# LusoBank GRC Implementation Case Study

### Overview:

This GRC simulation focuses on implementing an ISO/IEC 27001:2022-aligned Information Security Management System (ISMS) for LusoBank S.A., a fictional retail bank based in Portugal.

## Objective:

To strengthen governance, manage cyber risks, and ensure compliance with key regulations:

- ISO/IEC 27001:2022
- GDPR (Portugal & EU)
- NIS2 Directive
- Banco de Portugal guidance
- EBA ICT security guidelines

Implementation Phases:

## 1. Policy Creation:

Developed a formal ISMS Policy, Security Objectives, and a governance model involving executive management.

## 2. Asset & Risk Analysis:

Created an Asset Register covering cloud and on-prem systems, SWIFT infrastructure, and customer data.

Identified key risks such as phishing attacks, insider threats, third-party risks, and system outages.

### 3. Risk Treatment:

Used a Risk Register to track risk ratings and apply controls like:

- MFA and RBAC
- Awareness training
- Data backup policies
- Vendor assessments

# 4. Compliance Mapping:

Mapped ISO/IEC 27001:2022 controls to current practices.

Included GDPR alignment for Articles 5, 25, 32, and 35 with references to the Data Protection Officer.

# 5. Dashboarding:

Developed a visual risk matrix showing treatment status, open risks, and overall security posture.

### Outcome:

LusoBank now has a documented, auditable framework for cybersecurity governance.

It aligns with industry standards and positions the bank for successful audits and regulatory reviews.

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