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Titolo	Transforming Medicinal Plant Agriculture : Implementing Soil-less Systems and AI Innovations for Smart Farming / / edited by Pankaj Kumar, Ashish R. Warghat
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2026
ISBN	981-9539-63-3 9789819539635
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (438 pages)
Collana	Smart Agriculture, , 2731-3484 ; ; 16
Disciplina	630
Soggetti	Agriculture Artificial intelligence Science - Social aspects Computational intelligence Agricultural biotechnology Artificial Intelligence Science and Technology Studies Computational Intelligence Agricultural Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction of Soilless Farming -- Vertical Farming for Medicinal Plants: A Smart Approach -- Controlled Environment Agriculture for Medicinal Plant Production -- Salinity Stress Interventions for Crop Productivity in Hydroponics -- Physiological Interventions for Medicinal Plant Productions -- Smart Urban Agriculture for Enhancing Resilience and Sustainability -- Elicitation in Hydroponics for Medicinal Plants Production -- Integration of Robotics in Soilless Cultivation Systems for Medicinal Plant Production -- Nanotechnological Interventions to Enhance Growth and Secondary Metabolite Content in Medicinal Plants -- Smart Hydroponics Monitoring System Using Internet of Things -- AI and Smart Farming: Transforming the Future of Agriculture -- Integrating IoT and Bioinformatics for Nutrient Monitoring in

Hydroponic Systems -- Machine Learning Based Management of Climatic Factors in Hydroponic Greenhouses -- IoT-based Nutrient Monitorization in Hydroponics Using Bioinformatics Tools -- Intellectual Property Rights in Smart Agriculture for Medicinal Plants -- Marketing Medicinal Plants in the Digital Age: Strategies for Soilless Cultivation Systems.

Sommario/riassunto

This book offers a comprehensive exploration of how cutting-edge technologies, including soil-less systems and artificial intelligence (AI), are transforming the cultivation of medicinal plants. As global health increasingly relies on natural remedies, the demand for high-quality medicinal plants is surging. Traditional agriculture, with its inherent challenges such as soil degradation, inconsistent yields, and labor-intensive practices, often falls short of meeting this demand. This book addresses these challenges by presenting innovative solutions that enhance the efficiency, sustainability, and quality of medicinal plant production. The main topics covered include vertical farming, AI-driven crop management, nanotechnology applications, advanced sensor technology, hyperspectral imaging, robotics, and drone-based systems. Each chapter delves into a specific technology or system, illustrating how it contributes to the overall goal of optimizing medicinal plant cultivation. The integration of these advanced technologies not only improves the quality and consistency of the products but also supports the shift towards more environmentally friendly farming practices. The target audience for this book includes researchers, agronomists, practitioners, and entrepreneurs who are involved in or interested in the field of smart agriculture and medicinal plant cultivation. It will also appeal to academics and students studying agricultural science, horticulture, or plant biotechnology, as well as industry professionals seeking to implement or invest in advanced agricultural technologies. Through its in-depth analysis and practical insights, this book will serve as a valuable resource for anyone aiming to contribute to or capitalize on the future of smart agriculture.

2. Record Nr.	UNINA9911141701703321
Autore	Jarvis Andrew
Titolo	Assessing green jobs potential in developing countries : a practitioner's guide / / Andrew Jarvis, Adarsh Varma and Justin Ram
Pubbl/distr/stampa	Geneva, : International Labour Office, 2011
ISBN	92-2-124572-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (123 p.)
Altri autori (Persone)	VarmaAdarsh RamJustin
Disciplina	363.70023
Soggetti	Labor market - Environmental aspects - Developing countries Job creation - Developing countries Green products - Developing countries
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 109-111).
Nota di contenuto	Title page; Copyright page; Foreword; Contents; Tables; Table 2.1 Methods to estimate the size of the informal economy; Table 2.2 Informal economy employment as a percentage of the non-agricultural workforce, by region, 1985-1999; Table 2.3 Simplified example of an input-output (I-O) table; Table 2.4 Estimating environment-related jobs: Pros and cons of business surveys and input-output modelling; Table 2.5 Definitions of Type II output, income and employment multipliers and effects Table 3.1 Examples of typical economic, environmental and social issues with linkages to green growth revealed by a strategic scanTable T1.1 Template for the basic economic profile, by sector; Table T1.2 Example of the mapping of formal and informal employment by sector, worker distribution and GDP share by industry: The case of Bangladesh; Table T2.1 Examples of relevant data and information for sector profiles; Table T3.1 Mapping environmental performance indicators; Table T3.2 Core environment-related activities as identified in Task 3 Table T3.3 Methods for estimating direct employment in core environment-related activitiesTable T3.4 Examples illustrating labour market interactions of green activities; Table T3.5 Bangladesh: Estimates of employment in the sustainable energy sector; Table T4.1 Example of a coefficients matrix for an input-output (I-O) table; Table

T4.2 Example for adjusting tourism-related sectors using appropriate sector shares; Table T4.3 Survey methods to obtain information for technical coefficients related to creating new green sectors; Table T4.4 Policy priorities and choice of methods
Table A2.1 Selected output shares for splitting into subsectors, Bangladesh
Table A2.2 Derived adjusted shares for conventional and sustainable sectors; Table A2.3 Adjusted coefficients for the sustainable subsectors; Figures; Figure 3.1 Green growth can help tackle key national challenges with significant interlinked benefits; Figure T3.1 Consultations as well as desk research required; Figure T3.2 Identifying core environment-related activities from the literature: The example of Bangladesh; Figure T3.3 Screening tool for core environment-related job estimates
Figure T4.1 Key steps for estimating multiplier effects

Sommario/riassunto

The knowledge of how the transition to a sustainable, low-carbon economy will affect employment, especially underlying job movements, is vital to informing policy, yet there are few comparable studies for developing countries. As part of the ILO's Global Green Jobs Programme, this guide provides practical solutions to help fill these information gaps.
