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Q2

What is the status of digitalization in the Indian economy? Examine the problems faced in this regard and suggest improvements.

UPSC Civil Services Mains 2023 · GS III · 10 marks · Indian Economy

Indian Economy and issues relating to planning, mobilization of resources, growth, development and employment.

Core demand of the question

- State the status of digitalization in the Indian economy
- **Examine problems:** access, fraud, privacy, platforms, MSME gap
- Suggest improvements, including Unified Payments Interface, **Aadhaar**, Open Network for Digital Commerce, and the **Digital Personal Data Protection Act 2023**

Revision summary

Digitalization in India is furthest in identity, payments and tax, led by **Aadhaar**, **UPI** and **GSTN**.

ONDC is the public attempt to open digital commerce to small sellers.

The **Digital Personal Data Protection Act 2023** is the first full Union data law.

Problems are the access gap, payment fraud, weak privacy practice, and a few private platforms.

Improvements are last-mile connectivity, DPDP enforcement, **ONDC**, and cyber capacity without killing cheap **UPI**.

Introduction

Digitalization here means payments, identity, tax, commerce and public services moving onto electronic rails. India built a public stack - **Aadhaar**, **Unified Payments Interface (UPI)**, **Goods and Services Tax Network** - that is now used at national scale. The status is strong on rails and uneven on **who is on those rails**, and on **who holds the data**.

Body

Status

- **Aadhaar** covers almost the resident population and underpins Direct Benefit Transfer, e-KYC and many welfare payments.
- **UPI** has made real-time, low-cost person-to-merchant payments ordinary, including in small shops, and is among the world's largest instant-payment systems by volume.
- **GSTN**, **e-way bills**, **FASTag**, **DigiLocker**, **CoWIN** and digital land and court pilots show the State itself running on software.
- **Open Network for Digital Commerce (ONDC)** is a public protocol meant to let small sellers meet buyers without one private app owning the market.

- The **Digital Personal Data Protection Act, 2023** is the first comprehensive Union law on personal data, consent, and duties of data fiduciaries.

Problems

- **Access:** cheap data is wide; cheap smartphones, language, and last-mile **BharatNet** quality are not even. Women and older rural users lag.
- **Fraud and cybercrime:** **UPI** and KYC scams, SIM swaps, and phishing rose with volume.
- **Privacy and profiling:** **Aadhaar**-seeded databases and private apps collect more than a payment needs; rules under the 2023 Act were still to be tested in use.
- **Platform concentration:** a few apps still set price and visibility in retail, mobility and food, which **ONDC** is meant to loosen.
- **MSME and farm gap:** many units still invoice on paper; digital tax compliance is a cost, not a market.

Improvements

- Finish **last-mile fibre and 4G/5G** and treat digital literacy as a public skill, not a brochure.
- **Notify and enforce DPDP rules:** purpose limitation, breach notice, and penalties that bite large fiduciaries.
- Use **ONDC** and open APIs so MSMEs sell without paying a private gatekeeper.
- Strengthen **cyber police, CERT-In and RBI fraud controls** without choking **UPI**'s low cost.
- Keep **Aadhaar** as identity, not as a surveillance key for every private database.

Flow diagram

Public digital stack -> Aadhaar identity
 Public digital stack -> UPI payments
 Public digital stack -> GSTN tax
 Public digital stack -> ONDC commerce
 Aadhaar identity -> Problems access fraud privacy
 UPI payments -> Problems access fraud privacy
 Problems access fraud privacy -> DPDP literacy last mile
 ONDC commerce -> DPDP literacy last mile

Conclusion

India's digital status is a public-stack success in payments and identity, and an unfinished project in inclusion, privacy and fair commerce. **UPI** and **Aadhaar** must sit with DPDP enforcement and **ONDC** access, or volume will keep outrunning trust.

Facts & figures

UPI

Unified Payments Interface: NPCI real-time payment rail; volumes run in the billions of transactions a month.

Aadhaar

Unique identity for residents; the base for much Direct Benefit Transfer and e-KYC.

ONDC

Open Network for Digital Commerce: protocol so buyers and sellers meet across apps, not inside one store.

DPDP Act 2023

Digital Personal Data Protection Act: consent, fiduciary duties, and penalties for misuse of personal data.

GSTN

Goods and Services Tax Network: the tax backbone that made e-invoicing and e-way bills possible.

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