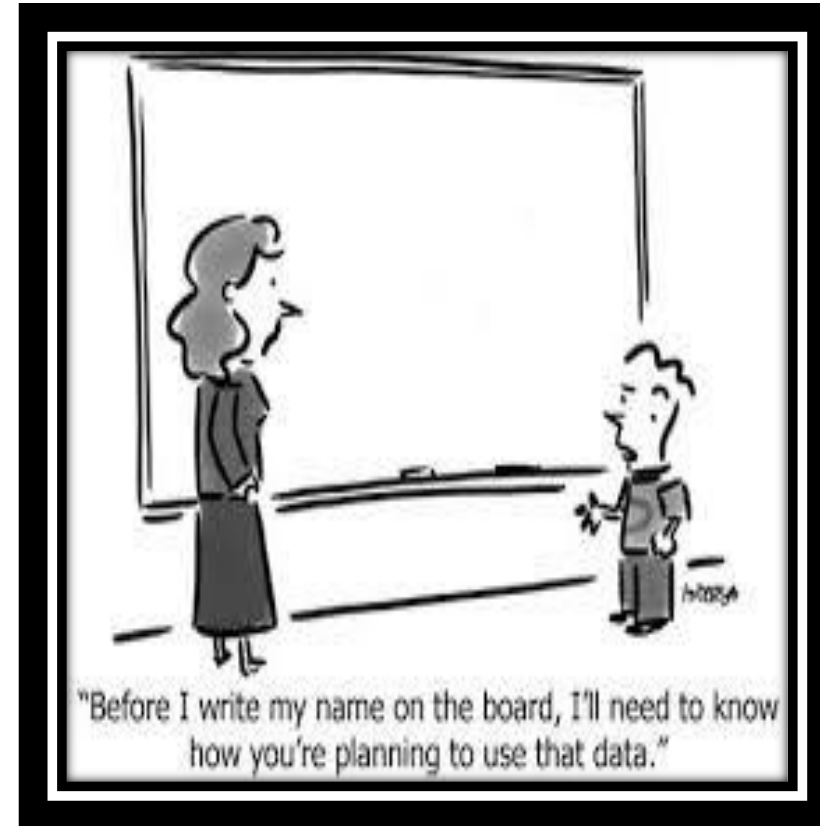




I Know what you did last summer



In the digital world , there is always a feeling of being watched. I want to control and decide how my personal information should be used. The answer was in the form of a regulation with strong enforcement called GDPR(General Data Protection Regulation).



About the workshop

How has the GDPR regulation impacted testing? What has changed and what hasn't. There will be practical examples to understand Personal Identifiable Information (PII) and why is it complex in GDPR context. You will get a simulation experience of how to identify & handle these PII's to become GDPR compliant.

Let's explore the approaches, alternatives, case studies and sketch a complete solution for compliance and quality test data.

Agenda

1. Introduction & workshop set up
2. GDPR Overview & impact on testing
3. Interactive (hands-on) sessions:
 - a. Understand & classify the PII(Personal Identifiable Information)
 - b. Identifying PII technically & apply masking techniques
 - c. Data refresh & alternatives to masking
4. Experience sharing from implementation at Dutch customers
5. Conclusion with overall solution



What is GDPR?



New centralised regulation on personal *data protection*

made by

European Parliament, European Council and
European Commission

Primary Objectives:

- To give back *citizens* the *control* of their personal data
- To *simplify* the regulatory environment for international business by *unifying the regulation* within EU

Key components of GDPR

Coverage



Global Reach



Personal Data
Definition



Privacy By Design

Process



Changes in
Consent



Right to be
Forgotten



Parental
Consent

Operations



Data protection
officer (DPO)



New Data Breach
Notifications



Mandatory Privacy Risk
Impact Assessments



Data Processor
Responsibilities

Other



Data Portability

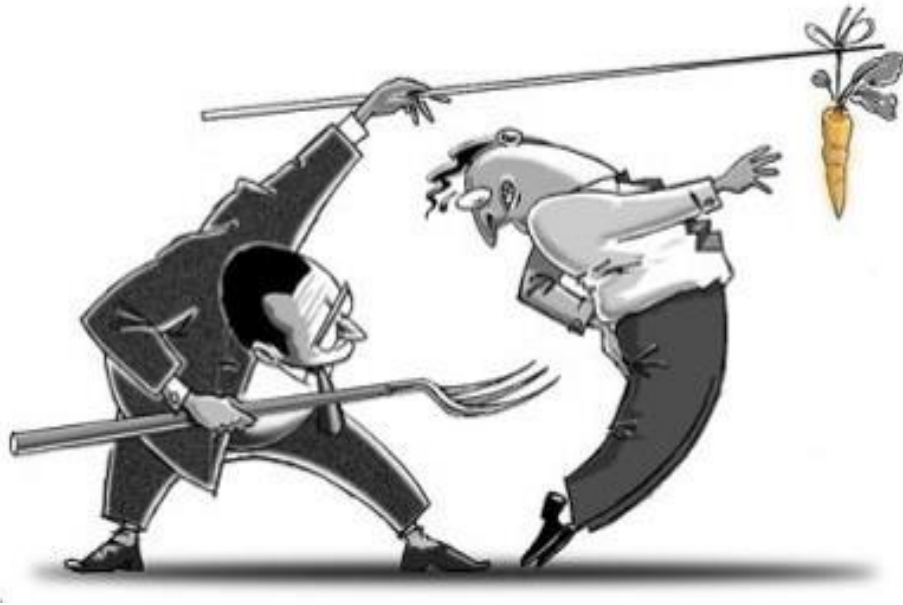


One Stop Shop

Crossed the Rubicon



GDPR impact on testing



Production data (Personal Identifiable Information - PII)
can not be used in any non-production environments,
PERIOD!!

GDPR has made explicit references to
Anonymous data and *Pseudonymisation*
and has also incentivized it

Understanding Terminologies

Data refresh & TDM

PII & Profiling

Anonymising/Masking

Data Subset

Meta data

Synthetic test data

Database & types

Gold copy

Data on demand

Master data

Transactional data

Personal data

Seedlist

Masking Techniques

Understanding PII



Direct PII

Indirect PII

Sensitive personal info

Sensitive security info

Sensitive financial info

Exercise 1 – Identify PII

- a. Understand Sample database structure
- b. Identify & classify the data against the PII types
- c. Simulate PII identification using tools
- d. Identify special cases in GDPR context and define approach to identify them



Exercise 2 – Becoming GDPR compliant

- a. Understand masking techniques and plot against PII types
- b. Simulate Masking of data. Do's & Don'ts
- c. Decouple all the type of PII's with transactional data
- d. Summarise masking approach



Data Masking challenges



Inconsistent data

Reversible

Cannot identify all PII

Impact on testing

Test automation & data closely coupled

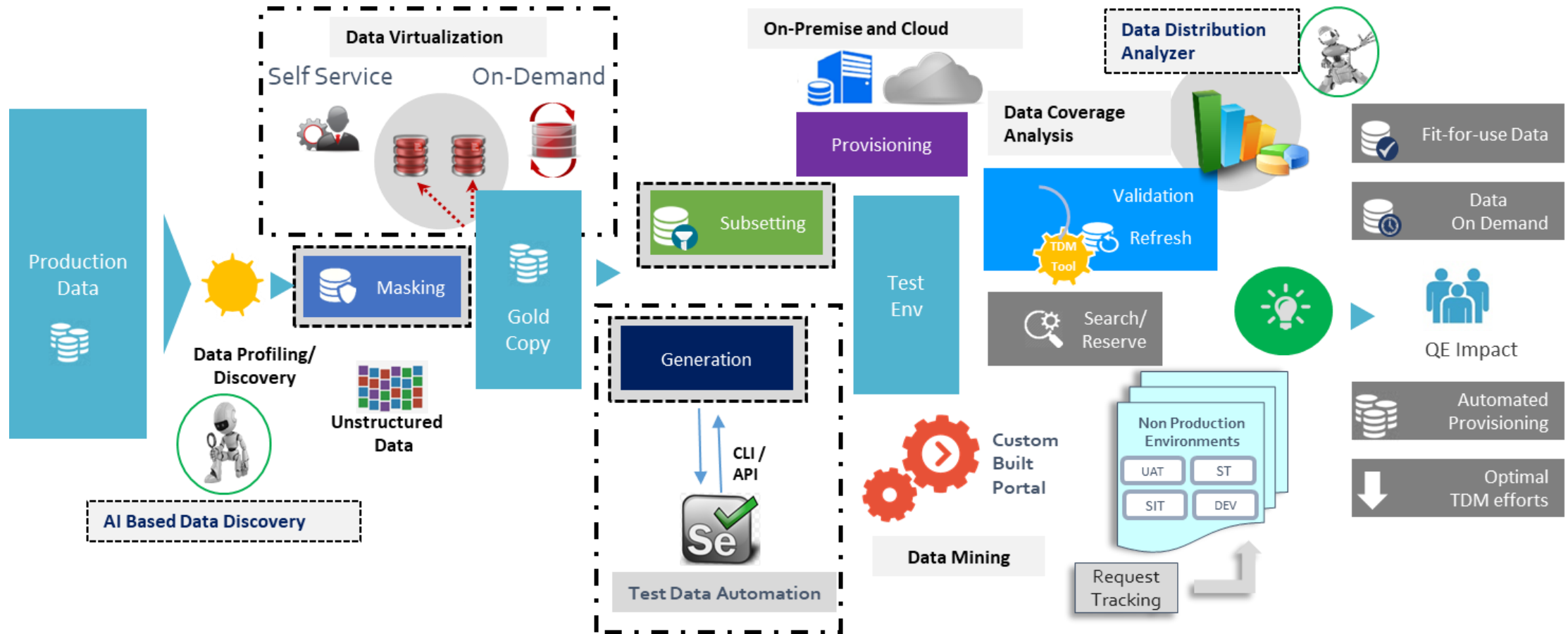
Exercise 3 – Data refresh & alternatives

While PII identification & masking will tackle compliance, there are challenges in taking the data to non production environment. It needs effective approach & diligent planning

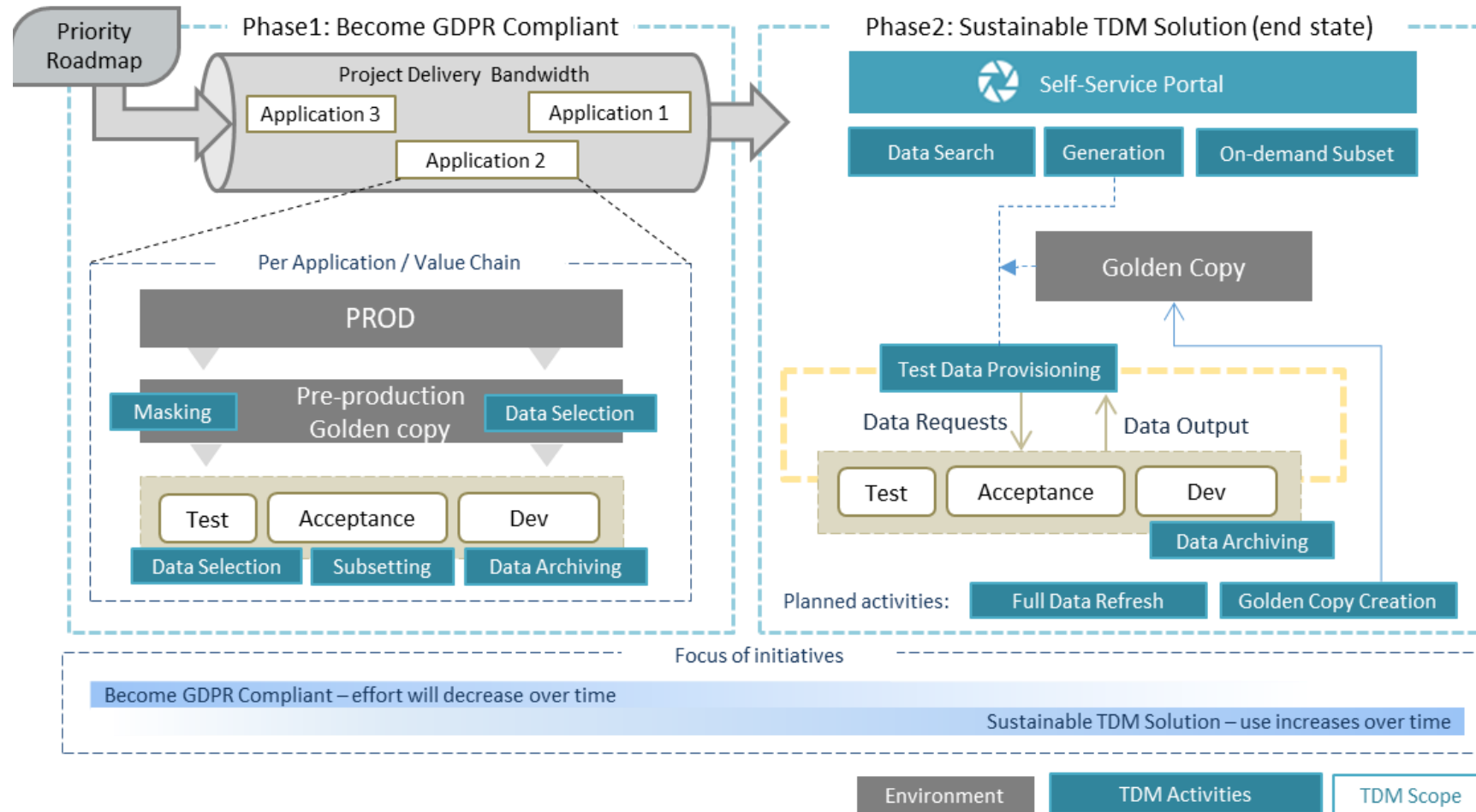
As a part of this exercise we cover the following topics:

- a. Define approach for a data refresh
- b. Identify roles & responsibility needed
- c. Analyse the Implementation challenges
- d. Alternatives to data masking

A complete solution



Experience sharing @ Dutch customers



About the speaker

Prabhu has done GDPR assessments and implemented solutions with industry leading tools. He has diverse experience ranging from Test automation, SV, mobility and TDM.

Prabhu has 14+ years of experience in Software testing and works for cognizant as a technology consultant.



Prabhuram Govindarajan



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