development of detailed and specific suggestions for land use contract development First the report presents an in depth literature review of studies that have examined the economic structure and viability of agroforestry and other agricultural practices in the region Specifically this review focuses on developing a nuanced understanding of relevant business structures economic relationships between various land users and local forestry officials and existing co management agreements and contracts that affect the economic viability of land use activities Current employment structure and land tenure conditions are also examined Second the report presents the findings of several field visits to pilot sites in Uzbekistan These field trips were organized by the Food and Agriculture Organization of the United Nations and carried out by national experts Sirojiddin Eshmatov and Sobir Azizov Based on interviews and visits to farmers the study team collected information about the current economic situation of smallholder farmers and other land users These visits aimed in part to understand the specific economic and business considerations faced by agroforestry practitioners or interested land users in the pilot sites Together the two components form the empirical basis for a set of specific recommendations for land users and policymakers interested in developing agroforestry as an economically viable activity in the context of agriculture in Uzbekistan Land Reform in the Former Soviet Union and Eastern Europe Stephen K. Wegren,2003-10-04 Land reform is a key factor in determining the political economic and social future of the transitional states of the former Soviet Union and Eastern Europe This book represents the first major study in this area Utilizing extensive field work unpublished materials statistical data and interviews with land reform officials the contributors explore the key issues **Poverty, Income Distribution and Well-Being in Asia During the Transition** Lu Aiguo,Manuel F. Montes,2002-05-22 The Asian road to the market has generally been seen as a model of success and the object of widespread admiration This volume evaluates the actual experience and debunks some of the most widespread myths It does so by identifying the link between alternative transition models public policies and household responses on the one hand and key welfare changes on the other Even in countries experiencing sustained growth there have been unmistakable signs of deep social strain **New Uzbekistan** Bakhrom Mirkasimov,Richard Pomfret,2024-05-02 This book reviews and analyses the comprehensive socioeconomic reforms undertaken in Uzbekistan since 2016 by the government led

by President Shavkat Mirziyoyev The volume takes the reader through the different sectors of the economy and the effects of reforms on the country's citizens The various developments are detailed examining the gains and the gaps in terms of policy and implementation Using the broad tools of economics and in particular of development economics the authors present evidence to drive their conclusions and recommendations and also draw on comparative cases from policy and practice to illustrate alternative approaches and results from measures in other transition countries Implementing Uzbekistan's ambitious economic transformation into a market economy is a challenging process that takes time This book provides the first systematic and comprehensive discussion of the government's reform areas including the macroeconomic fundamentals business and investment climate the energy transport health education social protection financial banking and agriculture sectors regional trade tourism and transport connectivity reform of state-owned enterprises as well as public services citizen engagement and gender equality

*Geography in America at the Dawn of the 21st Century* Gary L. Gaile, Cort J. Willmott, 2005 *Geography in America at the Dawn of the 21st Century* surveys American geographers' current research in their specialty areas and tracks trends and innovations in the many subfields of geography As such it is both a state of the discipline assessment and a topical reference It includes an introduction by the editors and 47 chapters each on a specific specialty The authors of each chapter were chosen by their specialty group of the American Association of Geographers AAG Based on a process of review and revision the chapters in this volume have become truly representative of the recent scholarship of American geographers While it focuses on work since 1990 it additionally includes related prior work and work by non-American geographers The initial *Geography in America* was published in 1989 and has become a benchmark reference of American geographical research during the 1980s This latest volume is completely new and features a preface written by the eminent geographer Gilbert White

*The Uzbek Dream* Pasquale De Marco, 2025-04-23 *The Uzbek Dream* is a comprehensive and engaging guide to the history culture and natural beauty of Uzbekistan This book takes you on a journey through the heart of Central Asia exploring the country's rich past diverse present and promising future From the ancient Silk Road to the modern-day challenges of nation building Uzbekistan has a captivating story to tell This book delves into the origins of Uzbek culture tracing its roots back to ancient civilizations and the Silk Road It explores the beauty and diversity of the Uzbek language and literature and showcases the country's vibrant art and architecture This book also provides a thorough overview of Uzbekistan's history from the Mongol invasions to the Soviet era and beyond It examines the challenges and successes of Uzbekistan's transition to independence and its efforts to build a modern prosperous nation In addition this book delves into the heart of Uzbek society and culture exploring the family structure education system and the role of women in society It discovers the country's rich culinary traditions its diverse religious landscape and its commitment to environmental preservation Finally this book explores Uzbekistan's tourism potential highlighting its major tourist destinations and the importance of sustainable tourism Whether you are a seasoned traveler a history buff or simply someone

who wants to learn more about this fascinating country this book will offer you a deeper understanding and appreciation for Uzbekistan With its captivating narrative stunning visuals and insightful analysis The Uzbek Dream is the definitive guide to Uzbekistan a country that is sure to captivate and inspire If you like this book write a review on google books      **Central Asia** Reuel R. Hanks,2005-07-26 An informative guide to the recently emerged states of Uzbekistan Kazakhstan and Kyrgyzstan providing coverage of a broad range of political economic and cultural issues As conflicts continue in Iraq and political tensions mount in China the world is beginning to take notice of Central Asia as the crossroads between the Middle East Asia and Europe Central Asia A Global Studies Handbook explores the three central states of the region Uzbekistan Kazakhstan and Kyrgyzstan and provides insight to their past present and future The first of its kind this reference work covers a wide range of topics on Central Asia as a whole From the geography history and economics to politics education and religion students and teachers will find this an informative and comprehensive research source while business people and travelers will discover a fascinating look into the region s society From the times of Alexander through globalization and the politicization of Islam the mysteries of Central Asia are finally brought to light      **Land and Power in Khorezm** Tommaso Trevisani,2010 This is the first detailed grass roots account of Uzbekistan s protracted decollectivisation process It explores continuity and the change in relations between rural communities agricultural producers and the local state authorities in the cotton growing region of Khorezm Built up during the Soviet period the cotton sector has maintained its importance for the state and for rural communities in the years following independence although economic parameters and social conditions have worsened significantly Uzbekistan s agricultural reform path does not follow that of most post socialist scenarios and continuity with the past remains strong Despite seeming immobility the local view on rural society presented in this book unveils an unexpectedly dynamic situation characterized by shifts in patronage relations struggles over legitimacy and transformations in family structure and community life Poised between the state their communities and an emerging stratum of absentee farm sponsors the focus is on the new farmers farmer and their struggles for a place in rural society What emerges from decollectivisation is a complexly articulated new agrarian concern its new inequalities are rooted in the political economy of cotton Series Halle Studies in the Anthropology of Eurasia Vol 23      Land, Poverty and Livelihoods in an Era of Globalization A. Haroon Akram-Lodhi, Saturnino M. Borras Jr., Cristóbal Kay,2007-01-24 A host of internationally eminent scholars are brought together here to explore the structural causes of rural poverty and income inequality as well as the processes of social exclusion and political subordination encountered by the peasantry and rural workers across a wide range of countries This volume examines the intersection of politics and economics and provides a critical analysis and framework for the study of neo liberal land policies in the current phase of globalization Utilizing new empirical evidence from ten countries it provides an in depth analysis of key country studies a comparative analysis of agrarian reforms and their impact on rural poverty in Africa Asia Latin America and transition countries Presenting an agrarian reform policy

embedded in an appropriate development strategy which is able to significantly reduce and hopefully eliminate rural poverty this work is a key resource for postgraduate students studying in the areas of development economics development studies and international political economy      **Disaster by Design** Michael R. Edelstein,Astrid Cerny,Abror Gadaev,2012-11-27 This volume addresses the impacts of the Aral Sea disaster disappearance of what was the world s fourth largest inland body of water It argues this was the result of deliberate policy decisions This volume is essential reading for everyone concerned with averting environmental disaster and in creating livable sustainable communities      The Journal of Central Asian Studies ,2008      **Policy Reforms and Agriculture Development in Central Asia** Sandjar Djalalov,Suresh Chandra Babu,2006-07-02 Achieving sustainable agricultural development is at the forefront of the poverty reduction objective of the Central Asian republics Kazakhstan the Kyrgyz Republic Tajikistan Turkmenistan and Uzbekistan Since independence the countries of the Central Asian region have undergone a series of transition from centrally planned economies to a more market oriented system Wide ranging policy reforms have been implemented although in varying degrees in the five Central Asian countries Despite great efforts by the countries and the external advice and efforts of international agencies to help them to follow a dynamic growth path the progress in policy reforms has been frustratingly slow Generating momentum to reorient the approach and the sequencing of policy reform packages will require rethinking of the policy reform process This is particularly so in the food agriculture and natural resource sectors This further requires improved understanding among the policymakers donors and international agencies of the impact of policy alternatives so that policy reforms and the speed with which they have been implemented are consistent with the objectives and the social and political realities of individual countries in the region Involving the local policy research community in identifying critical issues and challenges setting priorities among them for food and agricultural and natural resource policy research and analysis and implementing joint research studies is the best way to generate knowledge on the impact of policy reforms and to increase ownership of policy design and implementation      **Variations on Uzbek Identity** Peter Finke,2014-02-01 Throughout its history the concept of Uzbekness or more generally of a Turkic speaking sedentary population has continuously attracted members of other groups to join as being Uzbek promises opportunities to enlarge ones social network Accession is comparatively easy as Uzbekness is grounded in a cultural model of territoriality rather than genealogy as the basis for social attachments It acknowledges regional variation and the possibility of membership by voluntary decision Therefore the boundaries of being Uzbek vary almost by definition incorporating elements of local languages cultural patterns and social organization This book combines an historical analysis with thorough ethnographic field research looking at differences in the conceptualization of group boundaries and the social practices they entail It does so by analysing decision making processes by Uzbeks on the individual as well as cognitive level and the political configurations that surround them      **Uzbekistan Investment and Business Guide Volume 1 Strategic and Practical Information** IBP, Inc.,2018-03-29 Uzbekistan Investment and Business Guide

Strategic and Practical Information      *Women's Lives and Livelihoods in Post-Soviet Uzbekistan* Zulfiya

Tursunova, 2014-06-05 Women in Uzbekistan have been labeled as victims of patriarchy and submissive voiceless bodies who lack agency and decision making power They are also often symbolized as preservers of rituals and culture and also the victims of socio economic transformations During the years of land tenure changes from collectivization to de collectivization World War II and the five year plan economy women played a vital role in pursuing a diverse range of livelihood opportunities to sustain their families and communities But what kind of livelihood activities do women pursue in rural areas in Uzbekistan What do they think about themselves Do they exercise agency What are their values desires dreams and inspirations in the post Soviet period in Uzbekistan *Women's Lives and Livelihoods in Post Soviet Uzbekistan* presents women's voices and their experiences of carrying out livelihood activities such as farming trading baking sewing building greenhouses and establishing furniture workshops In a major contribution to the study of post Soviet transformations Zulfiya Tursunova demonstrates how women exercise multi dimensional empowerment by joining social and economic saving networks such as gap and chernaya kassa These networks represent a collective movement and action against economic dependency of women on men and the state micro loan bank system The networks that do not require external donor interventions have been able to empower women for social justice knowledge redistribution of resources and conflict resolution in ways that are vital to community development Tursunova provides accounts of such ceremonies as mavlud ihson Bibi Seshanba and Mushkul Kushod These ceremonies show the ways the conflict resolution practices of women are woven into their everyday life and function autonomously from the hierarchical elite driven Women's Committees and state court systems established in the Soviet times Many local healers and otins religious teachers use their discursive knowledge based on Islam Sufism shamanism and animism to challenge and transform women's subordination abuse and other practices that impinge on women's needs and rights These female religious leaders through different ceremonial practices create space for raising the critical consciousness of women and transform the social order for maintaining peace in the communities      The International

Politics of Central Asia John Anderson, 1997 Central Asia is a fascinating region yet remote and unfamiliar to many people This new study provides an introduction to the politics of Kazakhstan Kyrgyzstan Tajikistan Turkistan and Uzbekistan

**Transition and Institutions** Giovanni Andrea Cornia, Vladimir Mikhailovich Popov, 2001 This book is the first comprehensive assessment of the mortality crisis which has affected most economies in transition but which has remained so far largely unexplained It reconciles long term and short term explanations of the crisis and makes use of special micro data sets never used before By providing a rigorous multidisciplinary analysis of this upsurge in mortality rates the book hopes to contribute to the launch of vigorous policies to tackle this societal problem      Constructing the Uzbek State Marlene Laruelle, 2017-12-20 Over the past three decades Uzbekistan has attracted the attention of the academic and policy communities because of its geostrategic importance its critical role in shaping or unshaping Central Asia as a region its

economic and trade potential and its demographic weight every other Central Asian being Uzbek Uzbekistan's political social and cultural evolutions largely exemplify the transformations of the region as a whole And yet more than 25 years after the collapse of the Soviet Union evaluating Uzbekistan's post Soviet transformation remains complicated Practitioners and scholars have seen access to sources data and fieldwork progressively restricted since the early 2000s The death of President Islam Karimov in power for a quarter of century in late 2016 reopened the future of the country offering it more room for evolution To better grasp the challenges facing post Karimov Uzbekistan this volume reviews nearly three decades of independence In the first part it discusses the political construct of Uzbekistan under Karimov based on the delineation between the state the elite and the people and the tight links between politics and economy The second section of the volume delves into the social and cultural changes related to labor migration and one specific trigger the difficulties to reform agriculture The third part explores the place of religion in Uzbekistan both at the state level and in society while the last part looks at the renegotiation of collective identities

**Evolutionary Governance Theory** Raoul Beunen, Kristof Van Assche, Martijn Duineveld, 2014-12-02 This volume presents empirical studies and theoretical reflections on Evolutionary Governance Theory EGT its most important concepts and their interrelations As a novel theory of governance EGT understands governance as radically evolutionary which implies that all elements of governance are subject to evolution that these elements co evolve and that many of them are the product of governance itself Through this book we learn how communities understand themselves and their environment and why they create the complex structures and processes we analyze as governance paths Authors from different disciplines develop the EGT framework further and apply it to a wide range networks of power governance of agricultural resources etc The contributors also reflect on the possibilities and limitations of steering intervention management and development in a world continuously in flux It bridges the gap between more fundamental and philosophical accounts of the social sciences and applied studies offering theoretical advancements as well as practical recommendations



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