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A Journey to Ecological and Environmental Sustainability

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*The Founder of the Asta-Ja Framework, and
Professor in Environmental Science*

School of Geosciences

University of Louisiana at Lafayette, Louisiana, USA

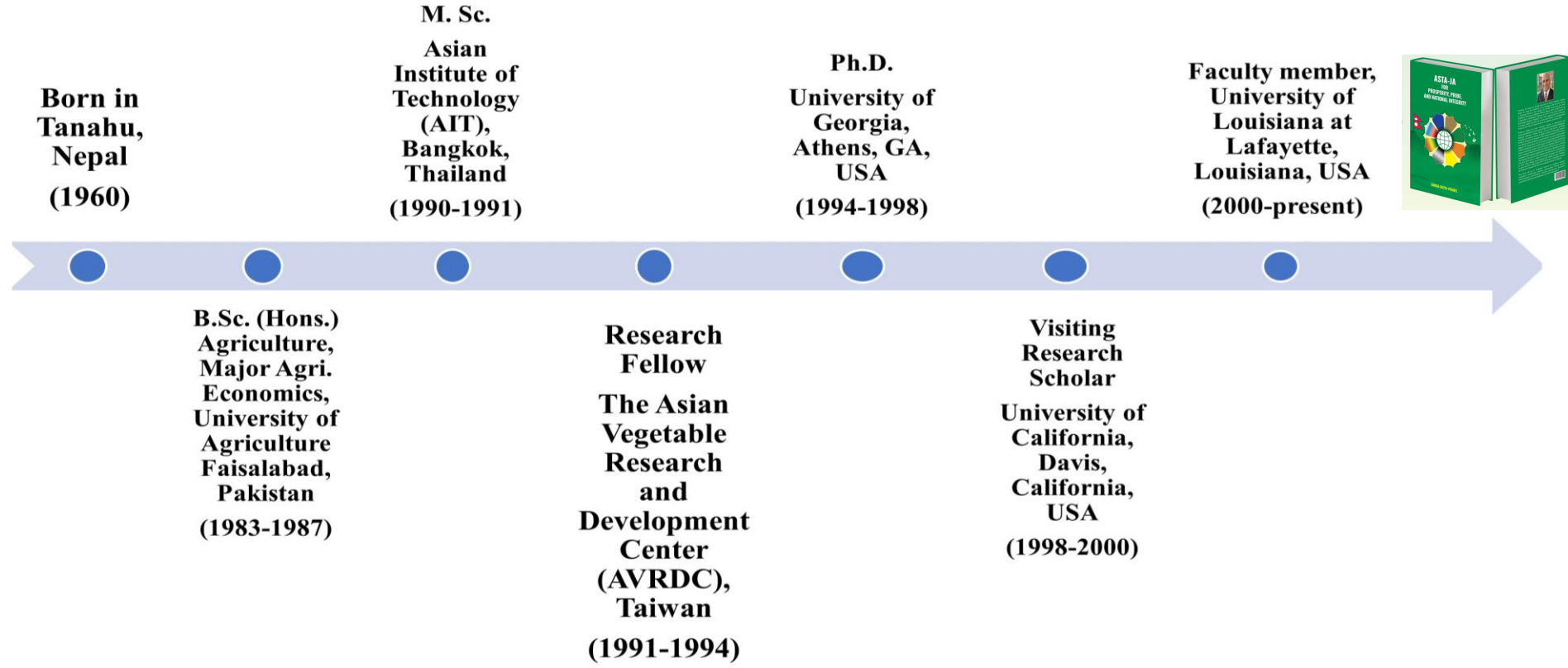
Lambda Alpha International (LAI) Induction

November 15, 2024

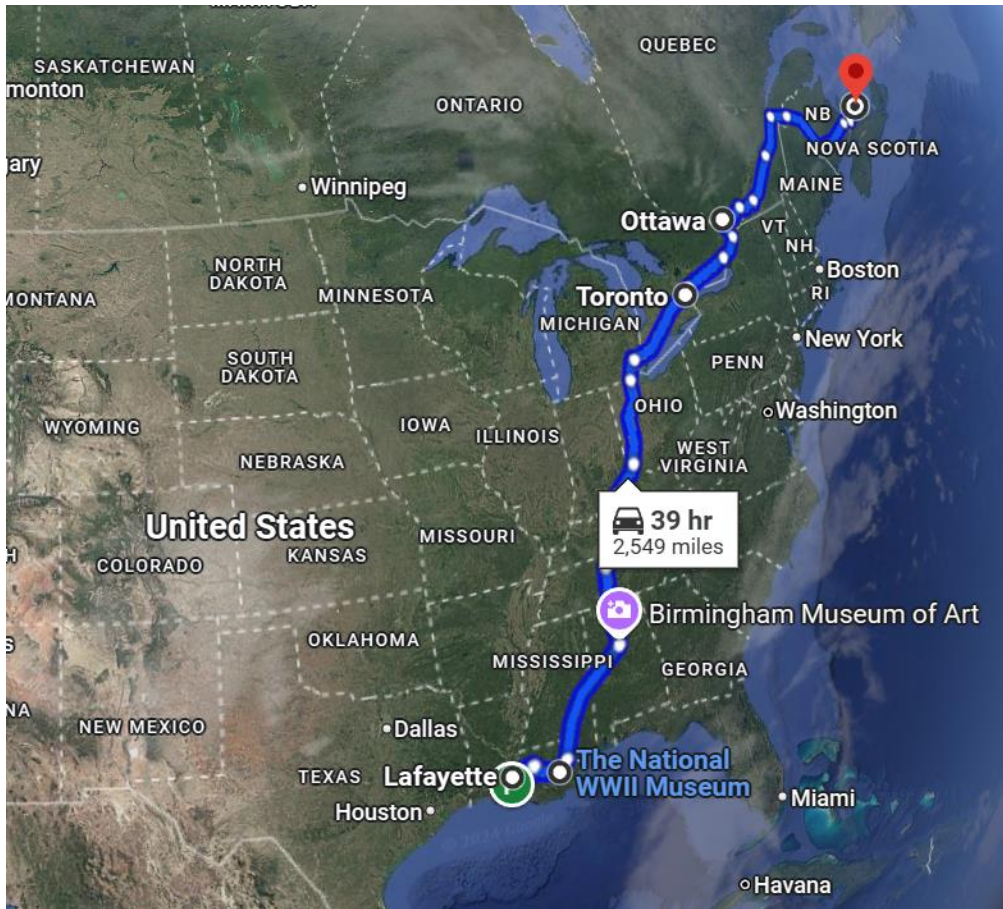
University of Louisiana at Lafayette

Hamilton Hall, Room 108, 611 McKinley Street, Lafayette,
Louisiana, USA

- Educational Journey
- Pioneering Asta-Ja in 2008
- Grassroots Research
- Nepal Vision 2040
- Asta-Ja-LAI-Soil Science Connection
- Asta-Ja Partnerships
- Summary and Conclusion



Personal Academic Timeline



A Family Trip to Canada (Summer, 2008)



Prof. Basu Sharma
The University of New
Brunswick, Canada

A Conference in Canada in 2008.

CFFN Conference, Unfolding Futures: Building Nepal Ground Up, Ottawa, Canada, July 10-12, 2008. Poudel, D.D., *Asta-Ja for Economic Development in Nepal (Oral)*.

Journal of Comparative International Management

Volume 11 Number 1 June 2008

Do Ownership and Culture Matter to Joint Venture Success?
YUAN ZHANG, RUNTIAN JING and WENHAO FU

Management of Eight "Ja" for Economic Development of Nepal
DURGA D. POUDEL

Japan-Malaysia Free Trade Agreement: Expectations
and Achievements
KHONDAKER MIZANUR RAHMAN, RAFIQUIL
ISLAM MOLLA and MD. WAHID MURAD

Interest Rates and Environmental Pollution
MUHAMMAD RASHID and BASU SHARMA

MF

Journal of Comparative International Management
2008, Vol. 11, No.1, 15-27

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Printed in Canada

Management of Eight 'Ja' for Economic Development of Nepal

by

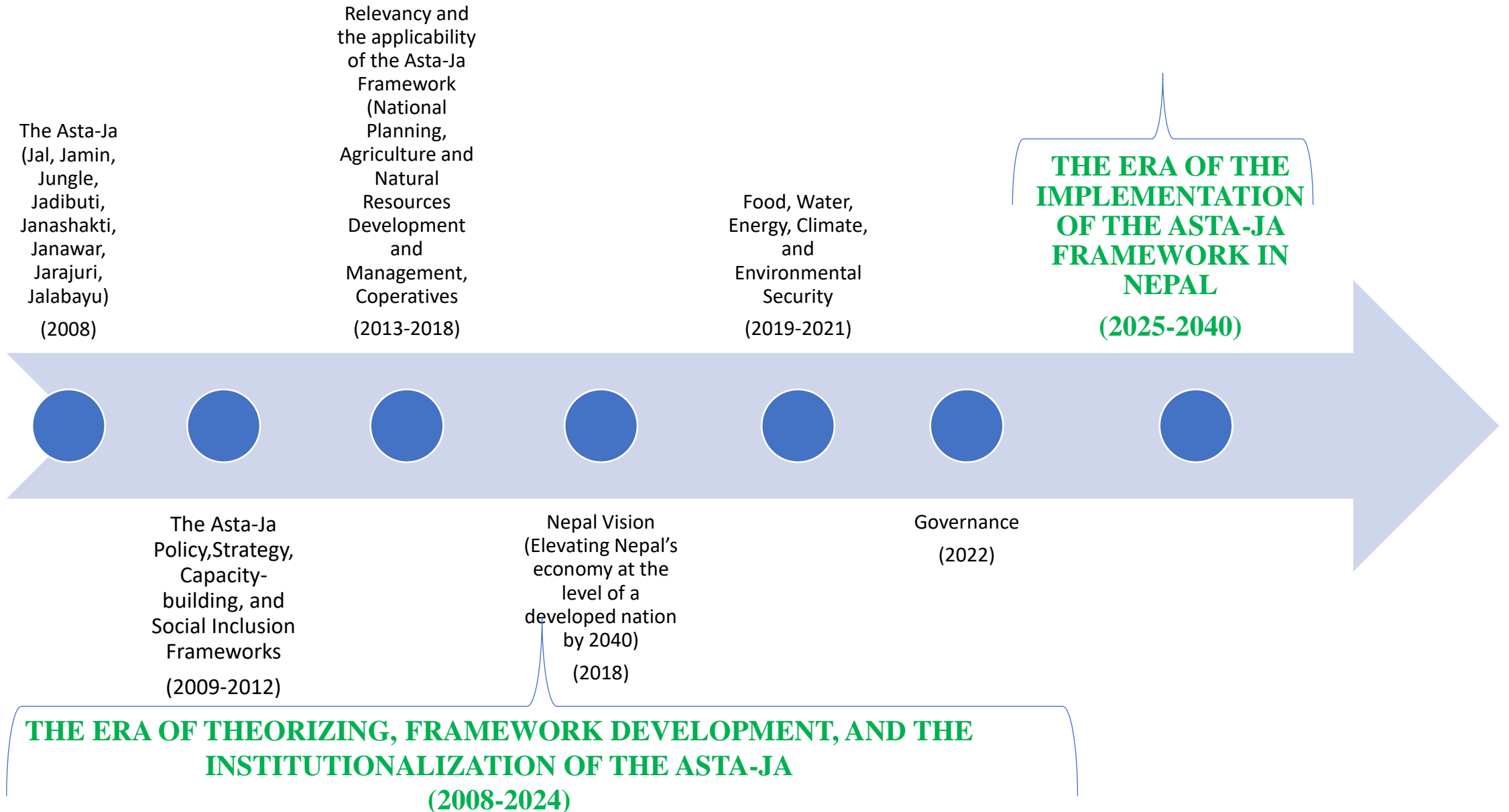
Durga D. Poudel

University of Louisiana at Lafayette, Louisiana, U.S.A.

This paper proposes a theoretically grounded Asta-Ja framework of Eight "Ja" —Nepali letter "Ja", Jal (water), Jamin (land), Jarajuri (plants), Janawar (animals), Jungle (forest), Jadibuti (medicinal and aromatic plants), Jalabayu (climate), and Jansakti (manpower) and referred to as Asta-Ja in Nepali language for economic development and management of Nepal. More concretely, it identifies and analyzes key elements of the framework to derive its implications for theory and policy development.

Resources (in English)	Resources (in Nepali) All start with Nepali letter “Ja”
1. Water	1. <i>Ja</i> l
2. Land	2. <i>Ja</i> min
3. Forest	3. <i>Ja</i> nangle
4. Medicinal and Aromatic Plants	4. <i>Ja</i> dibuti
5. Human Resources	5. <i>Ja</i> nashakti
6. Animals	6. <i>Ja</i> nawar
7. Crop Plants	7. <i>Ja</i> rajuri
8. Climate	8. <i>Ja</i> labayu
	Eight “Ja” = Asta-Ja

Asta-Ja Framework Development Timeline



Development of the Asta-Ja Framework

- **Poudel, D.D.** 2008. Management of Eight 'Ja' for Economic Development in Nepal. *Journal of Comparative International Management*, 11(1): 1-13.
- **Poudel, D.D.** 2009. The *Asta-Ja* Environmental and Natural Resources Policy Framework (Asta-Ja ENRPF) for Sustainable Development in Nepal. *Journal of Comparative International Management*, 12(2): 49-71.
- **Poudel, D.D.** 2011. A strategic framework for environmental and sustainable development in Nepal. *International Journal of Environment and Sustainable Development* , 10(1):48-61.
- **Poudel, D.D.** 2012. The Asta-Ja Management Capacity-building Framework for Sustainable Development in Nepal, *International Journal of Sustainable Development*, Vol. 15, No. 4, pp.334-352.
- **Poudel, D.D.** 2016. Management of Asta-Ja System, *Journal of Comparative International Management*, 19(2):19-40.
- **Poudel, D.D.** 2018. Management of Cooperatives Focusing on Asta-Ja and Globalization, *Journal of Comparative International Management*, 21(1):77-84.
- **Poudel, D.D.** 2018. Restructuring National Planning Commission Focusing on Asta-Ja and Nepal Vision 2040, *Asian Profile*, 46(2):151-167.

Development of the Asta-Ja Framework

- **Poudel, D.D.** 2019. Agricultural and Natural Resources Development Strategy in Nepal, *Asian Profile*, 47(1): 1-17.
- **Poudel, D.D.** 2021. Asta-Ja Framework: A Peaceful Approach to Food, Water, Climate, and Environmental Security Coupled with Sustainable Economic Development and Social Inclusion in Nepal, *Strategic Planning for Energy and the Environment*, Vol. 39_1-4, 243-318. DOI: 10.13052/spee1048-4236.391412
- **Poudel, D.D.** 2021. Asta-Ja and Energy Security in Nepal, *Strategic Planning for Energy and the Environment*, Vol. 40(2), 95–120. doi: 10.13052/spee1048-4236.4021
- **Poudel, D.D.**, 2021. Social Inclusion, Sustainable Development and Asta-Ja in Nepal, In: Medani P. Bhandari and Shvindina Hanna (Editors), *Inequality-The Unbeatable Challenge*, River Publishers Series in Chemical, Environmental, and Energy Engineering, ISBN: 978-87-7022-623-3 e-ISBN: 978-87-7022-622-6.
- **Poudel, D.D.** 2022. Governance for Prosperity, Pride and National Integrity: Historical Perspective and the Importance of Asta-Ja in Nepal, *Asian Profile*, Vol. 50 2, 339-360.
- **Poudel, D.D.** 2022. Governance of Asta-Ja resources in Nepal, *Nepal Public Policy Review*, Vol. 2 (2022), pp. 439-458. Available at: <http://www.nppr.org.np/index.php/journal/article/view/47/52> DOI: <https://doi.org/10.3126/nppr.v2i1.48687>

New York City



Summer, 2006



May 18, 2024

Book Launch Program

Venue:

Hotel Himalaya, Kupondole, Lalitpur

Date: 15th January, 2024

Time: 1:00 PM to 5:00 PM

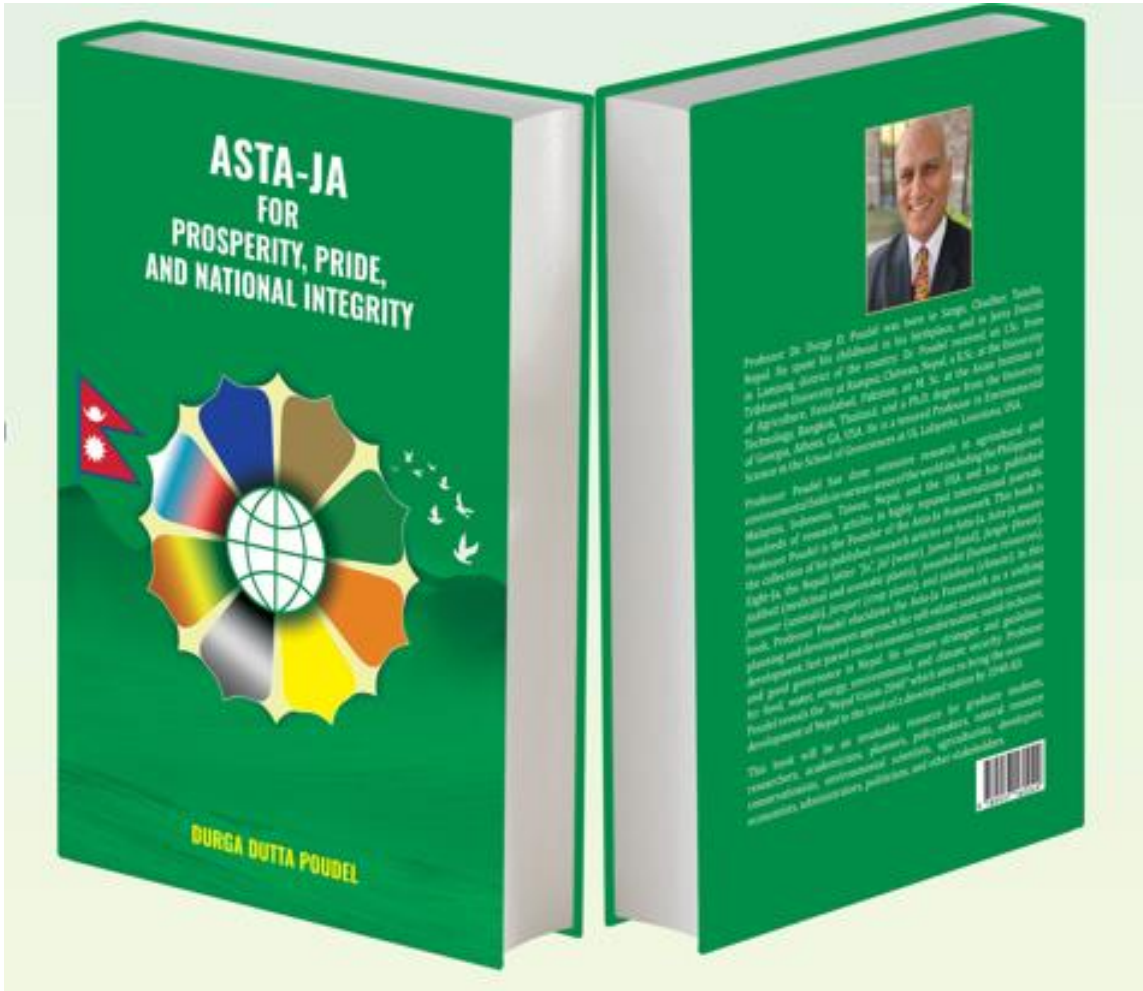


Durga Dutta Poudel, Ph.D.

Professor in Environmental Science, University of Louisiana at Lafayette, Louisiana, USA.

https://www.facebook.com/messenger_media?attachment_id=926299285550860&message_id=mid.%24cAABa88wGd3qT5pztNGNtVeiQKVY1&thread_id=100003146528634





Book

Asta-Ja for Prosperity, Pride, and National Integrity

Durga Dutta Poudel

<https://www.barnesandnoble.com/w/asta-ja-durga-dutta-poudel/1145685806>

<https://www.amazon.com/-/he/Durga-Dutta-Poudel/dp/9937160049>

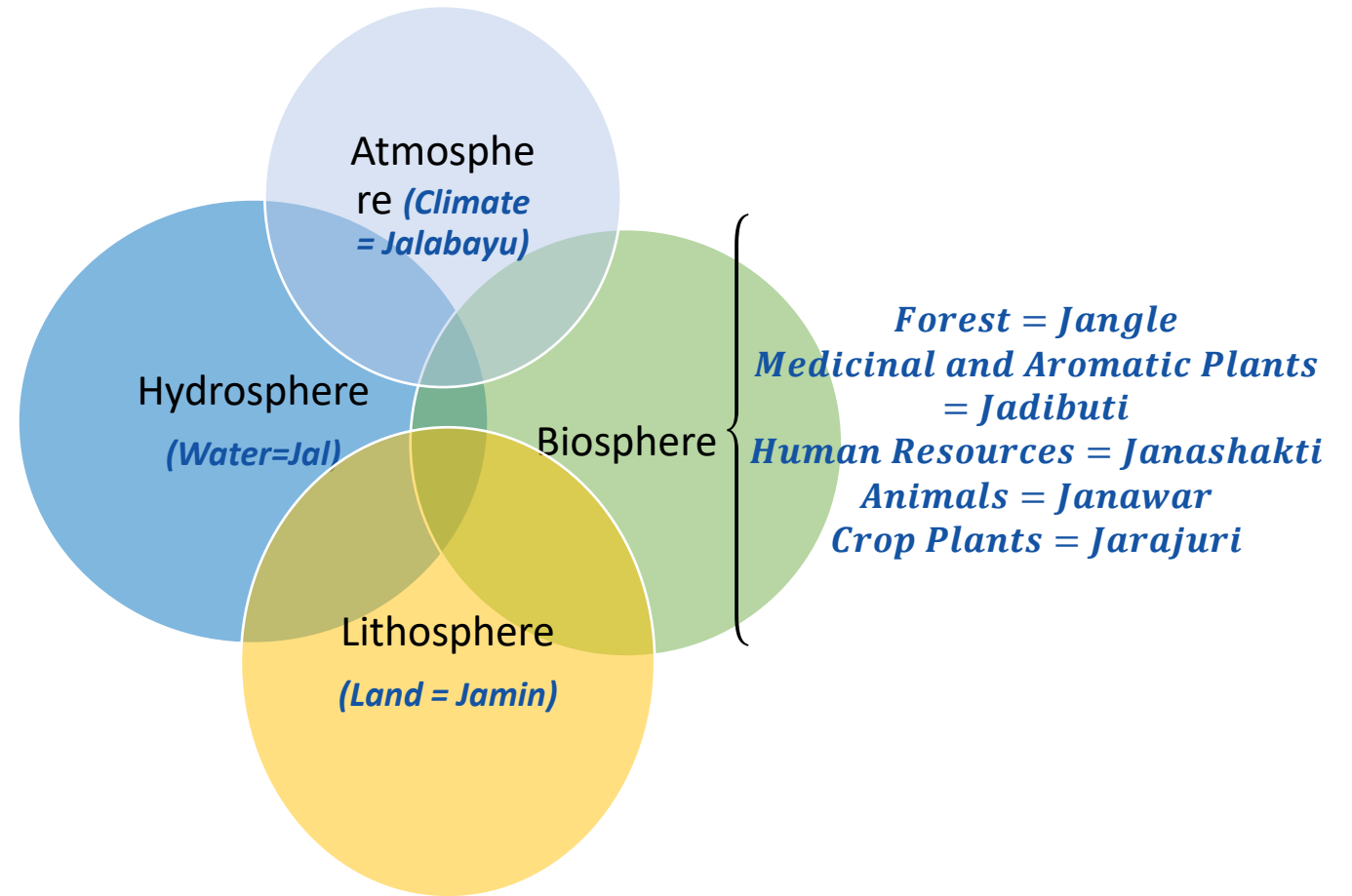
The book, **Asta-Ja for Prosperity, Pride, and National Integrity**, is a collection of thirteen published research articles from 2008-2022 AD. It presents theoretically grounded pioneering framework, **the Asta-Ja Framework**, for sustainable conservation, development, and utilization of natural and human resources for fast-paced socio-economic transformation, sustainable economic development, and environmental quality in Nepal. It presents practical guidelines for food, water, energy, environmental and climate securities. This book also presents **Nepal Vision 2040** which aims for developing Nepal to the level of developed nations by 2040 AD.

D.D. Poudel, Ph.D.

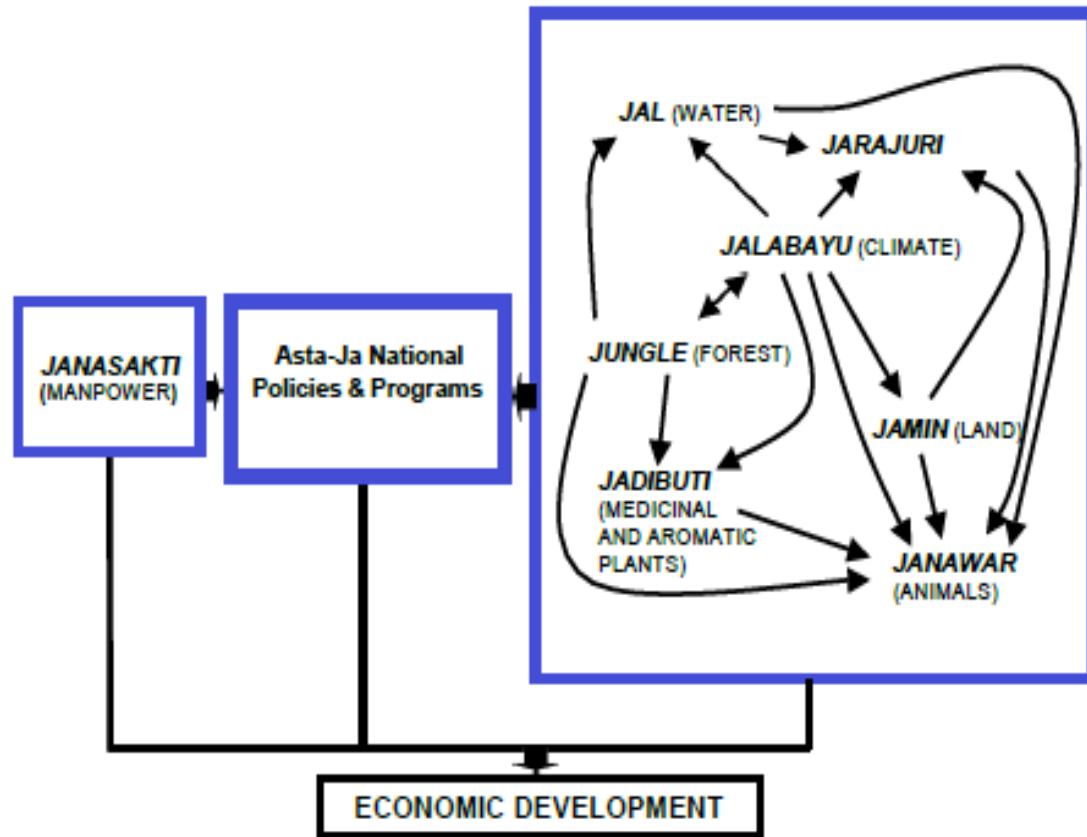
*The Founder of the Asta-Ja Framework and
the author of the book,*

*Asta-Ja for Prosperity, Pride, and National Integrity,
School of Geosciences, UL Lafayette, Louisiana, USA*

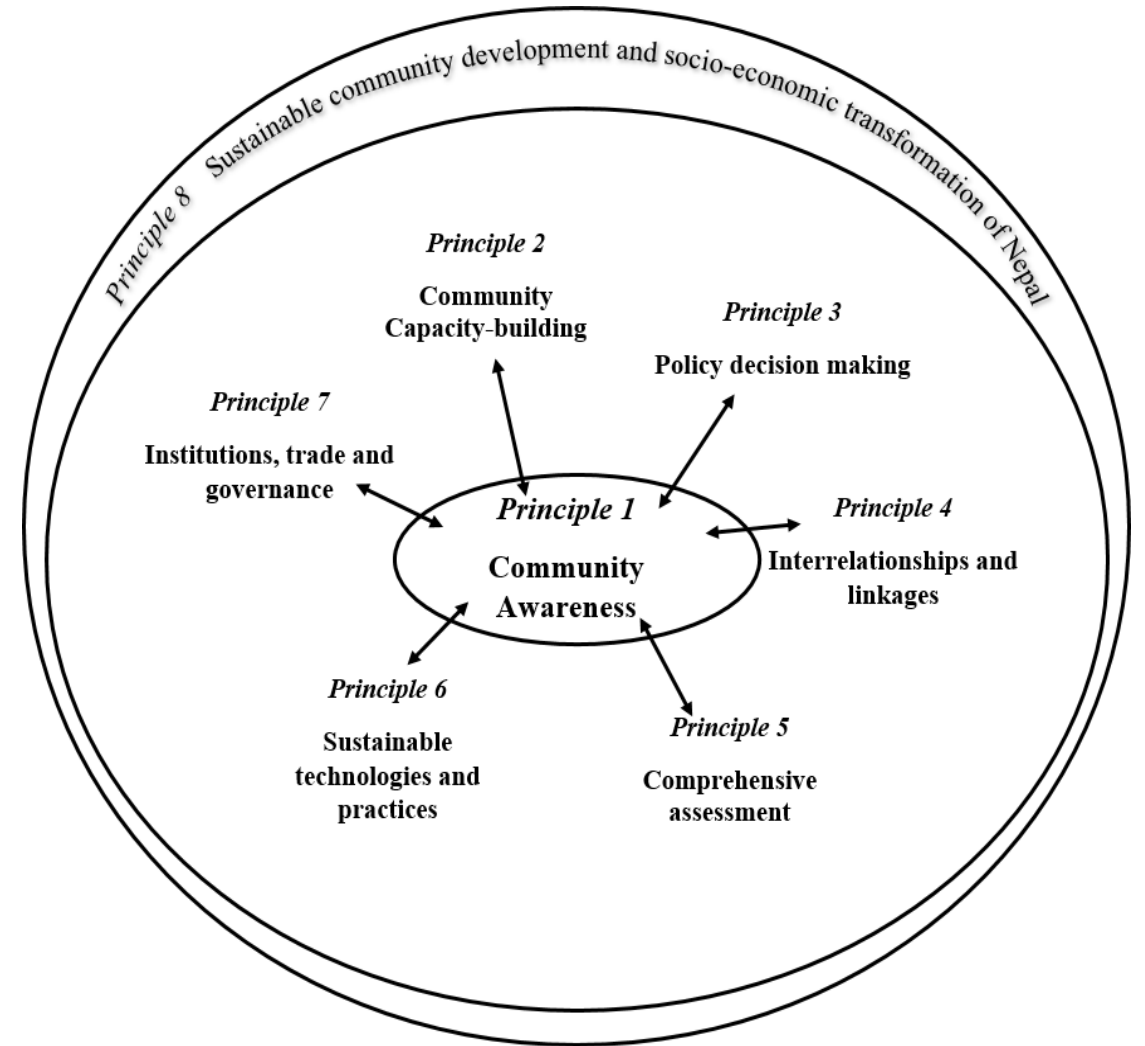
Asta-Ja and the four subsystems of the Earth system



The Theory of Asta-Ja



(Poudel, D.D. 2008)



(Poudel, D.D. 2016)

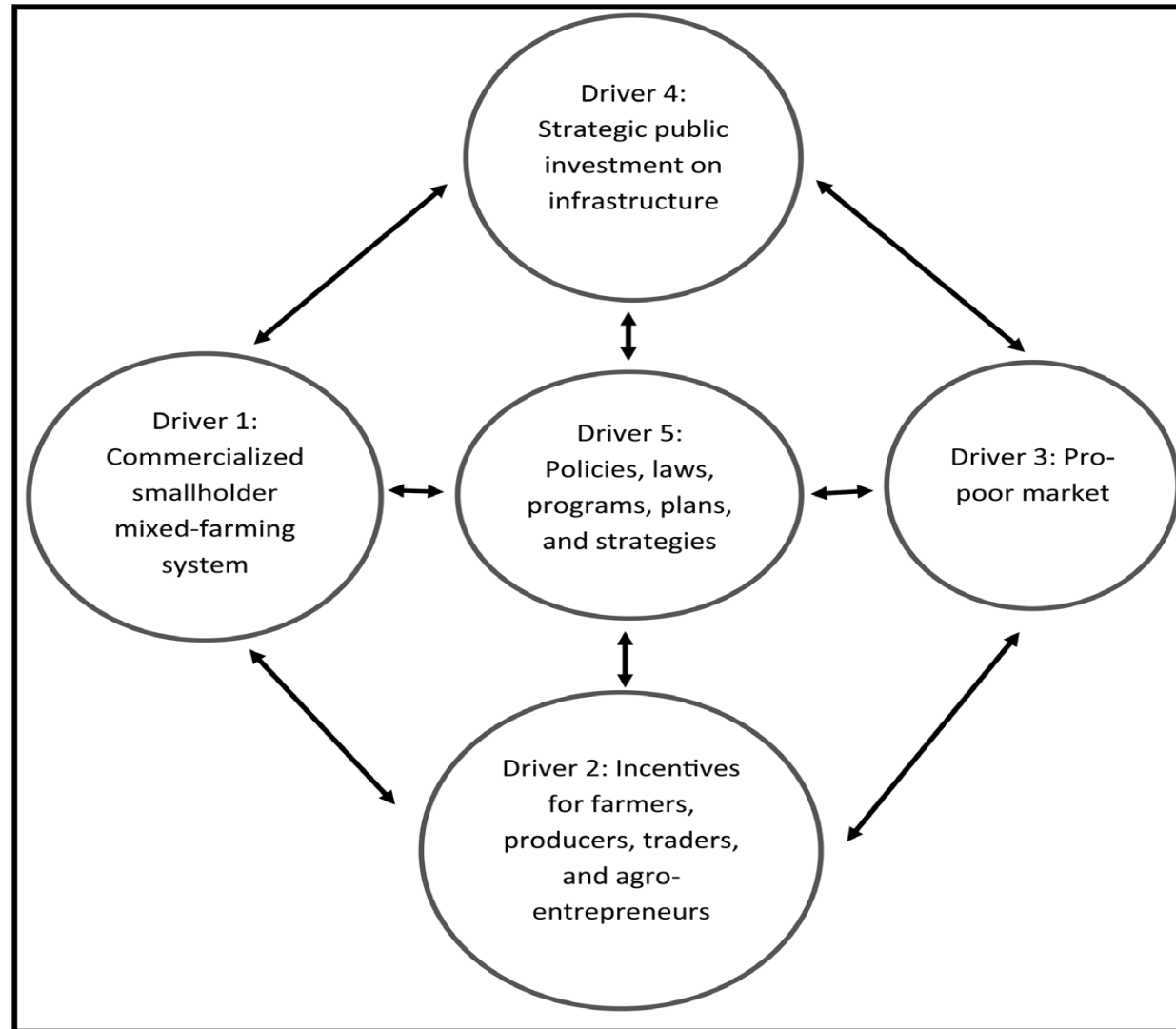
A Hypothetical Example of Asta-Ja Log Frame for the City of Kathmandu, Nepal.

	Community awareness	Capacity-building	Policy decision making	Interrelationships and linkages	Comprehensive assessment	Sustainable technologies and practices	Institutions, governance, and trade	Sustainable community development and socio-economic transformation
Jal (Water)	Drinking water, drainage, flooding	Water conservation, test labs	Drinking water projects	Ground water depletion and subsidence	Ground water	Water saving technologies, <u>waste</u> water recycling	Municipal Water Supply, Bottle Water Companies	Clean rivers, groundwater recharge
Jamin (Land)	Land-use, dust	Land-use, land protection	Open space, dust control	Congested living and public health	Land degradation	Green belt, <u>lawn</u> and grass cover	Soil Conservation Office, Land Office	Climate smart communities, recreational areas
Jungle (Forest)	Urban trees, sacred grooves	Tree nurseries, parks, community forestry	Green city, sacred grooves	Forest and water resources	Forest species and wildlife	Urban tree management, soil erosion control	Municipality Office, Soil Conservation Office	Green environment, tourism development
Jadibuti (Medicinal and aromatic plants)	Ayurvedhic medicine, herbs	Memory bank, remnants	Domesticating herbs, processing industries	Medicinal and aromatic plants and riparian buffers	Inventory of medicinal and aromatic plants	Medicinal and aromatic plant nurseries, chemical extraction	Department of Medicinal and Aromatic Plants, District Agricultural Office	Community gardens, tourism, Plant ID tours
Janshakti (Manpower)	Education, capacity-building, employment	Schools, training centers	Public education, private schools	Education and employment	Education and ethnicity	Teaching practices, online education	Department of Education, Municipal Government	Practical education, employment
Janawar (Animals)	Dairy, pets, chicken	Market, veterinary services	Commercial production, collection centers	Climate change and livestock	Livestock productivity	Sustainable livestock production, organic production	Department of Agriculture, Veterinary Services	Income generation, import substitution
Jarajuri (Crop plants)	Vegetable production, organic produce	Market, technical assistance, IPM	Commercial production, loans	Soil condition and crop productivity	Crop productivity	Sustainable crop production technologies, fertilizer	Department of Agriculture, Cooperatives	Income generation, employment
Jalabayu (Climate)	Drought, rain events	Flood control, crop diversification	Climate-smart agriculture, flood	Climate change and wildlife	Climate change impacts	Climate-smart agriculture, drought resistant varieties,	Department of Meteorology, Municipality Office	Climate resilient communities, resource conservation



Food, Water, Energy, Climate and Environmental Securities

Food Security



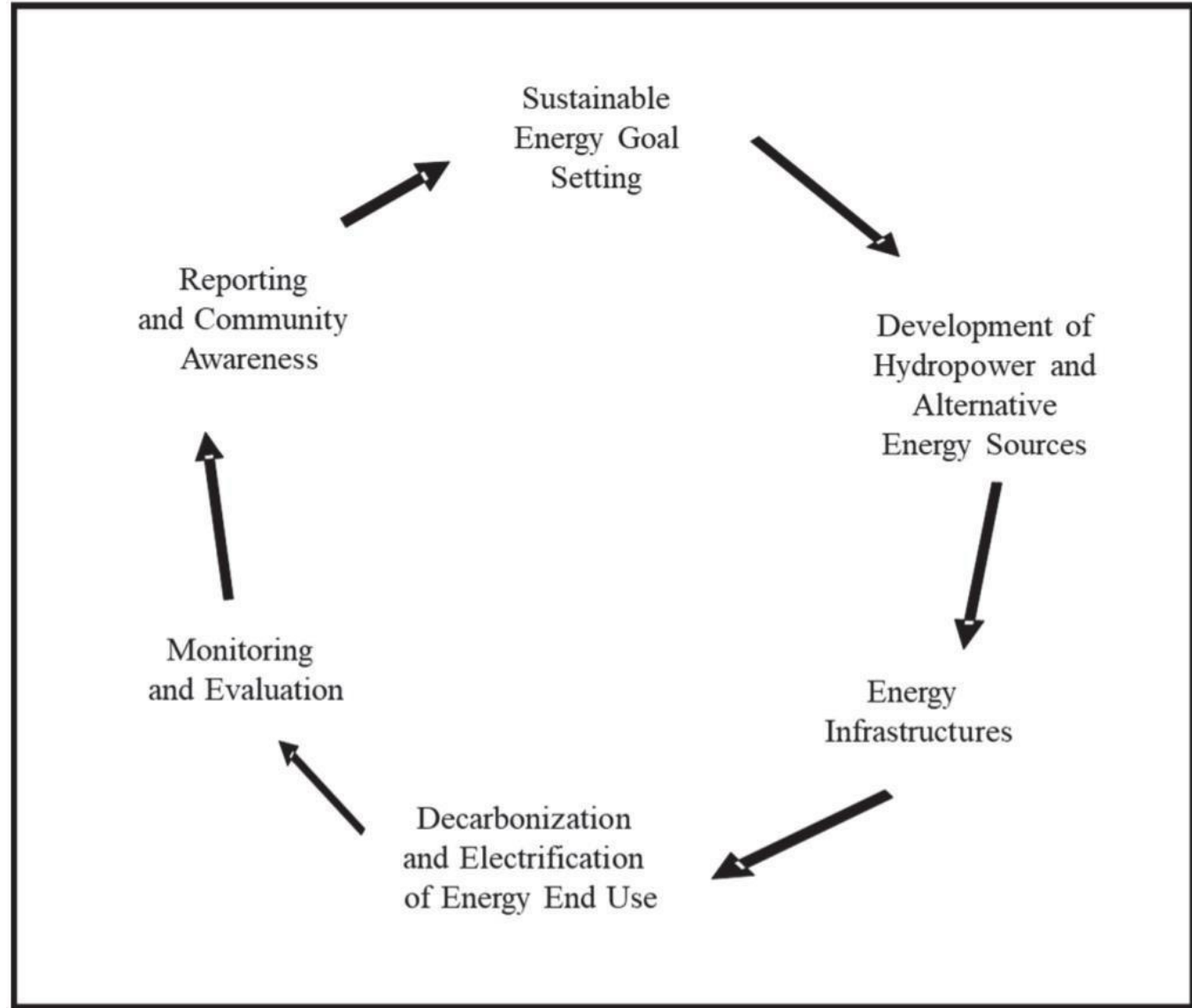
(Poudel, D.D. 2019)

Water Security



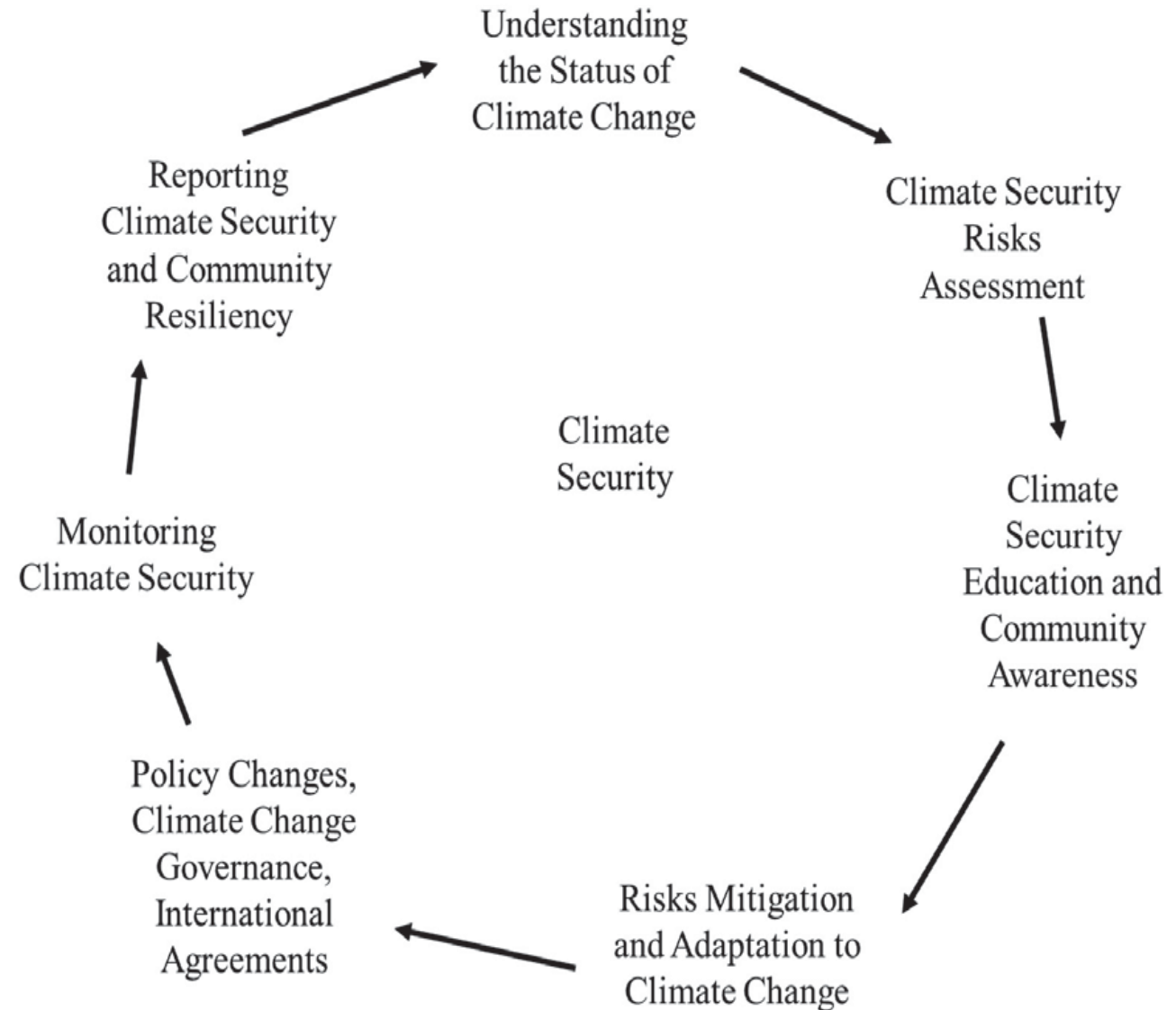
(Poudel, D.D. 2021a)

Energy Security



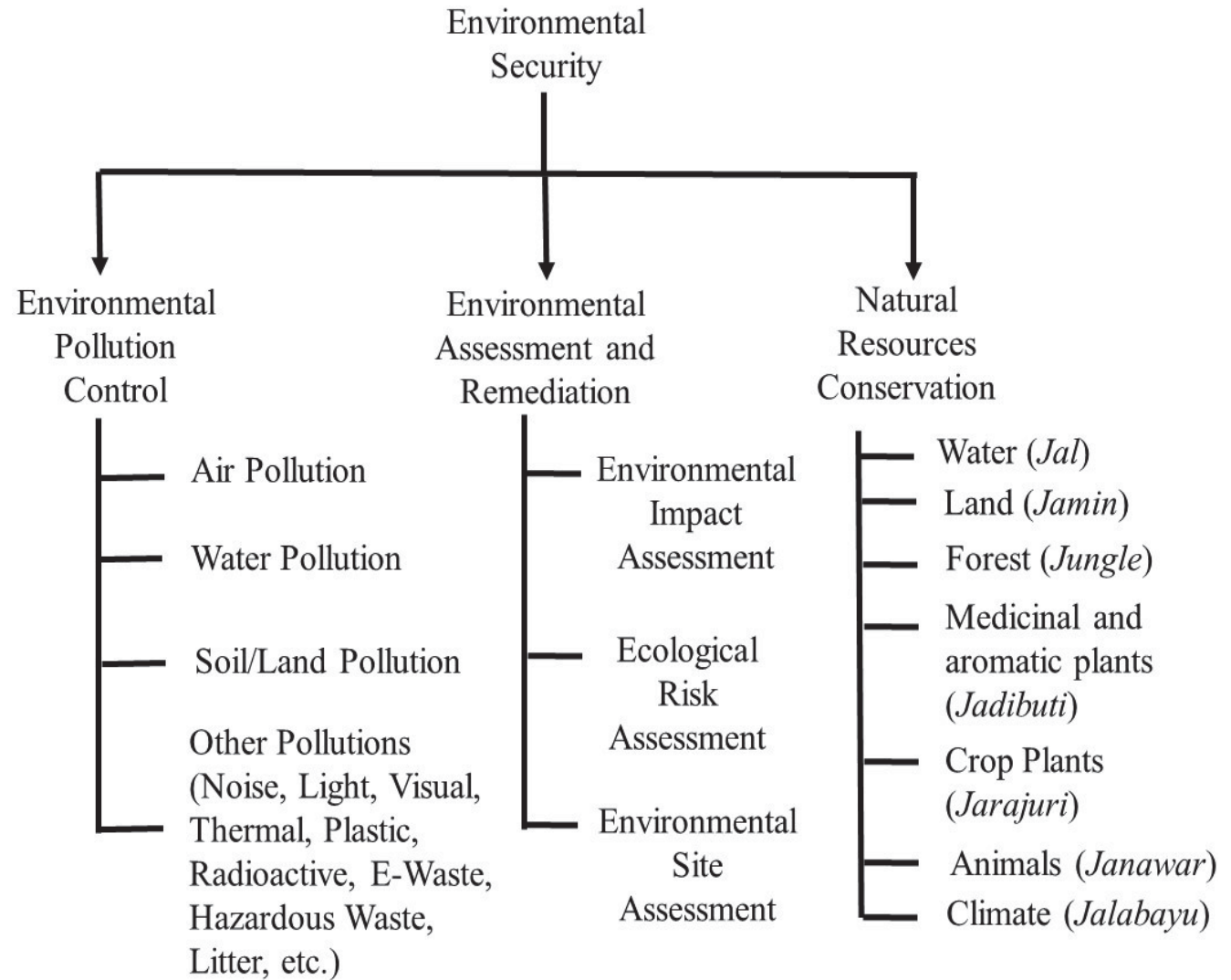
(Poudel, D.D. 2021b)

Climate Security



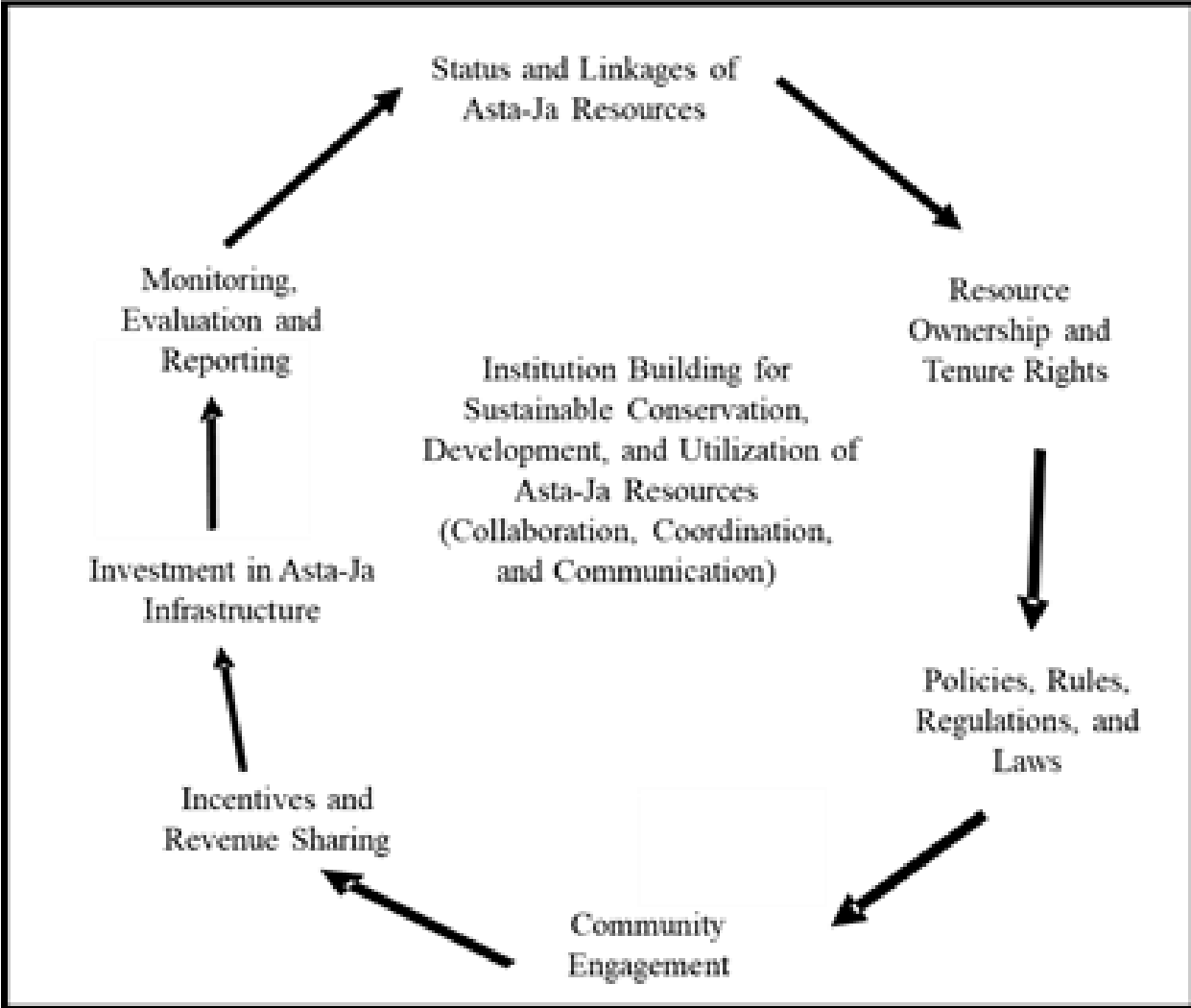
(Poudel, D.D. 2021a)

Environmental Security



(Poudel, D.D. 2021a)

The Governance of Asta-Ja



(Poudel, D.D. 2022)

**Grassroots Research
and Development:
The local community
in Nepal welcomed
the University
research team in
January, 2012**



**Grassroots
Research and
Development:
Sand, gravel, and
stone mining and
the devastation
of Chure region
in Nepal,
Summer, 2014**



**Grassroots Research
and Development:
Students from the
University of
Louisiana
participated in the
Nepal Study Abroad
Program in May and
June 2019**





**Grassroots Research and Development:
Basic Education Improvement,
RI GG2118290, Rotary District 500, Hawaii,
USA, December 2022**



**Grassroots Research and Development:
Drinking Water Project,
Monthly Environmental
Seminars, Food and
Nutrition Project, and
Food Storage in Tanahu,
Kathmandu, Kavre, and
other parts of Nepal.**



A HISTORIC BREAKTHROUGH IN CHUNDER COMMUNITY DEVELOPMENT





Asta-Ja Policy Briefs

December 2019, Volume 1, Issue 1

Inaugural Issue

Message from the President

We are pleased to present to you the inaugural issue of the *Asta-Ja Policy Briefs*. The inaugural issue includes three briefs on three important issues—urban development, air pollution, and entrepreneurship. Management of urban development, control of transboundary air pollution, and development of entrepreneurial eco system require thoughtful policies. The briefs presented in this issue provide some guidance in this respect. We hope to publish policy briefs on issues on a regular basis. However, for this hope to come true we need submissions of policy briefs from experts and scholars interested in the development of Nepal and her people. Our humble request to you: please contribute to make this journey a more meaningful one.

Please visit our website www.astajusa.org for more information.

Durga D. Poudel, Ph.D.
President
Asta-Ja USA

About Asta-Ja Policy Briefs

Editor-in-Chief:
Dr. Basu Sharma

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Dr. Deegha Adhikari
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Dr. Purusotam (Puru) L. Shrestha

Asta-Ja Policy Briefs are produced by Asta-Ja USA. Policy briefs are written on any relevant topics pertaining to Asta-Ja resources (*Jai, Jamiin, Jungle, Jodhuti, Janashakti, Janowar, Jorjari, and Joloboy*) and socio-economic development of Nepal. Upon submission of such briefs, the Policy Advisory Council of Asta-Ja USA reviews the briefs and makes recommendations for publication of selected policy briefs.

Inside this issue:

Urban Development in Nepal Ambika P. Adhikari	2
Controlling Transboundary Air Pollution: Asta-Ja Framework for Planning and Development Durga D. Poudel	3
Entrepreneurship for Prosperity Basu Sharma	4



Asta-Ja USA Newsletter

October 2019, Volume 1, Issue 1

Message from the President

Greetings!

It is my great honor and privilege to present the first newsletter from Asta-Ja USA. As the mission of our organization is to promote sustainable development of natural and human resources through education, capacity building, charitable activities, applied research, policy decision support, and environmental conservation, Asta-Ja USA is continually striving for excellence in generating funds and implementing research, development, and community awareness programs to enhance sustainable development of these resources and the environment.



Dr. Durga D. Poudel
President, Asta-Ja USA



Asta-Ja USA Executive Officers attended several conferences, primarily hosted by NRNA, and presented a poster entitled "Asta-Ja Initiatives for Kathmandu Valley Environmental Pollution Control" at the First NRNA Global Knowledge Convention, October 12-14, 2018. A video on "Agricultural and Natural Resources Development and Management" was presented at the First NRNA Global Convention in Kathmandu. Asta-Ja Executive Officers met with the Executive Board Members of Asta-Ja Research and Development Center (Asta-Ja RDC) in Kathmandu to discuss possible future collaborative projects. Asta-Ja USA facilitated the visit of Rotary Club members from USA, Damauli, Tanahu, and members from Asta-Ja RDC to a Mogor village in Tanahu, Nepal, for a possible drinking water project. Asta-Ja USA is currently working with the Rotary Club of Honolulu Sunset, Hawaii, USA, the Rotary Club and Vyas Municipality, Damauli, Tanahu, and Asta-Ja RDC in the drinking water initiative. The Policy Advisory Council of Asta-Ja USA is working on developing policy briefs targeting current natural and human resource issues of Nepal. Asta-Ja USA's sponsored activities include the following monthly seminar series in Kathmandu, Nepal: Ugly Flood (May 9), Dusty Air (April 27), Dirty Water: Contemporary Water Issues in Nepal (March 31), Climate Change and Environmental Quality: Challenges and Opportunities (June 6), Indoor Air Quality and Biomass Burning (July 22), Solid Waste (Aug 28), and Air Pollution in Kathmandu Valley (September 18). The June 6th seminar was participated by a team of 16 students and two faculty members from the University of Louisiana at Lafayette, Louisiana, USA. Students presented their findings on global climate change impacts on high-altitude agriculture, ecosystems, and the environment.

I would like to thank the Board of Directors and Executive Officers of Asta-Ja USA, Asta-Ja members associated with other Asta-Ja organizations including Asta-Ja RDC, Asta-Ja ICC, Asta-Ja Abhiyan Nepal, Asta-Ja Agriculture Cooperative, and Asta-Ja Vyas Bhumi Nepal, and all other Asta-Ja Campaigners as well as individuals and organizations who have helped us in accomplishing so many great things within this very short time since the establishment of Asta-Ja USA.

Please visit our website www.astajusa.org for more information.

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The Kathmandu Post
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Without Fear or Favour

WHAT'S NEWS : Oli's remarks in Kantipur Conclave 2024 Export restrictions Unsupportive government

OPINION

Power of eight

Minimal intervention is required to make organic agriculture in Nepal more productive



Durga D Poudel

Published at : December 30, 2014

Farming, which began about 7, 000 years ago in the Middle East, is undoubtedly the most revolutionary discovery of humankind. It allowed hunters and gatherers to settle in one place and presented opportunities for the integrative utilisation of natural resources such as water, animals, sunlight, soil, and plants for food production. This fundamental property of integrative utilisation of natural resources for a successful and environmentally benign farming still prevails.



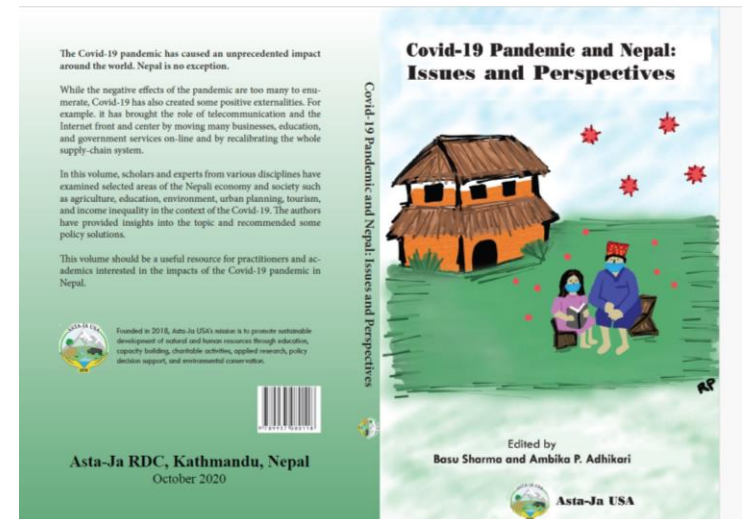
Asta-Ja for Grassroots-based Economic Development of Nepal

6 years ago Monday, January 14, 2019 telegraphnepal



Prof. Durga D. Poudel, Ph.D., University of Louisiana at Lafayette

A decade ago, I founded a groundbreaking Asta-Ja Framework for nation-building and socio-economic transformation of Nepal. Asta-Ja Framework includes eight "Ja", Nepali letter "Ja".



Climate Smart Dry Chain for Food and Nutrition Security in Nepal

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Abstract

Global efforts to feed the burgeoning population have focused on increasing food production and access. In the meantime, FAO estimates about 1/3 food loss in the developing countries. To minimize these losses, grain storage techniques were investigated in an earthquake hit village in Kavre district of Nepal. Pesticide free moisture proof/airtight food storage bags were provided to 1,055 households using financial support from UNICEF-Nepal. Thirty-three households were identified who could store food grains for 6-month for this study. Maize and rice grains were stored in porous and in moisture-proof hermetic bags. Food grain samples were collected at the beginning and at 6-month and were analyzed for physical quality parameters, nutrients and mycotoxins. About 92% insect damage occurred in maize stored in porous bags which was prevented in triple layer hermetic Purdue Improved Cowpea Storage (PICS) bags. Insect damage in paddy remained low within 10% in both treatments. Major maize nutrient loss occurred through insect damage. The traditional practice was to use insect and mold infested maize as feed. Mycotoxins results showed that toxigenic molds develop in open storage

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Enriching college students through study abroad: a case of Nepal Field Experience Part 1

Hali Corwin¹, Katie Eddings¹, George Bailey¹, Andrew Braun², Aubrey Mann¹, Victoria Gomez¹, Holly Heafner², William Faulk¹, Luke Immel², Allison Hingdon¹, Brandon Stelly¹, Brittany N. Broussard², Layken Willis¹, Timothy C. Martin², Thomas J. Mizelle², Avery J. Baker³, Timothy Duex⁴, Durga D. Poudel^{1*}

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Abstract— With a view of providing an unsurpassed opportunity to college students, who are mostly from Louisiana, in gaining a comprehensive understanding of Global Climate Change issues, we completed the first Nepal Field Experience Pilot Study Abroad from May 21-June 8, 2019. A total of fifteen students from the University of Louisiana at Lafayette, Louisiana, USA, and one graduate student from University of Arizona, Arizona, USA, participated in the program. Students examined and documented the effects of climate change impacts on agriculture, water resources, wildlife, local communities, forest resources, and other ecological and environmental settings of the country. They identified various climate change mitigation and adaptation measures that had been implemented and noted gaps between policy measures and ground realities. Research topics selected by the students included the following: climate change impacts on wildlife, water pollution, structural geology of Nepal, changing rainfall patterns and adaptation, climate change and agricultural production, geology of Kathmandu valley, air quality of Kathmandu valley, changing hydrology of glaciated landscape, climate change and geohazards, emerging diseases and pests on agricultural crops, climate change adaptation by local communities, green infrastructure and climate-smart technologies, climate change impact on drinking water sources, the roadside geology, and emerging diseases, parasites and zoonotics. Each student completed their individual research project, synthesized the results, and presented to local stakeholders in conference organized by a nonprofit nongovernmental organization, Asta-Ja Research and Development Center (Asta-Ja RDC), Kathmandu, Nepal. Findings of the study reveal that Nepal is experiencing huge impacts of climate change in multiple fronts including atmospheric conditions and snowfall, temperature rise, occurrence of droughts and flooding, changes on monsoon pattern, emerging diseases and pests on crops and livestock, and declining

drinking water sources. Environmental pollution, especially the air and water pollution and waste management, was very serious affecting public health, aesthetics, and even the tourism of the country. In order to reverse environmental degradation and enhance climate change adaptation, immediate implementation of effective, comprehensive, coordinated, and well-thought-out climate change adaptation and environmental initiatives are necessary. Nepal Field Experience was a lifetime learning experience for the students.

Index Terms— Study Abroad, Global Climate Change, Environmental Quality, Geology, Nepal

I. INTRODUCTION

The University of Louisiana at Lafayette has one of the state's best study abroad programs for the past 30 years. The study abroad program allows students to travel to new countries and get immersed in new cultures and tradition. Students are able to further their education and earn credit hours towards their degree. The study abroad program at UL Lafayette offers programs in five different countries; Costa Rica, England, France, Italy, and their newest program, Nepal. Costa Rica is an ideal destination for exploring social and environmental business practices. It is a ten-day program; the first seven days are spent traveling the Central Valley and the Caribbean side of the country while the remainder of the trip is spent at Tamarindo Divia on the Pacific Coast. Study abroad in England is a three-week program that offers students the opportunity to study in one of the most exciting and cosmopolitan cities in the world.

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Basic education improvement: A case of two High Schools in Tanahu, Nepal

Durga D. Poudel¹, Arjun Aryal², Naomi Masuno³, Mary Paterson³, Christel Yount², Randall Ching², Joy Robin Brahmst², Kara England², Jonathan McRoberts², Andy Chamberlain², Rachel Miyoshi², Lynn Christensen², Anne Biedel⁴, Hari Sing Gurung⁴, Murari Raj Joshi, Avinash Upadhyaya, Bidur Koirala, James Ham⁵, Beena Kaini⁶, Dinesh Shrestha⁷, Damodar Bhandari¹, and Glen Suzuki¹,

¹Environmental Science Program, School of Geosciences, University of Louisiana at Lafayette, Lafayette, Louisiana, USA and Rotary Club Damauli, Tanahu, RI
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⁵Asta-Ja Research and Development Center (Asta-Ja RDC), Kathmandu, Nepal

Abstract Improving basic education in High School is critical for developing skilled manpower. Two High Schools, Shree Jana Jukta Sha Secondary School and Shree Udaya Secondary School, in Tanahu, Nepal, have recently started their intermediate and technical education programs in veterinary science, civil engineering, and agriculture. This study was done to better understand basic education improvement opportunities and challenges in these two High Schools. We assessed needs and identified academic activities for basic education improvement. Accordingly, we developed basic science and engineering laboratories and E-Learning facilities in these two High Schools, conducted a two-day teacher's training and classroom teaching demonstration, and organized a three-day adult science literacy training in the communities. Topics covered in the teacher's training and adult science literacy events primarily included related to agriculture, environment, and climate change. The effectiveness of the basic education improvement program was assessed through observation, key informant surveys, group discussion, and feedback from teachers, students, and local communities. The program successfully developed basic science education in these two High Schools and enhanced adult science literacy in the communities. These activities are expected to increase basic and applied science literacy on agriculture, environment, and climate change among students and teachers in Tanahu, reduce gender-based

and caste-based disparity in education by lowering girl dropout rates, and connect High School learning to job markets to career-minded students. It is recommended that basic education improvement activities that were carried out in the two High Schools should be scaled-up to cover the whole Gandaki Province and other regions in Nepal.

Keywords— Basic Education, Science Laboratories, Survey and Engineering, E-Learning, Adult Science Literacy, High School Education, Rotary, Nepal.

I. INTRODUCTION

Technical and vocational education and training (TVET) supports economic growth and promotes equality and equity. TVET programs emphasize education for occupational or hands-on skills, and in developing countries, it's primarily situated as either an addendum to secondary education or, within the post-secondary education context, as an alternative to university training (Hoffman 2011). Nepal is an agricultural country where nearly two-thirds of the country's population is engaged in agriculture and depends on food

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<https://astajardcnepal.org/>

<http://www.astajausa.org/>



Nepal Vision 2040

(At the par of a developed nation)

Challenges

Poverty, Negative Balance of Trade, Outstanding Public Debt, Foreign Aid Dependency, Implementation Failures, Massive Outmigration for Foreign Employment, GDP Growth Rate, Natural Disasters, Environmental Degradation, Energy

Assets

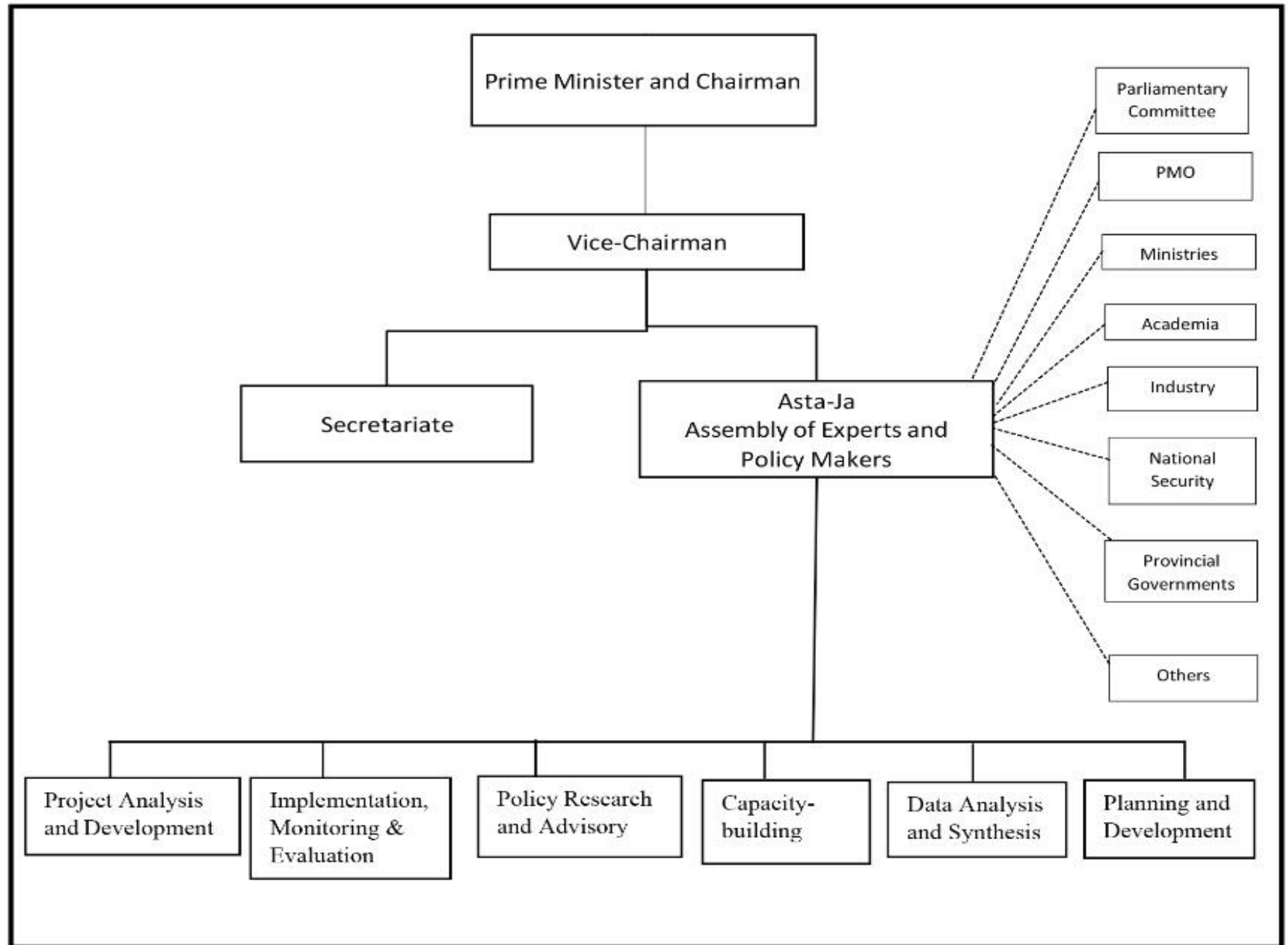
Asta-Ja
(Jal, Jamin, Jungle, Jadibuti, Janashakti, Janawar, Jarajuri, Jalabayu)

Vision

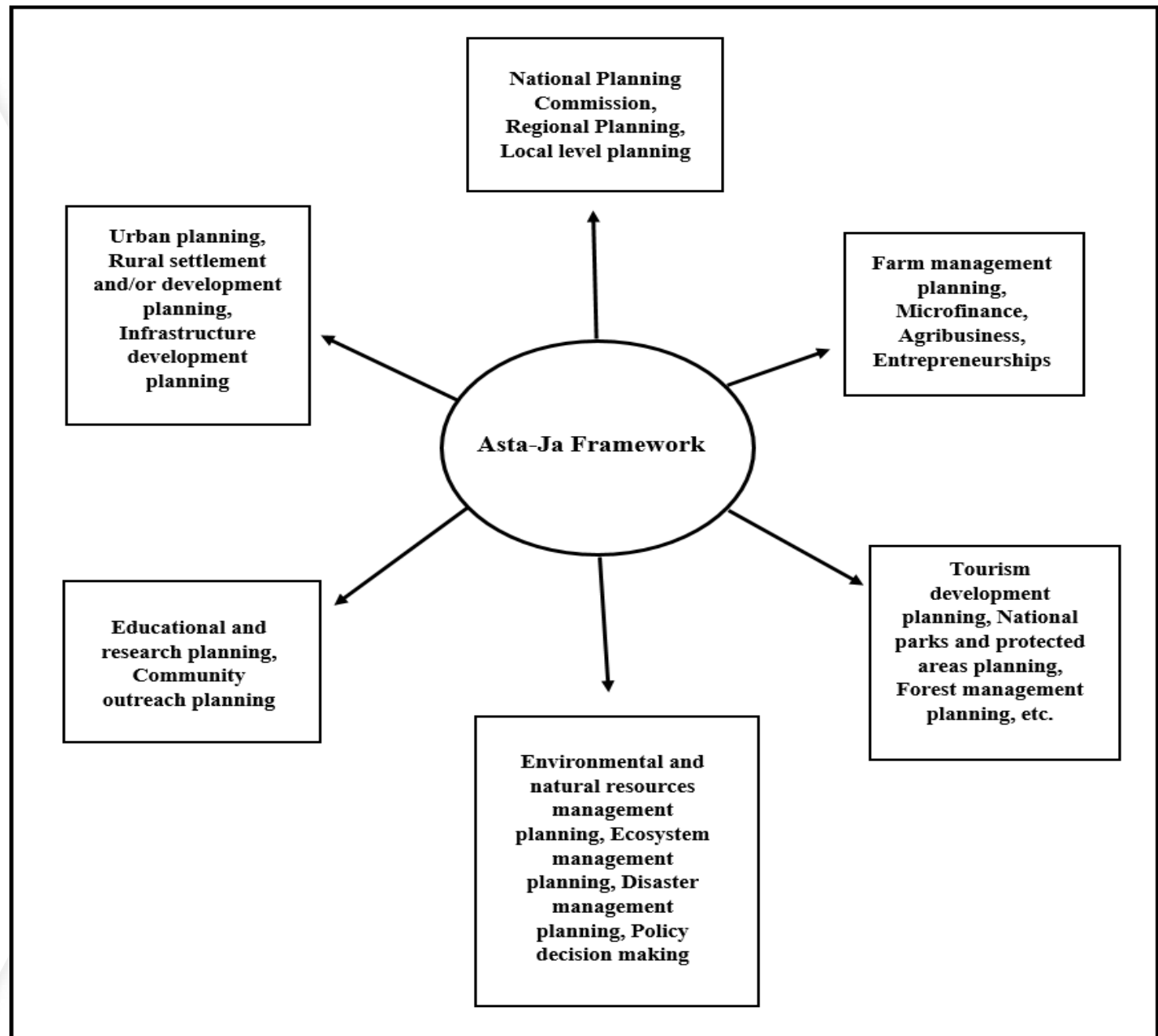
1. Food self-sufficiency,
2. Reliance on renewable resource energy,
3. Thirty million tourists annually,
4. Export of organic foods, medicinal and aromatic plants, and other products;
5. Corruption control,
6. Infrastructural development,
7. Community resiliency,
8. Social services;
9. Asta-Ja resource conservation, utilization and development

(Poudel, D.D. 2018)

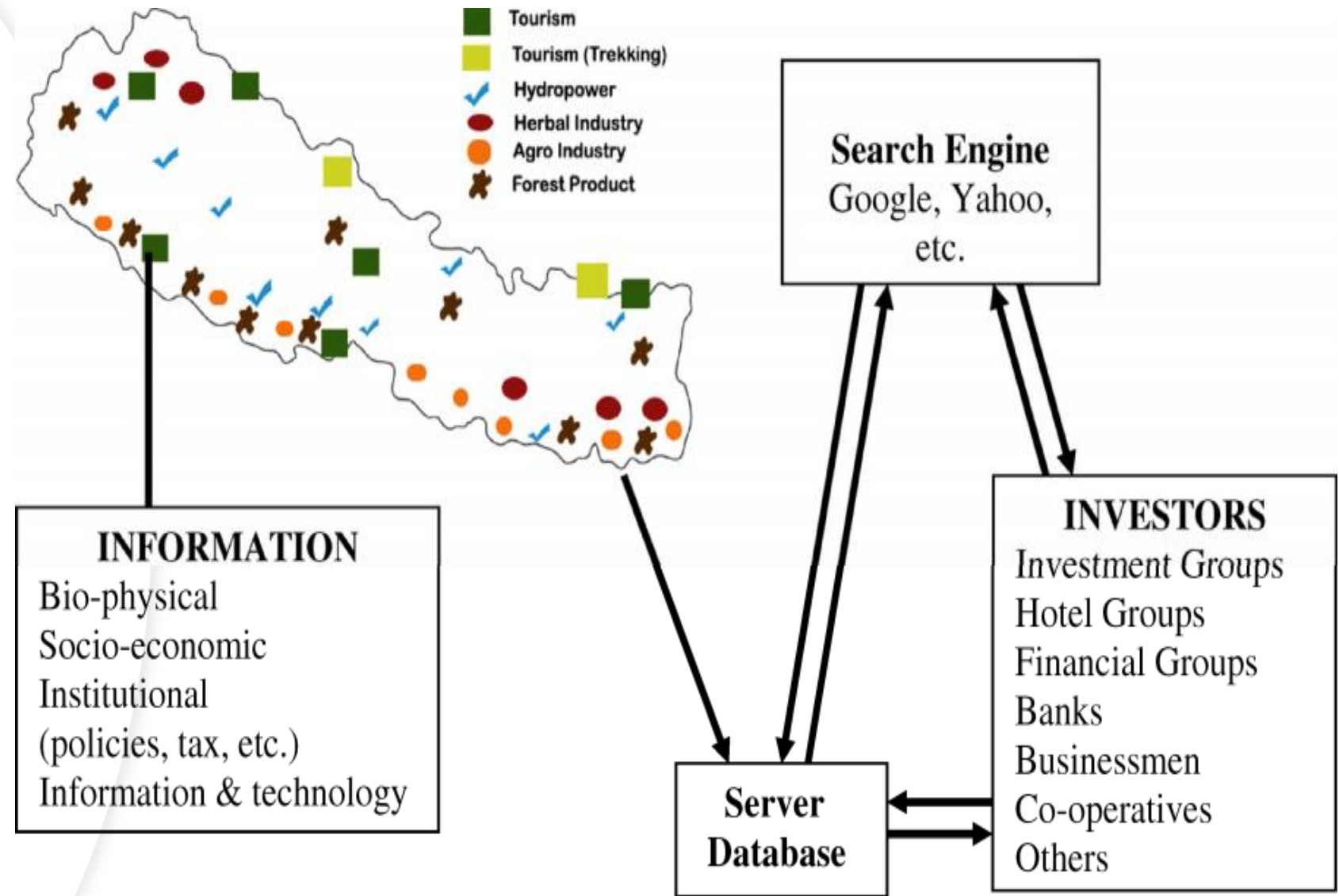
National Planning



The Asta-Ja Framework: Unifying Planning and Management Tool

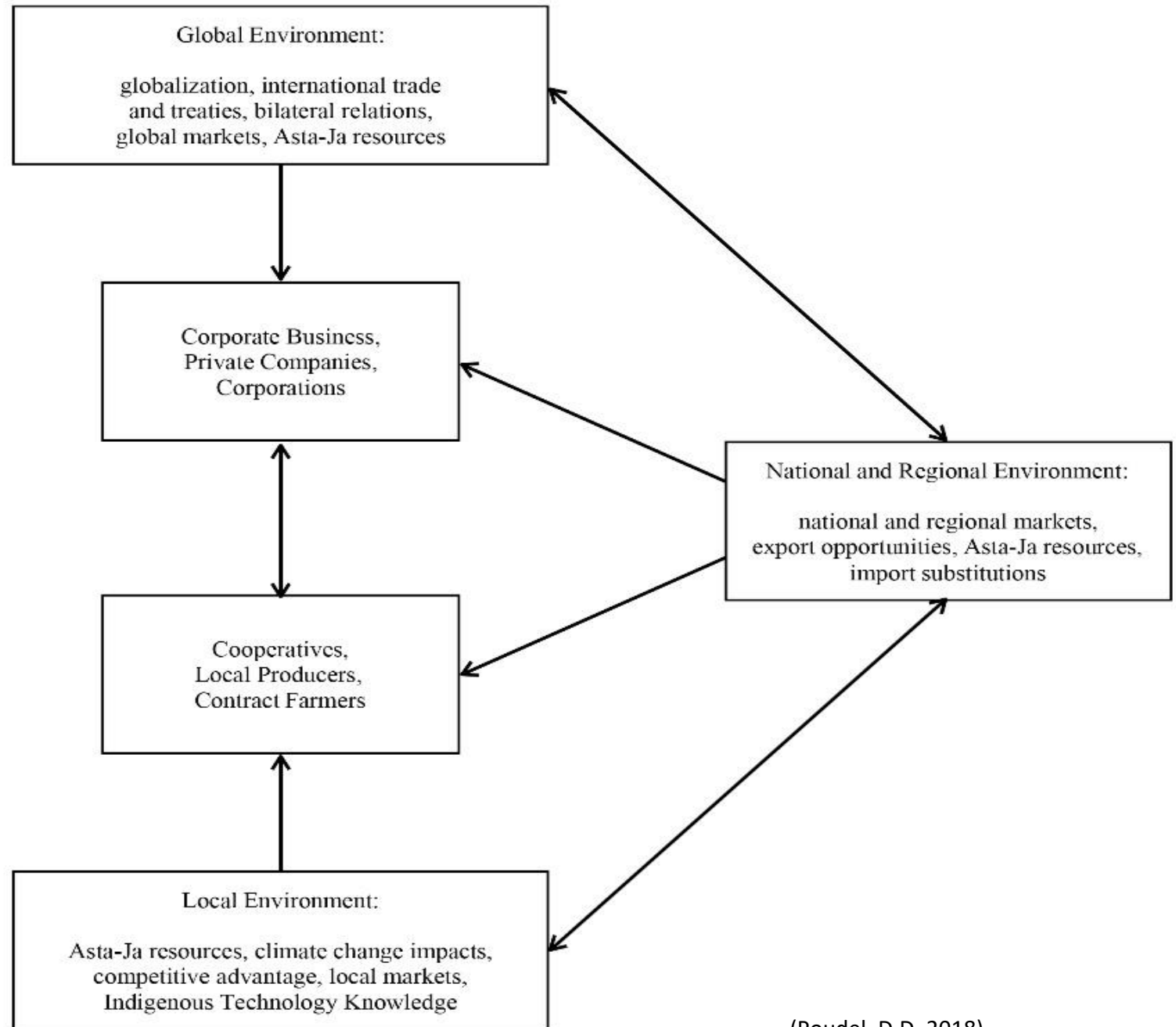


Investment on Asta-Ja



(Poudel, D.D. 2011)

Corporate Businesses and Cooperatives



(Poudel, D.D. 2018)

The Asta-Ja Framework in Nepali Language



प्रोफेसर डाक्टर दुर्गा दत्त पौडेलको जन्म तनहुँ जिल्लाको व्यास नगरपालिका सँगै छुँदुरमा सन् १९६० को अक्टोबर १० का दिन भएको हो । उहाँको वाल्यकाल तनहुँको छुँदुर तथा लमजुङको मध्यनेपाल नगरपालिका जिता देउरालीमा बितेको हो । प्रोफेसर पौडेलले सन् १९७७ मा तनहुँको दमौलीस्थित निर्मल व्यावसायिक माध्यमिक विद्यालयबाट एस्.एल.सी. परीक्षा पास गर्नुभएको हो र सन् १९८० मा त्रिभुवन विश्वविद्यालयको कृषि तथा पशु विज्ञान अध्ययन संस्थान रामपुर, चितवनबाट आई.एस्सी. पास गर्नु भएको हो । उहाँले सन् १९८७ मा पाकिस्तानको फैसलाबाद सहरमा स्थित युनिभर्सिटी अफ एग्रिकल्चर, फैसलाबादबाट बी.एस्सी. अनर्स कृषि (मेजर कृषि अर्थशास्त्र) को डिग्री लिनु भएको हो । उहाँले सन् १९९१ मा थाइल्यान्डको बैंकस्थित एसियन इन्स्टिच्युट अफ टेक्नोलोजी (ए.आई.टी) बाट एम.एस्सी. नेचुरल रिसोर्स डेभलपमेन्ट र म्यानेजमेन्टमा गर्नुभएको हो । प्रोफेसर पौडेलले सन् १९९८ मा अमेरिकाको जोर्जिया राज्यस्थित युनिभर्सिटी अफ जोर्जिया, एथेन्सबाट माटो विज्ञानमा पी.एच.डी. डिग्री लिनु भएको हो ।

प्रोफेसर डाक्टर पौडेलले सन् १९९१-१९९४ सम्म ताइवानस्थित एसियन भेजिटवल रिसर्च एन्ड डेभलपमेन्ट सेन्टर (ए.भी.आर.डी.सी.) मा रिसर्च फेलोको रूपमा काम गर्नुभयो । उहाँले सन् १९९४-१९९८ सम्म अमेरिकाको युनिभर्सिटी अफ जोर्जिया, एथेन्समा सस्टेनेबल एग्रिकल्चरल एन्ड न्याचुरल रिसोर्स म्यानेजमेन्ट कोलाबोरेटिभ रिसर्च सपोर्ट प्रोग्राममा ब्रह्मानुपट रिसर्च असिस्टेन्टको रूपमा काम गर्नुभयो । त्यस्तै, सन् १९९८-२००० सम्म उहाँले अमेरिकाको क्यालिफोर्निया राज्यस्थित युनिभर्सिटी अफ क्यालिफोर्निया डेभिसमा भिजिटिङ रिसर्च स्कुलको रूपमा काम गर्नुभयो । प्रोफेसर डाक्टर पौडेलले सन् २००० को अगस्ट महिनादेखि अमेरिकाको लुजियाना राज्यमा रहेको युनिभर्सिटी अफ लुजियाना एट लाफाएटमा असिस्टेन्ट प्रोफेसरको रूपमा प्राध्यापन कार्य सुरु गर्नुभयो । हाल उहाँ युनिभर्सिटी अफ लुजियाना एट लाफाएटको स्कुल अफ जियोसाइन्समा टेनुयर्ड प्रोफेसर हुनुहुन्छ ।

प्रोफेसर डाक्टर पौडेलले कृषि, माटो, पानी, वातावरण तथा जलवायु परिवर्तनका बारेमा विश्वका विभिन्न ठाउँहरू जस्तै फिलिपिन्स, मलेसिया, इन्डोनेसिया, थाइल्यान्ड, ताइवान, नेपाल तथा यू.एस्.ए.मा गहिरो अनुसन्धान गर्नु भएको छ । उहाँले विभिन्न देशहरूमा अर्थिक उन्नतिको बारेमा पनि शोधकार्य गर्नु भएको छ । उहाँको अनुसन्धानबाट निस्किएका सयौं शोधपत्रहरू अन्तर्राष्ट्रिय जर्नलमा प्रकाशित भएका छन् र तिनीहरू इन्टरनेटमा प्रजस्त पाइन्छन् ।

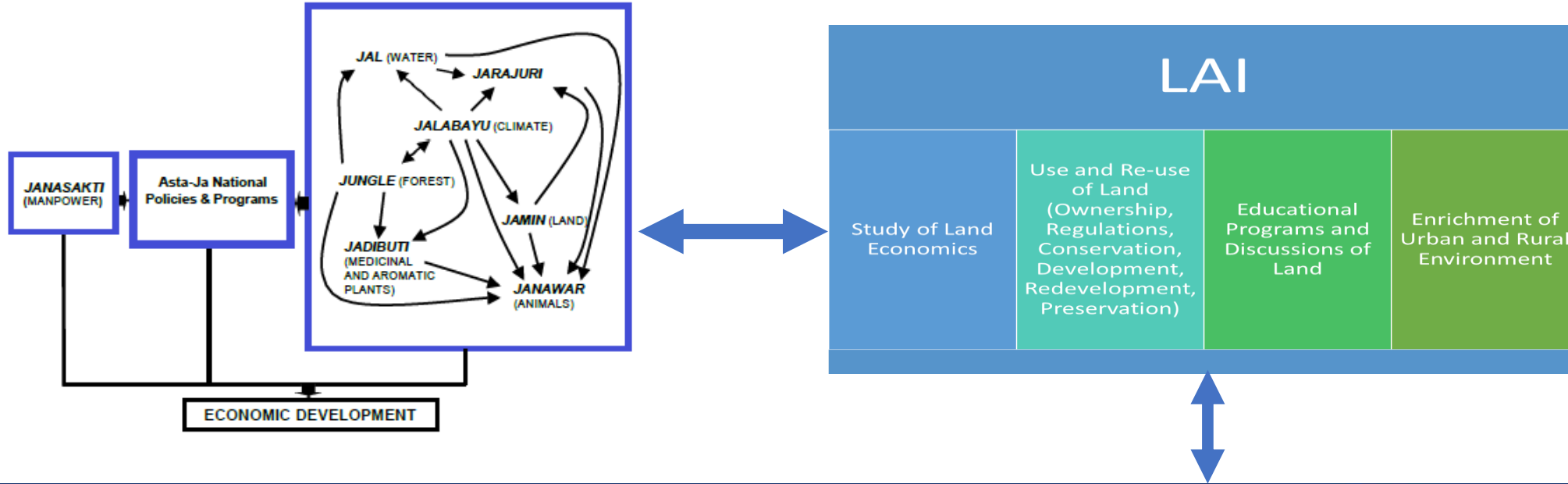
प्रोफेसर डाक्टर पौडेल “अष्ट-ज” अवधारणाको जन्मदाता हुनुहुन्छ । उहाँ “अष्ट-ज” अभियान नेपालको फाउन्डिङ एक्जिक्युटिभ मेम्बर हुनुहुन्छ भने “अष्ट-ज” इन्टरनेसनल कोअर्डिनेसन काउन्सिल (“अष्ट-ज” आईसीसी) को फाउन्डिङ कोअरडिनेटर हुनुहुन्छ । प्रोफेसर पौडेल “अष्ट-ज” रिसर्च एन्ड डेभलपमेन्ट सेन्टर (“अष्ट-ज” आर. डी. सी.) काठमाडौं, नेपाल एवं “अष्ट-ज” यू.एस्.ए. हनलुलु, हवाई यू.एस्.ए., को फाउन्डिङ प्रेसिडेन्ट हुनुहुन्छ । प्रोफेसर डाक्टर पौडेल, पौडेल वंश महासंघ नेपालको केन्द्रीय सदस्य हुनुहुन्छ । प्रोफेसर डाक्टर पौडेलले “अष्ट-ज” अवधारणाको आधारशीलामा रहेको नेपाल मिजन सन् २०४० अवधारणालाई पनि जन्म दिनुभएको छ । नेपाल मिजन सन् २०४० भनेको सन् २०४० सम्म नेपालको आर्थिक विकास विश्वका धनी राष्ट्रहरूको हाराहारीमा पुऱ्याउने हो । नेपाल मिजन सन् २०४० को साथकता हामी सम्पूर्ण नेपालीहरूको सामा लक्ष्य हो भन्दै प्रोफेसर पौडेल सम्पूर्ण नेपाली जनसमुदाय तथा नेपाल सरकारलाई यस देशको आर्थिक तथा सामाजिक रूपान्तरणको महा अभियानमा समावेश भई सक्रिय भूमिका खेल्न आह्वान गर्नुहुन्छ । “अष्ट-ज” को अवधारणालाई आधारशीला बनाई नेपाल मिजन सन् २०४० ले दिएको मार्गदर्शनलाई आत्मसात् गरी सन् २०४० सम्म नेपाल र नेपाली समाजको आर्थिक समन्तति विकसित राष्ट्र बराबर बनाउने लक्ष्य राख्दै नेपालीजनको शिर ठाडो पादै हाम्रो गौरवशाली इतिहास राष्ट्रिय एकता र राष्ट्रवादको जगेना एवं पोषण गर्नु नै हामी सम्पूर्ण नेपालीको आजको दायित्व हो भन्दै प्रोफेसर पौडेल आगामी दिनहरूमा सम्पूर्ण नेपालीहरूसँग राष्ट्र विकासमा एकजुट भई अगाडि बढ्न चाहनु हुन्छ ।

अष्ट-ज अवधारणा



प्रा. डा. दुर्गा दत्त पौडेल
“अष्ट-ज” अवधारणाका जन्मदाता

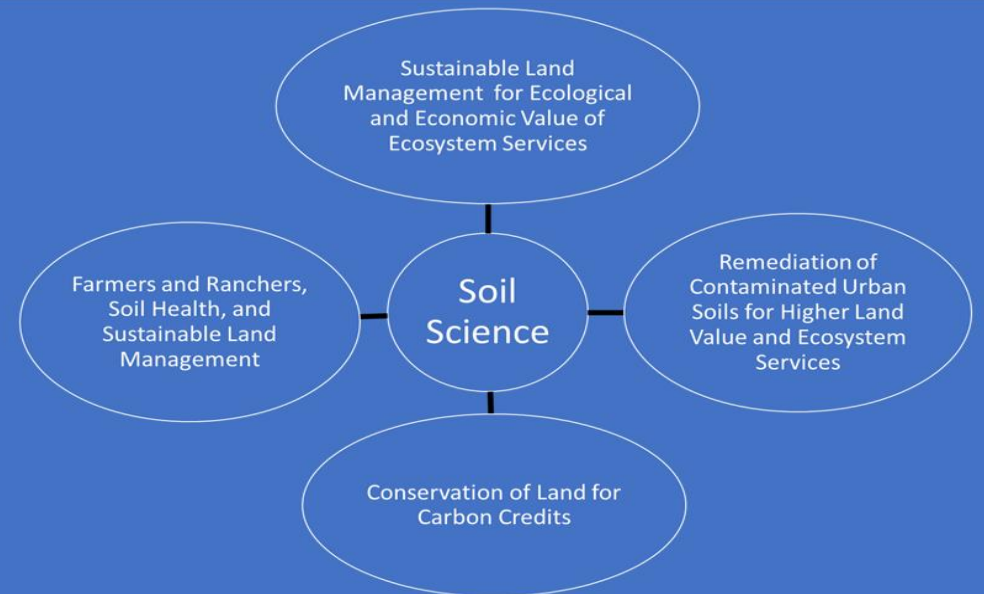
Asta-Ja, LAI, and Soil Science



Vertisols (Expansive soil)



A house built in expansive soils



Asta-Ja Partnerships





Summary and Conclusion

- The Asta-Ja Framework is a grassroots-based participatory and collaborative developmental approach empowering local communities, ensuring their equitable access to natural resources, and enhancing sustainable community development.
- The Asta-Ja Framework serves as an integrating and coordinating platform for fragmented programs in the country.
- The Asta-Ja Framework enhances ecological and environmental sustainability.

Nepal:
The Paradise of
the World





Asta-Ja offers infinite opportunities for prosperity, peace, harmony, and ecological and environmental sustainability

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International Journal of Environment and Sustainable Development
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Asian Profile
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Rivers Publisher

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Charles Reith, Ph.D., an ecologist with substantial experience in ecological restoration of distressed land and waters



Holly Elmore, Founder & CEO of Elemental Impact (Ei) (now Earth Impact)



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Thank you for your attention!