

National Urban Digital Mission

Implementation of
National Urban Governance Platform (NUGP) and allied Municipal Services

Inviting participation by Industry for Empanelment with NIUA, for NUDM roll-out

30-09-2021



सत्यमेव जयते



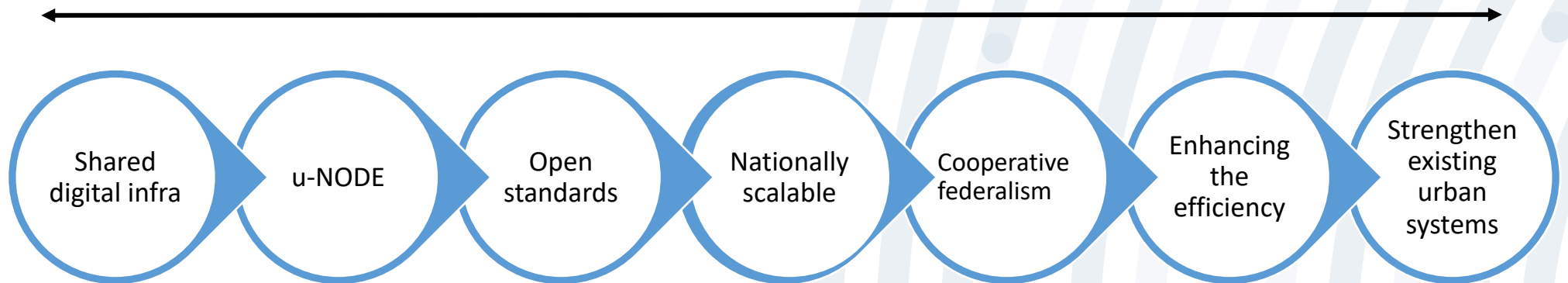
“To improve the ease of living for citizens by creating a national urban digital ecosystem that delivers accessible, inclusive, efficient and citizen centric governance in India’s 4400 towns and cities”.

Through a collaborative efforts of Centre & State Governance

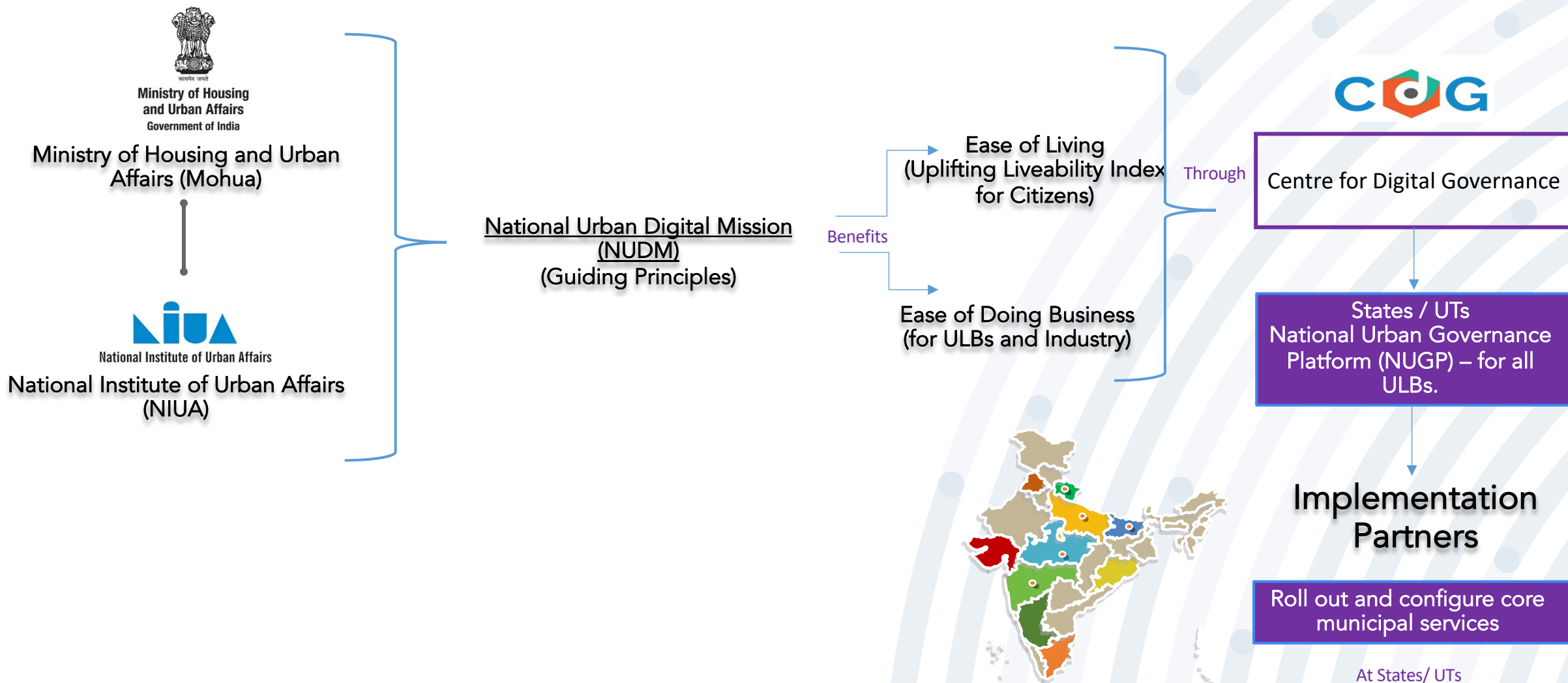


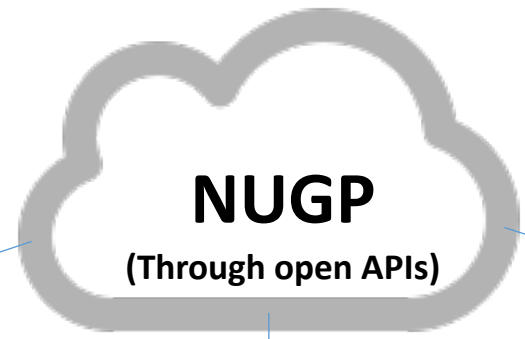
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Objectives: National Urban Digital Mission



NUDM Ecosystem





Option 1: Adopt centrally-hosted instance

Greenfield States/ UTs

Where,

1. Digital Systems do not exist;
2. Devoid of basic IT infrastructure for Governance

SaaS Model: Leverage Reference Municipal Modules with NUGP

Option 2: Create State instance

Brownfield States/ UTs

Where,

1. Experience in e-Governance systems (not implemented throughout the state);
2. In need of expanding State-wide portfolio

PaaS Model: Integration of existing Applications with systems within NUGP

Option 3: Compliance with standards

Matured States/ UTs

Where,

1. Existing e-Governance models across the region
2. Wish to upgrade the experience level keeping the core structure of operations unchanged

Adoption of NUGP standards and integrated reporting within NUDM

Revenue Earning Services



User Charges



Property Tax
Assessment &
Payment



Water & Sewerage
Connection &
payments



No Objection
Certificate
Issuance



Trade License
Issuance &
Payment



Online Building
Plan Approval

Monitoring & Other Basic Citizen Services



Birth & Death Registration

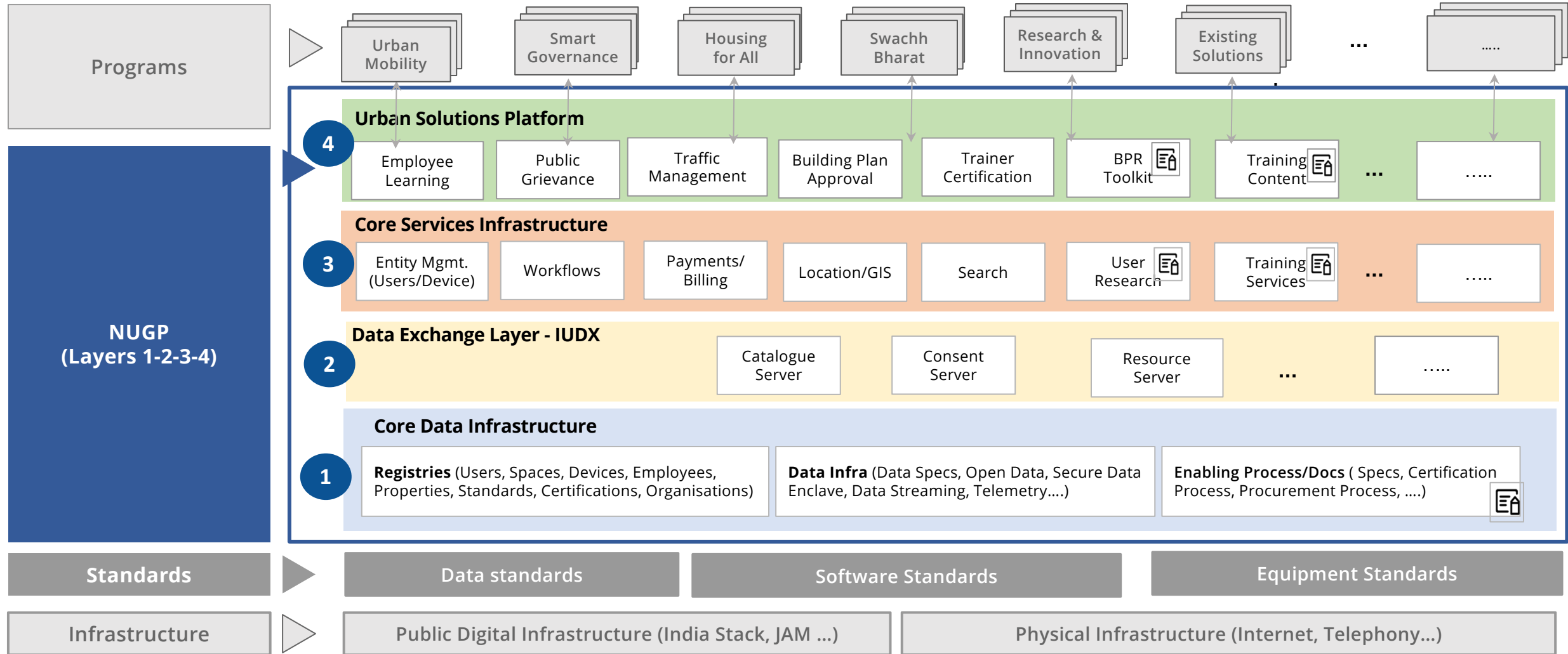


Citizens' Grievance
Redressal



NMAM Compliant
Municipal Accounting &
Finance

NUGP: Building Blocks – Layered Architecture



NUGP Implementation : Cost Drivers at State/ UTs

Scope of services: e-Governance at ULB

State will decide the number of ULBs vis a vis the number of services to be implemented. This will define the quantum of work.

Strategy: RFP by States referring the empanelled partners, effort estimation by the partners



Personnel Cost

State and ULB level Team based on the services to be implemented and the size of ULB.

Strategy: RFE Benchmarking



IT Infrastructure

ICT and Hardware requirements.

Strategy: CDG, Procured separately by State/ UT



Travel and Logistics

Initial state level training for representatives from all ULBs, and regular support with logistics as applicable.

Strategy: as per actuals



Monitoring and Evaluation Cost

Implementation Audit, Quarterly Audits, Reporting and Compliance.

Strategy: State Governance team, RFE Benchmarking



Capacity Building

- Helpdesk setup by the Implementation Partner
- L1 support to ULB teams.

Strategy: RFE Benchmarking, NULP



**COST
DRIVERS**

Roadmap of NUGP implementation



Central Empanelment of prospective Implementation Partners for NUDM implementation across ULBs in the participating States and UTs

The Empanelment will enable NUDM to catalyse:

- 1. Shortlisting** of pre-qualified partners to fast-track the man-power procurement at States/ UTs
- 2. Rate Card** discovery through the central empanelment will be the reference competitive rates for States / UTs
- 3. Quicker tendering** process at States/ UTs based on the QCBS criteria (State-defined)
- 4. Periodic updating** of the empanelment list based on PQ terms

The key points of eligibility for interaction with industry may include:

- a. Turnover:** INR ____, Average Annual Turnover from IT/ICT services/e-Governance services (excluding IT infrastructure, networking equipment, storage backup equipment, servers and other auxiliary infrastructure) during the last three financial years (FY 2018-19, 2019-20, 2020-21)
- b. Project Experience:** The Applicant should have an experience in India of IT implementation/ consulting of at least ____ projects for ULBs in any State/UT, ERP implementation in ULB/e-Governance projects in Urban sector/ULBs having minimum contract value of INR 75 Lacs for each project in the last 5 F.Y. ending March 31, 2021 for State / Central Governments as on bid submission date (Different slabs for Tier I, II & III as revealed from the activity)

- **Certification:** The Applicants should possess the following certifications, which are valid at the time of bidding:
 - i. ISO 9001:2008/ ISO 9001:2015 for Quality Management System
 - ii. ISO 20000:2011 for IT Service Management
 - iii. ISO 27001:2013 for Information Security Management System
- **CMMi certification:** Level 5 or Level 3
- The Applicant should have at least ____ (No.) of full time employees on the payroll of the Applicant, working in the Application/Software development/e-Governance business unit providing “IT / ICT services including post implementation support and operations” as on bid submission date.

Personnel Requirement – Benchmarked Basis RFE

S. No.	Position	Final Rate (Discovered)
1	Program Manager	
2	IT Business Analyst	
3	Solution Architect	
4	Full Stack & Application Developer	
5	DevOps & Cloud Monitoring	
6	Database Administrator	
7	IT Security and Audit Expert	
8	Help Desk and Support (internal and external purposes): Leader, Executive & on-ground support	
9	ULB onsite team: Manager	
10	ULB onsite team: IT engineer	
11	ULB onsite team: Data Entry Operator	
12	Capacity building and change management expert	

Tiers of Implementation Partners and Scope of Assignment

Tier	Broad Scope of the Assignment	Remark
I	State level engagement across all ULBs, Project Management and Integration of ULB level implementations, Interface with central instance, O&M	Objective: Fast tracking State-wide rollouts by adopting a parallel implementation approach by leveraging a combination of Tiers (based on the capabilities and expertise of partners) To be determined by the State /UT during RFP formulation process
II	Implementation & O&M at large ULB/ cluster of ULBs with population <= 20L	
III	Implementation & O&M at ULB/ cluster with population <= 5L MSME & Start-ups to be included here	

- **Applicable Standards & Guidelines:** <https://nudm.mohua.gov.in/standards/>,
<https://nudm.mohua.gov.in/resources/>
- **NUIS Digital Blueprint:**
https://smartnet.niua.org/sites/default/files/resources/digital_blueprint-digital-4.pdf
- **NUIS Strategy and Approach:**
https://smartnet.niua.org/sites/default/files/resources/nuis_master_doc_07.01.19_v5_0.pdf
- **REol document for selection of the NUGP partner**
<https://smartnet.niua.org/content/17e13518-7fa3-4731-8a77-f80a4f3c49ab>
- **Link to documentation of the base platform selected for NUGP** <https://docs.digit.org/>

Thank You

Backup Slides

Implementation Partner will broadly need following resources

Resource	Qualification/ Requirements
Project Manager	B.Tech / M/Tech / MBA (IT) / MCA: 10+ years of Project/Program management experience. Domain Knowledge on e-Governance is a big plus
IT Business Analysts	B.Tech / M/Tech / MBA (IT) / MCA: 8+ years of experience in electronic delivery of Services (G2C, G2G, G2B) creating a detailed business analysis, outlining problems, opportunities and solutions for a business, Budgeting and forecasting, Planning and monitoring, Financial modelling, Variance Analysis, Pricing, Reporting, Defining business requirements and reporting them
Solution Architect	B.Tech / M/Tech / MBA (IT) / MCA: Experience: > 8 years of IT solution design & architecture experience. Should have worked in Distributed computing, Java, API driven Development, RDBMS, Restful web services, Spring Framework, JavaScript, NodeJS, HTML 5 & micro-service architecture
Sr Software Engg 1	B.Tech / M/Tech / MBA (IT) / MCA: 8+ years of IT experience with skills such as Java, Core java, PostgreSQL, GIT, Linux, Kibana, Elasticsearch, JIRA - Incident management
Sr Software Engg 2	B.Tech / M/Tech / MBA (IT) / MCA: 8+ years of IT experience with skills such as JAVA, JQuery ,Hibernate, Spring JPA,REST API, Kafka, PostGres, Elastic Search

Resource	Qualification/ Requirements
DevOps Lead	5+ years of overall experience: Linux experience (RHEL/CentOS, Debian/Ubuntu, Core OS), managing AWS/Azure cloud instance, scripting skills (Bash, Python, Perl) with Automation., hands-on in Git/GitHub, Maven, DSN/Networking Fundamentals., knowledge of CI/CD Jenkins continuous integration tool, knowledge of infrastructure automation tools (Ansible, Terraform), hands-on experience with Docker containers including container management platforms like Kubernetes, hands-on in Web Servers (Apache/NGINX) and Application Servers (Jboss/Tomcat/Spring boot)
Database Administrator	B.Tech / M/Tech / MBA (IT) / MCA: Candidate with strong exposure to data migration and PostgreSQL with 5+ years of experience in migrating data between disparate systems. Hands-on experience with XLS and Macros
Help Desk Support Team	<ul style="list-style-type: none"> - BCom / MCom / Accounting Background - Knowledge of managing helpdesk, fluent in local language, good typing skills. - Strong process and application knowledge