



REPUBLIC OF SOUTH AFRICA



सत्यमेव जयते
Government Of India

G20 Digital Public Infrastructure Learning Exchange

Overview

This trip will provide 25 South African government officials, members of the IDWG and stakeholders critical to Digital Public Infrastructure (DPI) with direct exposure to India's DPI journey. The objective is to have government to government exchange and to deliver practical insights into how India has effectively addressed key challenges in service delivery through DPI, which can inform South Africa's own digital transformation efforts as well as planning for G20 engagement in DPI. The trip will feature a blend of site visits, workshops, and discussions, all designed to inform and shape South Africa's roadmap for digital transformation and G20 efforts.

Objectives

- **Learn from India's approach:** understand the policies, strategies, technologies, and governance models India used to overcome challenges in service delivery.
- **Experience key digital platforms:** See firsthand how India implemented DPI and the use-cases that this infrastructure facilitates.
- **Refine South Africa's roadmap:** Contextualize learnings to South Africa's unique landscape to refine South Africa's roadmap for national digital transformation as well as potential linkages to the South Africa G20 initiatives such as the DPI Roadmap Playbook.

Day 1: December 1 (Sunday) – Arrival into Delhi

Time	Session	Location
TBD	Arrivals <ul style="list-style-type: none"> ● Logistical guidance upon arrival ● Facilitated by Gates Foundation, India Country Office (ICO) 	Taj Palace Hotel, New Delhi
TBD	Optional Dinner	Capital Kitchen, Taj Palace

Day 2: December 2 (Monday) - Delhi

Time	Session	Venue
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9.15 – 9:30	Logistics Orientation <ul style="list-style-type: none"> • Logistical guidance • Facilitated by Gates Foundation, India Country Office (ICO) 	Mumtaz Mahal Hall, Taj Palace
9.30-9.40	Welcome Remarks and Address <ul style="list-style-type: none"> • Archna Vyas, Director, Policy and Advocacy, Bill & Melinda Gates Foundation • Hari Menon, Director, India Country Office, Bill & Melinda Gates Foundation (virtual) 	
9.40-9.45	Context Setting Ambassador Prabhat Kumar, High Commissioner of India to South Africa	
9.45 –9.55	Keynote Address by Mr. S. Krishnan, Secretary, Ministry of Electronics and Information Technology (MeitY), Government of India	
9.55-10:05	Special Address Head of Delegation, South Africa, Ms. Nonkqubela Jordan-Dyani, Director General, Ministry of Communications, South Africa	
10..05-10.15	Coffee break	
10:15-12:40	Introduction: India’s Digital Public Infrastructure in Action <i>(Presentations followed by Q&A)</i>	
10:15-10:30	Introduction to DPI: Empowering India’s Digital Transformation and driving global digital economy -Mr. Sushil Pal, Joint Secretary (International Cooperation), MeitY	
10.30-10:50	Key role of NISG as PMC for digital solution implementation - Mr. Rajiv Bansal, Chief Executive Officer, National Institute of Smart Governance (NISG)	
10.50-11:05	Introduction to UPI, India’s Digital Payments System -Mr. Dilip Asbe , MD & CEO of National Payments Corporation of India (virtual)	
11:05-11.25	Introduction to AADHAAR, India’s Foundational ID System -Col Nikhil Sinha, Director-Enforcement, Unique Identification Authority of India (UIDAI)	
11.25-11:50	Introduction to DigiLocker, India’s Digital Wallet System - Mr. Nirmitt Mehrotra, Senior Business Analyst, National E-Governance Division, Ministry of Electronics and Information Technology (MeitY)	
11.50-12:05	Introduction to Bhaskaracharya National Institute for Space Applications and Geo-informatics (BISAG-N) by Dr. Vinay Thakur, Special Director General, BISAG-N and Mr. Kumar Sarthak, Project Manager, BISAG-N	
12.05-12.20	Introduction to Direct Benefit Transfers (DBT) - Mr Saurabh Tiwari, Joint Secretary (Direct Benefit Transfer), Cabinet Secretariat	
12.20-12.35	Introduction to Ayushman Bharat Digital Mission (ABDM) and other Digital Health Platforms - Mr. Kiran Gopal Vaska, Joint Secretary and Mission Director, ABDM, National Health Authority	
12.35-12.40	Summary by Mr. Sanket S Bhondve, Joint Secretary, Digital Governance, MeitY	
12:40-12:50	Closing Remarks by Mr. Dammu Ravi, Secretary, Economic Relations, Ministry of External Affairs	
12.50-13.00	Remarks by South African delegation	
13.00-13.30	Q & A	
13:30-14:30	Lunch	Taj Palace

14:30 – 15:30	<p>Knowledge Exchange: Government of South Africa G20 Vision and DPI Roadmap</p> <p>This time is allocated for GSA delegates to present the G20 DPI vision and objectives and engage in a knowledge exchange with Government of India officials and stakeholders.</p> <p>Facilitated by: Head of Delegation, South Africa, Ms. Nonkqubela Jordan-Dyani, Director General, Ministry of Communications</p> <p>Moderated by: David Porteous, Integral: Governance Solutions Matshidiso Masire, Bill & Melinda Gates Foundation</p>	Taj Palace
15:30-16:30	Government to Government Side Meetings	Taj Palace
16:30-16:45	Tea Break	Taj Palace
16:45-17:25	<p>Gati Shakti</p> <p>GatiShakti is a transformative approach for economic growth and sustainable development. Seven engines power the approach: Railways. Roads. Ports. Waterways, Airports, Mass Transport, Logistics Infrastructure. It is India's groundbreaking Geographic Information System (GIS)-based National Master Plan portal, that empowers public authorities across diverse Ministries and Departments to plan and share data through use of technology for speedier implementation. The innovative platform, developed by the BISAG institute, serves as a conduit for planning, synchronizing, and prioritizing government policies and agendas.</p> <p>Speakers: Mr. Anish Kumar, Advisor, Development Partnership Administration (DPA)-III, Ministry of External Affairs</p> <p>Dr Jivisha Joshi Gangopadhaya, Deputy Secretary, Department for Promotion of Industry and Internal Trade (DPIIT)</p> <p>Dr Vinay Thakur, Special Director General, Bhaskaracharya National Institute for Space Applications and Geo-informatics (BISAG-N)</p>	Taj Palace
17:25-18:00	<p>DPI Recap and Overview of Field Visit</p> <ul style="list-style-type: none"> • Aadhaar (India's foundational digital ID) • Quality of Financial Inclusion • Direct Benefit Transfers • Payments <p>Facilitated by: MSC (MicroSave Consulting) & Kanwal Singh, Bill & Melinda Gates Foundation</p>	Taj Palace
19:00	<p>Cocktail Social/Dinner Blu Bar</p> <ul style="list-style-type: none"> • Delegates from South Africa, India and the Gates Foundation socialize informally • Dinner 	<p>Blu Bar</p> <p>Taj Palace</p>

Day 3: December 3 (Tuesday) – Field Experiences followed by travel Delhi to Bangalore

Intended outcomes for the day:

- Gain a practical experience of how India's financial inclusion and social policies, infrastructure, and programs are implemented on the ground and impact people's lives.
- Experience how Aadhaar is used to provide financial services (bank account opening and payments) and delivery of free food grains under India's food security program

Time	Session	Venue
9:00-9:15	Boarding Bus & Departure <ul style="list-style-type: none"> • Begin bus boarding: 9:00 am • Bus departs at 9:15am 	Taj Palace
9:15 – 11:30 (including travel time)	Exposure Visit: Aadhaar Seva Kendra (ASK) <ul style="list-style-type: none"> • Deep Dive: India's Digital Public Infrastructure Aadhaar (India's foundational digital ID), and its use in social transfers and financial inclusion • Live demonstration of issuing new Aadhaar ID, updating Aadhaar etc. • This visit will be to an Aadhaar enrollment center. Participants will be able to observe how biometrics and demographic details are captured for enrolment, how they are updated, and the general functioning of the center. India Post Payments Bank Demonstration <ul style="list-style-type: none"> • Live demonstration of using Aadhaar avail financial services at the last mile; use to feature phones to make digital payments • The post woman/man will demonstrate at the ASK how she/he delivers financial services in remote area • Live demonstration of a Citizen Service Center and related services 	Aadhaar Seva Kendra (ASK), Dhaulakuan, Delhi
11:30 – 14:00 (including travel time)	Fair Price Shop <ul style="list-style-type: none"> • Live demonstration of using Aadhaar to deliver free food grains to food security program beneficiaries. • This visit will help participants to understand how digital ID is used in India to improve service delivery not just financial services Cash-In Cash-Out (CICO) and Payment Point Visit <ul style="list-style-type: none"> • Live demonstration of how agents facilitate cash-in, cash-out, balance enquiry, remittance, CSC transactions, and other financial services. Also witness how Unified Payment Interface (UPI) works • This visit will help participants understand various channels that facilitate quality financial services and payment for various types of users • We will divide the group into two and rotate them between these two points. 	Gurgaon
14:00 – 16:00 (includes travel and lunch)	Transfer to Airport, lunch and flight to Bangalore	Airport

Day 4: December 4 (Wednesday) – Bangalore Partner Ecosystem Day

Building DPI Thinking

Venue: [International Institute of Information Technology-Bangalore](#)¹

Intended outcomes for the day:

- Gain a practical know-how of the DPI approach, including Keynote by Nandan Nilekani
- Develop an understanding on thinking about payments and financial inclusion from the DPI perspective.
- Explore the various products and solutions offered by various partners.

Time	Session	Location
8:30 – 8:45	Boarding Bus & Departure <ul style="list-style-type: none"> • Begin bus boarding: 8:30 am • Bus departs at 8:45am 	Taj West End, Bangalore
8:45 – 10:15	<ul style="list-style-type: none"> • Travel to IIIT 	IIIT
10:35 – 10:45	Welcome and Introduction to IIT <ul style="list-style-type: none"> • Prof. Debabrata Das, Director – IIIT, Bangalore and Chairperson, MOSIP, OpenG2P, CDPI, and COSS 	Room R - 109 IIIT
10:45 – 11:35	India's digital transformation - The DPI way This presentation will explore how India's digital public infrastructure approach to digitisation has driven a decade of cross-sectoral transformative progress. We'll examine the ripple effects on the economy, including large-scale formalization, seamless access to digital transactions, and empowering small businesses and individuals. Remarks: Hari Menon, India Country Office Director, Bill & Melinda Gates Foundation Keynote: Nandan Nilekani, Founding Chairman, UIDAI	Room R - 109 IIIT
11:35 – 11:45	Overview of IIIT <ul style="list-style-type: none"> • Prof. S. Rajagopalan, President – MOSIP, OpenG2P, CDPI 	Room R - 109 IIIT
11:45 - 12:00	Tea Break	
12:00 – 13:00	Learnings from South Africa A panel discussion with experts from the South Africa delegation discussing South Africa's approach to digital transformation. The panelists will highlight the successes and pain points of the journey and what they hope to get from the visit. Moderators: Head of Delegation, South Africa, Ms. Nonkqubela Jordan-Dyani, Director General, Ministry of Communications, Deon Woods Bell, Bill & Melinda Gates Foundation	Room R - 109 IIIT

1. The International Institute of Information Technology Bangalore is a premier research Deemed university in Bangalore, India. The institute is a registered not-for-profit society funded jointly by the Government of Karnataka and the IT industry under a public-private partnership model.

Panelists: Representatives from OPP, MoF/Treasury, ICT, others

13:00 – 14:00	Lunch Buffet	
14:00 – 15:00	The Third Way - Imagining Governance of DPIs Governance of DPIs is the cornerstone of any robust and long-term roadmap of digital transformation. This session will explore India's unique approach to governance of DPIs and evolution of a new paradigm driven by citizen consent and privacy. Speaker: Rahul Mathan	Room R - 109 IIIT
15:00 – 16:00	Building a DPI-based Economy Understand how India's Account Aggregator system and consent-based sharing of financial data is empowering credit, including for small lending in the marginalized communities of the economy. Also, the new frontier concept of "Finternet" will be explored. Speaker: Nikhil Kumar, Co-Founder and Chief Evangelist, Setu	Room R - 109 IIIT
16:00 – 16:15	Tea Break	
16:15 – 17:15	OpenAgriNet: DPI for Agriculture OpenAgriNet is a global coalition of innovators, governments, and organizations committed to revolutionizing agriculture. OAN's mission is to support countries in transforming agriculture by leveraging digital public infrastructure for a smarter, more resilient agricultural future. OAN leverages some of the available DPG & AI building blocks to create DPI blocks for agriculture to enable discovery, access, contextualization, and ease of use. Speaker: Jagdish Babu, COSS	Room R - 109 IIIT
17:15-17:45	DPI for Public Financial Management, domestic revenue mobilization, and health: e-gov Foundation E-gov Foundation supports the DPI approach to expedite frictionless benefits delivery and augment government revenue through a combination of data exchange layer, granular data, Rules as Code, and unbundled shared components integrating with IFMIS. This session will also discuss the ways DPI benefits the health system. Speaker: Manish Srivastava, e-gov Foundation	Room R - 109 IIIT
17:45-18:45	Lessons in DPI led digital transformation The concept and understanding of Digital Public Infrastructure (DPI) have significantly evolved from when DPI was limited to ID, payments, and data. This session will guide the audience in understanding DPI through a lens that places individuals and businesses at the center. It will also examine the ongoing evolution of DPI, with a focus on two key building blocks: user-centric data sharing and credentialing, and open networks.	Room R - 109 IIIT

It will end with an open Q&A and experience sharing on best practices for architecting DPI building blocks.

Keynote: Pramod Varma (virtual)

19:30

Optional Informal Dinner – Loya – Taj West End, Bangalore

Day 5: December 5 (Thursday) – Bangalore - MOSIP, Women’s Economic Power and Safeguards

MOSIP—Core Component of DPI

Venue: International Institute of Information Technology-Bangalore -Bangalore

Intended outcomes for the day:

- Exposure to MOSIP’s vision, principles, country partnership approach and a gender intentional use case
- Understand MOSIP’s ongoing work with special focus on Africa and the project’s offering to countries
- Develop an understanding of the MOSIP platform and its capabilities in setting a robust, secure, and scalable national digital ID system
- Experience real life demonstration of digital ID and the power of solutions at the MOSIP Experience Centre.

Time	Session	Venue
8:30-10:00	Boarding Bus & Departure <ul style="list-style-type: none">• Begin bus boarding: 8:30 am• Bus departs at 8:45am, Travel to IIIT	IIIT
10:00-10:45	Championing DPI & Women’s Economic Power <p>Empowering rural women entrepreneurs with the knowledge, skills and access to digital tools, capital, and support to have more control over their personal and professional lives.</p> Keynote Speaker: Chetna Sinha, Mann Deshi, Founder-Chairperson	Room R - 109 IIIT
10:45 – 11:00	Identity for All: MOSIP's approach to ID as the foundational DPI <p>MOSIP has seen steady adoption across more than 25 countries with its modular, open source, robust, and scalable architecture. Hear from the MOSIP team about the idea behind the technology and MOSIP-based ID systems function as the foundational layer of the DPI approach and the data security features of MOSIP.</p> <p>Speakers: Nagarajan Santhanam, Chief Dissemination Officer, MOSIP</p>	Room R - 109 IIIT
11:00 – 11:45	ID as a flywheel of change <p>MOSIP’s theory of change is that foundational digital ID systems can act as a flywheel of change for societal digital transformation. This session will focus on explaining MOSIP’s conception of the idea and demonstrate how its offerings and products contribute to achieving this transformation. It will highlight the pivotal role of digital identity in enabling</p>	Room R - 109 IIIT

transformation, enhancing service delivery, and enabling secure eKYC, banking and other online services, through solutions like **eSignet**.

Speaker: Ramesh Narayanan, Chief Technology Officer, MOSIP

11:45 – 13:15	<p>Verifiable Credentials for a Trust based Digital Economy</p> <p>This session will explore a unique offering from the MOSIP team which helps in providing a comprehensive and trusted wallet-based solution to verifying paper and digital credentials.</p> <p>Built by the MOSIP team, Inji – a digital credentialing stack - empowers ID holders to securely store, share, and receive digital credentials, giving them a local and decentralised way to verify identity. It can be used to register for social benefits on government portals, open bank accounts, complete security checks at airports, and more. It paves the way for a more inclusive, accessible and digital future for all, by way of trusted identity authentication and secure data exchange, thereby broadening access to essential services.</p> <p>Speaker: Sasikumar Ganesan, Head – Engineering, MOSIP</p>	Room R - 109 IIIT
13:15 – 14:15	Lunch	IIIT
14:15 – 15:15	<p>G2P Transfers for Development</p> <p>This session explores the benefits of combining the power of DPI thinking with existing DPGs to develop robust and scalable social benefits delivery systems.</p> <p>Speaker: Puneet Joshi, CTO - OpenG2P</p>	Room R - 109 IIIT
15:15-16:00	<p>A DPI Safeguards Discussion</p> <p>This session brings together experts from policy and technology to explore and understand the ongoing discourse around DPI safeguards and discuss ways in which these safeguards can be integrated into solutions for DPI, including discussion of the UN DPI Safeguards initiative and local efforts.</p> <p>Speakers: Sarayu Natarajan, Aapti Institute, Sanjay Purohit, Centre for Exponential Change</p>	MEC - IIITB
16:00 – 17:00	<p>MEC Visit</p> <p>MOSIP Experience Centre (MEC) provides a first-hand experience to participants about ID issuance and its uses. Through carefully designed financial inclusion use-case MEC provides a holistic view of ID-led development.</p> <ul style="list-style-type: none"> • Experience developed by the MOSIP Team 	MEC – IIITB
17:00	Board Bus for Hotel (Estimated Transit time: 90 min)	IIIT
17:30	Travel and Dinner at 46 Ounces	46 Ounces, Bangalore

Day 6: December 6 (Friday) – Bangalore

Intended outcome for the day:

- Discuss and present key learnings and answer any key questions from the week’s sessions and consultations with ecosystem partners
- The South African delegation will use this working day to finalize the SA DPI roadmap and G20 vision

Time	Session	Venue
8:00- 0830 AM	Boarding Bus & Departure <ul style="list-style-type: none"> • Begin bus boarding: 8:00 am • Bus departs at 8:30am, Travel to ITC Gardenia 	ITC Gardenia

Time	Session	Venue
9:00 – 9:30	Keynote Remarks from Sanjay Jain, Director, DPI, Bill & Melinda Gates Foundation <ul style="list-style-type: none"> • Overview and priorities of the Gates Foundation DPI program 	Magnolia Hall ITC Gardenia, Bangalore

9:30 – 10:30	Workshop Key Learnings and Key Action Points <ul style="list-style-type: none"> • Debrief to summarize, discuss, assimilate, and summarize the key learnings and unanswered questions • Q &A with partners MSC, CDPI, COSS, MOSIP, DIAL • Facilitated by Deon Woods Bell, Bill & Melinda Gates Foundation, David Porteous, Integral: Governance Solutions, other colleagues TBD 	Magnolia Hall ITC Gardenia, Bangalore
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10:30 – 10:45	Tea Break	
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10:45 – 13:00 (partners depart at 11:45am for Gates Foundation GSA closed session regarding next steps)	Discussion of GSA DPI Strategy and Next Steps with Gates Foundation Director and Staff <ul style="list-style-type: none"> • GSA delegates to present and discuss key learnings implications for the DPI roadmap • Q &A with partners MSC, CDPI, COSS, MOSIP, DIAL • Led by the Head of Delegation, Government of South Africa, with input from all Intergovernmental Working Group Colleagues • Facilitated by Deon Woods Bell, Bill & Melinda Gates Foundation, David Porteous, Integral: Governance Solutions, other colleagues TBD 	Magnolia Hall ITC Gardenia, Bangalore
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13:00 – 14:00	Lunch	Magnolia Hall ITC Gardenia, Bangalore
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14:00-3:30	Working Sessions to Finalize Roadmap	Magnolia Hall ITC Gardenia, Bangalore
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Afternoon/Evening	TBD Meeting with AfCFTA Secretary General, H.E. Wamkele Mene flexible time and dinner	Location TBD Orion Mall, Bangalore
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Day 7: December 7 (Saturday) – Departures to South Africa

Time	Session	Venue
TBD	• Departures	

About the Organizers

Gates Foundation

The Gates Foundation is a non-profit fighting poverty, disease, and inequity around the world. Guided by the belief that every life has equal value, the foundation works to help all people lead healthy, productive lives. In developing countries, the foundation focuses on improving people's health and giving them the chance to lift themselves out of hunger and extreme poverty. In the United States, it seeks to ensure that all people – especially those with the fewest resources – have access to the opportunities they need to succeed in school and life.

Based in Seattle, Washington, the foundation is led by CEO Mark Suzman, under the direction of Bill Gates and the board of trustees. The foundation offices are in Washington D.C., London, Berlin, Beijing, Abuja, Nairobi, Addis Ababa, Johannesburg, Dakar and Delhi.

IIIT-Bangalore

IIIT-Bangalore is a premier educational institute, located in the heart of Electronic City, Bangalore, India. Focused on Post-Graduate IT education and research, it contains state-of-the-art infrastructure, world-class faculty, a vibrant alumni community, cutting-edge research facilities, and close industry collaborations.

The institute's specially designed courses ensure that students are cognizant of current technologies and practices, thereby equipping them with the tools and knowledge to solve real-world, contemporary problems. Since the founding of the institute in 1999, IIIT Bangalore has enjoyed 100% placement every year, on account of the strong support of the industry and the growing base of talented alumni.

MOSIP

MOSIP (Modular Open-Source Identification Platform) was incubated at IIIT Bangalore as a global digital public good. The platform's modular architecture, easy configuration, and customization abilities, enable countries the flexibility to build their foundational digital ID systems in a cost-effective manner.

MOSIP is built on a strong bedrock of principles for security and privacy. The use of open standards and open-source code ensures that MOSIP is agnostic to specific applications, programming languages, and platforms, and actively works towards avoiding vendor lock-in.

Funded by the Bill & Melinda Gates' Foundation, NORAD, and Pratiksha Trust, the platform is currently in various stages of adoption in over 21 countries across Africa, Southeast Asia, and Latin America.

MicroSave Consulting

MicroSave Consulting (MSC) or MSC India Consulting Private Limited is a boutique consulting firm that has, for 25 years, pushed the world towards meaningful financial, social, and economic inclusion. With over 200 staff of different nationalities and varied expertise, they work in over 68 developing countries in the fields of financial services, enterprise, agriculture and health ecosystems.

Centre for Digital Public Infrastructure (CDPI)

CDPI is a pro bono tech architecture advisory team housed at an academic institute - the International Institute of Information Technology, Bengaluru. We are a global team spread across South America, Asia, Africa and Europe.

To date, CDPI has collaborated with 40+ countries, with 12 of them actively co-creating pilot projects.

The Centre for Open Societal Systems (COSS)

COSS drives global societal transformation by facilitating countries to develop their Digital Public Infrastructure and crafting compelling change narratives for adoption of Digital Public Goods to create impact at scale. Their mission is to drive global societal transformation with DPI and aim to improve the lives of 1 billion people globally by 2030 through adoption of Digital Public Goods (DPGs).