

# Corporate Sustainability Reporting Simplified

GenAI for Sustainability

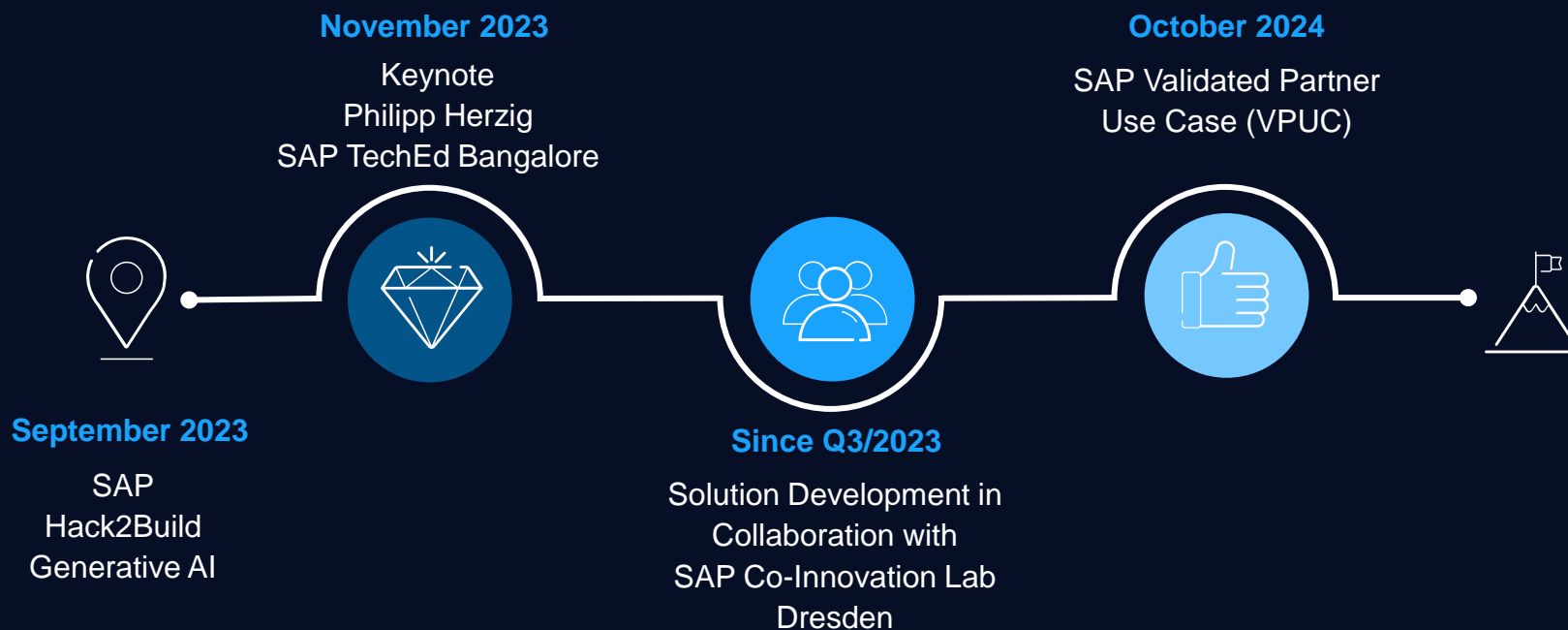
# Corporate Sustainability Reporting Simplified (CSRS)

## SAP BTP and Business AI

### About

Corporate Sustainability Reporting Directive (CSRD) aims to improve the transparency and consistency of environmental, social, and governance (ESG) reporting by companies within the European Union. It may cover a wide range of sustainability-related aspects that businesses should report on. LEs will start from 2024, followed by medium-sized enterprises, and then SMEs will follow in 2027.

AI-Powered Compliance: Meeting EU Standards with Automated Precision.



# Current situation



CSRD is coming: mandatory EU reporting on Sustainability

Over year 2025 (in 2026) The first companies to report are already reporting in 2025 for FY 2024 (those are the companies already under NFRD)

50.000 companies directly affected, many more forced by the market

The CSRD introduces stringent European Sustainability Reporting Standards (ESRS), surpassing the current Non-Financial Reporting Directive (NFRD) in disclosure depth.

# To run the reporting, companies usually need to do the following

- **Data Collection:** Gather ESG data across operations.
- **Materiality Assessment:** Identify key ESG issues.
- **Metrics and Targets:** Set measurable ESG goals.
- **Data Verification:** Validate data accuracy.
- **Reporting Frameworks:** Use recognized standards.
- **Report Compilation:** Create comprehensive report.
- **Stakeholder Engagement:** Gather feedback.
- **External Assurance:** Third-party validation.
- **Publication and Communication:** Share report widely.
- **Continuous Improvement:** Enhance sustainability efforts.

# Solution

How to address the needs



## Standard

Status:

Creator:

Last Modified:

[Adapt Filters \(1\)](#)

### Reportings

<input type="checkbox"/>	Report Title	Description	Status	Last Modified	Creator
<input type="checkbox"/>	EU Environmental Compliance Repor	Lorem ipsum dolor sit amet	In Preparation	11/15/21	Denise Smith
<input type="checkbox"/>	Impact Assessment of EU Green Deal	Lorem ipsum dolor sit amet	In Preparation	11/18/21	Paul Blevins
<input type="checkbox"/>	Sustainability and Circular Economy	Lorem ipsum dolor sit amet	New	11/21/21	Candice Brown
<input type="checkbox"/>	Carbon Footprint Reduction Strategie	Lorem ipsum dolor sit amet	Under Review	11/21/21	Richard Wilson
<input type="checkbox"/>	EU Renewable Energy Targets Progre	Lorem ipsum dolor sit amet	Approved	11/23/21	Denise Smith
<input type="checkbox"/>	Waste Management and EU Legislati	Lorem ipsum dolor sit amet	New	11/23/21	Paul Blevins
<input type="checkbox"/>	Water Quality Standards and EU Dire	Lorem ipsum dolor sit amet	Approved	11/28/21	Richard Wilson
<input type="checkbox"/>	Biodiversity Preservation	Lorem ipsum dolor sit amet	Approved	12/01/21	Denise Smith
<input type="checkbox"/>	Trading System (ETS) Analysis	Lorem ipsum dolor sit amet	Approved	12/08/21	Richard Wilson
<input type="checkbox"/>	Adapting to EU Climate Action Frame	Lorem ipsum dolor sit amet	Approved	12/12/21	Paul Blevins

## Create New Report

- 1 Report Details
- 2 Configure Data Sources**
- 3 Upload and Tag Documents
- 4 Review

### 2. Configure Data Sources

Define the API (Application Programming Interface) source for the report in this step.  
After completing the definition, please verify the connection by clicking on the 'Connection Check' button.

API Titel: \* UCI Report

Directory: \* C:\Users\JohnDoe\Documents\Projects\API\_Documentation

URL address of API: \* https://api.openweathermap.org/data/2.5/weather?q=Berlin&appid=YOUR\_API\_KEY

Password: \* *Input the password*

Connection Check

Next Step

All 1 1 1 1

#### Errors

Password is incorrect.  
Please, try it again. 1

The directory address is entered incorrectly.  
The address should be entered in the following... 1

#### Information

The API address was successfully retrieved.  
The entry is correct. 1

2

Save Draft Cancel

### Standard

Search

Status:

Creator:

Last Modified:

[Go](#) [Adapt Filters \(1\)](#)



### Reportings

[Create](#) [Edit](#) [Delete](#)

#### Report Title

#### Status

- EU Environmental Compliance Report 2024** In Preparation  
Last Modified: 11/15/21  
Creator: Charlotte Hojby
- Impact Assessment of EU Green Deal Policies** In Preparation  
Last Modified: 11/18/21  
Creator: Klaus Cole
- Sustainability and Circular Economy** New  
Last Modified: 11/21/21  
Creator: John Miller
- Carbon Footprint Reduction Strategies** Under Review  
Last Modified: 11/21/21

## EU Enviromental Compliance Report

[Edit](#) [Delete](#) [Copy](#)

Status: **In Preparation** Last Modified: Orlando, FL  
Creator: Charlotte Hojby



[Description](#) [Data Sources](#) [Documents](#)

### Description

Report Description:  
Lorem ipsum dolor sit amet consectetur. Pellentesque metus orci sed dui mauris at sed nulla. Senectus risus arcu id enim nunc. Eget nisl nunc sit morbi in dignissim. At elementum neque adipiscing ullamcorper et erat. Duis egestas viverra diam viverra montes. Eget eleifend dui pulvinar nibh integer dui. Suspendisse sed vestibulum feugiat id faucibus tempor. Turpis ut suspendisse ornare cras dui elit urna mauris diam. Mi luctus velit pretium adipiscing integer dui nibh amet.

### Data Sources

Title	Directory	URL	Password	Conection
<input type="checkbox"/> API Titel				
<input type="checkbox"/> Reporting Nov, 2024	C:\Users\JohnDoe\Docum	<a href="#">Link</a>	*****	
<input type="checkbox"/> Final Report of 2024	C:\Users\JohnDoe\Docum	<a href="#">Link</a>	*****	
<input type="checkbox"/> My Report 2023	C:\Users\JohnDoe\Docum	<a href="#">Link</a>	*****	
<input type="checkbox"/> CustomReport	C:\Users\JohnDoe\Docum	<a href="#">Link</a>	*****	



### Standard

Status:

Search

Creator:

Last Modified:

**Go** Adapt Filters (1)

### Reportings

Create Edit Delete

#### Report Title

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- Carbon Footprint Reduction Strategies** Under Review  
Last Modified: 11/21/21

## EU Environmental Compliance Report

**Edit** **Delete** **Copy**

Status: In Preparation Last Modified: Orlando, FL  
Creator: Charlotte Hojby

Description Data Sources **Documents**

### Uploaded Documents

Search  **Add** **Delete**

<input type="checkbox"/>	Document	Type	Tags	Date
<b>&gt; August 2024</b>				
<input type="checkbox"/>	EU Lorem Ipsum	PDF	Sustainability	06/08/2024 >
<b>Total 1 Document</b>				
<b>&gt; April 2024</b>				
<input type="checkbox"/>	Impact April 2024	PDF	Sustainability	05/04/2024 >
<input type="checkbox"/>	Sustainability and Economy	DOC	Report	05/04/2024 >
<input type="checkbox"/>	Reporting	TXT	Normalization	05/04/2024 >
<b>Total 3 Documents</b>				
<b>&gt; February 2024</b>				
<input type="checkbox"/>	Reporting 1516	PDF	Economy	08/02/2024 >
<input type="checkbox"/>	Reporting 1516	DOC	Economy	08/02/2024 >
<b>Total 2 Documents</b>				
<b>Total 6 Documents</b>				

Standard

Not Filtered

**E - Environment**

- E1 - Climate change
- E2 - Pollution
- E3 - Water and marine resources
- E4 - Biodiversity and ecosystems
- E5 - Resource use and circular economy

**S - Social**

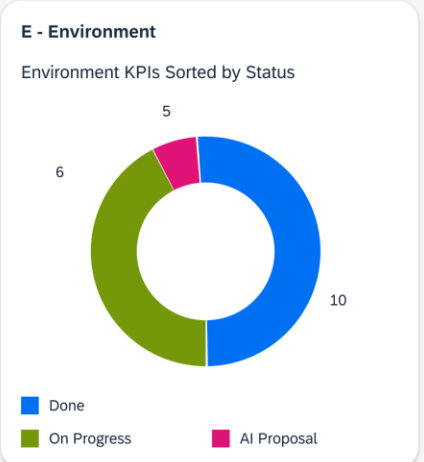
- S1 - Own workforce
- S2 - Workers in the value chain
- S3 - Affected communities
- S4 - Consumers and end-users

**G - Governance**

- G1 - Business conduct

**E - Environment** 3 of 5

- E1 - Climate change** ✘ AI Proposal  
 Date of Processing Jul 10, 2021  
 Subtitle lorem ipsum Lorem Ipsum  
 Lorem Ipsum Lorem Ipsum  
 30%
- E2 - Pollution** ✔ Done  
 Date of Processing Jul 10, 2021  
 Subtitle lorem ipsum Lorem Ipsum  
 Windows 10 Starter Lorem Ipsum  
 91%
- E3 - Water and marine resources** ⚠ In Progress  
 Date of Processing Jul 10, 2021  
 Subtitle lorem ipsum Lorem Ipsum  
 Lorem Ipsum Lorem Ipsum  
 74%



**E - Environment**

KPI Name	Date of Processing	State	Lorem Ipsum
E1 - Climate change	Jul 10, 2021	AI proposal	Place for more Data
E2 - Pollution	May 15, 2022	AI proposal	Place for more Data
E3 - Water and marine re	Aug 15, 2023	In Progress	Place for more Data
E4 - Biodiversity and eco:	Aug 15, 2024	Done	Place for more Data
E5 - Resource use and ci	Sep 15, 2024	Done	Place for more Data

**E - Environment** 3 of 5

- E1 - Climate change** ✘ AI Proposal  
 Date of Processing Jul 10, 2021
- E2 - Pollution** ✔ Done  
 Date of Processing Jul 10, 2021
- E3 - Water and marine resources** ⚠ In Progress  
 Date of Processing Jul 10, 2021

UHU Sustainability Report
Second Title

Search

## Standard

Not Filtered

**E - Environment**

- E1 - Climate change
- E2 - Pollution
- E3 - Water and marine resources
- E4 - Biodiversity and ecosystems
- E5 - Resource use and circular economy

**E - Environment**

KPI Name	Date of Processing	State	Lorem Ipsum
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E4 - Biodiversity and eco:	Aug 15, 2024	Done	Place for more Data
E5 - Resource use and ci	Sep 15, 2024	Done	Place for more Data

**E1 - Climate Change**

Transition plan for climate change mitigation

Targets related to climate change mitigation and adaptation.

⚠ In Progress
Open

**E2 - Pollution**

Targets related to pollution

Whether and how its targets relate to the prevention and control of different emissions.

⚠ In Progress
Open

**E4 - Biodiversity and Ecosystems**

Policies related to biodiversity and ecosystems

This KPI focuses on tracking trends in climate change mitigation efforts and the allocation of resources towards these initiatives.

i AI proposal
Open

**E - Environment**

Environment KPIs Sorted by Status

Done

On Progress

AI Proposal

**E5 - Resource use and circular economy**

Targets related to resource use and circular economy

This KPI focuses on tracking trends in climate change mitigation efforts and the allocation of resources towards these initiatives.

i AI proposal
Open

**E3 - Water and marine resources**

Policies related to water and marine resources

Information on the policies the undertaking has in place to manage its material impacts, risks and opportunities related to water and marine resources.

✔ Done
Open

SAP UHU Sustainability E1 - Climate Change

**Standard**

Search

AI Status: All

User Status:

Total Status:

Changed On: Dec 22, 2021

Go Adapt Filters (1)

**Chapters**

**Subchapters**

Subchapter	State
<input checked="" type="checkbox"/> E1-1 para. 16a	New
<input type="checkbox"/> E1-1 para. 16b	New
<input type="checkbox"/> E1-1 para. 16c	In Progress

**E1-1 para. 16a**

Transition plan for climate change mitigation

Last Change: 10.10.2023 KI Status: New User Status: Open Total Status: Open

Change by: Max Müller

Options: Export PDF, Export Word, Change History, Lorem Ipsum

**Change History**

Of the Report

2021

2022

2023

John Miller added an event 7/22/2023 at 2:23 PM  
Regenerate the Report: Lorem ipsum More

Eva Smith added a call log 7/20/2023 at 4:45 PM  
Regenerate the Report: Sample Text for a note type item Lorem ipsumlor sit amet for a note type item umlor... More

John Miller added an event 7/19/2023 at 2:56 PM  
Manually Edited Text: Edit manually Lorem ipsumlor sit amet for a note type item umlor umlor sit amet. Less

**Report**

Generated Report from AI:  
A robust transition plan for climate change mitigation involves transitioning to renewable energy sources, improving energy efficiency, and enhancing carbon capture technologies. Key elements include policy frameworks to support clean energy investments, incentivize emissions reductions, and ensure equitable socio-economic impacts. Effective coordination among governments, businesses, and communities is essential to accelerate progress and achieve sustainability goals.

Edited Custom Report:  
A successful transition plan for climate change mitigation involves shifting to renewable energy, enhancing energy efficiency, and developing carbon capture technologies. Critical components include policies to support clean energy investments, incentives for emissions reductions, and ensuring socio-economic fairness. Collaboration among governments, businesses, and communities is vital to expedite progress and achieve sustainability objectives.

**AI Analyzed Documents**

List of Documents for the Report

Document Titel	AI Match	Document Type	Report Line	Text Line and Page
Employee Safety	90%	PPT	1	12, 34
Workplace Safety	90%	PPT	4	1, 7
Incident Reportin	85%	Word Doc	8	10, 37
Emergency Respc	70%	Share Point	10	23, 7
Personal Protecti	70%	PDF	5	8, 7
Safety Inspection	55%	PDF	6	10, 7

Filters

List of para. of the selected Sub Chapter

More Informations

List of Documents for the Report

Document Titel	Document Kategorie	AI Match	Document Type	Report Line	Upload Date	Text Line and Page
Employee Safety Handboo	Guideline	90%	PPT	1	11/15/21	12, 34
Workplace Safety Procedu	Safety Data Sheets	90%	PPT	4	11/18/21	1, 7
Incident Reporting Guideli	Logs and Reports	85%	Word Doc	8	11/21/21	10, 37
Emergency Response Plan	Procedural Manuals	70%	Share Point	10	11/21/21	23, 7
Personal Protective Equipir	Audit Findings	70%	PDF	5	11/23/21	8, 7
Safety Inspection Checklis	Risk Analyses	55%	PDF	6	11/25/21	10, 7

Change History

Of the Report

2021

2022

2023

John Miller added an event 7/22/2023 at 2:26 PM  
Regenerate the Report: Lorem ipsumlor sit amet for a note type item umlor... More

Eva Smith added a call log 7/20/2023 at 3:56 PM  
Regenerate the Report: Sample Text for a note type item Lorem ipsumlor sit amet for a note type item umlor... More

Suchen

Custom filtering demo showing Laurent as credit analyst

2007

01.01.07 um 09:00  
**Embedded control**  
This text is still searchable due to the filter events.  
First link  
Second link

2012

Alain Chevalier Credit Analyst  
22.03.12 um 09:00  
Responsible for a high number of accounts (ca. 4000 customers). Monitor the credit risk of his customers. Focus on changes in his customer's credit situation. Recurring checks on a regular basis...  
weitere

2013

Laurent Dubois Accounts Payables Manager  
12.06.13 um 09:00  
Plans, organizes and manages the operations and activities of an accounts payables. Supervises employees and monitors activities. Final check of accounts payable payments and sign off. Reporting to the head of financ...  
weitere

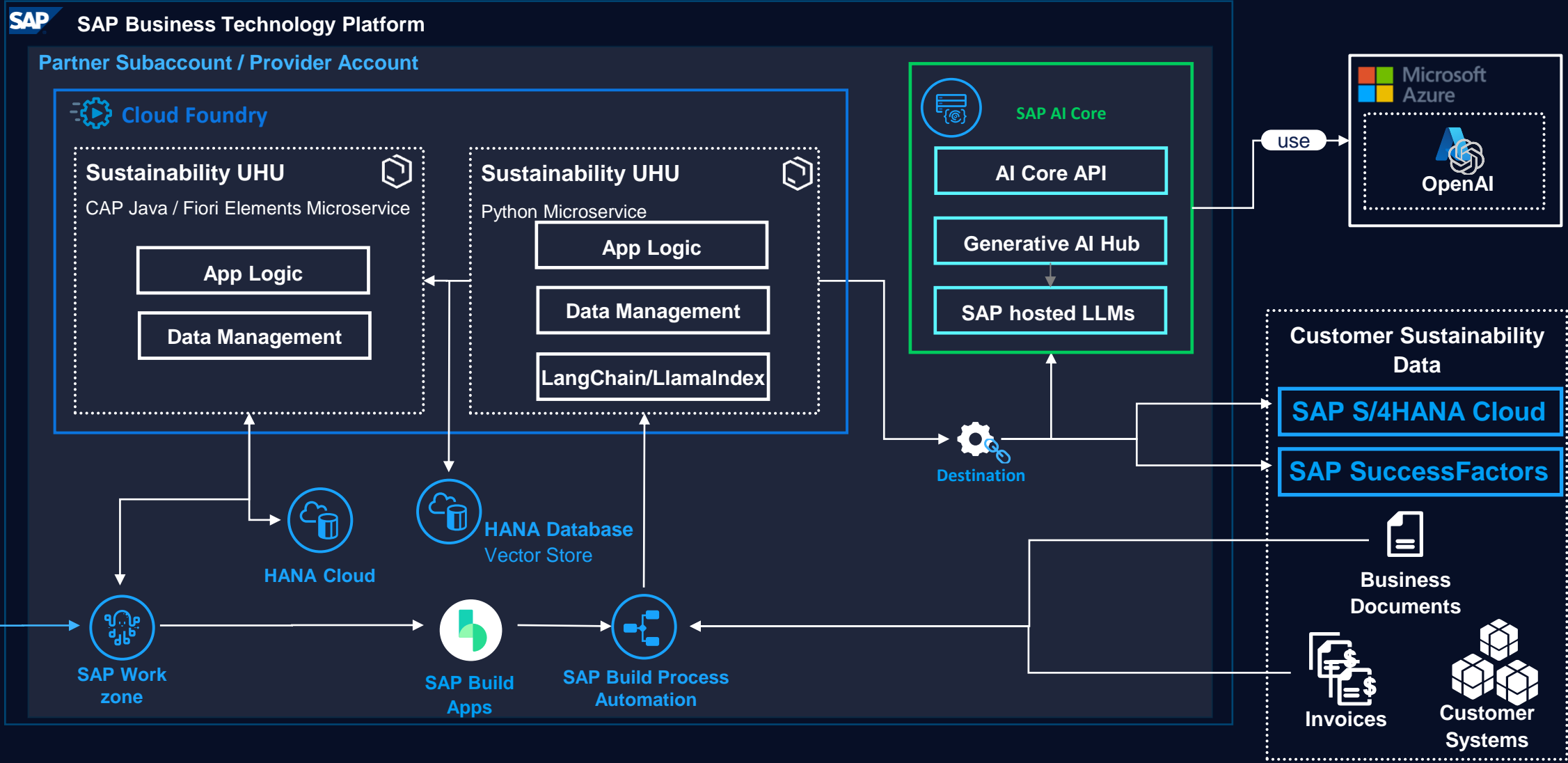
Sabine Mayer Configuration Expert  
12.08.13 um 09:00  
Implementing new Public Cloud ERP Financials system into his company and keeping it aligned with business. During the initial set-up of an ERP system Customizing Financial Accounting settings such as organizational...  
weitere

# Examples of AI generated Sustainability Report

		<p>avoid impacts on affected communities, particularly concerning water and marine resources. Our approach is deeply rooted in collaboration and co-innovation, ensuring that our operations do not adversely affect local communities. As highlighted by Vang Jessen, our structured program, LACE (Land, Adopt, Consume, Expand), emphasizes not only the provision of cloud software but also its optimal usage, ensuring that our customers benefit fully from our solutions (NDBS_Annual Report 2020, p. 20). This model fosters a triangular relationship between SAP, NTT DATA Business Solutions, and our customers, aiming for mutual success and minimizing any negative</p>
E3-1	<p>Chapter: Own workforce Sub-Chapter Topic: Processes for engaging with own workforce and workers'</p>	<p>In 2025, NTT DATA has continued to prioritize the engagement of its workforce and workers' representatives in managing the actual and potential impacts on its own workforce. This engagement occurs at multiple stages, including the initial planning, implementation, and review phases of various initiatives. The type of engagement includes regular surveys, focus group discussions, and town hall meetings, which are conducted on a quarterly basis to ensure continuous feedback and involvement from employees. For instance, during the</p>
S1-2_27b	<p>Chapter: Business conduct Sub-Chapter Topic: Business conduct policies and corporate culture Datapoint: cover the following aspects related to the undertaking's policies on business conduct matters: beyond the procedures to follow-up on reports by whistleblowers in accordance with the applicable law transposing Directive (EU)2019/1937, whether the undertaking has procedures to investigate business conduct incidents, including incidents of corruption and bribery, promptly, independently and objectively;</p>	<p>At NTT DATA, we are committed to maintaining the highest standards of business conduct and corporate culture, as outlined in our comprehensive policies and procedures. Our approach to business conduct matters extends beyond compliance with the applicable laws transposing Directive (EU) 2019/1937 on whistleblower protection. We have established robust procedures to investigate business conduct incidents, including those related to corruption and bribery, promptly, independently, and objectively. For instance, our "Safe Workplace - Anti Sexual Harassment Policy" ensures that all complaints or information about sexual harassment are investigated thoroughly and confidentially, whether reported verbally or in writing. Investigations are initiated immediately and completed as soon as possible, with due process accorded to all involved parties to protect their rights to a fair and impartial investigation (Document: NDBS_Safe_workplace_Anti_Sexual_Harassment_Policy_EN.pdf, Page 13).</p>
G1-1_10e		<p>Furthermore, our "Code of Conduct" mandates that all business activities be conducted in compliance with relevant laws and regulations, including anti-bribery and anti-corruption laws. We do not tolerate any form of bribery or corruption, whether in dealings with business partners, public officials, or third parties. Violations of these policies can lead to severe consequences, including the immediate termination of business relationships and disciplinary actions against employees, up to and including termination of employment (Document: NDBS_Code of Conduct_EN.pdf, Pages 6-7; Document: NDBS_Code of Conduct Conduct Suppliers_V1_published Version.pdf, Page 5).</p> <p>Our commitment to ethical business practices is further reinforced by our adherence to fair competition laws, insider trading regulations, and the protection of intellectual property. We ensure that all employees and business partners understand and comply with these standards, creating an environment that encourages ethical behavior and compliance with the Code of Conduct (Document: NDBS_Code of Conduct_EN.pdf, Pages 22-24). This comprehensive approach to business conduct not only safeguards our corporate values but also enhances our trust with society and supports our sustainable development.</p>

# Instead of manual processing, GenAI is used to automate the process

- **Employ GenAI** to design an **automated procedure to collect all required documents & reporting standards** from customer systems and the CSRD specification
- Generative AI is used to **search, process and analyze the collected documents** to extract all relevant information for CSRD reporting.
- After AI driven parsing of the relevant information, **the CSRD responses are automatically generated** and calculated, visualized and the corresponding report is published.
- For validation and explain ability purposes, **the whole generation process can be made transparent to users** right down to the lowest level of which information was taken from which source.



**CSRD Specification changes do not need much manual effort**, due to:

- Automated analysis of CSRD specification and
- Automated KPI definition extraction

**Manual effort to identify, collect and compile all necessary CSRD information** is greatly reduced by:

- Automated document information extraction
- automated information extraction from connected SAP systems
- Automated KPI calculation/generation

**Traceability/ Explain ability is guaranteed by:**

- Specifying precisely based on which information and from which document/source/sap system a given KPI value was generated/calculated.





# Simplified Corp. Sustainability Reporting with SAP® GenAI on BTP

## Business and technical Challenges and Opportunities

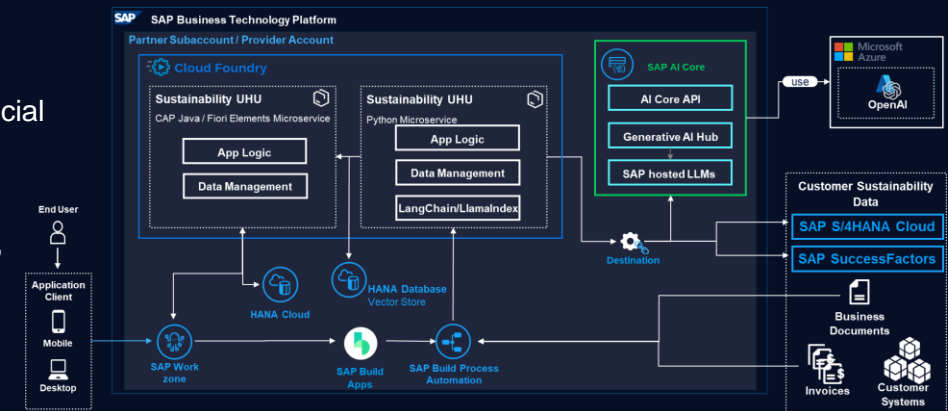
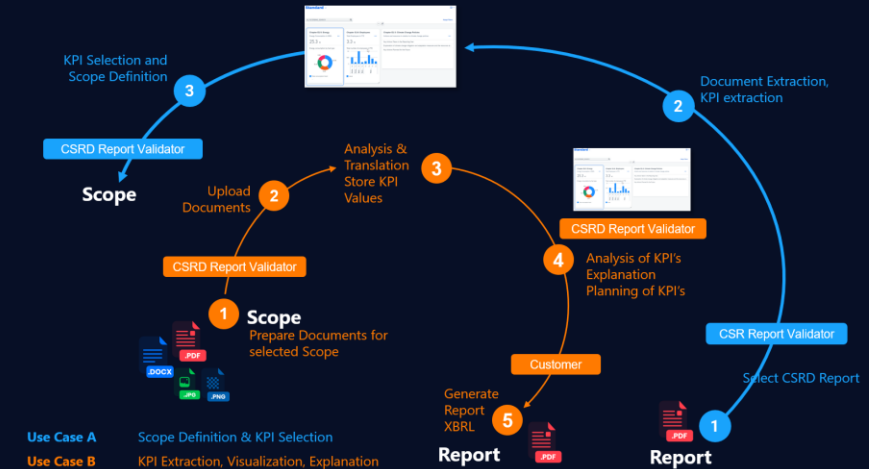
Corporate Sustainability Reporting Directive (CSRD) aims to improve the transparency and consistency of environmental, social, and governance (ESG) reporting by companies within the European Union. It may cover a wide range of sustainability-related aspects that businesses should report on. LEs will start from 2024, followed by medium-sized enterprises, and then SMEs will follow in 2027.

## Solution

- Automated procedure to collect all required documents & reporting standards from customer systems.
- Generative AI is used to search, process and analyse the collected documents to extract all relevant information for CSRD reporting.
- After AI driven parsing of the relevant information, the CSRD responses are automatically generated and calculated, visualized and the corresponding report is published

## Solution Benefits

- Significant time savings on easy to user interface and guided procedure with ai powered data analysis, explanation & reporting capabilities (Co-Pilot for Corporate Sustainability Experts)
- Data Integration: integrate data from diverse sources into a centralized database for analysis, including financial data, energy consumption, carbon emissions, supply chain data, and more
- Document Analysis: analyses unstructured data, such as sustainability narratives in annual reports
- Automated Report Generation: generate standardized sustainability reports in various formats, such as PDF, XBRF and others



YouTube : <https://youtu.be/UALRmBJZ-14>

