

SAP Sustainability Control Tower

March, 2023

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ESG transparency is the first step in solving these challenges

SAP's unique position to be your partner



RECORD

Move from averages to actuals with data across the value chain

88% of the World's Supply Chains networked through SAP

REPORT

Incorporate relevant frameworks with built-in audit & assurance

>600 ESG frameworks & standards simplified on extensible data foundation

ACT

Embed sustainability into your business DNA

50 years of market leadership in enterprise processes & applications

SAP Holistic Steering & Reporting

A part of the SAP Cloud for Sustainable Enterprises

Business Network
for carbon data sharingIndustry Capabilities
to solve your specific challengesPartner Ecosystem
geared towards sustainability

Holistic Steering and Reporting – SAP Sustainability Control Tower Record – Report – Act

ZERO EMISSIONS with Climate Action

- **SAP Environment Management** (EHS)
- SAP Product Footprint Management
- SAP Business Ecology Management * (May)
- SAP E-Mobility
- SAP Landscape Management Cloud
- SAP Transportation Management
- SAP Concur
- SAP Treasury and Risk Management
- SAP Traders & Schedulers Workbench
- SAP Cloud for Energy
- SAP Digital Vehicle Hub (SAP AIN)
- SAP Direct Distribution
- Julic SAP Multichannel Order Management

ZERO WASTE with Circular Economy

- SAP Responsible Design & Production
- SAP S/4HANA for Product Compliance
- SAP Environment Management (EHS Waste Mgmt)

- SAP Rural Sourcing Management
- SAP Logistics Business Network Material Traceability
- Product Lifecycle Management
- Integrated Business Planning
- SAP S/4HANA for Waste & Recycling
- SAP Returnable Packaging Management
- SAP Intelligent Returns Management
- SAP Replenishment Planning

ZERO INEQUALITY Social Responsibility



- SAP Health and Safety Management (EHS)
- SAP Occupational Health (EHS)
- SAP Incident Management (EHS)
- SAP Business Integrity Screening
- SAP S/4HANA for Product Compliance
- SAP Concur (Duty of Care)
- SAP Ariba (Supplier Diversity)
- SAP Fieldglass (Contingent Workforce Diversity)
- SAP SuccessFactors
- Qualtrics Employee XM
- SAP Work Clearance Management (EHS)
- SAP Management of Change (EHS)

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SAP Holistic Steering & Reporting

A part of the SAP Cloud for Sustainable Enterprises

Business Netw for carbon data sh		Partner Ecosystem geared towards sustainability	
Focus today Holistic Steering	and Reporting – SAP Sustai Record – Report – Act	nability Control Towe	r
Zero Emissions with Climate Action	Zero Waste with Circular Economy	Zero Inequ with Social Res	
Decarbonize your entire value chain (scope1-3) based on actual business transactions	Incorporate circularity into your supply cha & create sustainable business models	in Understand the in on people and the	pact of your business e society
			~~

SAP S/4HANA, Customer relationship management, Human capital management, Spend Management and Business Network

SAP Business Technology Platform

The virtuous circle for holistic business transformation

1. Manage business processes

Run business processes at their best

2. Create transparency with data

Enable automated and timely extraction of auditable granular data from source systems

3. Planning & Target Setting & Forecasting

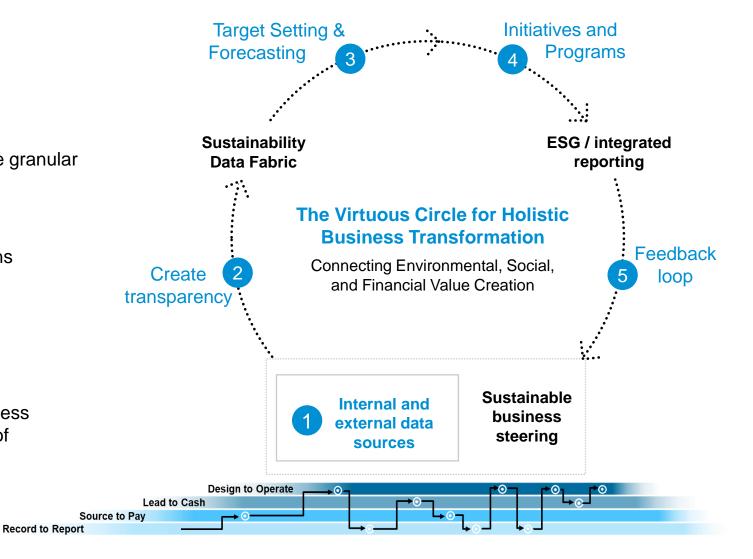
Define and plan against your Sustainability ambitions

4. Initiatives and Programs

Taking action and monitoring progress

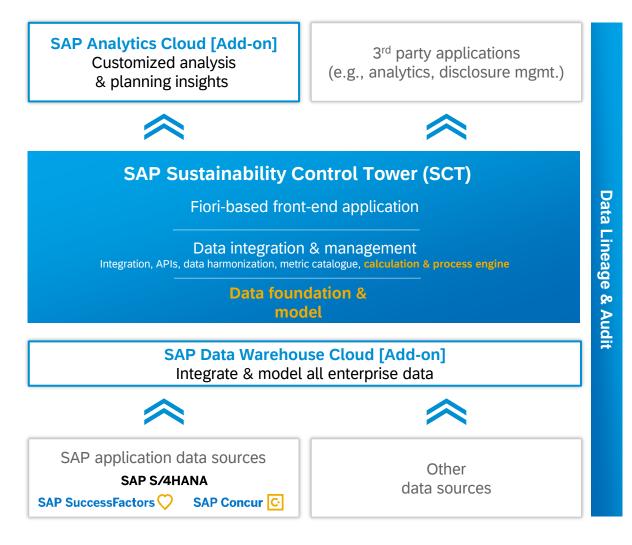
5. Feedback loop and improvement

Embed relevant sustainability information into business processes to impact total performance at the point of decision-making



Achieving Holistic Steering and Reporting

Empower your business to act with ESG transparency along the value chain



Harmonized insights by consolidating, modelling and enriching ESG, financial and operational data enabling boardroom and business-level decisions

ESG performance management with enterprise planning, predictive forecasting, what-if simulations and impact analysis across the value chain

Pre-built data models to support established reporting frameworks and customer-specific adaptations based on SAP, non-SAP, structured and unstructured data

Embed sustainability dimension into business applications and processes through enterprise data integration and modelling and enriched partner content

Data Quality and Assurance

Automatic data validation and completeness checks to highlight data quality issues

Input data controls

Standard technical and consistency checks flag and sort out erroneous data. Allow responsible business user to correct the data by manual adjustments or reload corrected data again

Data completeness checks

Understand incomplete and missing data in order to mitigate gaps by manual action or by an automated business rule to allow a faster period closing process and ensure high data quality

Configurable plausibility checks

Mitigate non technical input data errors by showing deviations to previous periods, which allows to react immediately and initiate corrective actions

Transparency

Track validation results and errors easily with detailed error and warning messages, audit logs and validation reports

Review/Approval Workflows

Define which user groups may perform the data upload and which user groups must approve the data before releasing the data for consumption. 6 8 VX 3 MODELING ley Figure Categories Performer Review erformer Reviewe

Data Enrichment and Calculation

Complete missing data via configurable and flexible operations

Dealing with missing data

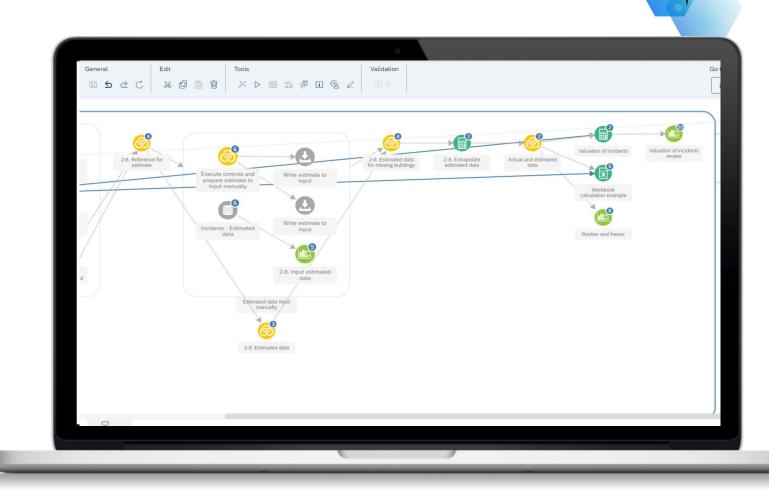
Run automated estimations and extrapolations on missing data based on predefined, customer specific business rules

Run calculations

Use calculation logic for valuations, allocation or conversions of ESG data to track your sustainability performance and targets

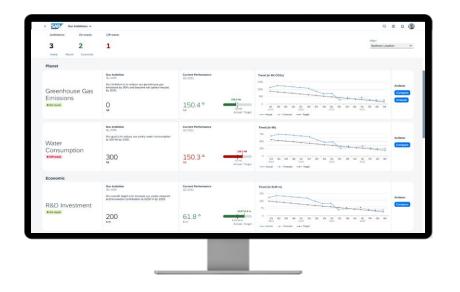
Flexible configuration

Apply specific customization to run business rules and calculations. A central steering table makes the use of custom factors, reference data or formulas possible



SAP Sustainability Control Tower

Automated, auditable, compliant reporting with actual data & insights to embed sustainability into business processes



Standard semantic frameworks supported



Record: Actuals instead of averages

Record ESG factors with out-of-the-box integration with SAP systems for faster time to value & granular data visibility based on actual data, not averages

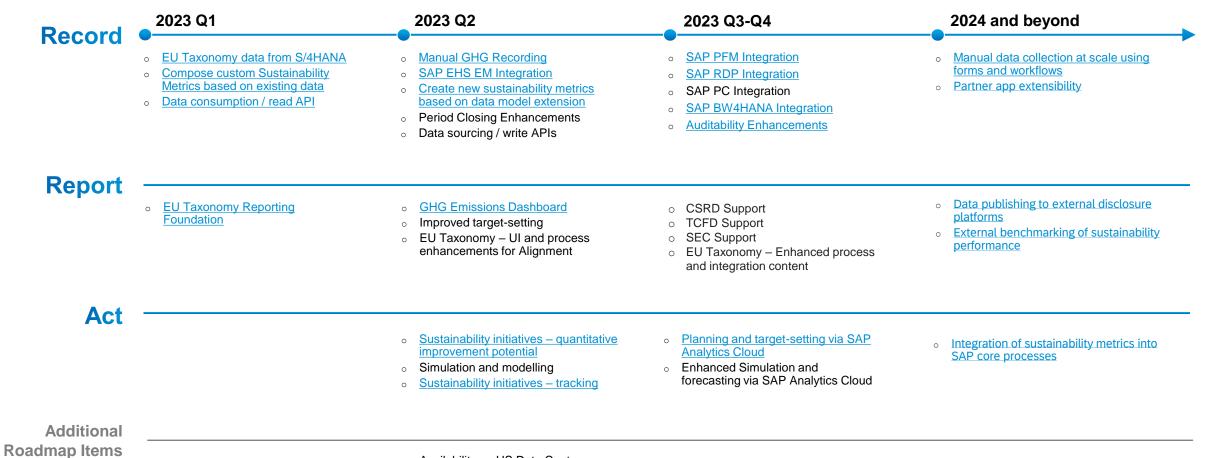
Report: Audit-ready ESG metrics

Report regulatory compliant ESG metrics covering common frameworks based on an open & extensible solution with the largest ESG ecosystem

Act: ESG embedded in business processes

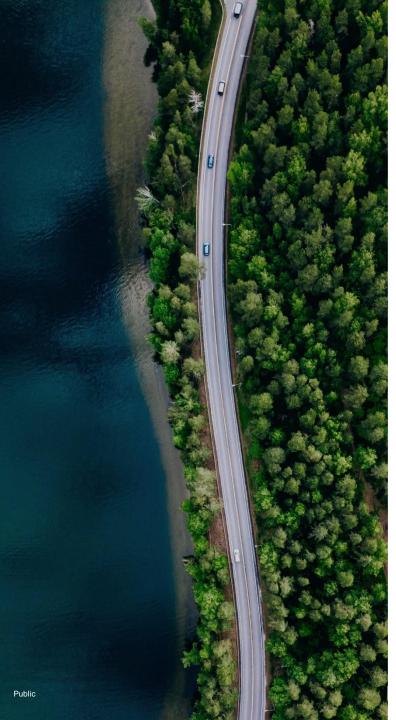
Act by planning your future with actionable insights, forecasts and setting targets; track initiatives & optimize business processes to make an impact

SAP Sustainability Control Tower | Roadmap 2023 and beyond



o Availability on US Data Center

Subject to change



Sustainability is a team sport

- Global Strategic Service Partners & Alliances
 accenture BearingPoint. Deloitte.
 IEM.
 Capgemini (
 - The SAP[®] PartnerEdge[®] Ecosystem
 - Thought leadership partners & impact networks





SAP Sustainability Control Tower – EU Taxonomy | SAP solution approach

SAP February 2023

The EU Taxonomy represents a major, mandatory and evolving mechanism for assessing sustainability and increasing transparency

- EU Taxonomy introduces a **new sustainability classification system** that requires companies to integrate financial, sustainability and operational data at an unprecedented level of detail.
- The aim of this system is to provide transparency to the EU market on what should be considered sustainable (according to the Taxonomy) so
 that capital can be reallocated accordingly.
- To this end, the requirements for the Taxonomy and its coverage are being significantly expanded in the coming years.

Scope of the EU Taxonomy increases over time:



-potential introduction of further objectives (e.g. social)

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What do customers require?

High degree of flexibility & pre-integration as well as rigor of a financial close

End-to-end EU Taxonomy Process Screening of EU Taxonomy to identify relevant economic activities as described in the EU Taxonomy Climate Delegated Act. Loading and mapping of organizational structures and SAP elements and 2 data to defined relevant activities Non-eligible Turnover, **Eligible** Turnover, CapEx and OpEx CapEx and OpEx Substantial Contribution (SC) to selected objective Do no significant harm (DNSH) to other 5 Alignment Compliance with minimum social and governance safeguards Non-aligned Aligned Turnover, 5 Turnover, CapEx CapEx and OpEx and OpEx

Customer Requirements

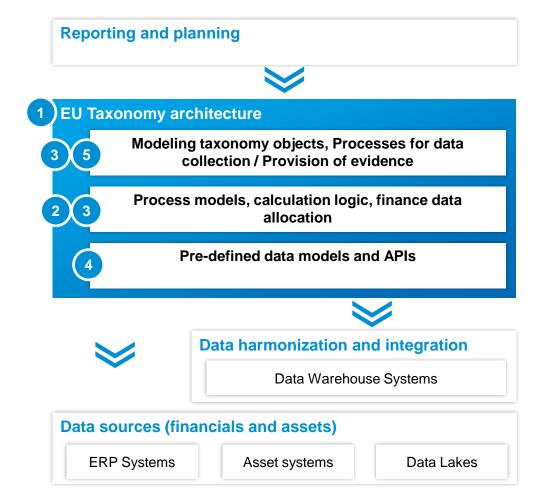
- Easily consumable EU-T regulatory content
- Workflows that can "guide" the identification of relevant activities.
- Integration of relevant SAP data entities (master data)
- Flexibly assign / link EU Taxonomy activities to SAP entities
- **Prepare financials** according to the EU Taxonomy definitions (e.g. OpEx calculations, elimination of intercompany transactions).
- Pre-defined end-to-end process enabling rigor of a financial close
- Transparent flexible alignment options e.g. screening on any level
- Customizable, questionnaire workflow for de-central screening
- Integration / link of evidence documentation for criteria fulfilment.
- Allocations and aggregation of results for reporting

The EU Taxonomy requires a flexible data and process architecture, based on the principles of financial reporting

Requirements to IT

- Architecture: Taxonomies always require two elements the evalution of taxonomy objects and assignment of financial flows
- 2) **Process:** Der EU-T process should follow the same rigor as financial reporting (pre-defined steps, roles, status control) and corresponding data maintenance, validation and release mechanisms.
- **3)** Auditability: The taxonomy requires traceability and lifecycle control of data per taxononomy (assurance relevant).
- 4) Automation: Much of the needed information is already available in customer's business systems and should be integrated into the process.
- 5) Taxonomy object modeling: Flexible definition and modelling of taxonomy objects is critical

Reference architecture (Top-down)



SAP Sustainability Control Tower | EU Taxonomy Preview Content

Kick-start content for EU Taxonomy enabling exploration of the end-to-end process with pre-configured process steps and sample data

Pre-configured process templates for EU Taxonomy

Explore the end-to-end process via six pre-configured process flows, including all required data collection and data processing steps

Pre-configured data models with sample data

Sample data for demo company and pre-defined data models for all process steps (incl. EU-T regulatory, master data, financials, alignment results)

Simple workflows for eligibility and alignment

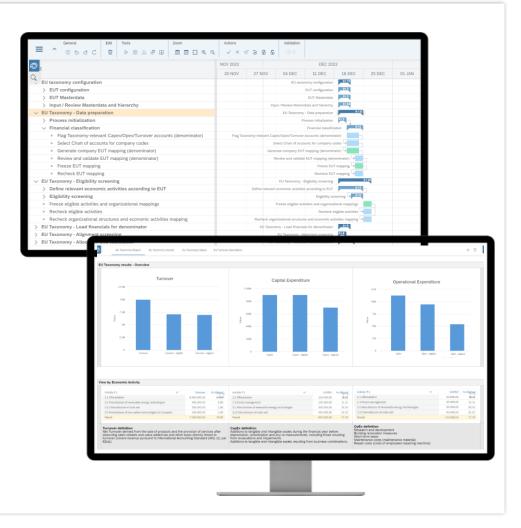
Model and prepare the corporate structures, map to EU Taxonomy requirements and perform SC and DNSH criteria evaluations

Sample reporting content for results analysis

Analyze results via sample reports and dashboards on different levels of granularity (including organization, activity, objective, asset)

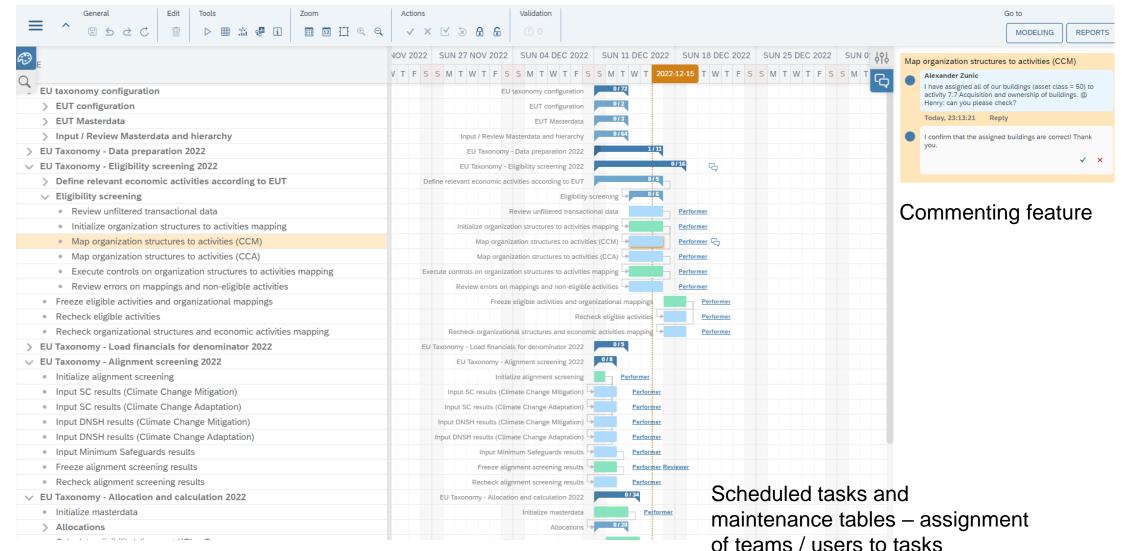
Integration of customer specific data via file upload

Integrate your own customer specific data via flat file upload and explore process flow and results



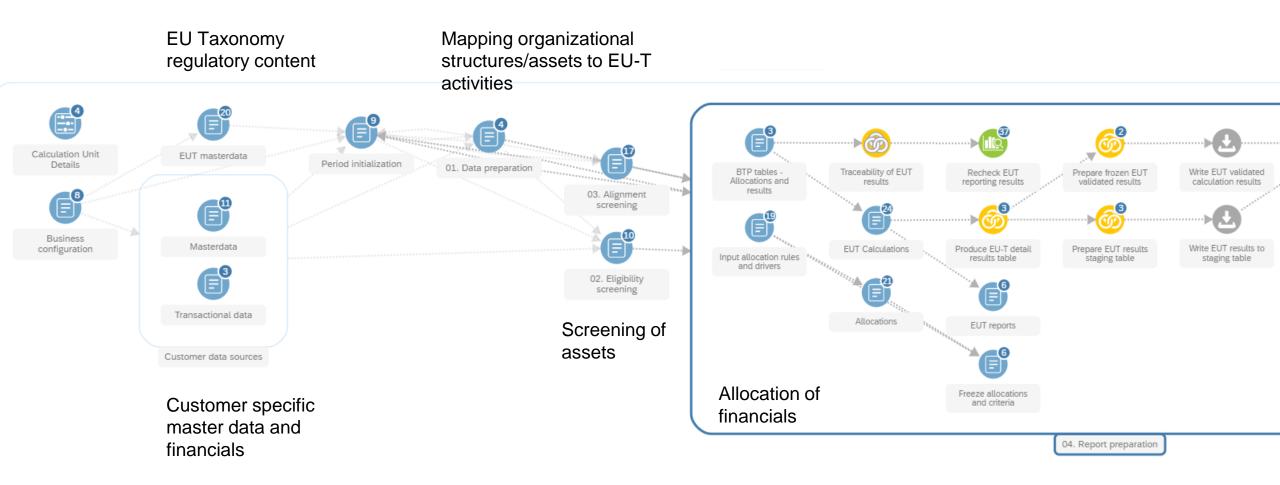
Overview SCT for EU-Taxonomy Content (1/3) – as of 12'2022

E2E Process Template



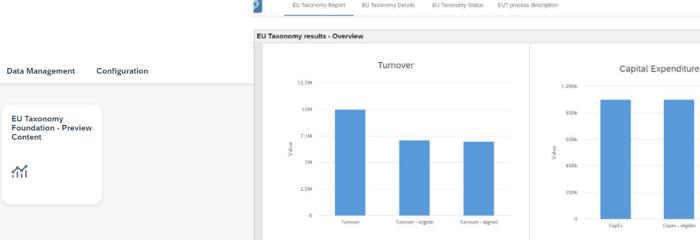
Overview SCT for EU-Taxonomy Content (2/3) – as of 12'2022

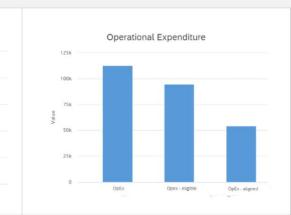
Pre-defined data models and configuration options



Overview SCT for EU-Taxonomy Content (3/3) – as of 12'2022

Pre-defined sample reports





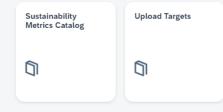
Data Management

Home ~

Performance Insights

Our Ambitions

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Configuration



Capex - eligible Capex - aligned

View by Economic Activity

Activity 1 =	Turnover	96 Aligned	Activity 1 =	CAPEX	96 Aligned	Activity ↑1
1.1 Afforestation	6.400.000,00	6400	1.1 Afforestation	100.000,00	11,14	1.1 Afforestation
3.1 Manufacture of renewable energy technologies	400.000.00	4,00	1.3 Forest management	100.000,00	11.11	1.3 Forest management
3.12 Manufacture of soda ash	200.000,00	1,00	3.1 Manufacture of renewable energy technologies	300.000,00	33,33	3.1 Manufacture of renewable
3.3 Manufacture of low carbon technologies for transport	100.000.00	1.00	3.12 Manufacture of soda ash	400.000.00	22,22	3.12 Manufacture of soda ash
Result	7.100.000,00	70,00	Result	900.000,000	77,78	Result

Turnover definition

Net Turnover derived from the sale of products and the provision of services after deducting sales rebates and value added tax and other taxes directly linked to turnover (covers revenue pursuant to international Accounting Standard (IAS) 12, par 82(a)).

CapEx definition

Additions to tangible and intangible assets during the financial year before depreciation, amortization and any re-measurements, including those resulting from revaluations and impairments

Additions to tangible and intangible assets resulting from business combinations.

Activity ↑1	-	CAPEX	96 Aligned
1.1 Afforestation		10.000,00	15,14
1.3 Forest management		30.000,00	11,11
3.1 Manufacture of renewable energy technologies		30.000,00	33,33
3.12 Manufacture of soda ash		40.000,00	22.22
Result		110.000.00	77.78

OpEx definition Research and development

Building renovation measures Short-term lease Maintenance costs (maintenance material) Repair costs (costs of employees repairing machine). + 🗊

EU-T Foundation Release | Solution Capabilities

Typical business requirements	Solution Capabilities	Coverage*
EU-T as a repeatable and transparent end- to-end process closely synchronized with financial close	 Customizable process templates with pre-configured steps Business-driven configuration (e.g. mappings) Data ingestion via S/4 (standard interface), files or manual entry Pre-defined data validations (e.g. duplication checks) 	
Facilitated consumption of regulatory content	 File upload templates for taxonomy-related entities Sample taxonomy content pre-filled 	
Audit-proof data capture, screening and validation	 Simple data collection workflows (submit/approve/reject), commenting Assignment of user groups to tasks Audit logs, linking of evidence via URLs in comments 	
SAP-oriented reference architecture and productized content	 Pre-defined EU Taxonomy data model as "Foundation" content Pre-defined configuration options (e.g. account mappings) Re-use of financials and master data from SAP 	
Standardized SAP integration and automation	Standard integration to S/4HANA financials and master data (in Q1.2023)	
Flexible allocation and calculation functionality	 Customizable templates for financial allocation rules Provisioning of allocation keys (file) 	
Integrated data validation and reporting	 Pre-defined EU taxonomy results templates Sample reports and EU-T dashboard embedded in SCT 	

SCT for EU-T Content Package – Incremental Delivery Approach

Foundation – Q4.2022/Q1.2023	Release 2	Release 3		
EU Taxonomy – Foundation	EU Taxonomy – Experience and consistency	EU Taxonomy – Process enhancements		
 Pre-configured process and integration content for kick-start implementation of EU Taxonomy reporting (for corporates) Pre-configured process templates and data models for eligibility and alignment (Substantial Contribution, DNSH and MS) Pre-defined interfaces for (manual) consumption of regulatory content Data integration content for master data and financials (turnkey integration to S/4) 	 Enhanced EU Taxonomy process experience with facilitated alignment UI and additional standard integration to SAP sources UI and process enhancements for alignment (screening app) Data integration enhancements (APIs for additional SAP sources) EU Taxonomy dashboard and Fiori analytics 	 Comprehensive coverage of the alignment screening process (incl. de-central data collection) for all major industries Workflow enhancements to include de-central alignment processes Activity- and industry-specific process and data model enhancements (content) 		

Themes

Items



Thank you.

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