ORACLE®

Data Management and Security in the GDPR Era

Franck Hourdin; Vice President, EMEA Security
Russ Lowenthal; Director, Database Security Product Management
Mike Turner; Chief Operating Officer, Capgemini

ORACLE OPEN WORLD

Presented with

Capgemini

ORACLE

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Today's Speakers

Mike Turner, Capgemini

Chief Operating Officer

Franck Hourdin, Oracle

Vice President, EMEA Security

Russ Lowenthal

Director, Product Management

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

What is General Data Protection Regulation (GDPR)?

GDPR is a new and important European Union (EU) privacy and security law

Designed to protect the rights and the freedoms of natural persons

Applies to a very large set of public and private organizations around the world

Has significant management visibility because of very high fines and other obligations

We see a lot of security and compliance projects and we are involved in most of them

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

The General

DATA PROTECTION

Regulation (GDPR) aim is to protect the privacy and data of individuals. Data protection requires good IT and good security

A view on GDPR offered you by Oracle
oracle.com/goto/gdpr

PROTECT THE DATA
Protect the data wherever it is and avoid using real data where non-necessary

SECURE CONFIGURATION
Secure configurations, remediate vulnerabilities, and control production baselines

ACCESS CONTROL
Guarantee authentication and authorization both for business user and IT personnel

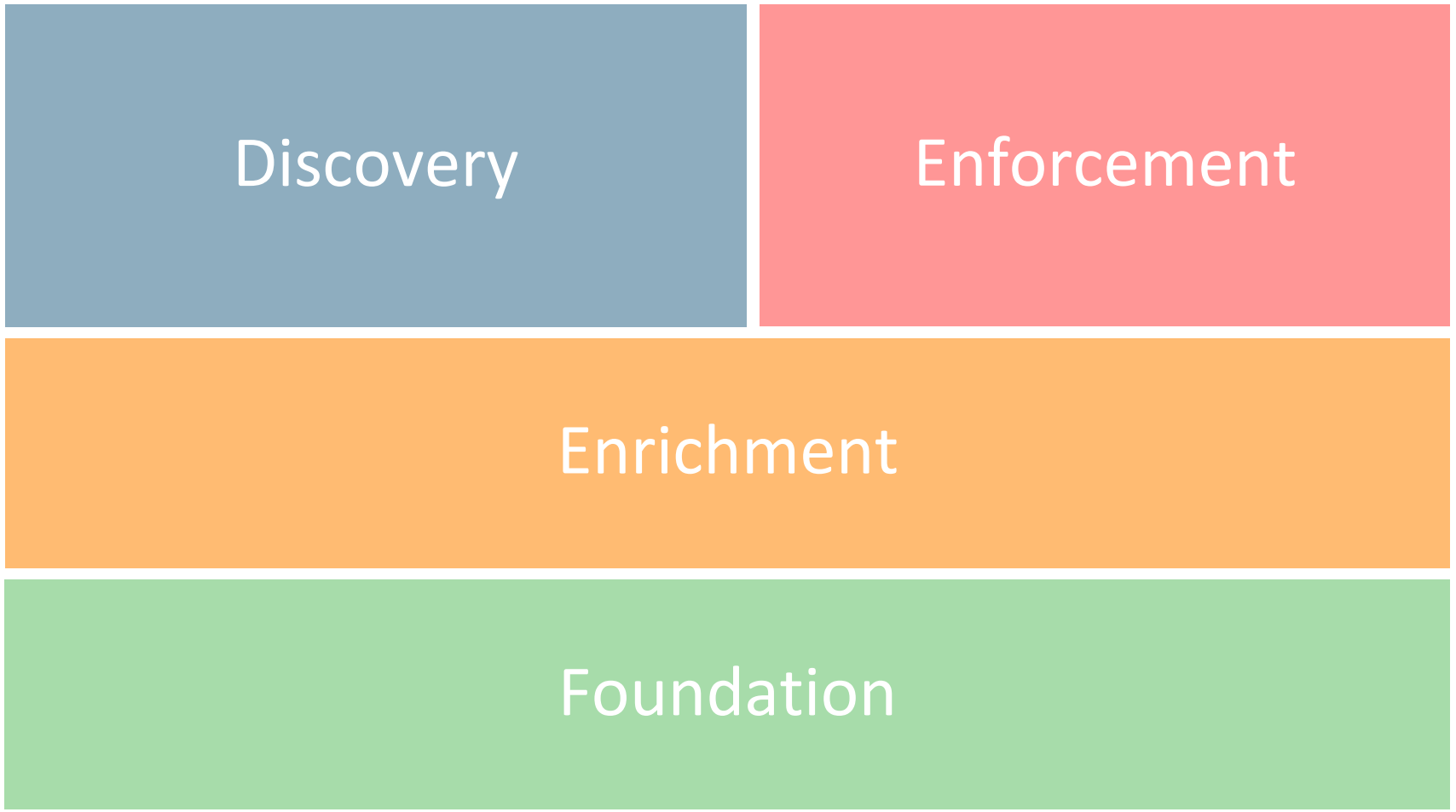
MONITOR, BLOCK & AUDIT
Collect, secure and analyze audit logs and implement boundary defenses

ORACLE

Copyright © 2017, Oracle and/or it's affiliates. All rights reserved.

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Why Oracle for GDPR?



We can help to achieve compliance to GDPR.

We can help to:

1. **Discover** sensitive data with data governance solutions
2. **Enforce** data, software and identity security
3. **Enrich** application functions to guarantee rights of data subjects
4. **Support** a foundation that includes good IT practices, and high availability and resilience

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

GDPR Compliance with the help of Oracle Security

- Data Security improved with auditing, now implementing masking and encryption
- Cloud access controls to secure Microsoft Office 365 and discover hidden IT
- Delivering a new identity platform (hybrid cloud) to streamline identity governance

UBI Banca is the third largest Italian commercial/retail banking Group. 23,000 employees.

Listen to Fabio Gianotti Chief Security Officer UBI.S, UBI Banca (video)

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Data Management and Security in the GDPR Era

Mike Turner, Chief Operating Officer, Capgemini

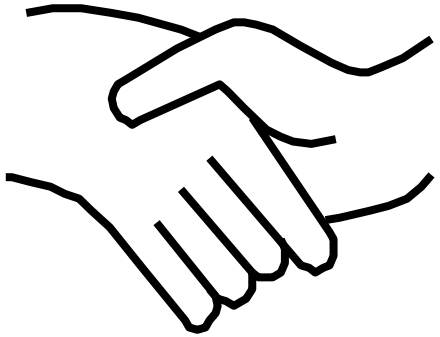
ORACLE

Capgemini
CONSULTING.TECHNOLOGY.OUTSOURCING

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Capgemini was one of the first companies to be named a global Diamond level partner by Oracle. Achieving this status – the highest in the Oracle PartnerNetwork (OPN) Specialized program – confirms our expertise in implementing Oracle products and in helping customers worldwide use them to accelerate their growth and success.

Capgemini
CONSULTING.TECHNOLOGY.OUTSOURCING



ORACLE

- 200,000 Staff
- 145 Countries
- Leading Global System Integrator

- 420,000 Customers
- 145 Countries
- Major Market Share

working in partnership to help our customers drive GDPR compliance and greater TRUST in their brand

ORACLE

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Capgemini CONSULTING.TECHNOLOGY.OUTSOURCING ORACLE

During 2017 - 2022 Company X has truly Digitally Transformed

- Fortune 500
- 100K+ employees
- 60 countries

What **COMPONENTS** were the focus?

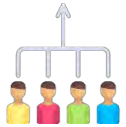
- Business Outcomes
- Organisational Change
- Technology change
- Culture & ways of working

TRANSFORMED

Purpose

Business Model

Proposition


Capability

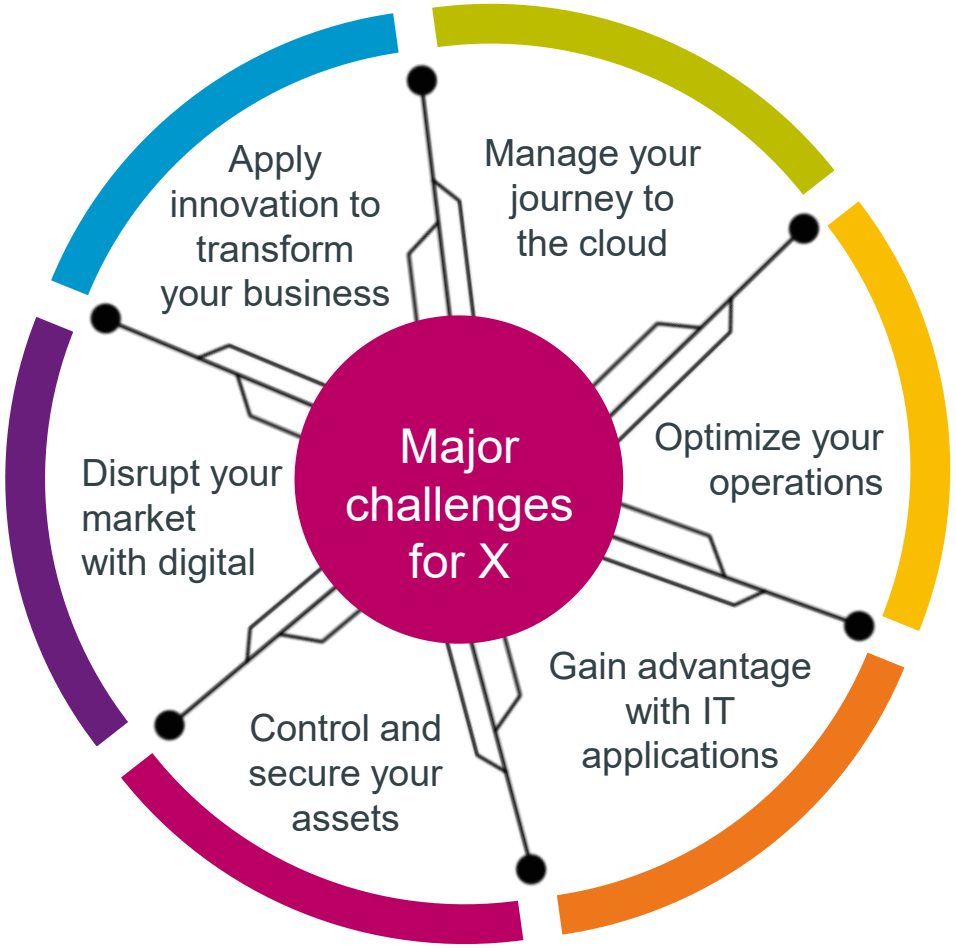
Operational effectiveness

Ecosystem

Culture & ways of working

Copyright © 2017 Capgemini. All rights reserved.

This is what organization X looks like in 2022



Cloud. Organization X is a cloud first enterprise. This enables the organization to beat the competition through efficiency, agility, scalability, innovation. Organization X has allocated workloads to public, private or hybrid cloud infrastructure in a safe manner.

Insight & data. Organization X collects vast amounts of data and uses advanced technology to analyze data and make decisions. Insights are delivered in real time and enable organization X to be nimble and seize opportunities.

Digital employee experience. Employees of organization X have a digital experience in every part and level of the organisation. Digital is pervasive.

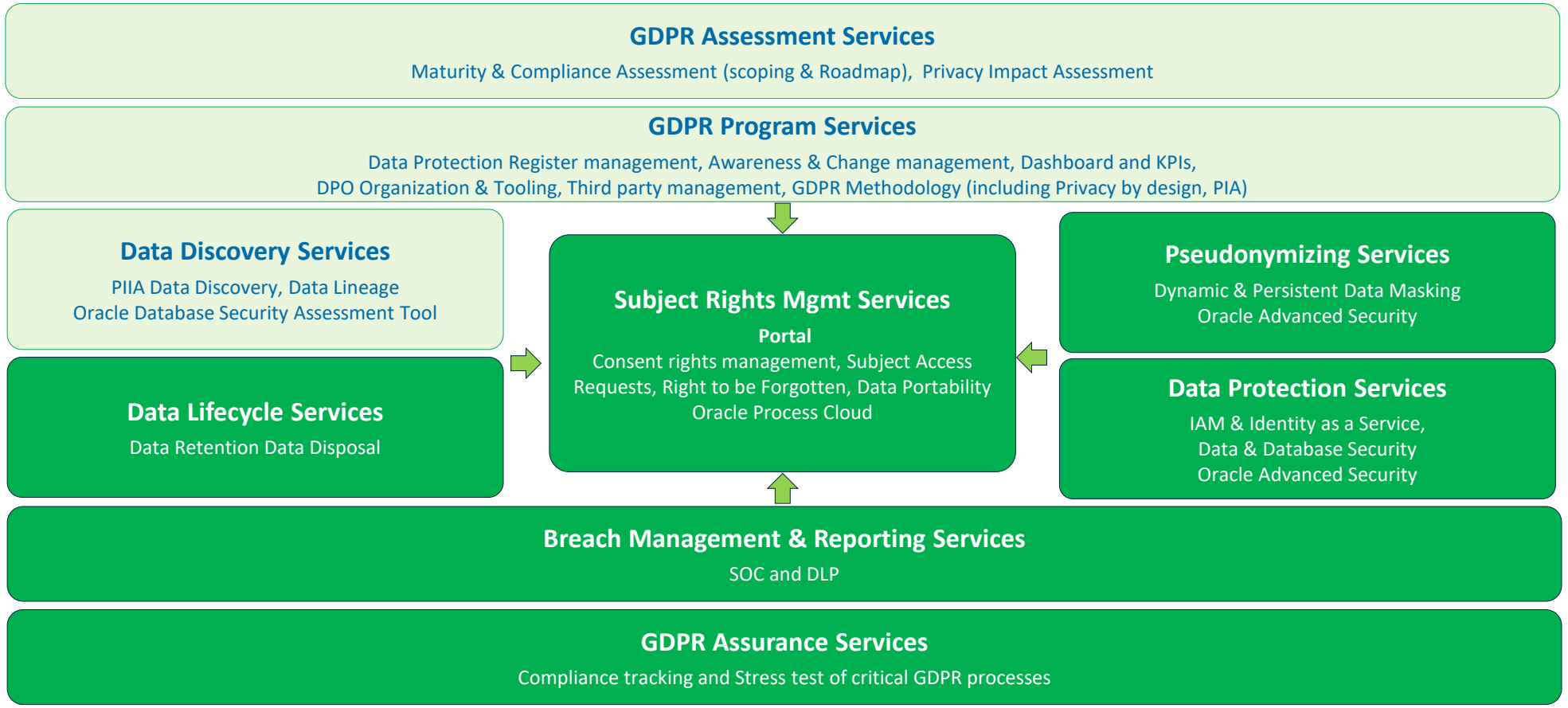
Digital customer experience. Customers of organization X have a full digital Customer Experience. Customers can access digital services or organization X. Customers live an enhanced customer experience

Cyber security. Organization X stays ahead of increasingly sophisticated threats through consulting & assessment, protection, monitoring and threat hunting.

Capgemini CONSULTING.TECHNOLOGY.OUTSOURCING ORACLE

Copyright © 2017 Capgemini. All rights reserved.

By May 2018 a **'Digital Enabling'**, GDPR compliant regime was implemented

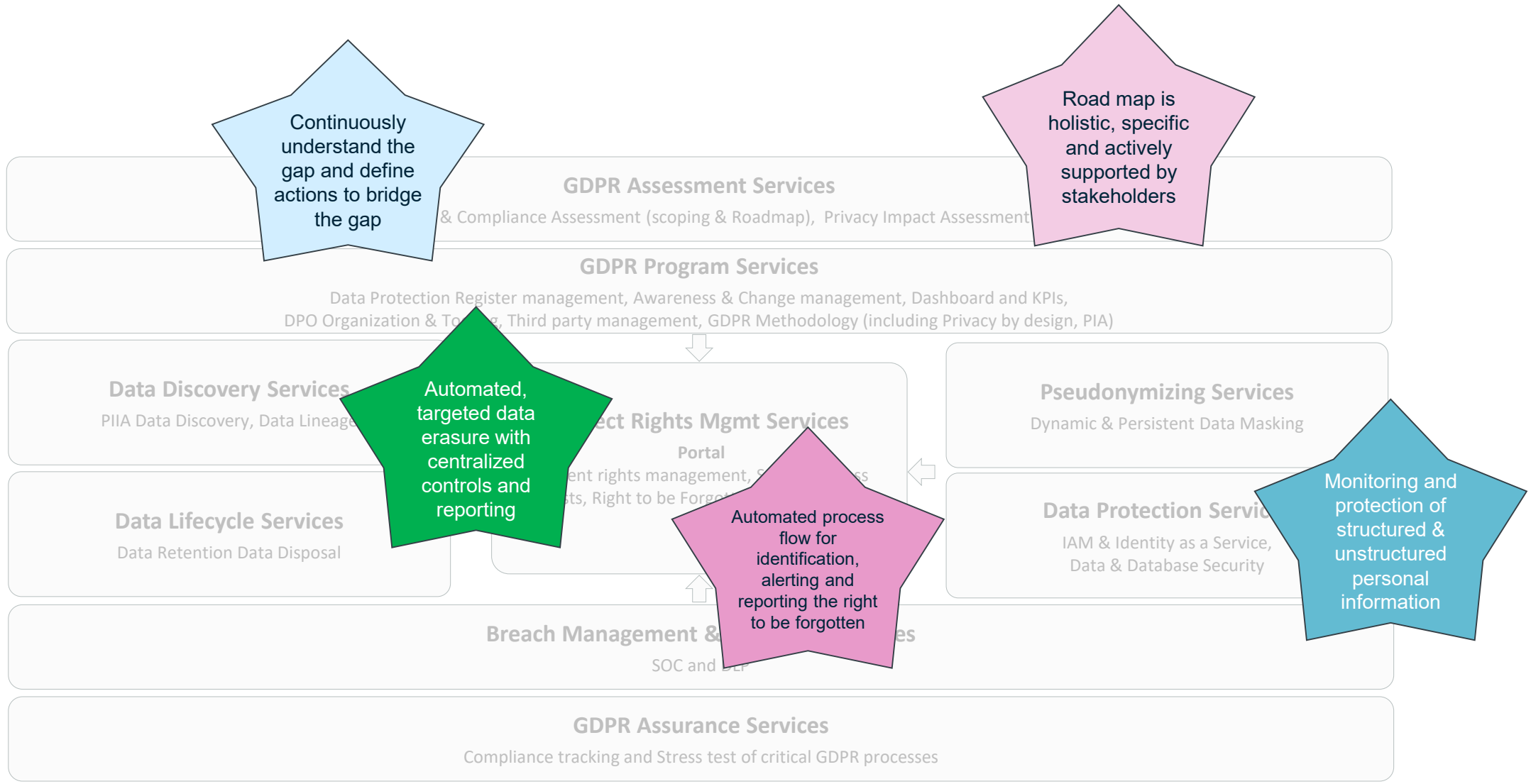


Aligned to the business and digital strategies of the organisation

Capgemini CONSULTING.TECHNOLOGY.OUTSOURCING ORACLE

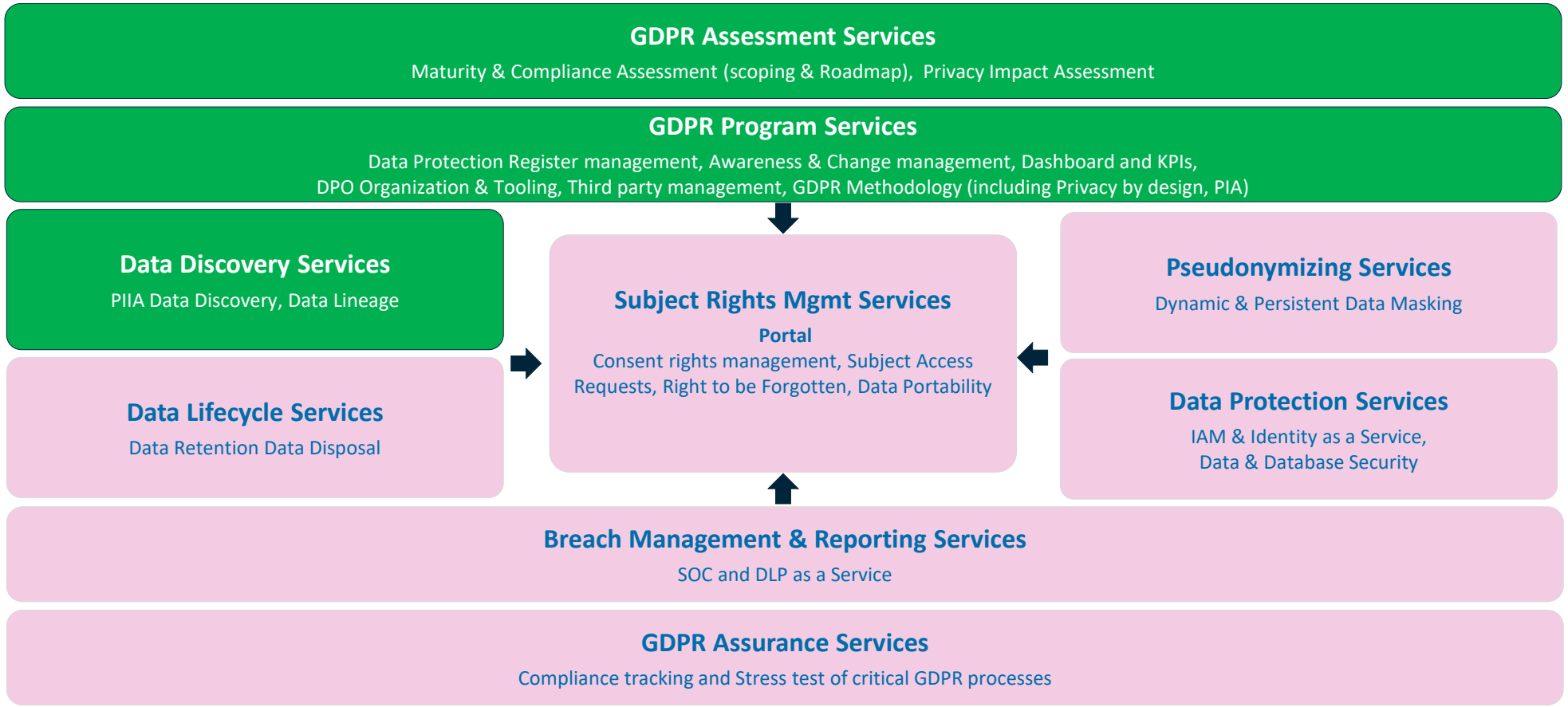
Copyright © 2017 Capgemini. All rights reserved.

By May 2018 a **'Digital Enabling'** oriented GDPR compliant regime was implemented



Copyright © 2017 Capgemini. All rights reserved.

In 2017 Strategy Development and Execution Commenced

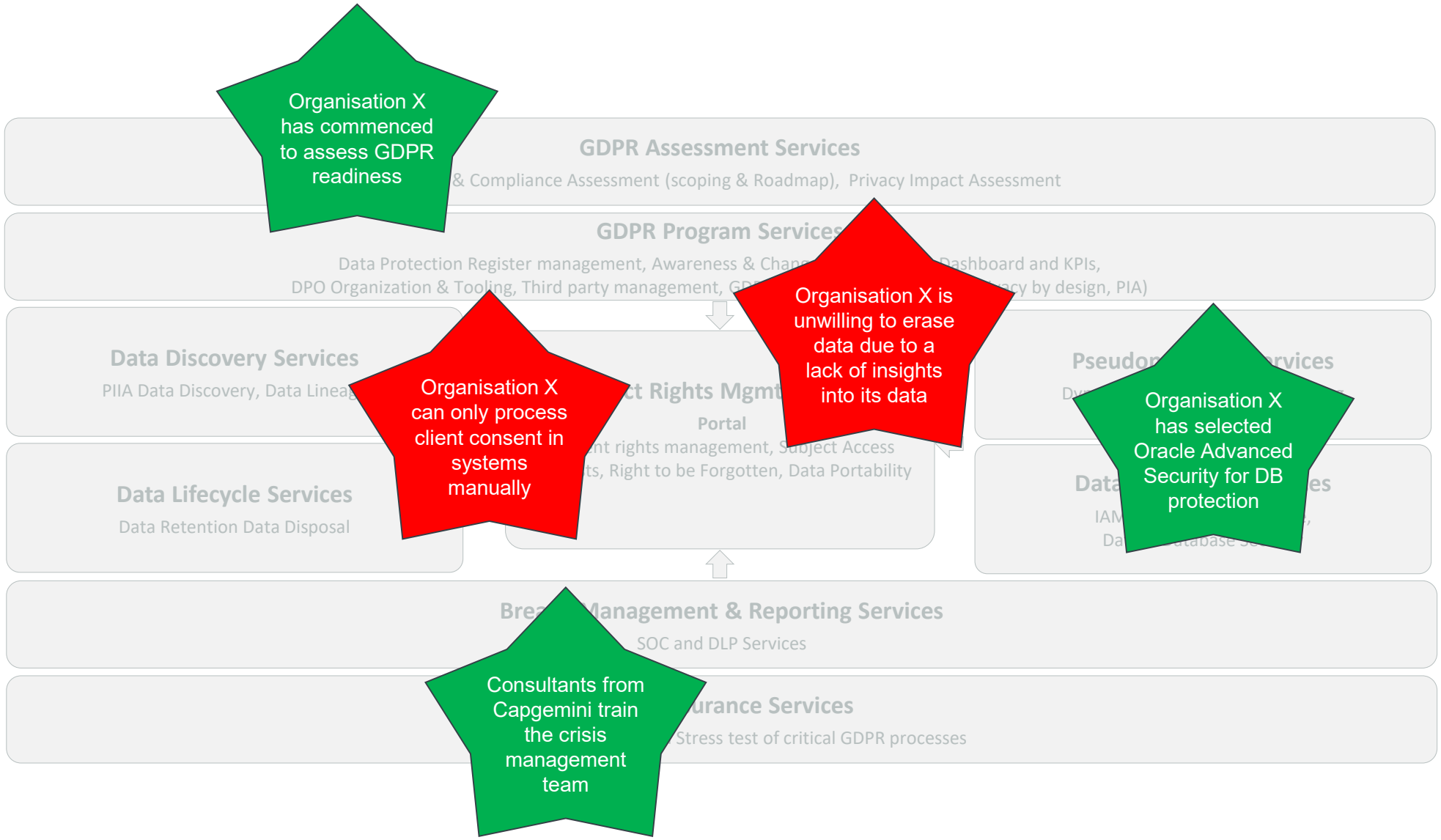


Aligned to the business and digital strategies of the organisation

Capgemini CONSULTING.TECHNOLOGY.OUTSOURCING ORACLE

Copyright © 2017 Capgemini. All rights reserved.

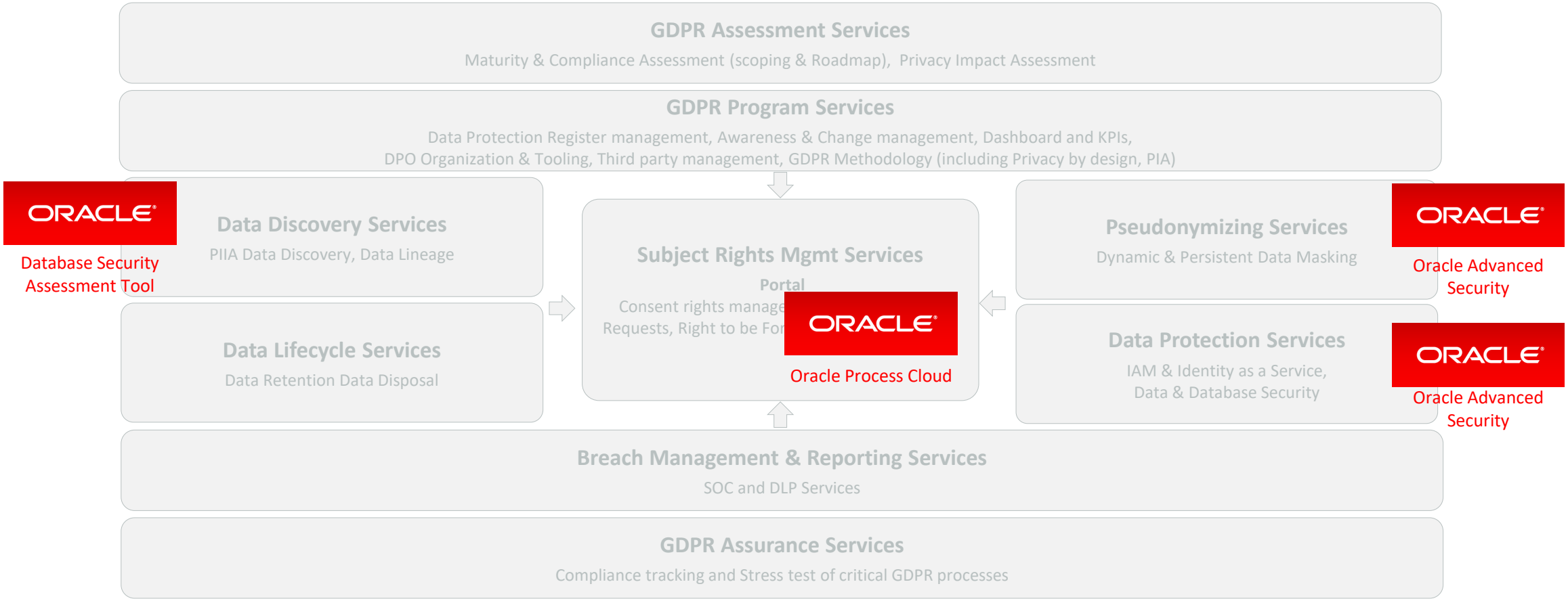
In 2017 Strategy Development and Execution Commenced



Capgemini CONSULTING.TECHNOLOGY.OUTSOURCING ORACLE

Copyright © 2017 Capgemini. All rights reserved.

In 2017 Strategy Development and Execution Commenced



Capgemini CONSULTING.TECHNOLOGY.OUTSOURCING ORACLE

Copyright © 2017 Capgemini. All rights reserved.

Journey to Change

Capgemini CONSULTING.TECHNOLOGY.OUTSOURCING ORACLE

Copyright © 2017 Capgemini. All rights reserved.

Conclusion

A GDPR Compliance Strategy **solely** focused on the enterprise of **May 2018**…

Will not deliver the levels of **data protection, privacy and trust** needed in **2022**

Copyright © 2017 Capgemini. All rights reserved.

Data Management and Security in the GDPR Era

Russ Lowenthal; Director, Database Security Product Management

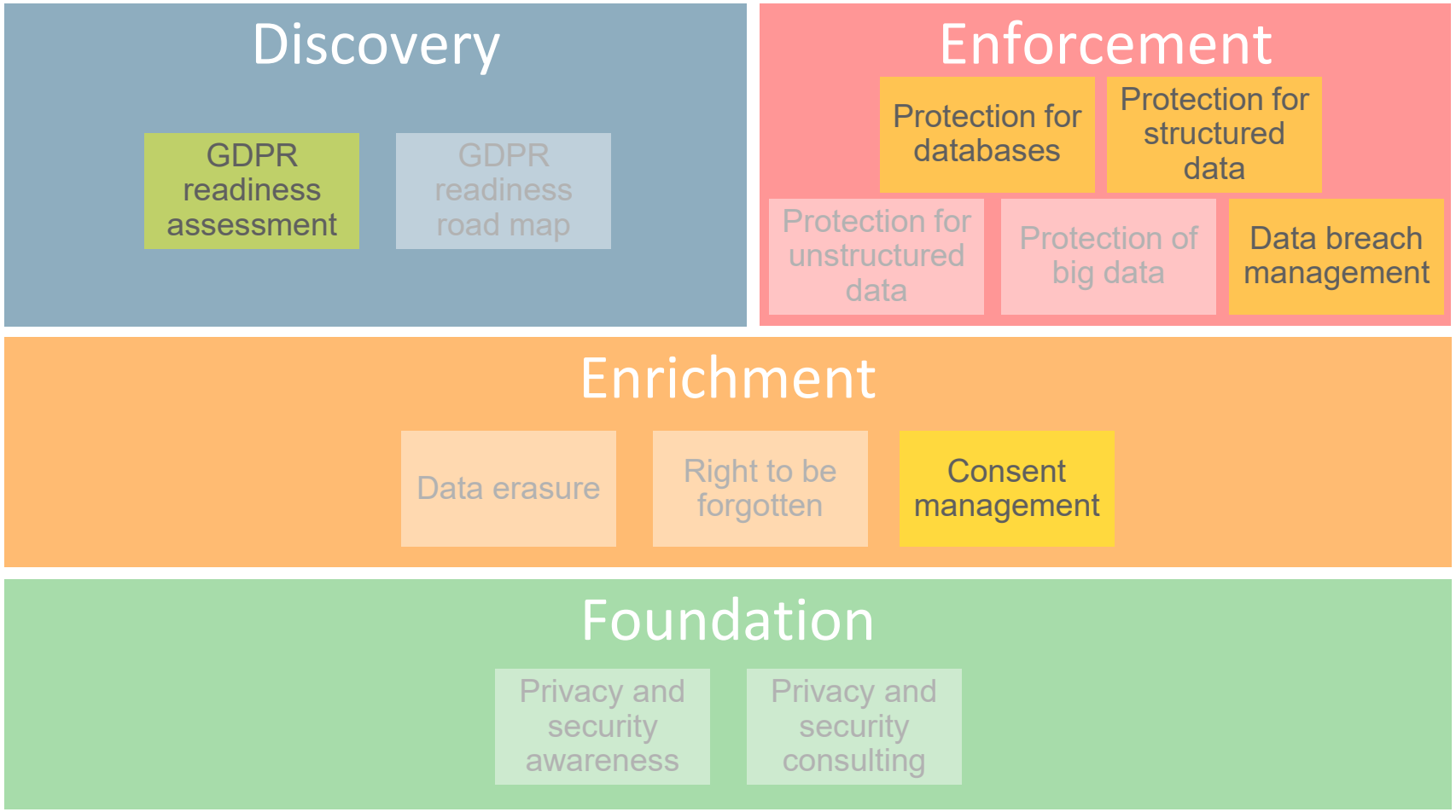
Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

GDPR Articles and Mapping to Oracle Database Security

GDPR Article	Protection Mechanism
Article 35	**Data Protection Impact Assessment**
Article 32	**Pseudonymization and encryption of personal data**
Article 25, 29	**Data protection by design and by default** **Processing under the authority**
Article 30, 33	**Notification of a personal data breach**
Article 18, 25, 32	**Right to restriction of processing** **Data protection by design and by default**
Articles 25, 32	**Pseudonymisation and encryption of personal data** **Data Minimization**
Article 25	**Data Protection by Design and Default**

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

EU GDPR and Database Security



Securing data in your Oracle Databases is a fundamental component of GDPR compliance.

Database Security is also one of the more simple GDPR tasks – an easy way to demonstrate progress in your compliance project!

ORACLE

Capgemini
CONSULTING.TECHNOLOGY.OUTSOURCING

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

A view on Database Compliance

Oracle is the leader in DBMS

- Discovery
  - Configuration Analysis
  - Sensitive Data Discovery
- Enforcement
  - Encryption and Key Management (Advanced Security, Key Vault)
  - Access Controls (Database Vault, Real Application Security)
  - Anonymization (Data Masking & Subsetting, Data Security Cloud Services)
  - Activity Monitoring (Audit Vault & Database Firewall, Data Security Cloud Services)
- Enrichment
  - Enforcement of consent and restriction of processing (Label Security)

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

GDPR Articles and Mapping to Oracle Database Security

GDPR Article	Protection Mechanism	Oracle Mapping
Article 35	**Data Protection Impact Assessment**	Configuration & Compliance Cloud Service Database Security Assessment Tool NEW
Article 32	**Pseudonymization and encryption of personal data**	Advanced Security, Key Vault
Article 25, 29	**Data protection by design and by default** **Processing under the authority**	Database Vault
Article 30, 33	**Notification of a personal data breach**	Audit Vault and Database Firewall Security Monitoring and Analytics Cloud Service
Article 18, 25, 32	**Right to restriction of processing** **Data protection by design and by default**	Label Security
Articles 25, 32	**Pseudonymisation and encryption of personal data** **Data Minimization**	Data Masking and Subsetting
Article 25	**Data Protection by Design and Default**	All of the above

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Questions / answers and conclusion

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Visit us: oracle.com/goto/gdpr

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Safe Harbor Statement

The preceding is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle. Not all technologies identified are available for all cloud services.

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Disclaimer

The information in this document may not be construed or used as legal advice about the content, interpretation or application of any law, regulation or regulatory guideline. Customers and prospective customers must seek their own legal counsel to understand the applicability of any law or regulation on their processing of personal data, including through the use of any vendor's products or services.

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

Integrated Cloud

Applications & Platform Services

Copyright © 2017, Oracle and/or its affiliates. All rights reserved. |

ORACLE®