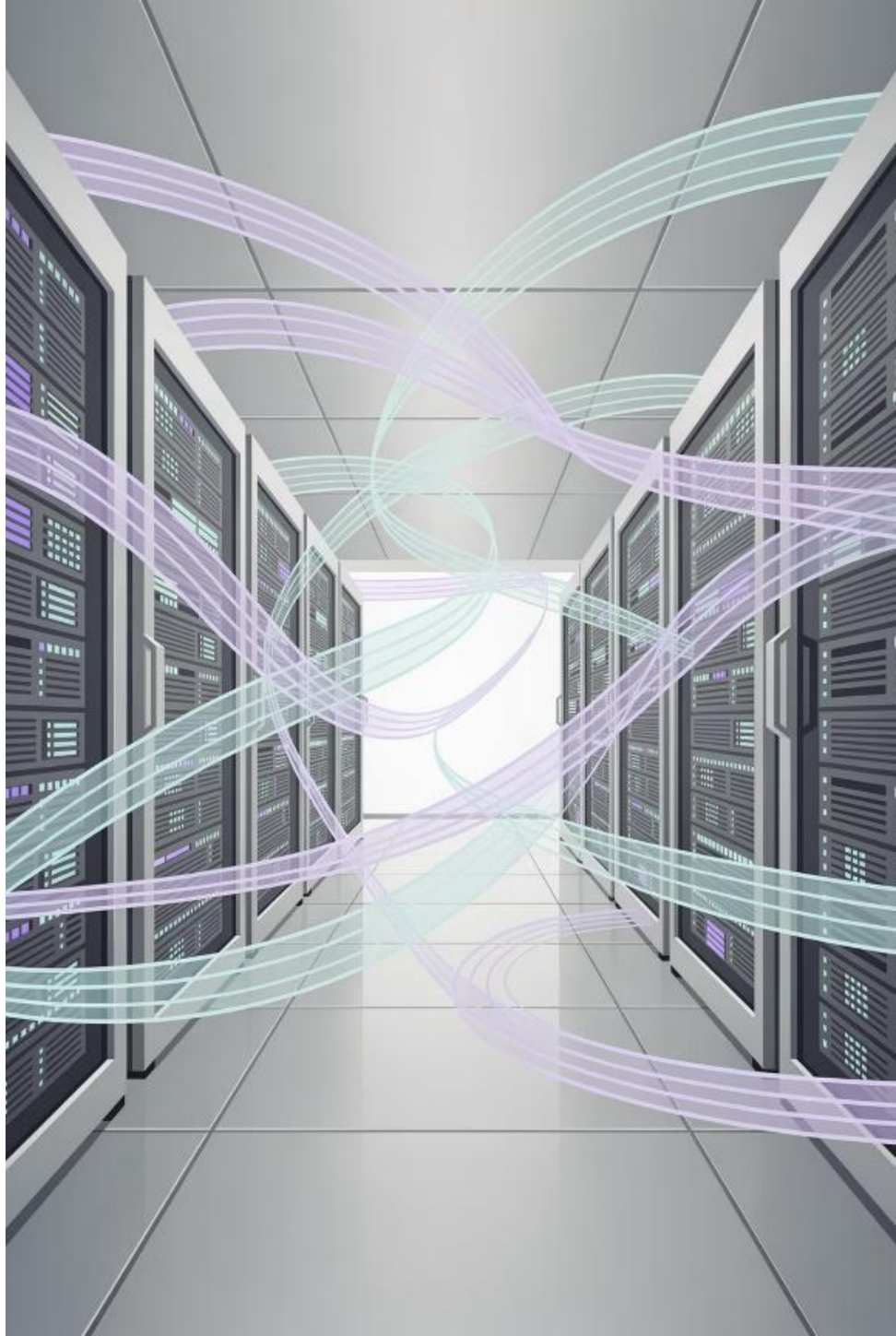
From Data Integration to Data-Driven Governance: Strengthening the Role of the National Statistical Office

Norberts Tālers
Deputy Director General for IT and Data Governance
Central Statistical Bureau of Latvia



Growing Demand for Government Data

Increasing Demand

Increasing demand from government institutions for comprehensive, high-quality datasets

Evidence-Based Policy

Data-driven decision-making and evidence-based policy planning;
Budget based on KPIs’

Granular Data

Requirement for granular data and microdata to support in-depth analysis;
Cross sector data

Maximising Value

Maximising the value derived from existing and future data assets

Reducing Administrative Burden

Current key achievement

Inter-institutional collaboration on surveys — resulting in approximately **9,800 hours saved** across **4,000 enterprises**

Alternative Acquisition

Minimising administrative burden through alternative data acquisition methods

Direct Dataset Provision

Transition from manual survey completion to direct dataset provision

Active Projects

Ongoing project with the Treasury; active discussions with major enterprises

Organizational Transformation

Process-Oriented Model

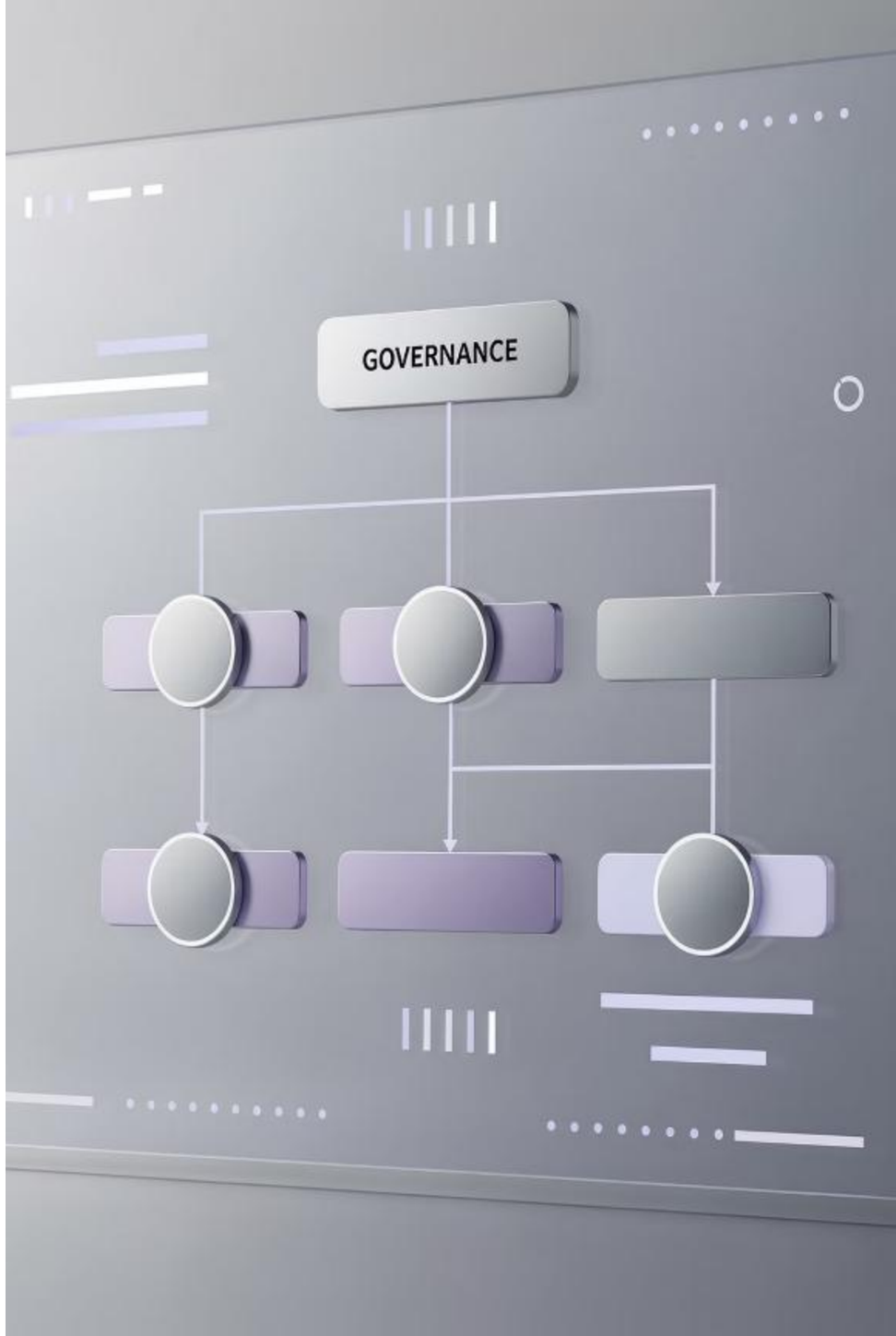
Restructuring towards a process-oriented model within statistics-producing departments

Centralised Governance

Establishment of a centralised data governance unit

Data Objectives First

All projects defined by data objectives first — determining what is needed before addressing how it is delivered



Data Governance Framework

Formalised Data Policy

Comprehensive Data Catalogue

Standardised Metadata Framework

Unified Data Structures

Automation and Systematic Data Management

Human Capital Development

Structured Training Programmes

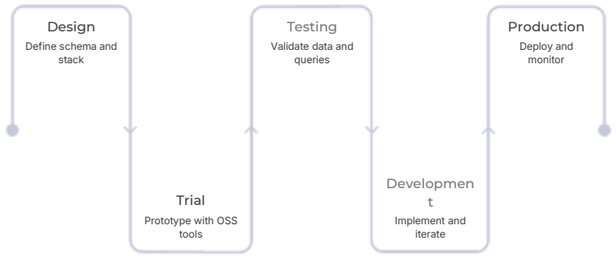
Structured personnel training programmes aligned with evolving data competencies

Strategic Workforce Optimisation

Strategic workforce optimisation to enhance operational efficiency

Technological Modernisation

Development Pipeline



Database pipeline development with structured workflow: design → trial → testing → development → production

Key Initiatives

- Transition to open-source technologies: **PostgreSQL, Python, R, and GitLab**
- Code-first approach, with interface-based systems introduced at a later stage
- Process documentation and source code version-controlled in GitLab
- Infrastructure migration to a government or dedicated data centre

Artificial Intelligence Applications

Data Processing & Quality Assurance

Data processing and quality assurance

Process Optimisation

Survey design, cognitive aspects, and paradata analysis

Data Retrieval & MCP Integration

Data retrieval and Model Context Protocol (MCP) integration

Advanced Analysis

Advanced data analysis and insight generation

Synthetic Data Generation

Synthetic datasets generation

National Context and Regulatory Framework

CSB Designated as Central Data Agency:

- New mandates under the **State Administration Structure Law**
- **Artificial Intelligence Centre Law**
- Forthcoming legislation on **health data reuse**

Ministry of Smart Administration and Regional Development Initiatives:

- Data Governance Strategy 2026–2030
- National Metadata Standard Project

Technological Ecosystem

Unified Datasets

Implementation of unified, harmonized datasets: Person, Enterprise, Geolocation

DELTA

Deployment of **DELTA** — the new data collection system

PILS

Launch of **PILS** — the new secure data processing environment

Thank You

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