



Data Protection

Data protection overview

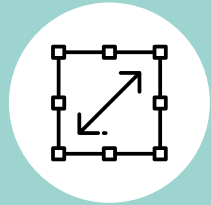
With emerging threats to an enterprise's operational business environment, data confidentiality, integrity and availability is at significant risk and requires protection. Hence, it is imminent for an organisation to adopt robust data protection platforms and landscapes aligned to business operations and requirements



Key business challenges

Over the last three years, renowned organisations were imposed with financial penalties beyond 100 million. The cost to organisations comes at each stage of the incident response lifecycle; detection, notification, post response and the cost of business.

- 52% of data breaches reported were through theft and loss of information due to lack of sufficient data protection
- 50% of these data compromised due to breaches were Personally Identifiable Information (PII), and 38% credential data
- 30% of data breaches were through an insider leak and 25% through hacking and malware sources.



Extended organisation's blurred environment

Extended and blurred organisational environment that have hybrid cloud ecosystem or third-party vendor environment



Business As Usual (BAU) Isolated technology deployment

Sub optimal operation of business with technologies working in isolation



Emerging compliance regulatory requirements obligations

Regulatory requirements for data protection:

- **GDPR**- Articles 83 and 84
- **PDPB** Sections 57-61
- **CCPA**- Section 1798.155



Emerging potential threat landscape

Internal and external threats:

- Social engineering
- DDoS attacks
- Unauthorised data sharing outside organisation

Source: 1. <https://www.marketsandmarkets.com/Market-Reports/data-protection-market-214254944.html>
2. <https://www.cisomag.com/6-times-data-regulators-churned-out-high-penalties-in-2019/>

3-<https://www.trendmicro.com/vinfo/us/security/definition/data-breach>

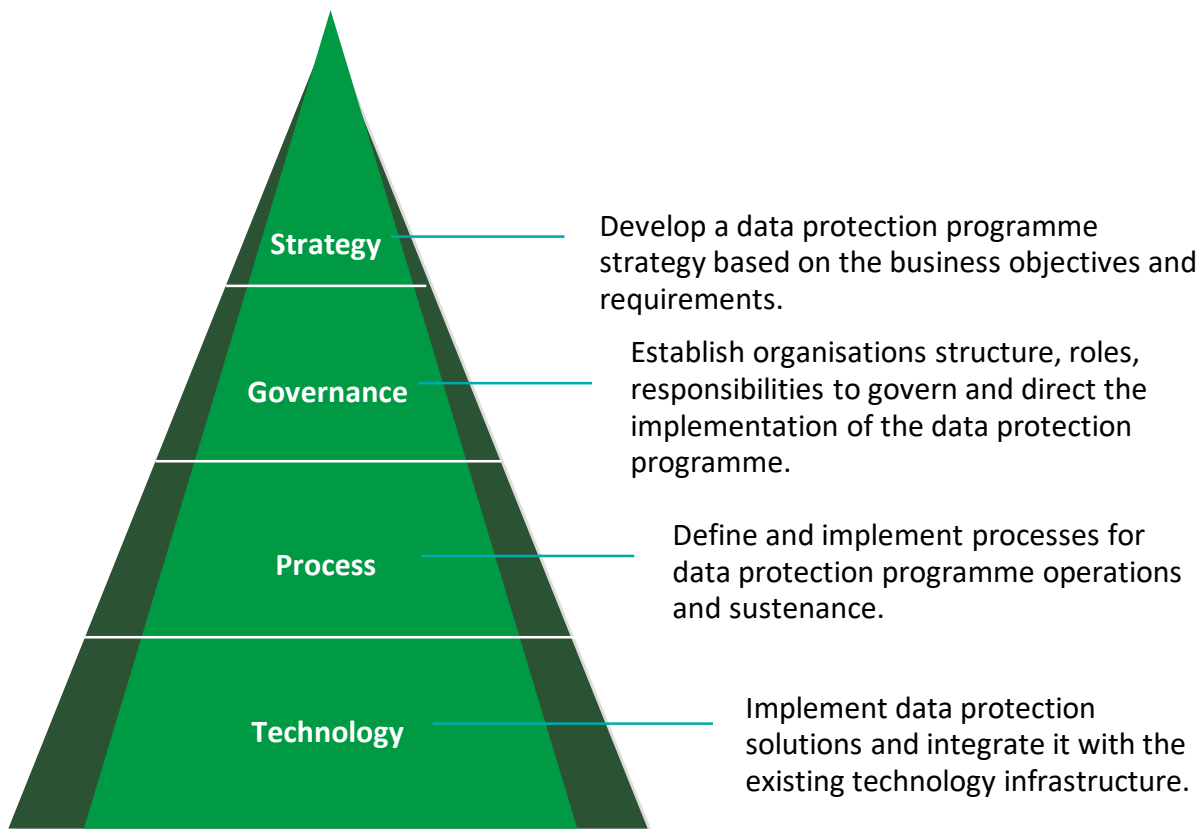
4. <https://cdn2.hubspot.net/hubfs/468115/Campaigns/2017-Ponemon-Report/2017-ponemon-report-key-findings.pdf>

Data protection overview and key driving factors

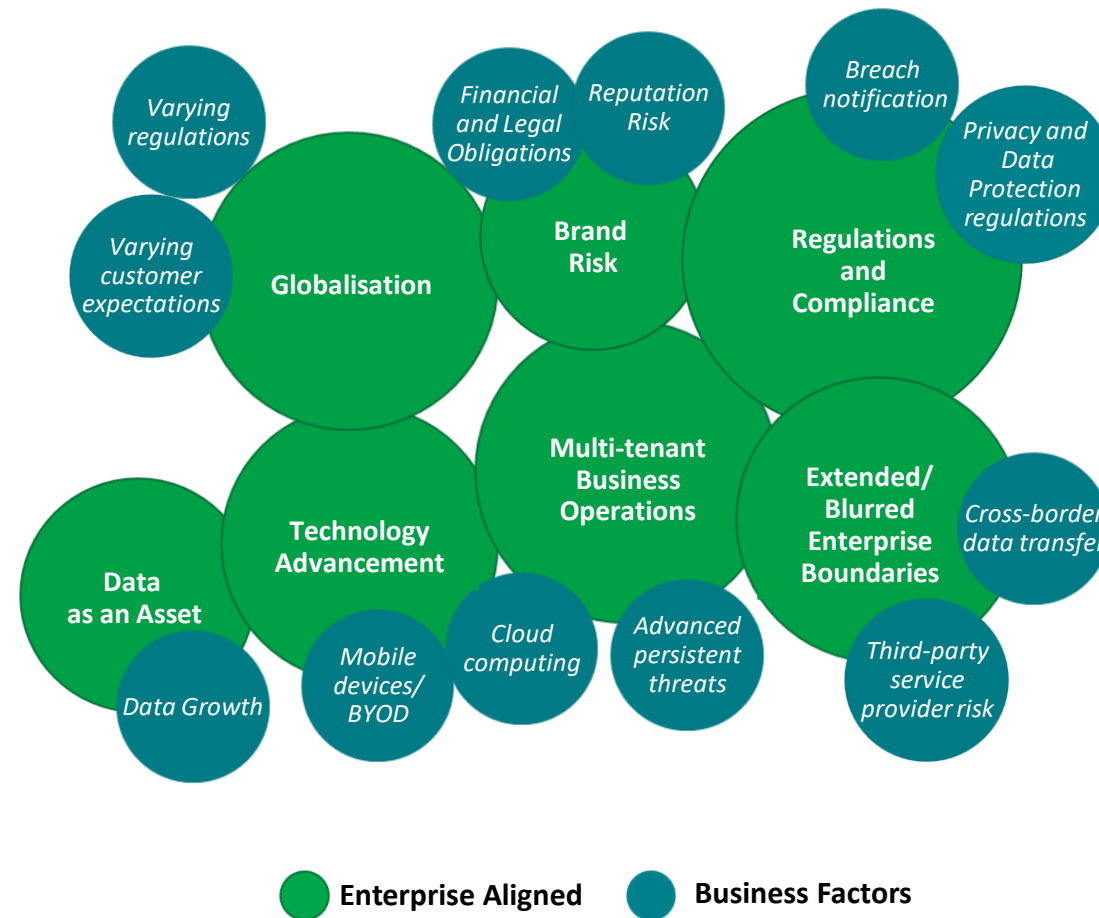
Managing data protection involves establishing an organisation-wide programme, governance mechanisms, and implementing processes and technology for the protection of sensitive and confidential information



Managing data protection scope



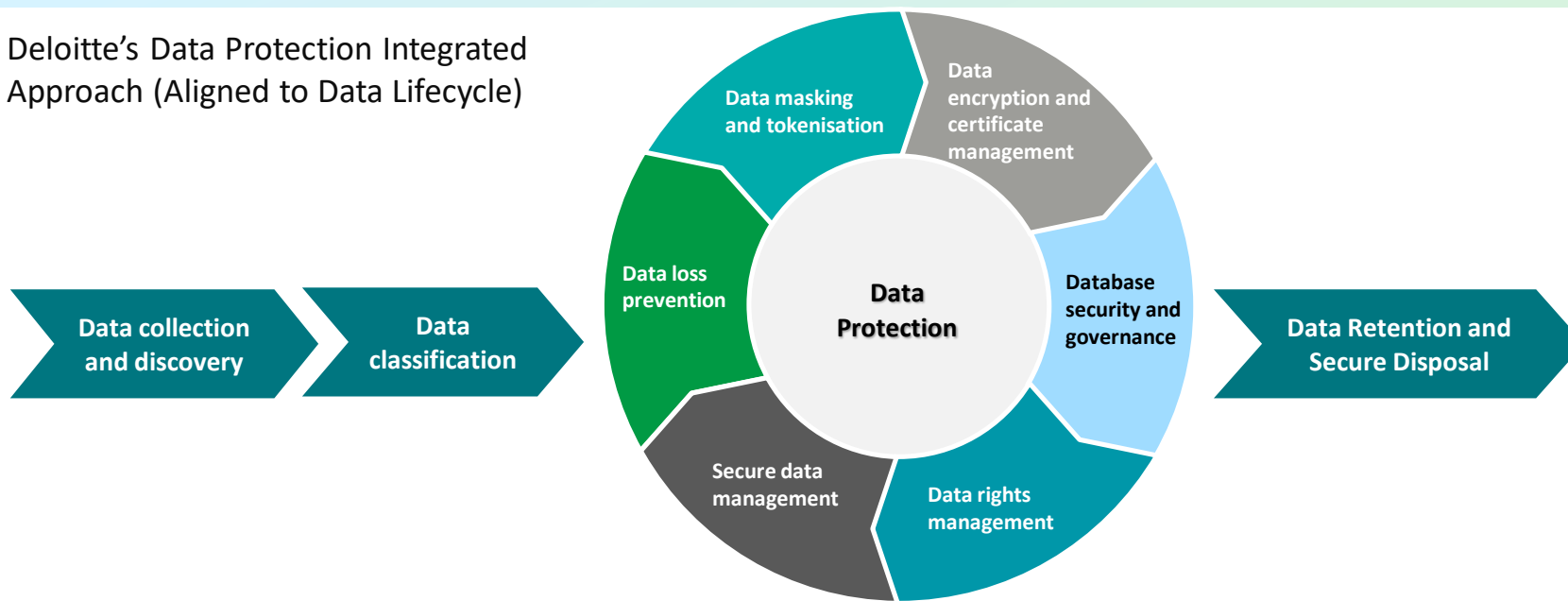
Business drivers



Deloitte's integrated data protection offering landscape



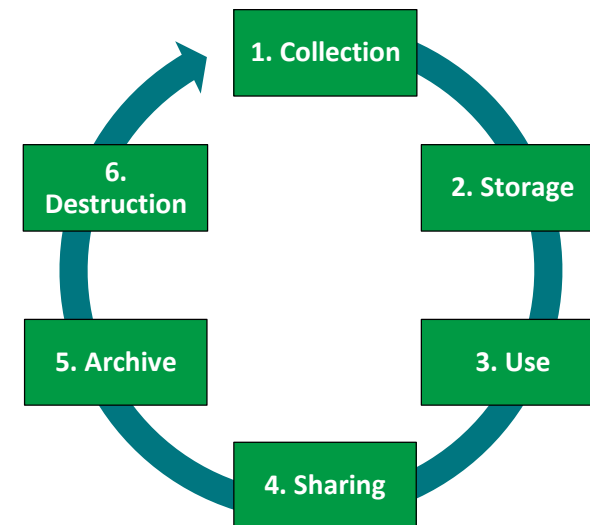
Deloitte's Data Protection Integrated Approach (Aligned to Data Lifecycle)



- Our key-differentiator service offerings:**
- Advisory Services
 - Vendor Evaluation
 - Conduct POC Session
 - Current State Assessment
 - Solution Implementation and Integration
 - Optimisation and Enhancement
 - End-to-end Managed Services

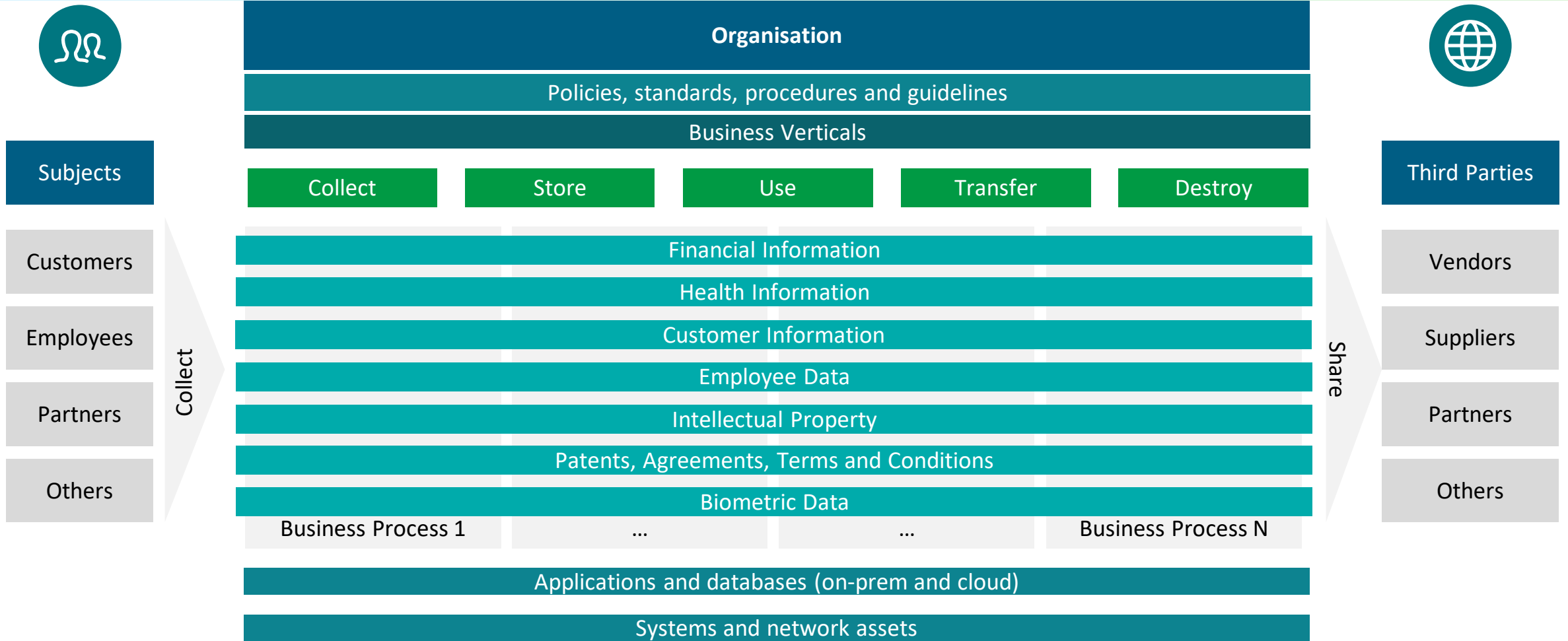
Functional Components

1. Collection: activities to analyse data collection methods, types of data being collected, and roles of those collecting data.
2. Storage: activities to analyse how and where data is being stored, who has access to the storage locations, and how and where copies of the data is being stored.
3. Use: activities to analyse the purpose of the data collection and how data is being processed.
4. Sharing: activities to analyse how and why data is being shared between one or more business processes or individuals.
5. Archive: activities to analyse when it is applicable to store outdated data and to resolve how and where this data is stored.
6. Destruction: activities to analyse how and when data is likely be destroyed.



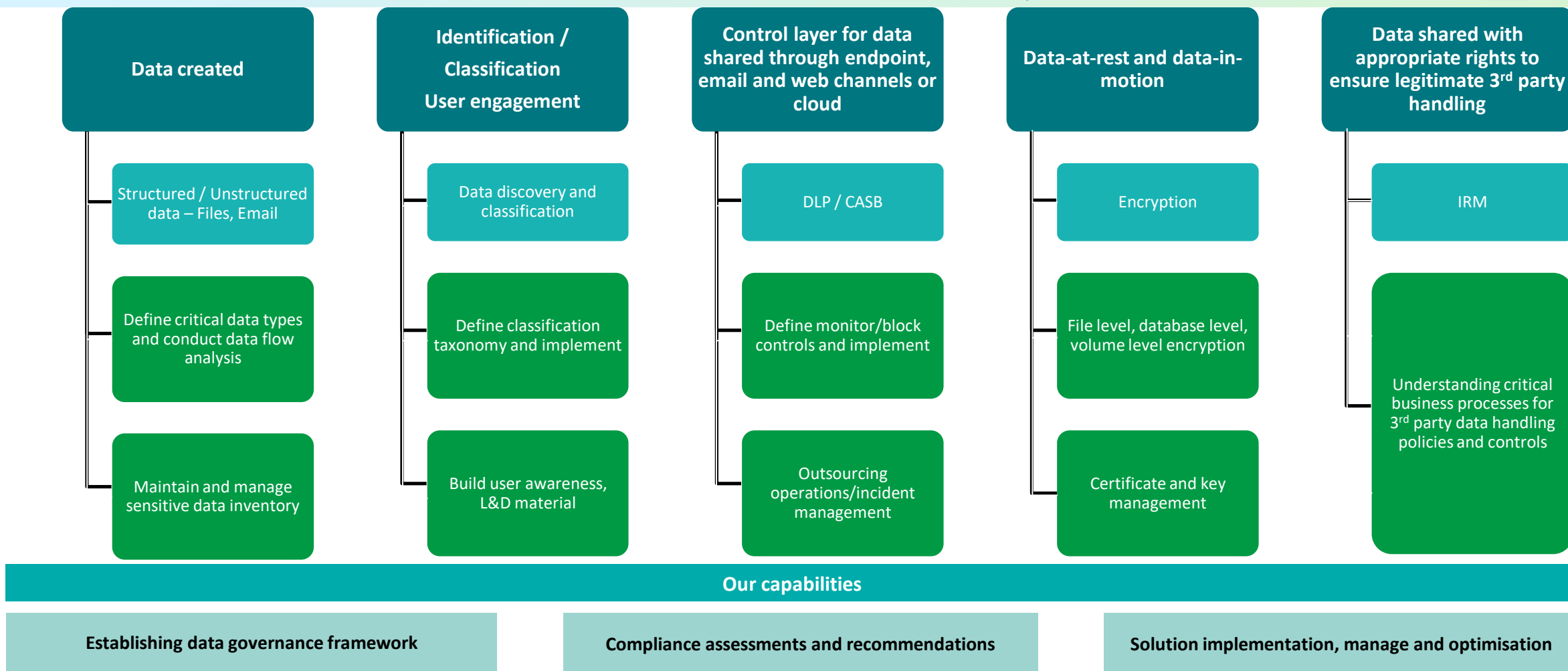
Data protection scope

Sensitive and confidential information may include, but not limited to, financial, health, customer, employee and intellectual property information hosted in or processed across business processes. Managing data protection involves protection of this information across collection, storage, use, transfer and destruction stages of the data lifecycle



Data lifecycle

We, at Deloitte, identify the following technology platforms for different stages of data lifecycle as part of the enterprise's data protection landscape. Below we've identified



Deloitte's data discovery and classification programme

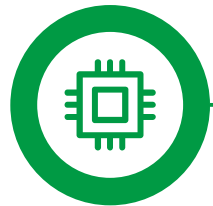
An effective data discovery and classification programme largely depends on identifying the “crown jewels” of an organisation. To do this, we recommend considering data discovery and classification across four main components:



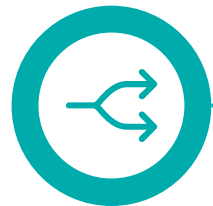
Strategy, policy, and governance- Develop, review, refine and update the data discovery and classification programme's strategy, policy and governing documents



Comprehensive integration with data protection solutions- Integrate with other data protection solutions (such as DLP, CASB, Encryption etc.) to enhance overall data protection capabilities



Enablement through technology- Ensure compliance with data discovery and classification requirements through technological platforms



Data classification approach- Address requirements for data discovery and classification through user driven, automated or suggestive approach

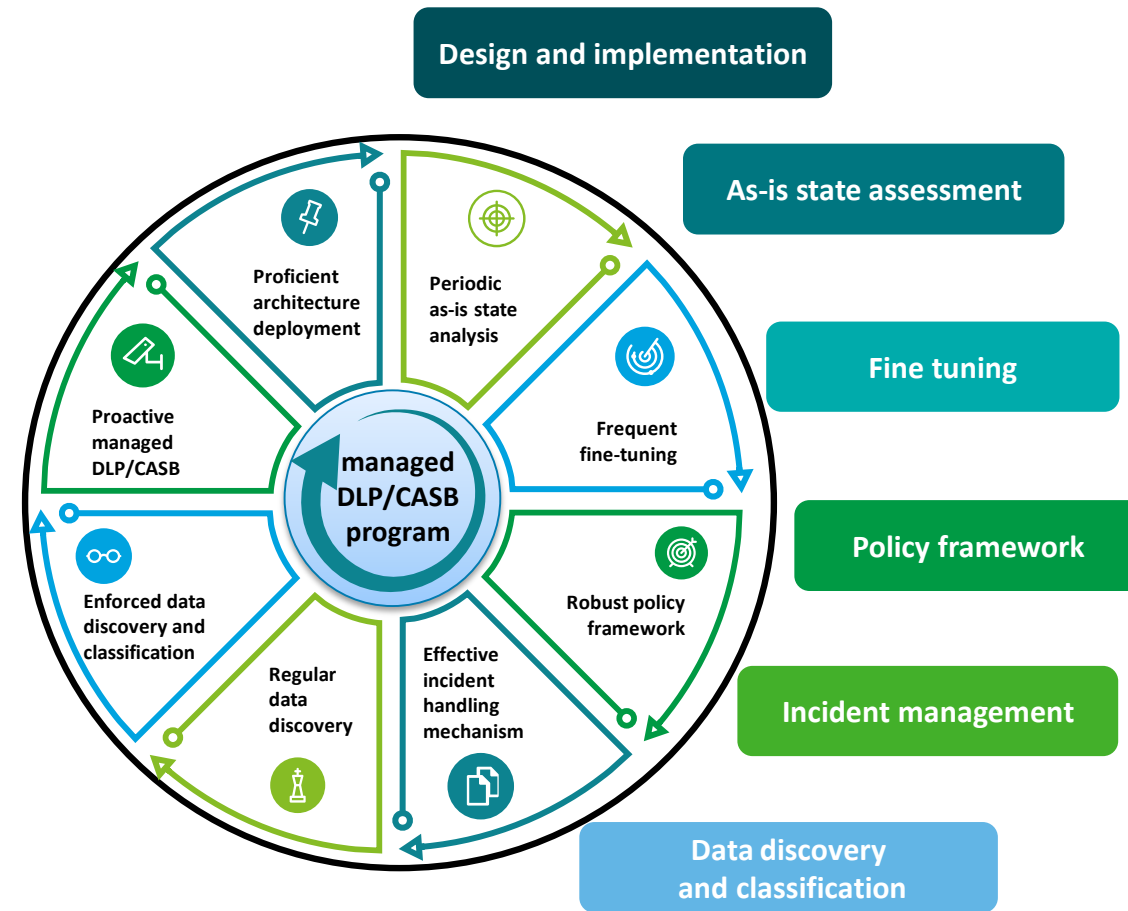
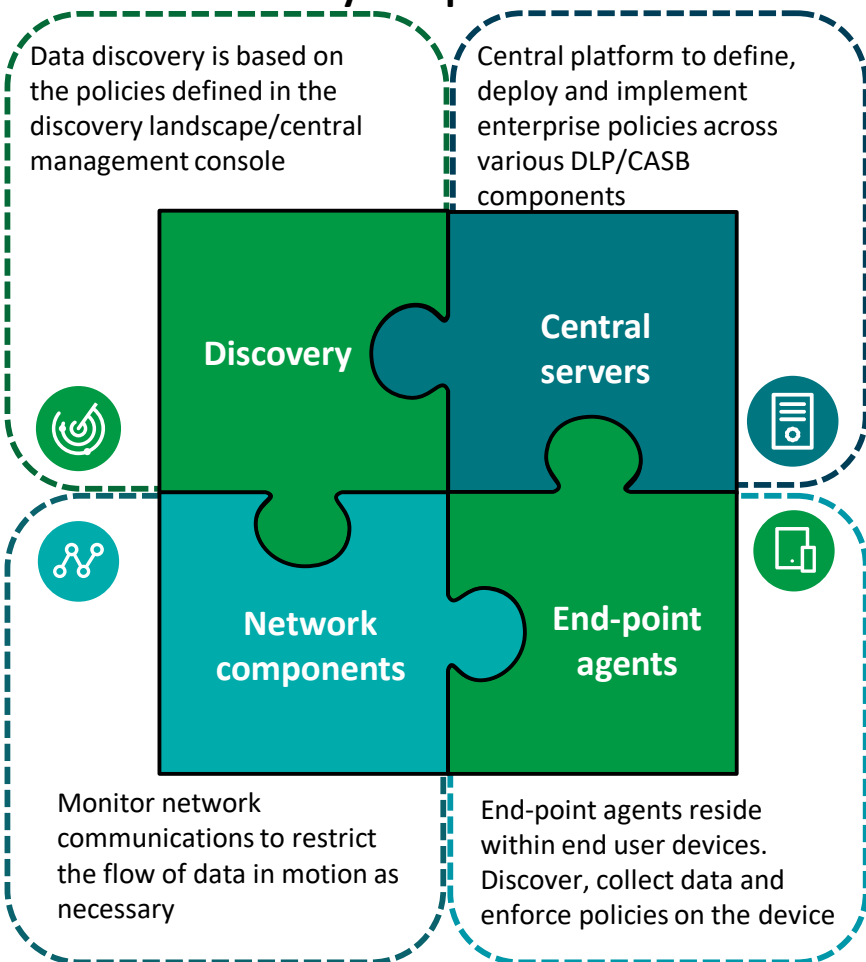


Deloitte for DLP(Data Loss Prevention) / CASB (Cloud Access Security Broker) services

Below are the Deloitte's service offerings as per the key components of DLP/ CASB:



Key components



Deloitte's services for data obfuscation

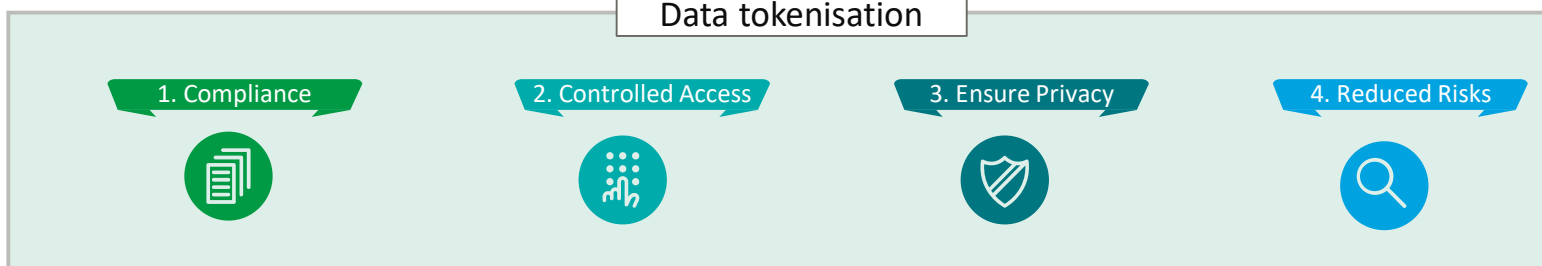
The below section outlines the driving factors for data masking and tokenisation as part of the data protection landscape



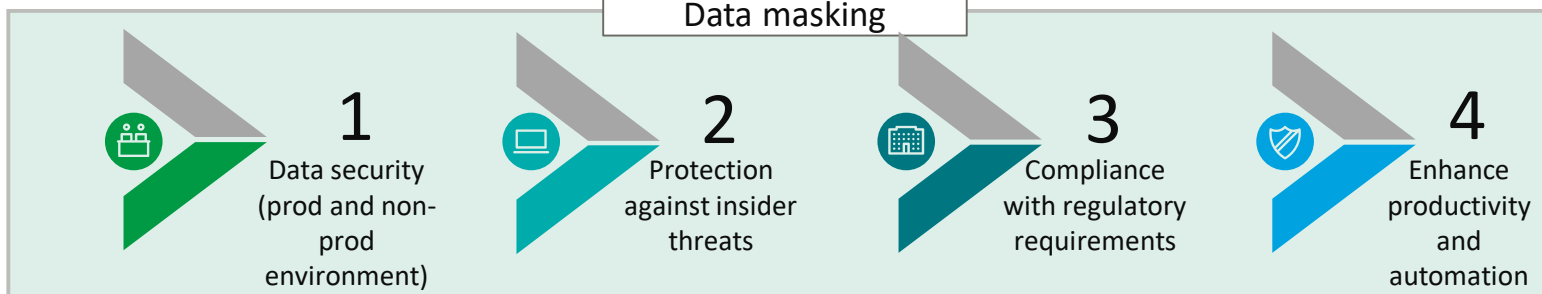
Deloitte's Capabilities



Data tokenisation



Data masking



Our Resources

Core Data Protection Team

Deloitte has a network of experienced practitioners ranging from partners to consultants with skills not limited to Key and Certificate management but also encryption, test data management and data protection.

Managed Services through Deloitte Delivery Centres

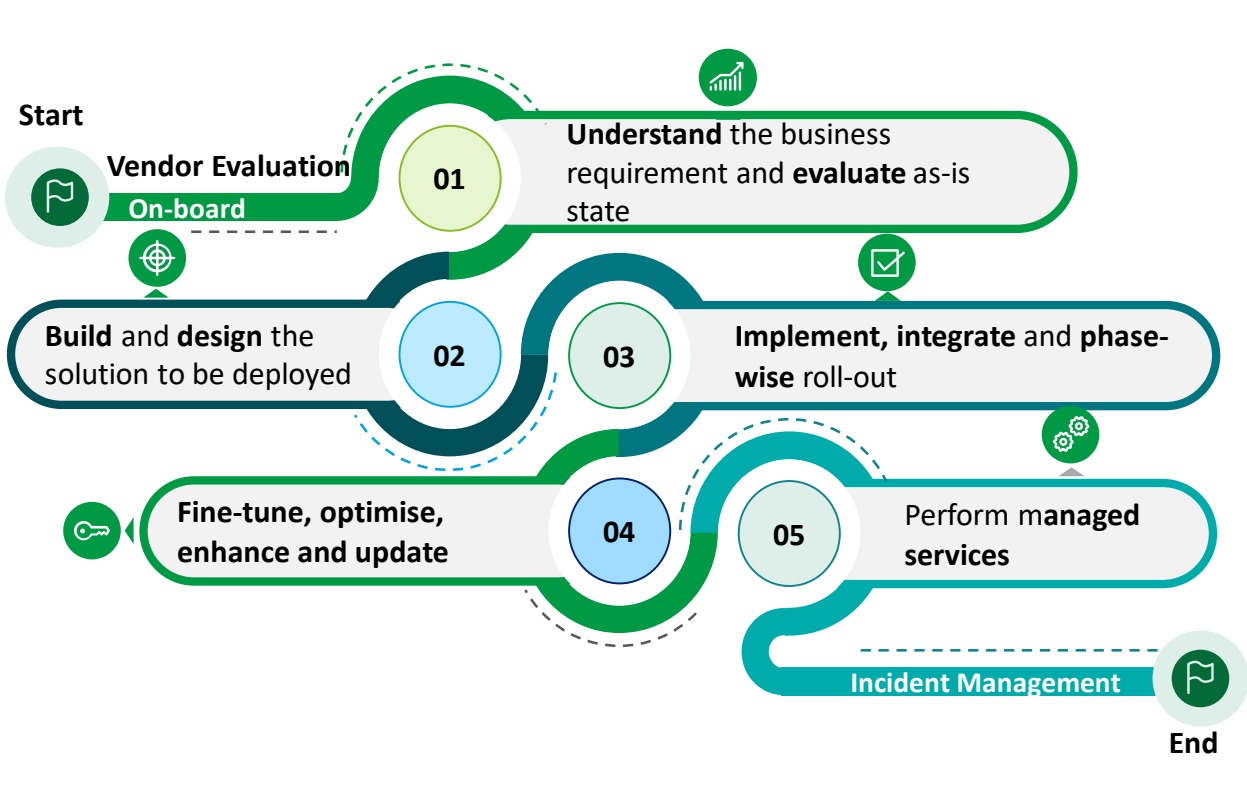
Deloitte has multiple delivery centers globally, where skilled practitioners provide support for our cyber security managed services.

Vendor alliances

While Deloitte remains vendor independent, we have strong alliances with market leading vendors.

Deloitte's customised phase-wise approach

Aligned to our native Cyber Security framework, we have undertaken the following approach to deliver data-protection engagements across various industries and sectors



| | Baseline | Remediation | Notification | Prevention |
|---------------|--|--|------------------------------|-----------------|
| Weekly alerts | Enrich incident data | Refine policies | | |
| | Expand detection methods | Employee and business unit communication | Refine policies | |
| | Identify broken business processes | Fix broken business processes | | |
| | Global privacy discussions | Privacy/employee monitoring | Sender auto notification | Refine policies |
| | Employee and business unit communication | | Business unit risk scorecard | |
| | Risk reduction over time | | | |

Our data protection team

Deloitte in India is one of the leading Data Protection and Privacy professional service provider with a rich heritage of serving the best-in-class clients in India, and in the global landscape.



Our team

Footprints Across Verticals

| | |
|-------------------------|---|
| Our team | 70+ professionals dedicated to Privacy and Data Protection |
| Certification | Data Protection team consists of professionals with: <ul style="list-style-type: none"> • CISA, CISSP, CIPP, CIPM and product specific certifications |
| Tools/Automation | <ul style="list-style-type: none"> • Use of chat-bot oriented Deloitte's indigenous Intelligent Risk Assistant (IRA) platform for Data Protection • Deloitte's native cyber-security framework • Deloitte's customised phase-wise approach |

| | |
|------------------------------------|------------------------------|
| Consumer and Industrial Products ▶ | Energy & resources ▶ |
| Financial services ▶ | Life sciences & healthcare ▶ |
| Tech, media & telecom ▶ | Public sector ▶ |

Providing end-to-end managed services to **10+** clients across these sectors

Managed Service offerings include
 SaaS offerings (**3+ clients**)
 On-prem (**5+ clients**)
 Remote services (**3+ clients**)

Contact us



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