

Data Centered Healthcare

# **Cyber Security and Data Protection**

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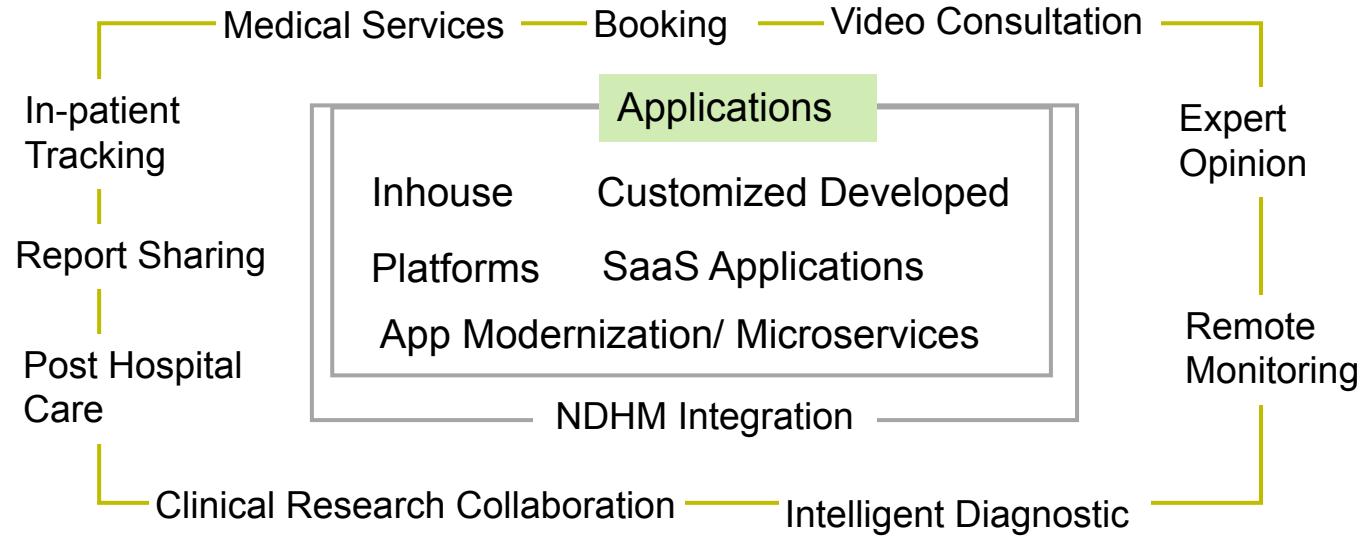
CEO, Data Security Council of India

**Digitization**

Experience

Productivity

Possibility



*Rising Quantum & Complexity of Data*

*Volume & Velocity of Dev/Deploy..ment*

*Heterogeneous Devices*

*Cloud Dependencies*

*Data Flows & Exchanges*

**Data Enriched**  
Products &  
Services

Design for  
**Mobility &  
Devices**

**Open Data**  
Ecosystem

**Interfaces, APIs,** 3rd  
Parties

**Microservices/**  
Cloud  
Architectures

**Platformization**  
of Technology &  
Business

**Event Driven**  
Architecture



Historical Data

Tagging Storing **Medical Records** EMR

Data You **Have**



Demographics

[Name, Age, Gender, Contact, Address]

Data You **Collect**

(Account Opening)



Identifier

[AADHAAR, UHID]

Data You're **required to Collect**

(Core Service/ KYC)



Health Records

[Reports, Scan, Past Treatment]

Data You **Receive & Share**

(Partners)



Enrichment

[Location, Sensory, Telemetry]

Data You **Get**

(Enrichment)



Transaction Generated

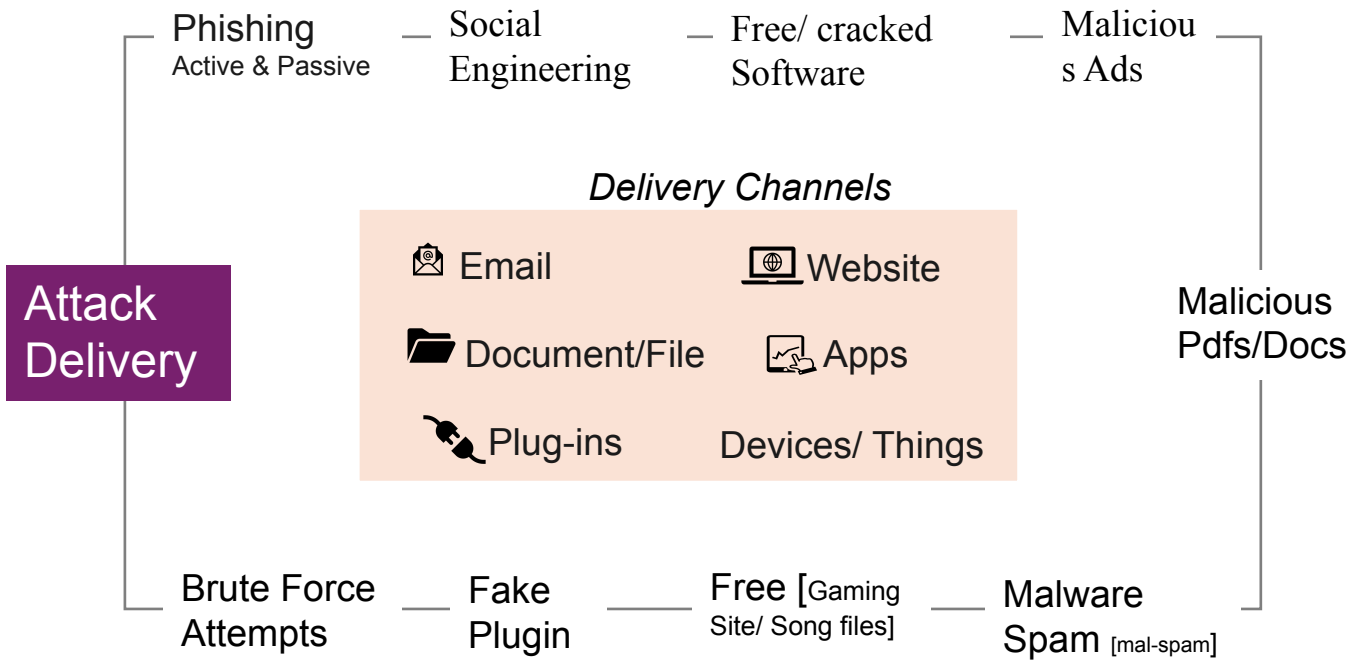
[Consultation, Treatment, Monitoring]

Data You **Generate**

(Transaction)

(Historical

# Security Attacks, especially Ransomware



**Advancements**

Simultaneous (Faster) Execution      Botnet Malware Delivery      Command & Control Centre

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Encrypt Important File/ Entire Media      Limit/ Restrict Access to Data      Network Unavailability      Data Exfiltration

**Data Deletion/ Disclosure      Demeaning Organization**

← **Exploiting** →

- Digital footprint
- Loopholes in Transaction Processing
- Varied Level of Awareness

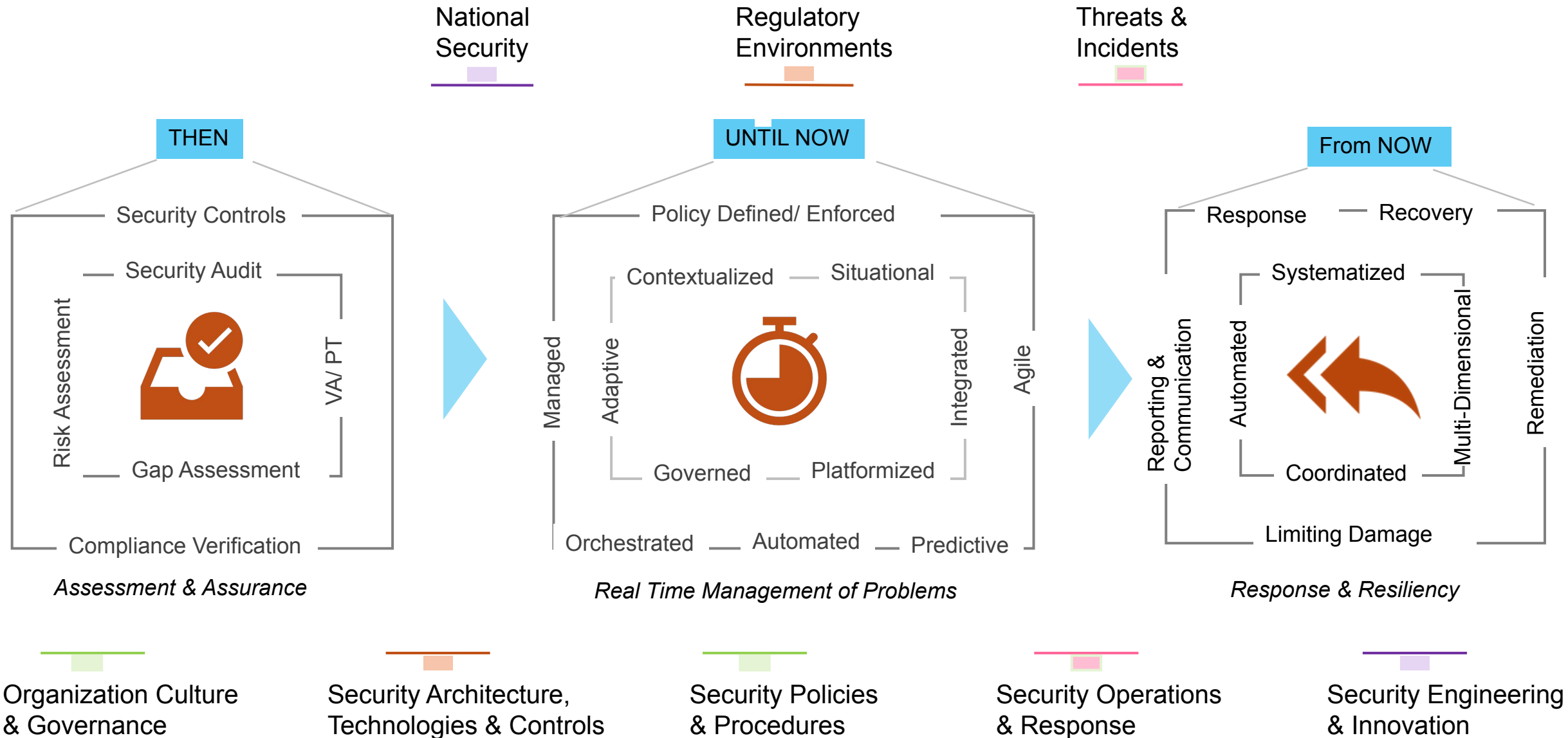
← **Leveraging** →

- Connectivity, Devices & Platforms
- New Instruments [Crypto, NFTs, etc.]
- Dark Web/ Deep Web

← **Generative AI** →

- Gathering Footprint & carrying Recon
- Finding Weakness & Vulnerabilities
- Coding Malware Payload

# Security: Managing Problem Real Time Basis & Responding Better



# DPDP Act: Challenges and Response

## Challenges

- Applicability & Directions
- Quantum & Complexity
- Specifics are Important
- Extension & Coverage
- Predictability & Clarity
- Cultures & Behaviours
- Due Diligence
- Compliance Demonstration

### DPDP Act, 2023

- Privacy Fundamental Right
- Principles & Rules
- Conditions of Legality of Data Processing
- Content Principles
- Procedural Norms/ Obligations
- Outcome/ Breach Liability
- Breach Reporting
- Grievance Redressal
- Regulatory Architecture

## Response

- Comprehension & Contextualization
- Sense of Privacy
- Commitment
- Ethics & Moral Questioning
- Governance
- Design Overhaul
- Participation & Engagement
- Process Revitalization
- Ownership
- Compliance Culture
- Detection, Response & Reporting
- Crises Handling

# DPDP Act: Challenges and Response

## DF/ SDF

Legal Obligations & Liabilities [Direct]	Primary Ownership	Grounds of Processing	Record of Processing	User Centric Privacy Obligations	SAR Requests
Retention	DP Audit	DPIA	Due Diligence Demonstration	Breach Reporting	Grievance Addressal

## DPO

Appointed by the Significant Data Fiduciary[SDF]

<b>Represent</b> Data Controller or Fiduciary	<b>Responsible</b> to the Board of Directors or Similar Governing Body	<b>Point of Contact</b> for the grievance redressal
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Strategy	Policy & Processes	Legal	Governance	Compliance	Architectural	Technical
Procedures & Standards	Training & Awareness	Communication & Collaboration	Customer Handling			