Collaborative Planning for Computer Science Activities and

Research in Gandaki Province

March 12, 2023

1 Introduction

2 Key Discussions

GPAST Interaction with StakeHolders

Title: Collaborative Planning for Computer Science Activities and Research in Gandaki Province

Major Agendas

1. Identifying Priority Areas
2. Develop a strategic Plan
3. Building research Capacity
4. Supporting Innovation
5. Foster Partnership/Entrepreneurship

Session 2 Outline

1 Introduction

2 Key Discussions
- Open Data Program
- Infrastructure Management Process
- Challenges with Smart Cities Initiatives
- Perceived Challenges to talent management in Service industry
- Challenges in Adoption of Cloud Computing in Government Systems
- Designing of Governance Indicators
- AI in Public Sector
- Business Development Challenges in Rural Municipalities
- Challenges in Community Managed Projects
- Research Core Facility

Sub-Session 2.1 Outline

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Open Data Program

Expectation

1. Availablity of data formats (csv, json, xlsx)
2. Meta-Data
3. API Functionality
4. DataSets

Challenges

1. Low Data Availability
2. Outdated DataSets
3. Limited API Functionalities
4. Proprietary Data Formats
5. Lack of Meta Data
6. Untidy DataSets

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Current Scenario

1. Government data is complex information that needs to be generated and exchanged. Difficulty is to streamline and coordinate these inter-dependent processes.
2. Governments have made significant investments in implementing software tools. Ironically it exacerbated the negative impact of process fragmentation by creating information gaps between the processes. Result: **Isolated Silos of Information** and **Data Fragmentation within and across departments**

Challenges

1. Assimilation of Multitude of data, processes and software systems.
2. Systematization and Coordination of Work Processes
3. Development of Centralized Shared Data Repositories based on Non-proprietary Integrated Data Models
4. Organization and Integration of Distributed Software Tools into a modular and Extensible Enterprise-wide Software Environment

Sub-Session 2.3 Outline

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Municipal Decision Makers' Perspective - Smart Cities

Driving Needs on Smart City

1. Growing Population
2. Trending Urbanization
3. Significant Environmental Concerns
4. Significant Social Concerns

Municipal Challenges with Smart Cities - Gandaki Province

1. Achieve a strategic alignment between the key stakeholders of smart city development: **People, Technology and Institutions**
2. Major Difficulties are: stakeholder and citizen participation (IBID), interoperability of systems, privacy and security concerns.

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Perceived Challenges to talent management in Service Industry

Current Status

1. Failure to retain key talent
2. Lack of employee recognition
3. Succession Planning and Management Problems
4. Sluggish Career Management Strategies

Possible Reasons

1. Pay Satisfaction
2. Turnover and Intention to turnover theories
3. Organizational Commitment
4. Employee Engagement and Motivation

Perceived Challenges to talent management in Service

Challenges and Opportunities

1. Higher Education in Computer Science
2. E-governance *(Accountability & Transparency)*
3. Job Market for CS graduates
4. IT Park

Sub-Session 2.5 Outline

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Challenges in Adoption of Cloud Computing in Government Systems

Challenges and Issues

1. Effective Network
2. Data Storage Location
3. Availability of Different Service Providers
4. Policy Makers
5. Limited understanding of the cloud and business transformation
   - 5.1 On-Demand Self Service
   - 5.2 Broad Network Access
   - 5.3 Resource Pooling
   - 5.4 Rapid Elasticity
   - 5.5 Measured Service

Sub-Session 2.6 Outline

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Sub-Session 2.10 Outline

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