

[Webinar 6: Understanding and Implementing IndEA Architecture in Smart Cities](#)

IndEA provides a generic framework consisting of a set of architecture reference models, which can be converted into a Whole-of-Government Architecture for India at the different scales of ministries, states and para-statal agencies etc. The IndEA framework recognizes the need to accommodate both greenfield(new) and brownfield(existing/legacy) eGovernance initiatives.

In this webinar, we focus on the methodology and scope of implementing the IndEA Architecture in the Smart Cities.

Speakers:

1. Mr. Rahul Kapoor – Director, Smart Cities Mission
2. Mr. Mr. Vinay Thakur - Chief Operating Officer, National eGovernance Division, MeITY

[Introduction- Rahul Kapoor, Director, Smart Cities, MoHUA](#)

- Mr. Rahul Kapoor shed light on the importance of India Enterprise Architecture in reducing redundancies, reducing cost of system development and integration through common architectural framework for all government data systems and enterprise systems.
- He added that India Enterprise architecture system tries to bring governance, processes and practices under one roof and highlighted projects done under India Enterprise Architecture

[India Enterprise Architecture for smart cities - Mr. Vinay Thakur](#)

- Mr. Vinay Thakur briefly introduced the 'India Enterprise Architecture for smart cities'.
- He spoke about the factors creating the need for enterprise architecture such as siloed systems, non-standard data, low system flexibility for quick changes, one citizen-multiple government experience etc. and added that holistic enterprise architecture led transformation is the approach for the future.
- He elaborated upon salient features of India Enterprise Architectural system such as insight, oversight and foresight through architectural thinking - sharing architecture best practices, enabling adoption of standards, accommodating greenfield and brownfield systems, capturing key architecture elements and their interrelationship, enabling governance through audits and guiding EA development.
- He highlighted past and future projects of IndEA and outlined the simplified view of One Govt Experience, which is the vision of IndEA. He further outlined the 10 principles that acts as guiding light for IndEA
- The Agile India framework was also introduced from the perspective of capability. The framework followed the approach of Identify-Define-Realise-Enhance to create Value.
- IndEA interventions like **Rationalized service portfolio**, **Business process Re-engineering**, **Data driven approach to integration**, **enable ecosystem for PPP service delivery** and **Target goals and KPI** like Simple list of relevant schemes and services, Simplified service delivery, privacy and security, Ease of Use and High availability and quick turnaround were also discussed.

- A vision for the future to integrate all smart city services on a single platform to provide personalized services to the citizens was also discussed

Webinar Questions & Answers *(All Questions Directed to Mr Vinay Thakur)*

Q1. How does IndEA framework coexist with the already implemented e-governance in the smart cities

Ans: There is always some scope for integration among different things that are part of different smart city systems. Example can be integration of APIs.

Q2. Do you think standardization of data before API integration will be useful?

Ans:

- Mapping of old standards to new standards can be done in a few cases, citing the example of the ministry of highways project where the problem was solved through a lookup mechanism to map the changes.
- In some cases, it is difficult to adhere to standards due to the situation created at the time of implementation.

Q3. Where does NeGD expertise come in handy?

Ans: NeGD provides support to central & state governments along with UTs, enables environment and provides funding support to pilot projects. It helps in capacity building and awareness and communication.

Q4. There are a lot of open API platforms available in the city, how do they interoperate in such a scenario?

Ans: NeGD and NIC have open API platforms and if there is some request then integration is done based on the situation. There is a need for multiple platforms and they should be integrated accordingly.

Q5. How can digital signatures requirements be incorporated in the IndEA framework?

Ans: Normally the systems come with digital signature mechanisms incorporated beforehand but, in some cases, it had to be incorporated to provide ease to people through e-signs. Moreover, e-signs have been integrated as part of many systems.

Q6. Can the IndEA be started with one service and then incrementally grown with requirements?

Ans: It can be done since it is agile and has been done before also. Sector by sector enterprise networks have been built in the past.

Q7. Three things that need to be done to align current systems deployed in smart cities over a period of time with the IndEA framework?

Ans:

- Data forms the baseline for re-engineering of the processes.

- Data should be used in such a manner that it can be updated with time and can provide decision making capability.

Q8. Standardizing privacy by design is tough in many domains. Any suggestion how to do it and make data standards which are privacy aware?

Ans:

- While designing the application security audit is done. One should follow the security principles in every case be it upgradation of the application.
- For privacy, NeGD is working on DigiLocker which is integrated with Aadhar