

# Security Approach

Status	Approved
Owner	Stefanie Schwartz
Stakeholders	Marie Flourie, tbc

## Issue

Carbon accounting solution required for Sysensqo as part of ERP Rebuild project.

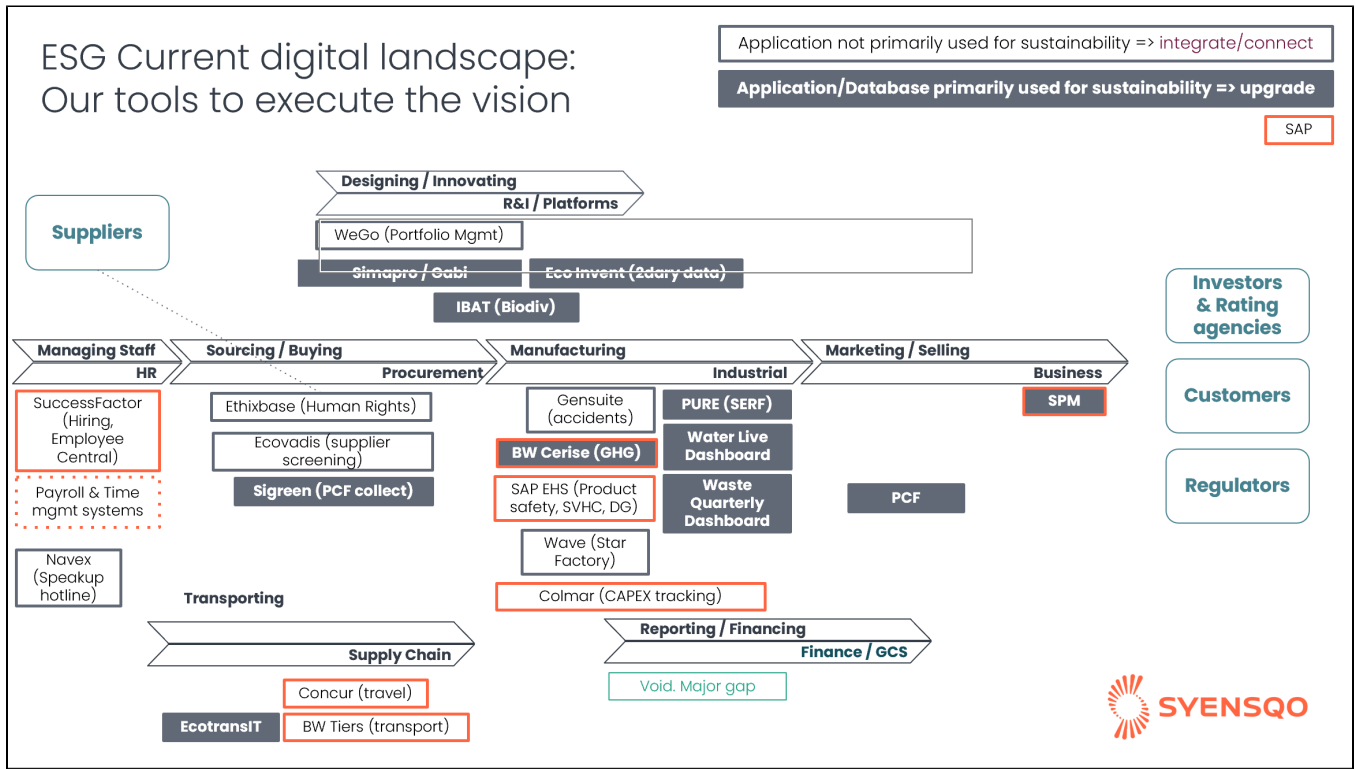
Determine to what extent SAP tools can manage the business and system process to cover scope of AS IS third party applications (TPAs) for Sustainability. May require creation of further KDDs to cover specific TPAs.

## Recommendation

Harmonise current ESG landscape.

## Background & Context

### ESG Landscape As Is



### SAP Applications to upgrade:

- BW Cerise (CO2 Energy Report Improvement Software Efficiency) - Automatic reporting of GHG (greenhouse gases) and ETS (Emissions Trading System) allocations for all sites.
  - Carbon accounting/ - uses Cerise. Not an SAP module. Home developed in BW. BW not used in way it is meant to work. Master data created directly created in BW. Green Ledger in SAP. New KDD. No formal ground work done in past. Cerise is recent development. There was no formal RFI. Cerise currently only scope 1 and 2. Scope 3 with 15 subcategory. New carbon accounting solution to cover all categories, not patchwork. Green Ledger ?
  - Dashboard access Qkiksense.
  - Reporting Architect

- Emissions management S/4HANA as future tool to replace non-SAP applications?

#### SAP Applications to integrate/connect:

- SAP EHS (Product Safety, SVHC, DG)
  - SVHC: SPM box connection. Assess sustainability, checks toxicity and ecotox. As Is no integration. would be better to integrate. CSRD report not including SVC and SVHC. SAP have developed product for Prod Compl. May resolve Prod Compl and GTS and Sustainability. **Question SAP.**
- Colmar (CAPEX tracking) - CAPEX - increased needs, covered by Finance
- Concur (travel) - **Finance/Payroll**
- BW Tiers (transport) - **Reporting architect?**
- SuccessFactors (HR) - SAC dashboard relating to SuccessFactors - bad experience, horrible performance. about 2 years ago. big project for all HR reporting. Catastrophe.
  - **HR architect?**
  - Pay Equity - new regulatory requ. Already some country regs moving to EU and US e..g on gender pay. Need to compute 3 types of ratios. source data is in SAP payroll and time mgmt. Other non-SAP tools e.g Mercer. Link up with HR architect. today payroll not in Successfactor. **To Be?**

#### Non-SAP Applications to upgrade:

##### LCA:

- NEW RFI Simapro - LCA (Life Cycle Assessment) software to quantify environmental product development objectives. Will be in R&I scope.
  - **QlikSense integration change?**
- NEW RFI Gabi - LCA software for profiles of carbon, water and product environmental footprints. R&I tool, should in R&I scope.
  - LCA - SQO launch Proof of Concept for automation. Today Simapro/Gabi. **PCF in SAP only one dimension of LCA. Happy to consider SAP.**
- IBAT (biodiversity)
- Pure (SERF) - Emissions and water, survey tool to manage the reporting campaign to collect all the HSE KPIs. It includes plausibility checks, simple calculations, KPI ownership management. Connected to Gensuite to receive reported accidents.
  - Water Live Dashboard - Water live dashboard connected to MES to debimeters, sensors, water meters. Not SAP.
  - Waste Quarterly Dashboard
  - QlikSense integration
- **EcotransIT (World)** - The most widely used software worldwide for the automatic calculation of energy consumption, carbon emissions, air pollutants, and external costs. Contract not signed, yet, under negotiation. Database, no software. Should be in carbon accounting blue box middle. Should be part of scope 3 transport related emissions. May be covered by **Green ledger.**
- QlikSense - integrates with SPM, PURE (SERF), BW Cerise.
- Supplier questionnaires - **Ethixbase** only for human rights. too narrow. Reporting requ for value chain up and downstream by 2027. RFI to replace Ethixbase in Sep24. **SAP may be considered.** May need short/mid term solution until long term in e.g **SAP** ready.
- Ren energy dashboard - purely in xls.
- **Waste mgmt** module in **SAP S4 HANA** is being looked into as should be in SAP from Marie's point of view. Harmonisation.

#### Non-SAP - out of scope for ERP Rebuild:

##### LCA

- EcolInvent (2ndary data) - library of emission factors. Linked to SimaPro. Database only, not software. Connected to LCA. Commercial issue as data bought through software lincence in Simapro. No further improvement.
- Sigreen (PCF collect) - SaaS aiming at facilitating the exchange of PCF within the value chain. It was co developed with TfS. Interested to see what SAP propose. Sector federation decision to chemical industry in 2024 from RFP two years. Syensqo cannot chose, collective decision. No change. **Tableau - PCF.**
- Ecovadis (supplier screening) - no questionnaire, prebuild questionnaire. same as Sigreen, collective choice by federation. No change.
- Wave (Star Factory) - Consumed by sustainability. Tool of McKinsey. PMO tool, project mgmt tool.
- WeGo (Portfolio Management) - project mgmt tool, managed by R&I and IT.
- SPM - SPM (Sustainable Portfolio Mgmt) - SPM is a custom built tool in SAP that standardizes and records sustainability assessments in order to support decision making processes. It combines:
  - on the vertical axis: the monetization of all the environmental impacts based on the ecoprofile done in **simapro (excel upload)**
  - on the horizontal side, the market positioning based on a form
 The evaluation is done on a data object called PAC (Product in Application) that is linked via correlation tables to products and end uses in order to allow the visualisation of the sales for each SPM category. custom build by Solvay. SAP not right, too bespoke. Will remain out of scope. Just needs improvement. ABAP developed. Form technology. To BE webforms, not SAP.
  - **RFI?**
  - **Timeline RFI vs ERP if future not SAP**
  - **QlikSense integration**
- Gensuite should stay, sustainability just consumes. unlikely to be consumed by SAP.

## Ongoing Projects

### RFI ESG Disclosure and Performance

ESG Disclosure and Performance - SAP not mature enough with SCT (Sust Control Tower). Could be revisited in 3 years. Roadmap? SAP did not answer RFI, just off the shelf ppt. Access issues to links.

Gensuite one option. Synergies with reporting. Target state data capture and clean up close to source. May mean movin away from Gensuite to where data ownership, modelling is more frequent. Gensuite not right fit, maybe more towards Microsoft. Pilot in autumn to test automation of env metric, modelisation for data cleaning and then consume clean data on corporate level.

Shortlist of two, favourite Greenomy as short term solution so not overspend. Plug and play. Recommendation given, waiting for decision

Launch of Sustainability Control Tower RFI, extended to SAP, SAP invited to answer. Unlikely they will be shortlisted. RFI to consolidate all sustainability data in one place, create reporting layer and insights layer on top. 1-2 year contract to revisit once ERP Rebuild is in place. Hence AS IS is a moving target. Different scope to Green Token. Demos have been presented by SAP this year to Marie with PWC. Scope, AI and insights not good enough. RFI supported by KPMG experience with other client and finalised in next days. 2.5 weeks for providers to answer by mid June. Other potential providers SAP, Gensuite, Salesforce, Microsoft (new partner AI), Simapro provider Sphera. Pure players: <https://watershed.com/en-GB>, <https://www.cority.com/>, <https://figbytes.com/company/about/>, [Watershed.com](https://watershed.com). June/July 2023 Go-No Go decision. Syensqo IT contacts are Guillaume Muller (PM sustainability) and Mathilde Lascombes (for the AI capabilities) for now. Syensqo will involve purchasing and architecture once we have shortlisted

\*Sustainability Control Tower: SAP scope, AI and insights not good enough. ESG data, elements on basic reporting using tools creating KPI library. This should be covered by SAP. Enhancement of this data SAP lacks, reporting layer e.g. KPIs, emission factors e.g. ecoinvent, ecotransit. For example carbon accounting. Pureplayers look into public data where plant data is missing, to make assumptions where there is gaps. Other functionality, AI native pureplayer is integrated benchmark. Competitors in tool for KPIs in market based on public information. SAP solution does not cover this. No company in manufacturing uses the Sustainability Control Towers.

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### Dedicated project on carbon footprint

managed by Philippe Chevaux (Sustainability DT)

eg. estimation on product footprint. Project finish by end of 2024.

### Digital sustainability

Emissions impact when buying and selling to understand kg of CO2 to get product to customer. Importance to customers, the lower CO2 the greener. Other companies CSRD aim to reduce emissions.

Aim to take control what is happening in supply chain. Syensqo needs activity data and emission factor e.g. how many kg CO2 for certain activity. Data build by experts or external databases. Economic accounting and carbon accounting same: buy raw materials, production, transport, man power, waste. It is the first time ever that Syensqo have product level accounting for Sustainability. Few other companies are at same stage. Historically accounting at plant or group level only. CO2 = direct emission on product level (scope 3). Beforehand at plant level. Scope 1 directly e.g. burning into air, Scope 2 e.g. buying electricity. Scope 1 data BW Cerise where activity is collected combined with emission factor for each plant. Mapping table for each plant in BW. Qty of energies are reported from ERP directly. Cerise is plant level, Syensqo are buying these energies and combining the emission factor. WP1 uses qty of energies in BOM. Emission factor not from BOM, Cerise tool to get emission factor at plant level.

Changes to carbon print, that could reduce emission factor: optimise process leading to less consumption, measured at plant, change of BOM based on lower conception. Otherwise it is possible to change provider for energy supplies to reduce emissions factor. Selecting suppliers with lower footprint.

Accuracy key TO BE to govern and implement solution going forward. Data flow as one version of truth. For raw materials v good accuracy according to Matthieux. Better waste allocation would be beneficial.

Resource and time constraints hindering to go beyond PCF (Product Carbon Footprint) e.g LCA Life Cycle Assessment. Regulation more on reporting ESG than on PCF. PFC not forced by regs to be provided, other than customer impact deciding to buy more PCF friendly products. PCF for customer benefit only. GBUs have no one priority. Some customers may stop selling otherwise. Business continuity impact. PCF also needed for corporate ESG disclosures, especially 3.1.

What are the requirements for annual disclosures? Cerise tool is backbone for reporting Scope 1 and 2 relating to energy. Some are essential for annual reports. Strategy Gabriela, SAP first, if not fully cover requirements, then certified product. In some instances, SAP development instead of 3rd party product.

Procurement initiative for pressuring vendors as part of 3.1. A way to understand where emissions come from at operational, procurement, market level. Enables to start taking action on group targets.

## Assumptions

# Constraints

# Impacts

# Business Rules

# Options considered

## Option A: SAP Green Token

Combines financial and environmental data to enable deep insights and effective decision making at different points across the business process.

- Business decisions need to consider environmental costs. The Green Ledger allows for these costs to become visible up front.

Makes it easier for businesses to accurately account for the carbon they produce across their value chain. Given the fact that SAP handles 70% of the world's business transactions, it will also – when it launches next year – be the largest solution of its kind available.

“To truly make progress and create a more sustainable world, it's important that enterprises take action on the carbon they're producing,” explains Jesper Schleimann, SAP's Chief Strategy and Innovation Officer. “But the only way to do that is to have actual data so they can make business decisions.”

Couple the need for action with an increased need for transparency from investors, employees, regulatory bodies, and customers, enterprises are being pushed to make sustainability an integral part of their business blueprint.

available within the RISE and GROW with SAP programmes.

By adding in the fourth element, the Green Ledger, businesses will be able to act on the insight they have in front of them.

“Of course, you can take action at any stage but the Green Ledger will help to make bigger, bolder, decisions that become integral to what a business does; embedded across the enterprise.”

Just as financial ledgers detail the value that moves across an enterprise – how much money has been made, where it should be invested – with the Green Ledger, businesses will know which activities are driving their carbon footprint so they can look at where and how they can reduce it and make better decisions.

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## Option B: Continue As Is

## Option C:

## Option D:

# Evaluation

	Option A SAP Green Token	Option B AS IS Applications	Option C	Option D
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Criterion 1	Pro <ul style="list-style-type: none"> <li>Ensures traceability as part of Procurement (Sourcing/Buying)</li> <li>Substantiate sustainability claims to derive value based pricing (Marketing/Selling)</li> <li>Reduce Scope 3 emissions as part of Supply Chain (Transporting)</li> <li>Follow trajectories to meet targets as part of Reporting (Finance/Regulatory)</li> <li>Access green financing</li> <li>Meet ESG expectations (customers/regulators/investors/disclosure)</li> <li>helps you see the sustainable qualities of raw material from its original source and introduction into the supply chain.</li> </ul> Con	Pro Pro	Pro Con	Pro Con
Criterion 2	Pro Con	Con	Pro Pro	Con Con
Criterion 3	Pro	Con	Con	Pro

## See also

**File**   **Modified**

No files shared here yet.

## Change log

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v. 84	Sept 27, 2024 12:00	SCHWARTZ-ext, Stefanie	
v. 83	Sept 27, 2024 11:50	SCHWARTZ-ext, Stefanie	
v. 82	Sept 26, 2024 10:03	SCHWARTZ-ext, Stefanie	
v. 81	Sept 26, 2024 09:44	SCHWARTZ-ext, Stefanie	
v. 80	Sept 26, 2024 05:14	BECHTER-ext, Alex	
v. 79	Sept 26, 2024 01:52	BECHTER-ext, Alex	
v. 78	Sept 26, 2024 01:51	BECHTER-ext, Alex	
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## Workflow history

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