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Chapter 1

INTRODUCTION

1.1 Background and Research Rationale

The Emergence of Social Sustainability Reporting (SSR)

- Under increasing stakeholder pressure, firms are progressively expected to disclose information related to their corporate social responsibilities (CSR), particularly in the social domain (Monteiro and Silva 2022).
- Such disclosures are increasingly viewed as important for reinforcing stakeholder confidence and supporting the firm's overall strategic positioning (Monteiro and Silva 2022).
- However, in practice, companies vary significantly in their readiness to implement CSR reporting.
- The social dimension has not received adequate attention (Heldal 2024).
- The social dimension is often viewed as vague, hard to quantify, and underemphasized, compared to environmental (Morais 2018) and governance aspects.

The Specific Role of the Software Industry

- Social dimensions of CSR reporting are emphasized in software services (Holder-Webb 2007), because this industry has a substantial social impact through its indirect influence via digital platforms (Jimenez 2023).
- However, there is currently no clear or tailored SSR framework that reflects the industry's particularities, such as intangible assets, remote workforce, and agile organizational structures.

1.2 Research Gap

- There is limited research on corporate readiness for social sustainability reporting during the transition to mandatory regulations in the EU (Fiechter 2022).
- Most existing studies focus on ESG in general or primarily on environmental aspects (Mani 2018), with an emphasis on industries like manufacturing, finance, or energy—sectors with more tangible datasets.
- Many current reports remain superficial and lack specific social indicators (Christensen 2021; Leal Filho 2025).
- There is an absence of sector-specific SSR frameworks (Bochkay 2025).
- It is still unclear which factors drive or hinder the readiness for SSR among software companies in Europe.

1.3 Research Objectives

Aim

To develop a structured assessment framework for measuring the readiness of software service companies in Europe to engage in social sustainability reporting.

Objectives

- Identify key SSR criteria applicable to the software industry.
- Evaluate the SSR readiness of software companies using the developed criteria.
- Analyze the key drivers and barriers encountered in the implementation of social reporting.
- Provide practical recommendations to enhance SSR readiness for digital service enterprises.

1.4 Scope and Limitations of Research

Scope

- The study focuses solely on the “Social” dimension of ESG; environmental and governance aspects are not analyzed in detail.
- The sample includes 30 medium- and large-sized software companies headquartered in Europe during 2022–2023.

- Data sources include annual reports, ESG reports, company websites, and the SRN database.

Limitations

- The analysis is restricted to the social pillar of ESG and does not address the environmental (E) or governance (G) components.
- The developed framework remains preliminary and has not been broadly validated through empirical testing.
- No internal survey or interview data is used.
- Some evaluation criteria may involve a degree of subjectivity.

1.5 Significance of the Study

Academic Contribution

- Addresses a research gap by proposing a sector-specific SSR framework.
- Offers a practical quantitative tool to assess social reporting capabilities.

Practical Contribution

- Enables software companies to self-assess their readiness considering mandatory regulations such as the CSRD.
- Provides evidence-based insights for policymakers on the current state and support needs regarding SSR.

1.6 Structure of the Research

This thesis is organized as follows:

- Chapter 1 introduces the background, research gap, objectives, scope, limitations, significance, and structure of the study.
- Chapter 2 reviews relevant literature, including definitions, sector context, theoretical frameworks, and prior research.
- Chapter 3 outlines the research methodology, including approach, data collection, assessment framework, and limitations.
- Chapter 4 presents findings and analysis from empirical research.

- Chapter 5 discusses the empirical results and their implications.
- Chapter 6 summarizes the research, key conclusions, contributions, recommendations, limitations, and suggestions for future research.
- References are provided at the end.

Chapter 2

LITERATURE REVIEW

2.1 Definitions and Sector Context

2.1.1 Overview of Social Sustainability Reporting

Social sustainability reporting in this research highlights the S-Pillar in CSR. In the literature, terms such as CSR, ‘extended external reporting’, ‘ESG reporting’, and ‘sustainability reporting’ are often used interchangeably (Edge 2022; Fiechter 2022). Sustainability reporting encompasses disclosures on social, environmental, and governance dimensions, with the social aspect focusing on issues such as labor practices, diversity, and community engagement.

Roles and Value of SSR

SSR enhances transparency and builds trust with stakeholders (investors, employees, customers, governments). It serves as a key component within broader ESG strategies and CSR agendas.

Relevant Conceptual and Standards Frameworks

- GRI Standards (Global Reporting Initiative), particularly GRI 401–405.
- ESRS S1 (European Sustainability Reporting Standards – Social 1: Own Workforce).
- ISO 26000 on social responsibility.
- SSR orientation as defined in the EU’s CSRD directive.

2.1.2 Overview of Reporting Readiness

Reporting readiness refers to the extent to which an organization possesses the capacity, systems, data, and commitment required to conduct high-quality, reliable SSR. It represents a transitional stage between awareness of SSR and successful implementation.

Key Characteristics

- **Governance:** Clear policies and assigned responsibilities for SSR.
- **Data & Infrastructure:** Availability of appropriate data and measurement systems (e.g., HRIS, ESG tools).
- **Engagement:** Involvement of internal stakeholders (HR teams, leadership) and awareness of SSR benefits.
- **Maturity Scale:** Readiness can be assessed using a maturity scale (e.g., 0–1 or 0–3) for each criterion group.

Readiness is considered an organizational capability that can evolve over time and can be measured through structured frameworks—such as the one developed in this study.

2.1.3 Overview of Software Services Sector

The software services sector is a service-based industry highly reliant on human capital and intangible assets. It is rapidly evolving with remote and hybrid work environments, facing high competition for talent and increasing expectations for attractive workplace conditions.

Role of Social Aspects

Employees are core assets; thus, working conditions, benefits, and training are of strategic importance. ESG performance increasingly influences the ability to attract B2B clients and investors.

Challenges for SSR

- Lack of standardized quantitative data and measurement systems for social indicators (Gibbons 2024).
- SSR is often perceived as unrelated to core business outcomes.
- Existing standards provide limited industry-specific SSR guidance for digital service firms.
- Many companies are SMEs with limited resources for non-financial reporting.

2.2 Theoretical Framework

2.2.1 Institutional Theory (DiMaggio & Powell, 1983)

Coercive Pressure

Legal and regulatory requirements such as the CSRD, ESRS, and EU directives mandate ESG disclosure. Transparency laws, human rights policies, and DEI reporting obligations from public institutions and industry coalitions.

Normative Pressure

Expectations from professional associations, major clients, and investors to comply with recognized reporting norms. Standards like GRI and ISO 26000 increasingly function as “soft law.”

Mimetic Pressure

Firms imitate industry leaders or competitors when SSR is seen to deliver reputational or HR-related advantages. This is particularly salient in the software sector, where best practices are quickly observed and replicated due to intense competition.

Relevance to the Study: Explains variations in SSR readiness as a result of differing levels and types of institutional pressure across firms.

2.2.2 Resource-Based View (RBV) (Barney, 1991)

Readiness as an Outcome of Internal Resources

Firms with established ESG data systems, HR software, and dedicated sustainability personnel are better positioned to measure and report social outcomes. These elements are viewed as intangible assets forming the basis for SSR capability.

SSR Readiness as a Strategic Capability

A difficult-to-imitate capability embedded in organizational culture and structure. Contributes to brand reputation, ability to attract top talent, and access to ESG-oriented capital.

Relevance to the Study: Explains why firms in the same industry and of similar size may display differing levels of SSR readiness—depending on their internal capabilities and strategic investment in social reporting.

2.2.3 Stakeholder Theory (Freeman, 1984)

Key Stakeholders Influencing SSR Readiness

- Investors: Increasingly attentive to social risks and ESG transparency.

- Employees: Expect fair, diverse, and growth-oriented workplaces.
- Customers: Prefer socially responsible partners, particularly in tech supply chains.
- Communities and Local Authorities: Demand ethical behavior, equality, and positive social contributions.

Benefits of SSR from a Stakeholder Perspective

Builds trust and credibility with key stakeholder groups. Supports a responsible corporate image—particularly important in sectors like software, where competition for talent is intense.

Relevance to the Study: Helps explain how varying levels of stakeholder pressure lead to differences in firms’ proactive engagement and readiness for SSR.

2.3 Literature Review

2.3.1 Overview of Prior Research

Many studies on CSR and sustainable development have focused on industry-specific contexts such as manufacturing, construction, and mining (Ye 2020; Afshari 2022). CSR reporting is more prevalent in environmentally sensitive industries (Lock 2016). High-tech sectors, particularly software, have received comparatively limited attention. Earlier research acknowledges that the factors influencing sustainability reporting practices are often mixed and context-dependent (Fifka 2012), and there remains no consistent framework to explain what drives or hinders SSR readiness.

ESG in the Technology Sector

The “Social” component is often the weakest in ESG disclosures due to lack of standardized indicators, perceived immateriality, or symbolic reporting (Christensen 2021; Reitmaier 2025).

2.3.2 Existing Readiness Assessment Models

- **Nava et al. (2023):** Emphasize the need for robust SDG measurement and reporting frameworks.
- **El Baz et al. (2022):** Propose a three-stage sustainability readiness framework (Approach – Deployment – Results) for Industry 4.0 adoption.
- **Afshari et al. (2022):** Present a multi-dimensional classification of Social Sustainability Indicators (SSIs), but not a formal readiness model.

- **Zopounidis et al. (2020):** Develop a multi-criteria ESG disclosure assessment framework, enabling benchmarking but not tailored to SSR readiness or the software sector.
- **Siew (2015):** Reviews corporate sustainability reporting tools, which mainly assess current reporting performance.
- **Okongwu et al. (2022):** Propose maturity models for sustainability reporting, focusing on governance, system integration, and leadership commitment.
- **Barletta et al. (2021):** Organisational Sustainability Readiness (OSR) Model assesses internal capability to implement sustainability strategies, adaptable to software services.

Identified Gap

- Absence of SSR readiness models that reflect the specific characteristics of the software industry.
- Need for an integrated framework drawing from ESRS, ISO, GRI standards, and the context of the digital economy.

2.3.3 Drivers and Challenges of SSR Implementation – Insights from Prior Studies

Drivers

- Regulatory compliance pressures (e.g., GRI, CSRD) (Reitmaier 2025), voluntary industry-specific ESG disclosure standards (e.g., SASB for Software & IT Services) (Bochkay 2025).
- Expectations from stakeholders like investors regarding transparency and ESG alignment (Bonnefon 2022), and corporate customers across supply chains (Dai 2019).
- Corporate reputation (Reitmaier 2025).
- Operational and strategic benefits from collaborative CSR initiatives (Dai 2019).
- Positive relationship between societal and ethical practices and market valuation (Chouaibi 2021).

Challenges

- Insufficiently defined social reporting standards in industry-specific contexts (Bochkay 2025).

- Limited data infrastructure and reporting systems (Troshani 2024; El Baz 2022; Jona 2023; Belal 2016).
- Power asymmetry in stakeholder relationships, especially in B2B contexts (Dai 2019).
- Risk of superficial reporting driven by reputational concerns (greenwashing) (Reitmaier 2025; Belal 2016).
- Short-term cost concerns overshadow long-term benefits (Dai 2019), high cost for auditing (Najjar 2023).

2.3.4 Analytical Orientation Informed by Prior Research

Previous studies have highlighted several factors influencing SSR readiness, including regulatory pressure (e.g., CSRD, ESRS), stakeholder expectations (e.g., from investors and clients), internal systems and organizational capabilities (Christensen 2021), and resource constraints.

Foundational theories such as Institutional Theory, Resource-Based View (RBV), and Stakeholder Theory provide a basis for understanding the key drivers and barriers to social reporting.

This study adopts an exploratory approach with the following aims:

- To construct an assessment framework for SSR readiness.
- To analyze scoring results and derive insights into prevailing trends, drivers, and challenges in the software industry.

Chapter 3

RESEARCH METHODOLOGY

3.1 Research Approach and Design

This study adopts an exploratory approach, aimed at developing and applying an assessment framework for SSR readiness.

Methodology

A mixed-methods design was employed, combining:

- Qualitative content analysis of company reports;
- Quantitative descriptive statistics;
- Framework design aligned with Design Science Research (DSR) principles.

Three main phases of the research:

1. Developing the framework, consisting of 7 main groups and 246 sub-criteria;
2. Collecting data from 30 European software companies (2022–2023);
3. Descriptive analysis to assess levels of readiness and identify key patterns.

Methodological Objectives

- Assess the social reporting capabilities of software companies;
- Identify major drivers and barriers in practice;
- Propose directions for improving the framework and aligning SSR capabilities with emerging EU regulations (CSRD/ESRS).

3.2 Research Subjects and Data Collection

3.2.1 Sampling Criteria

Sample Size

30 software companies listed or disclosing ESG information publicly in Europe (during 2022–2023).

Inclusion Criteria

- Companies operating in the software services sector, headquartered or primarily active in Europe;
- Accessibility of financial reports, ESG/sustainability reports, or other public documents for 2022 and 2023 through SRN.

3.2.2 Data Collection

Primary Sources

- Annual reports, ESG/sustainability reports, company websites;
- SRN – a centralized sustainability reporting platform.

Data Set

- Compiled SSR-related information corresponding to 246 framework criteria for each of the 30 software companies in 2022 and 2023.
- Data coded and recorded using a structured scoring sheet (Excel or qualitative coding software).

3.3 Assessment Framework and Data Analysis

3.3.1 Developing the SSR Readiness Framework

Reference Standards

- ESRS S1 – Own Workforce;
- GRI 2 – General Disclosures, GRI 401–406;
- Supplementary inputs from ISO and industry-specific documents.

Framework Structure

- A total of 246 sub-criteria (reporting items), partially derived from ESRS/GRI and supplemented by practical or sectoral inputs.
- 7 main indicator groups, each containing 2–3 mid-groups, reflecting specific social dimensions such as:
 - Workforce Characteristics
 - Working Conditions
 - Social Benefits
 - Training and Development
 - Diversity and Inclusion
 - Labor Relations
 - Personal Rights Protection

Rationale for Grouping

- Facilitates identification of thematic strengths and weaknesses;
- Enables multi-level readiness assessment – at the criterion, mid-group, and main group levels.

Scoring System

- Sub-criteria: scored 0 or 1 (No / Yes – information present);
- Mid-groups: scored from 0 to 3 (ranging from no disclosure to comprehensive, systematic, and quantitative reporting).
- Each company's total score reflects a relative level of SSR readiness.

3.3.2 Data Analysis

Analytical Steps

- Score each company based on the framework;
- Aggregate scores by thematic group;
- Compare across companies to identify common patterns and notable differences.

Descriptive Statistical Techniques

- Means, frequencies, and standard deviations for total and group-level scores;
- Visualization tools (bar charts, radar charts, etc.);
- Identify salient factors and trends in SSR readiness.

3.4 Research Ethics and Methodological Limitations

3.4.1 Research Ethics

- Only publicly available and legally accessible data from official sources is used;
- No individual company is evaluated or criticized—the goal is to provide an industry-level analysis;
- Adheres to academic integrity and protection of potentially sensitive data (if applicable).

3.4.2 Limitations

- The sample is limited to 30 companies and may not represent the entire software industry;
- Data quality is dependent on the extent and clarity of each company's public disclosures;
- The framework remains in a preliminary stage and has not been internally or externally validated.

Chapter 4

FINDINGS AND ANALYSIS FROM EMPIRICAL RESEARCH

4.1 Overview of SSR Readiness Across the Sample

4.1.1 Sample Overview

This section provides a brief description of the 30 software companies included in the sample, covering:

- Geographic distribution
- Company size (small, medium, large)
- Status of ESG/SSR report disclosure

Table 4.1: Basic Information of Sampled Companies

Company	Country	Size	Sub-sector	ESG Report
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Table 4.2: Sample Classification by Region and Company Size

Region/Size	Number of Companies	Notes
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4.1.2 Overall Results

SSR readiness scores across the sample range from X to Y (to be completed with data). There is substantial variation in average scores across companies and countries.

Table 4.3: SSR Readiness Score for Each Company

Company	Readiness Score (0–246)
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Figure 4.1: Histogram/Bar Chart of Readiness Score Distribution

Table 4.4: Average Readiness Score by Country

Country	Average Score
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4.2 Readiness by Company Characteristics

Comparison of readiness based on:

- Company size (SMEs vs. large)
- Geographic location (Western vs. Central & Eastern Europe)
- Business model
- ESG disclosure status (presence of standalone ESG report)

Table 4.5: Readiness Score by Company Characteristics

Attribute	Number of Companies	Average Readiness	Std. Dev.
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Figure 4.2: Bar Chart Comparing Readiness by Attribute Groups

4.3 Analysis by the 7 Main Framework Categories

Readiness across thematic groups:

- Compensation & Benefits: commonly reported, easy to measure
- Employee Rights & Bargaining: weakest; often avoided
- Diversity, Equity & Inclusion (DEI): more common in large companies, rare in SMEs
- Workplace Health & Safety: frequently mentioned but lacks quantitative metrics
- Training & Development: present but not well quantified
- Human Capital Reporting: unevenly developed
- Privacy & Data Protection: frequent among SaaS firms

Table 4.6: Average Readiness Score by Thematic Category

Group	Avg. Score (0–3)	Std. Dev.	% Companies ≥ 2
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Figure 4.3: Radar/Bar Chart of Thematic Readiness Scores

Table 4.7: Top 5 Highest and Lowest Reporting Sub-Criteria

Criterion Code	Description	% Companies Meeting	Notes
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4.4 Drivers and Barriers Identified from Empirical Data

4.4.1 Key Drivers of Reporting Readiness

4.4.2 Key Challenges Hindering Readiness

Table 4.8: Summary of Key Drivers and Barriers

Category	Description	Number of Companies
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4.5 Summary of Findings

- Strong and weak reporting categories
- Factors positively/negatively affecting SSR readiness
- Prepares for discussion

Chapter 5

DISCUSSION ON EMPIRICAL RESULTS

5.1 Summary of Key Findings

Brief recap of key results from Chapter 4:

- Average SSR readiness among the 30 companies
- Strongest and weakest thematic categories
- Differences across company groups (by size, geography, etc.)
- Unexpected or counterintuitive observations

5.2 Theoretical Interpretation of Results

5.2.1 Industry-Specific Challenges

Table 5.1: Industry-Specific Challenges and Theoretical Interpretation

Challenge	Theoretical Interpretation
Difficulty in collecting and standardizing non-financial data	RBV: Reflects lack of systems, tools, and personnel—organizational capabilities not yet developed
Informal labor, globalization, remote work	Institutional Theory: Fragmented settings weaken legal coherence and coercive pressure
Lack of sector-specific social standards	Institutional Theory: Normative pressure is underdeveloped; no established "social norms" for the sector
SMEs lack ESG budget/personnel	RBV: SMEs often lack the strategic resources to build internal reporting capabilities

5.2.2 Drivers of SSR Reporting

Table 5.2: Drivers of SSR Reporting and Theoretical Interpretation

Driver	Theoretical Interpretation
Regulatory pressure from CSRD, EFRAG, SEC	Institutional Theory: Coercive pressure driving behavioral change
Demands from customers and large investors	Stakeholder Theory: Stakeholder expectations incentivize transparency and reporting quality
Talent shortage → SSR used for employer branding	Stakeholder & RBV: SSR becomes a competitive advantage in recruitment and reputation
Large firms with clear ESG leadership	RBV: Strong organizational capabilities, leadership, and ESG integration into strategy

5.3 Implications for Practices

For Businesses

- SSR should be viewed not merely as compliance but as a strategic investment in long-term competitiveness (Barker 2025)
- There is a need to improve the quality of reporting and avoid symbolic or superficial disclosures (Nava 2023)
- SMEs may consider cost-sharing solutions: industry coalitions, standardized tools, and shared digital resources (Najjar 2024)

For Policymakers

- Develop sector-specific SSR guidance, particularly for technology services
- Support SMEs through simplified tools, training, tax or financial incentives
- Promote open APIs and standardized formats (e.g., SRN) to enhance comparability and transparency

For Standard-Setters and Rating Agencies

- Refine social indicators tailored to the digital sector (e.g., DEI, personnel data protection)
- Clarify materiality thresholds to reduce ambiguity in reporting

5.4 Academic Contributions

- Extends ESG research into the software industry, a largely underexplored area
- Develops a transferable SSR readiness framework applicable to other service sectors
- Integrates three organizational theories in a complementary way to explain ESG reporting behavior

Chapter 6

SUMMARY AND CONCLUSIONS

6.1 Research Summary

The primary aim of this research was to develop and apply a Social and Sustainability Reporting (SSR) readiness framework tailored for the European software sector. The research process involved designing a comprehensive framework comprising 246 criteria, systematically scoring 30 software companies during 2022–2023, and analyzing their SSR readiness levels. The study further explored key drivers and challenges influencing SSR adoption in the sector.

6.2 Key Conclusions

Overall Readiness

The analysis revealed that the overall SSR readiness among the sampled companies remains moderate, with significant variation across organizations.

Strongest and Weakest Thematic Groups

Companies generally performed best in governance and data security criteria, while environmental and social impact reporting were identified as the weakest areas.

Common Drivers

Key drivers promoting SSR included regulatory pressure, stakeholder expectations, and reputational benefits.

Major Challenges

Major challenges hindering comprehensive SSR reporting were resource constraints, lack of standardized metrics, and limited sector-specific guidance.

Unique Sector Traits

Compared to other industries, the software sector exhibited unique traits such as rapid innovation cycles, intangible value creation, and a reliance on digital infrastructure, all of which shape SSR practices.

6.3 Contributions of the Study

6.3.1 Academic Contribution

New Perspectives

This study adds new perspectives on SSR readiness within digital service industries, highlighting sector-specific challenges and opportunities.

Theoretical Synthesis

By applying a synthesis of Institutional Theory, Resource-Based View (RBV), and Stakeholder Theory, the research explains variations in SSR readiness across companies.

6.3.2 Practical Contribution

Usable Framework

The study offers a simplified and practical SSR readiness framework for software companies, enabling organizations to assess their current position and identify improvement areas.

Support for SMEs

Small and medium-sized enterprises (SMEs) can use the framework to benchmark their SSR journey and pursue collaborative or simplified solutions.

6.4 Recommendations

For Companies

Companies should treat SSR as a strategic capability, prioritize investment in data infrastructure and dedicated personnel, and SMEs are encouraged to seek collaborative solutions or adopt simplified SSR tools.

For Policymakers and Standard-Setters

Policymakers and standard-setters should develop SSR standards tailored to the software/services sector and support SMEs through model tools and open data platforms, such as APIs.

6.5 Research Limitations

Sample Size

The study is limited by a small sample size of 30 companies, all based in Europe.

Framework Testing

The SSR readiness framework remains preliminary and has not yet been widely tested.

Data Sources

The research relies solely on publicly available data, with no interviews conducted.

6.6 Suggestions for Future Research

Expand Sample and Coverage

Future studies should expand the sample size and include companies from other regions.

Cross-Industry Application

Testing the framework in other service industries, such as IT and finance, would enhance its generalizability.

Validation Methods

Incorporating surveys or expert interviews can help validate the framework's applicability.

Statistical Analysis

Deeper statistical analysis is recommended to examine the relationship between SSR readiness and business or ESG performance metrics.

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