

# TIMBUS



TIMELESS BUSINESS

## Introduction to the Digital Preservation of Business Processes

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Digital Preservation Coalition

The TIMBUS Project

# TIMBUS - Vision

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## Digital preservation for timeless business processes and services

- [timbusproject.net/](http://timbusproject.net/)
- [info@timbusproject.net](mailto:info@timbusproject.net)
- [https://twitter.com/timbus\\_project](https://twitter.com/timbus_project)
  
- April 2011 - March 2014
  
- co-funded by the European Union  
FP7/2007-2013  
under grant agreement no. 269940



# The TIMBUS Consortium

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- SAP - Lead partner (NI, CH)
- Intel (Ireland)
- Software Quality Systems (Germany)

Industry



- Digital Preservation Coalition (UK)
- INESC - ID (Portugal)
- Karlsruhe Institute for Technology (Germany)
- Laboratório de Instrumentação e Física Experimental de Partículas (Portugal)
- Laboratório Nacional de Engenharia Civil (Portugal)
- Münster University (Germany)

Research



- Caixa Magica Software (Portugal)
- Secure Business Austria (Austria)

SMEs

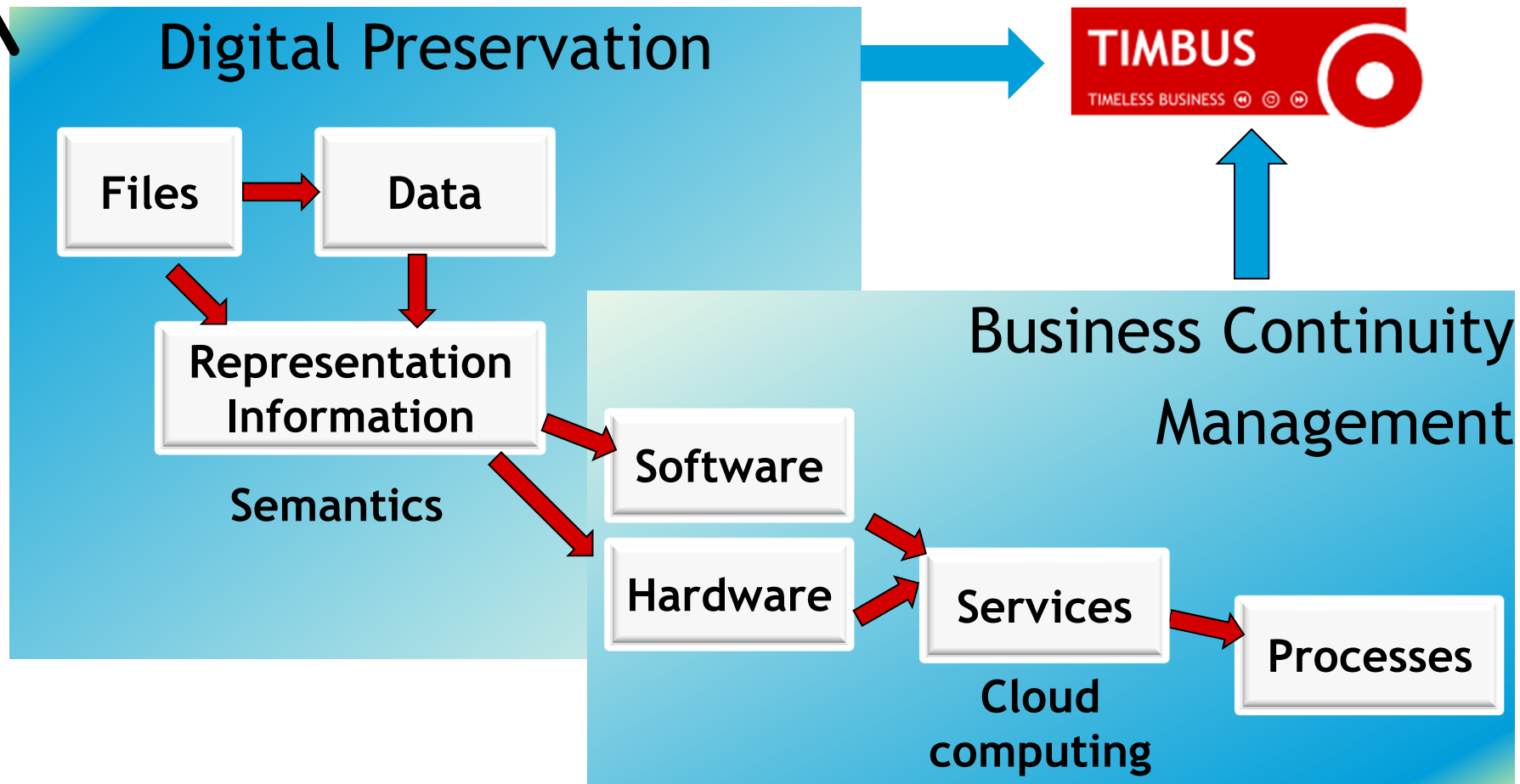


# A Preservation Continuum

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Longevity

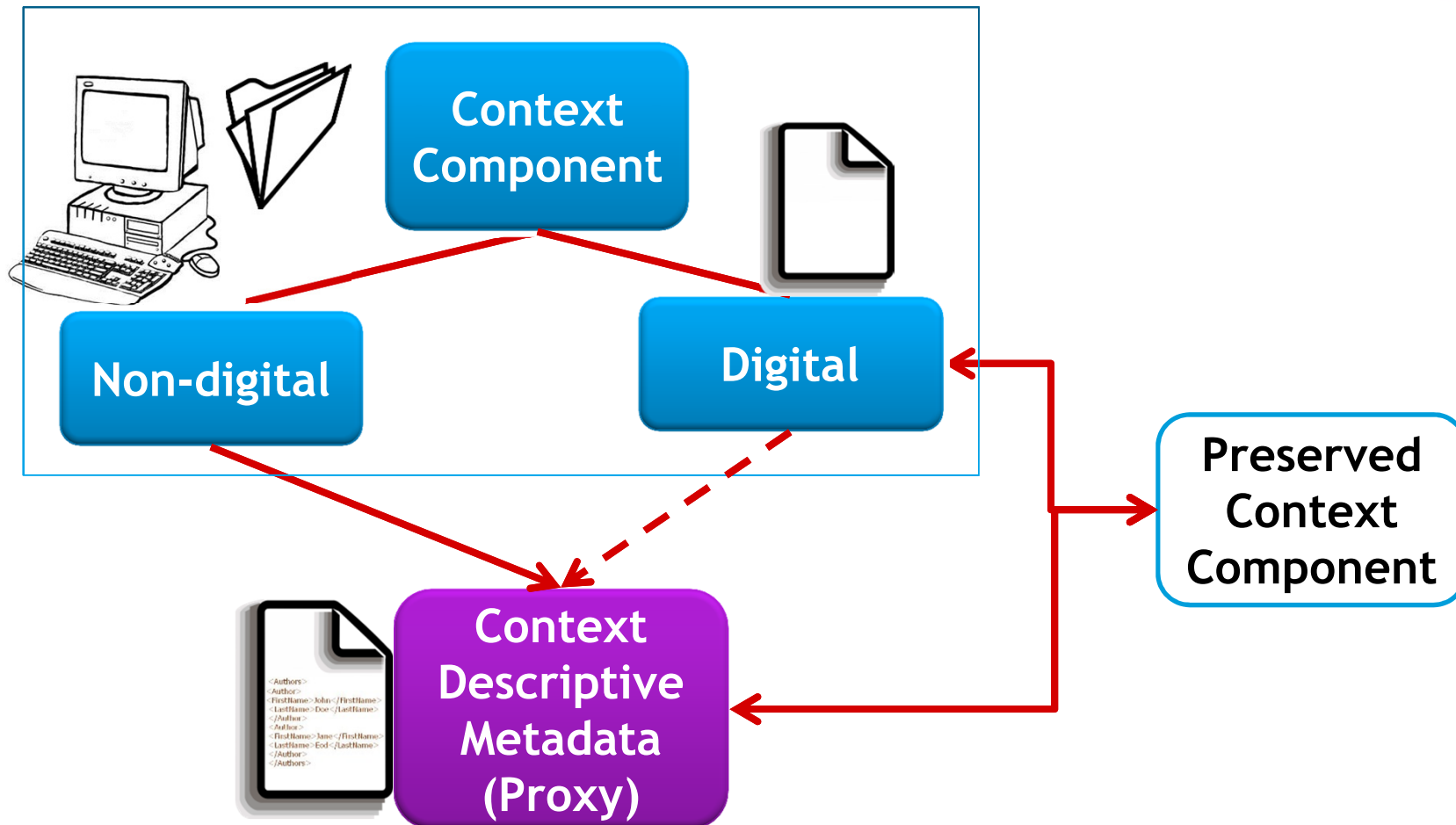


Complexity



# Context Components and Proxys

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# TIMBUS Approach

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- Methods, processes, architecture and tools
  - ensure continued access to
  - business processes and
  - supporting services and infrastructure.



- Align
  - digital preservation (DP) with
  - enterprise risk management (ERM) and
  - business continuity management (BCM).
- Explore Digital Preservation from a BCM perspective.



# Motivations 1

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Motivations



- **Provenance information:**
- **Regulated industries:** fully document processes
- **Academia:**  
software and processes that produce data
- **Analysis of processes:**

# Motivations 1

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Motivations



- **Provenance information:**

- Evidence for litigation
- Prove authenticity
- Prove quality of process products



# Motivations 1

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Motivations



- **Regulated industries:** fully document processes
  - Compliance
  - Audit, reproduce, or diagnose

# Motivations 1

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Motivations



- **Academia:**  
software and processes that produce data
  - Assess validity of data & derived scientific claims
  - Credit assignment

# Motivations 1

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Motivations

Provide  
Provenance  
Information

Enable  
Diagnosis

Provide  
Evidence  
under  
Litigation

Provide  
Business  
Continuity

Protect  
Business  
Process  
Knowledge

Achieve  
Legal or  
Regulatory  
Compliance

- Analysis of processes:
  - Continuous improvement

# Motivations 2

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- **Service and licensing models:**
  
- **Changes in technical environments:**
  
- **Staff changes:**

Diagram by  
Mykola Galushka

# Motivations 2

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- **Service and licensing models:**  
Declining popularity of centralized in-house businesses.  
Increasing popularity of SaaS, PaaS, (\*aaS), and IoS.
  - Protect data and functionality - escrow service

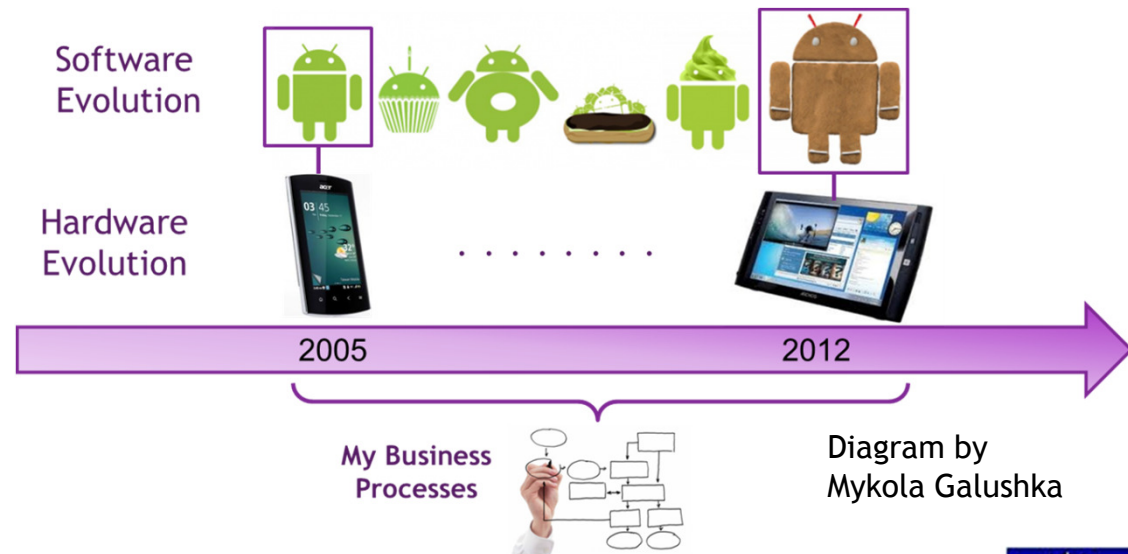
Diagram by  
Mykola Galushka

# Motivations 2

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- **Changes in technical environments:**
  - Manage services across platforms



# Motivations 2

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- **Staff changes:**
  - Knowledge retention

Diagram by  
Mykola Galushka



24 September 2012

timbusproject.net © 2011

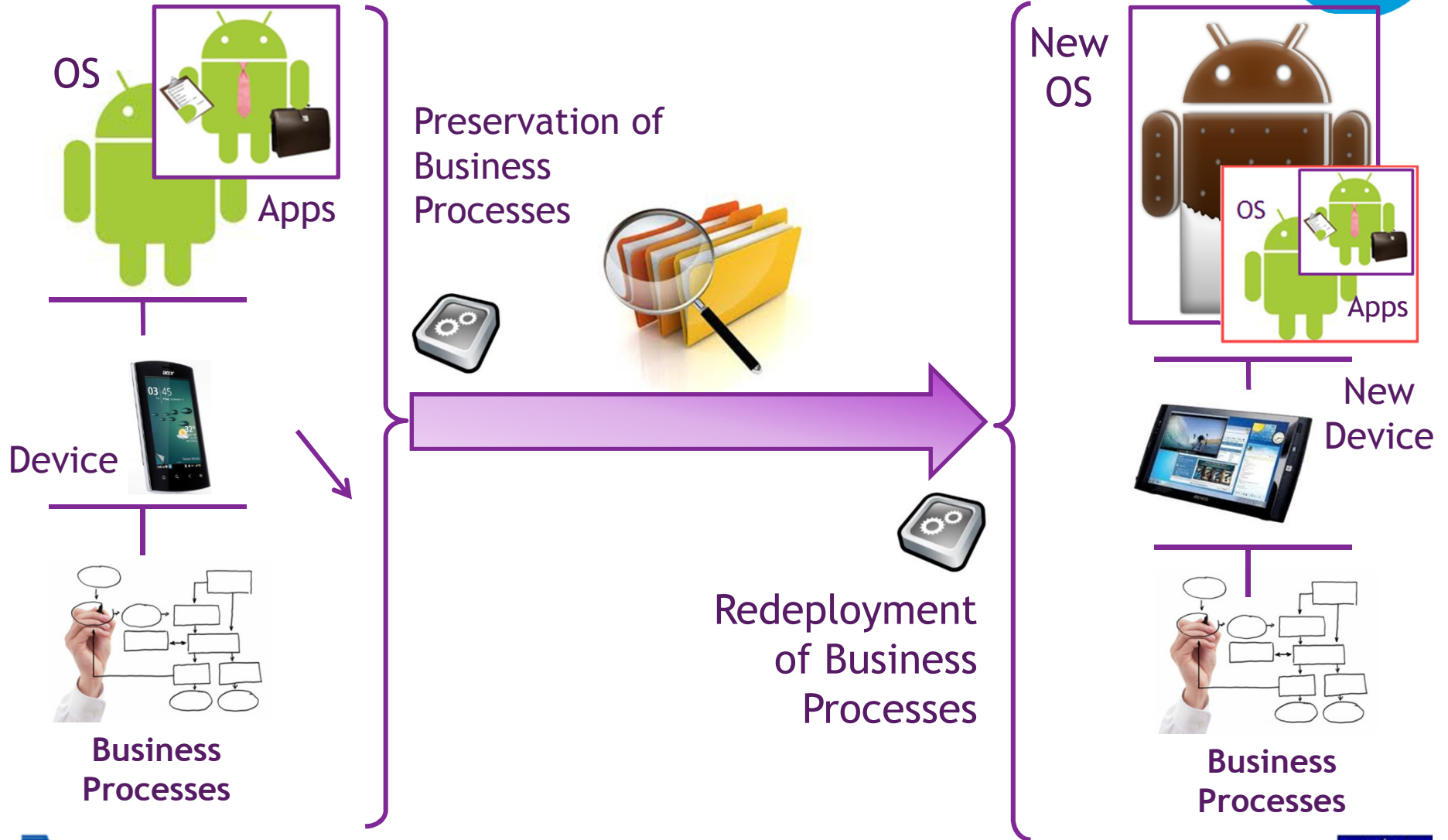
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# Vision

Slide by Mykola Galushka

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# Approach

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# Case Study: Digital Asset Migration

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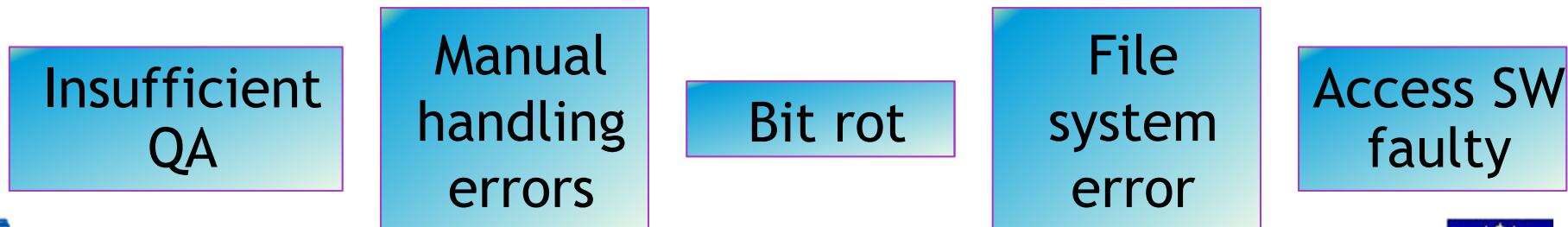
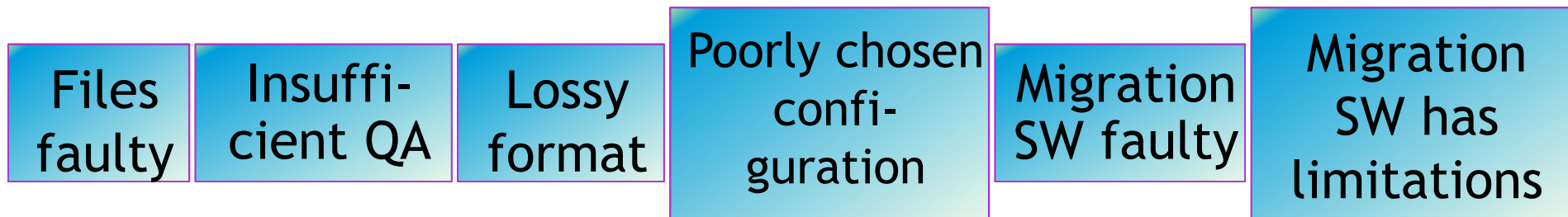


# Case Study: Digital Asset Migration

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## Enterprise Risk Management

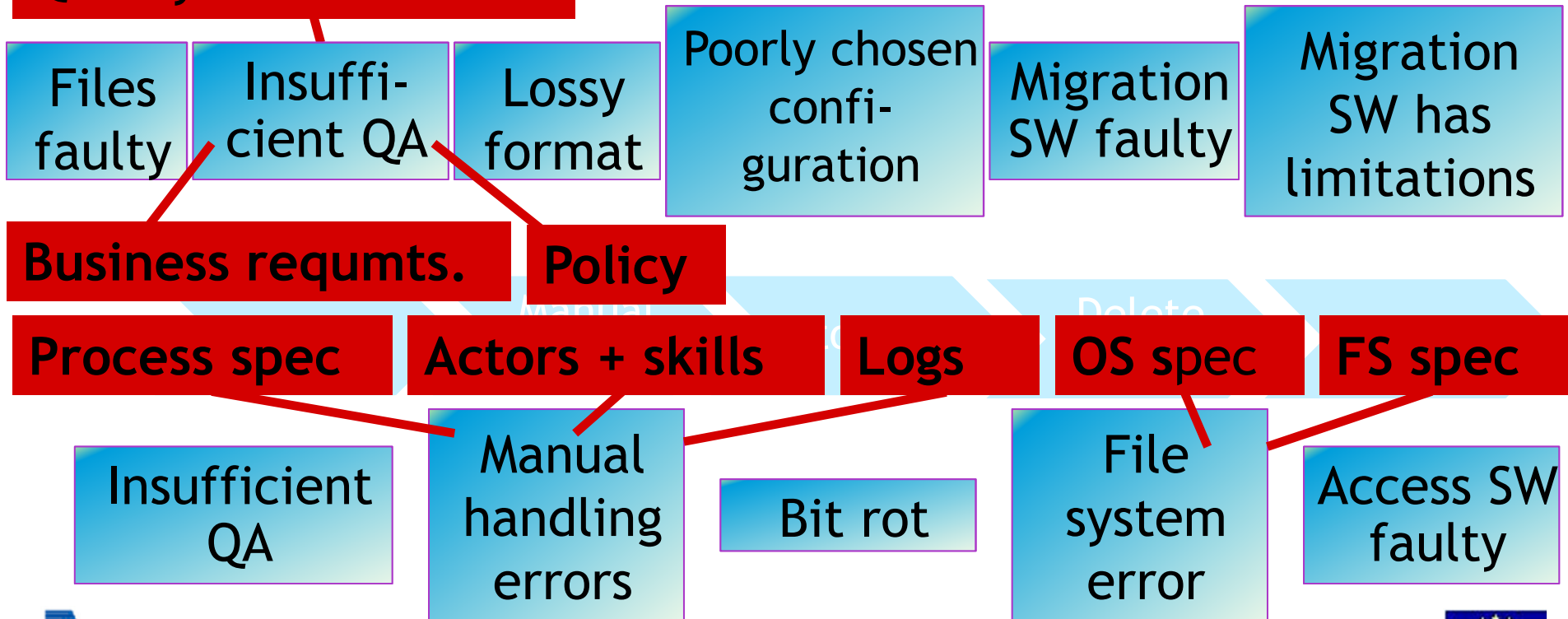


# Case Study: Digital Asset Migration



Sampling methods  
Test sets used  
Test methods  
Exception treatment  
Processes and logs  
Quality criteria

## Business Process Context Capture

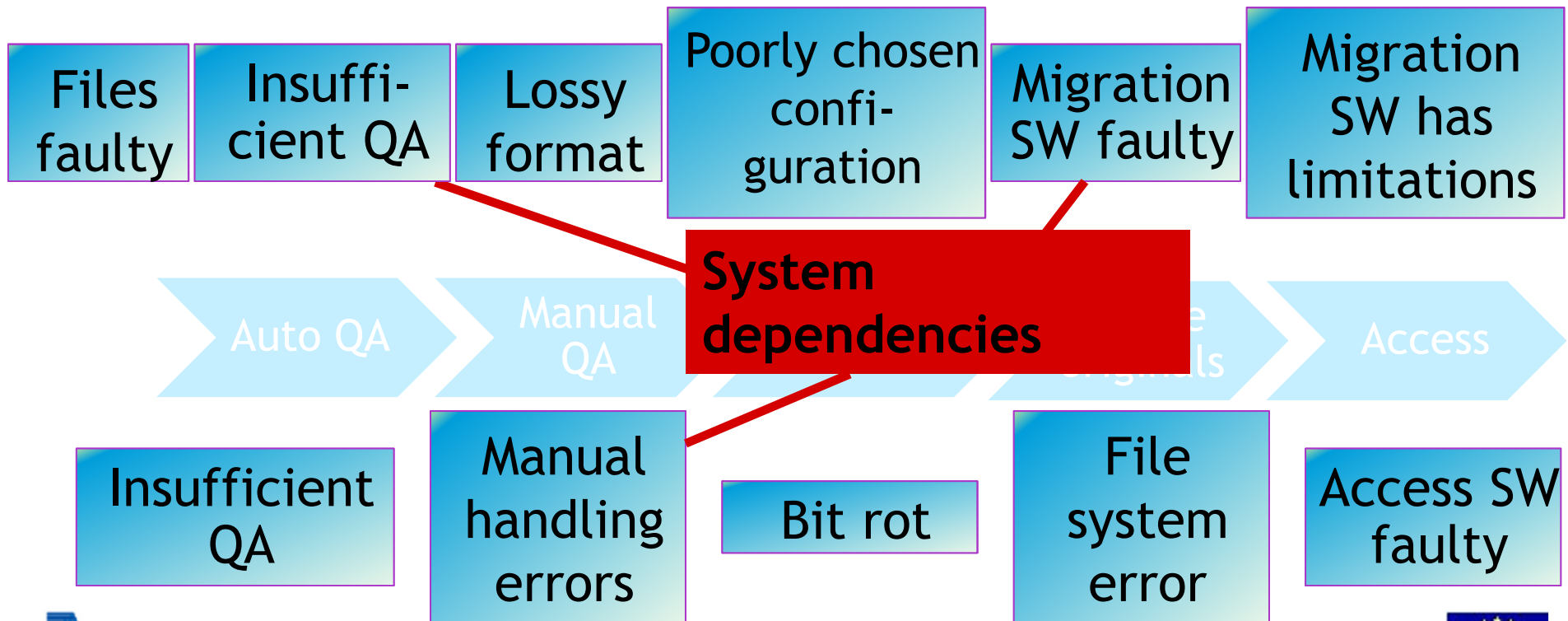


# Case Study: Digital Asset Migration

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## System Dependency Analysis

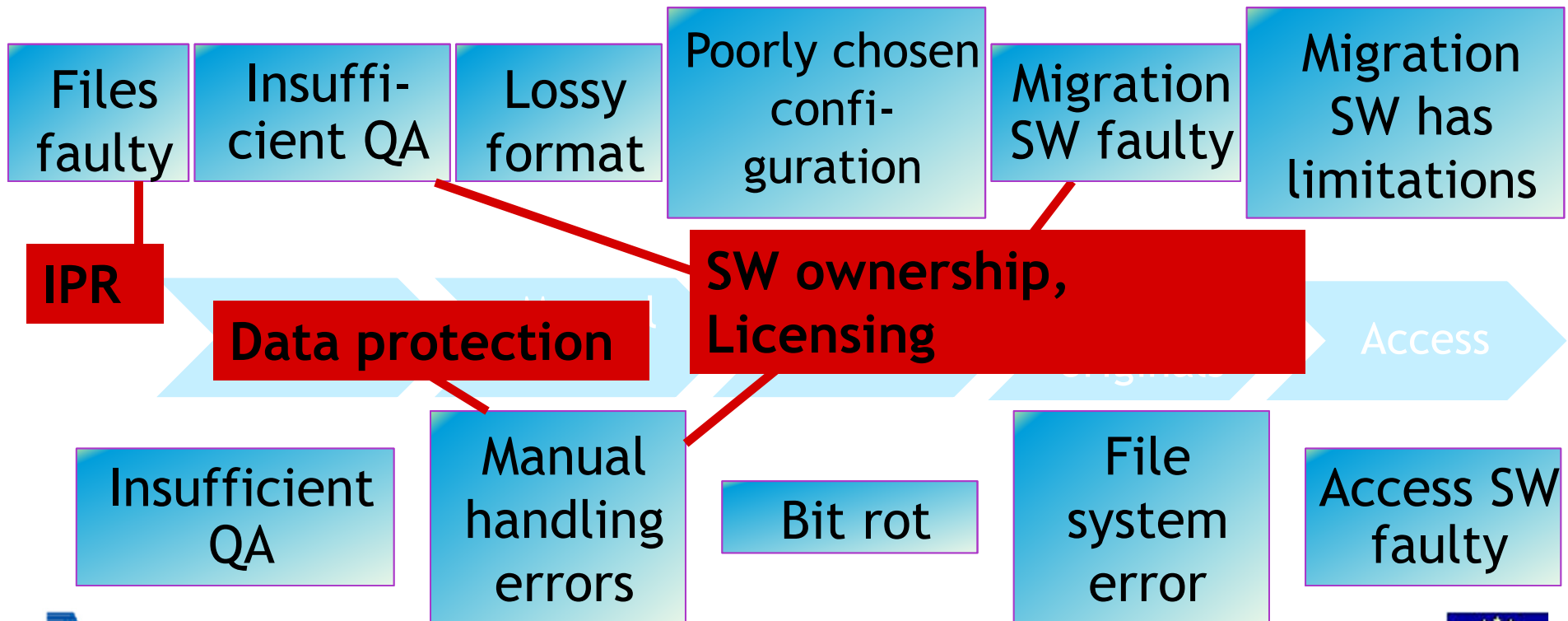


# Case Study: Digital Asset Migration

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## Legalities Lifecycle Management



# Approach

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# Thank you!

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