

CSRD Data Digital Best Practice

TEK enable













Introduction Sustainability Digital Transformation Best Practice CSRD Overview Practical Exercise CSRD Scope and Categories CSRD Tools Demo Fabric Sustainability Closing

Agenda







Intro



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Digital4Sustainabilty

Empowering the European Workforce for the sustainable digital transition









Digital4Sustainability

Empowering the European Workforce for the Sustainable Digital Transition



Shaping a Sustainable Digital Future





Driving innovation in digital & sustainability practices to boost Europe's skills for the sustainable digital transition



4-year EU funded project (2024-2028)



29 members of the Digital Large-Scale Partnership under the Pact for Skills from 13 EU countries



11

Digital4Sustainability is dedicated to accelerating the digital and green transitions within the ICT sector and across European industries. Our mission is to develop and implement innovative training programmes that provide professionals and businesses with the skills and knowledge needed to thrive in a rapidly evolving landscape where digital technology and sustainability intersect.



Why this project?



Green and digital transitions, also referred to as Twin Transition (as they are closely linked and have the capacity to reinforce each other), are top priorities of the EU agenda. The Twin Transition will transform the EU labour market and accelerate changes in skills demand as it is estimated to have the potential to create around 1 million jobs by 2030.1 Digital4Sustainability will contribute to the EU Digital Decade goal of having 20 million employed ICT specialists by 2030 by training more than 1000 new ICT & Sustainability professionals. Digital4Sustainability is fully aligned with the vision of the European Education Area and contributes to its objectives, especially the ones regarding the development of digital skills.

Project Roadmap

& Needs Analysis









Azure Advanced Specialist, Data & Al and Business Applications

Microsoft

Digital & App

Microsoft

Data & Al

Azuro



















Technology Fast 50 Winner "5 Years running"



Best Place to Work

Nov 23 – Nov 24 Ireland



IT Europa **Channel Awards**

Winner



220+ employees.

Partner

Microsoft Solutions

Microsoft

Solutions Partner



Multiple business verticals and formidable client base.

Microsoft

Business





















Sustainability Digital **Transformation Best Practice**

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Sustainability: A data challenge

1000 +



Data entities

10+

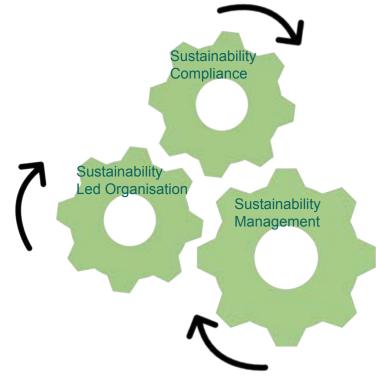
Global Standards



50+

Business needs

















What is Sustainability Digital Transformation?

"The future of Sustainability is not just about reporting, it's about using data to drive business decisions."

- Mark Tulay, GreenBiz Group

"Sustainability data is not just about compliance, it's about creating value for your stakeholders."

- Andrew Kassoy, B Labs







What Does Good Look Like?

Continuous improvement

Not an Event but a Journey

Not Linear but Circular

Drives Innovation and Differentiation

Customer, Context and Business Driven, NOT Tech Driven, Tech supported



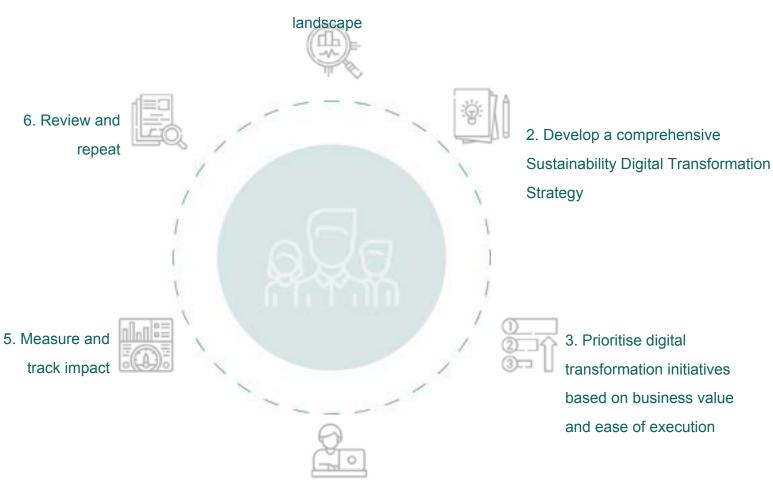




Sustainability Digital Transformation Approach Measure, Record, Report and Repeat









4. Deliver prioritised

initiatives identified







Digital Transformation Approach

Data Gaps & Silos



Transform disparate data into a standards-driven, cohesive, analysis-ready data set to power ESG use cases



Calculated Emissions & Reporting





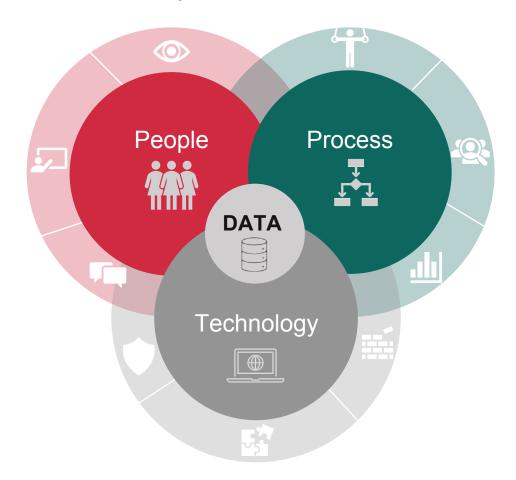






Sustainability Digital Transformation Enablers

The essential components of sustainable transformation.













Short Exercise – 20 minutes

Ashleigh Connors
ESG Consultant
TEKENABLE
TEKenable













Exercise: Sustainability Digital Transformation

Step 1

Scan the QR code

Step 2

Read the questions and answer yes or no for your organisation

Step 2

Now all the boxes you ticked as a 'yes' have a score.

Count your total score.



of yes

>3	Aware
4-6	Reactive
7-10	Proactive
11 – 12	Sustainably driven











CSRD Scope and Categories

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What led us to CSRD? (Corporate Sustainability Reporting Directive)

The Race to Net Zero

The European Green Deal was the catalyst that started the race to net zero, aiming to attain climate neutrality by 2050. The number of FTSE 100 companies vowing to achieve net zero emissions by 2050 grew by 37 percent (2021) to 82 percent (2022). Those that can't demonstrate tangible progress towards their net zero goals will be left behind.

Global Standards

Disclosure and reporting increasingly in focus, with momentum growing for a global climate disclosure standard

Government Action

Public and blended finance commitments mobilising 80 billion of climate finance for developing countries since 2019.

Mobilising Capital

Companies/banks and governments have begun to take steps in their approach to financing green initiatives. This means that larger entities are leveraging their market position to encourage organisations down the value-chain to make positive choices. Rewarding and providing cheaper capital for green spending.

Regulatory Drivers

Regulators across the globe have been increasingly mandating ESG disclosures for publicly traded and large organizations. This impacts the whole value-chain

Mandatory reporting

- EU Taxonomy
- Corporate Sustainability Reporting Directive (CSRD)
- · Voluntary reporting
- Task Force on Climate-Related Financial Disclosures (TCFD)

Socially Conscious Investors

Socially responsible investing (SRI) is an investing strategy that aims to generate both social change and financial returns for an investor.

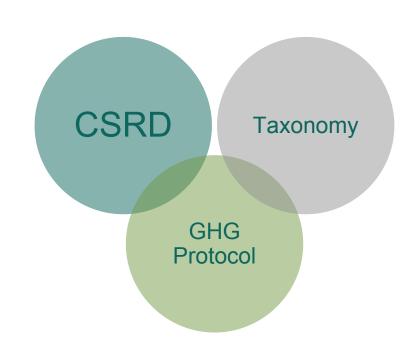






Alphabet soup of regulation – Data Overlap





Data overlap











CSRD Regulation

When is CSRD applicable?

Which companies are in scope for CSRD?

Where should companies be reporting to?

In what format should companies be reporting?

CSRD (Corporate Sustainability Reporting Directive)

FY 2024 (Listed)

FY2025 (Non-Listed)

FY2027 (SME)

Large companies

- ✓ >250 employees and/or
- √ >50M Turnover and/or
- √ >25M Total Assets

Listed companies

Note: Small and medium listed companies get an extra 3 years to comply In addition, non-EU companies that have a turnover of above €150 million in the EU will also have to comply.

Inclusion in the annual management report

To be submitted in **electronic format** (in XHTML format in accordance with ESEF regulation) "Limited third-party assurance," (auditor will need to evaluate the data).

Sustainability reporting information will fall within the ambit of the directors report inclusive of the penalties associated.





CSRD Regulation – ESRS Categories





Cross-Cutting	ESRS 1	General Requirements: Framework for overall sustainability reporting across all ESRS categories.	Social	ESRS S1	Own Workforce : Reporting on employee conditions, diversity, health, safety, and wellbeing.
	ESRS 2	General Disclosures: Core sustainability disclosures applicable to all organizations.		ESRS S2	Workers in the Value Chain: Reporting on fair treatment of contractors and workers across the supply chain.
Environmental	ESRS E1	Climate Change: Reporting on greenhouse gas emissions, mitigation, adaptation, and energy usage.		LONG 02	Affected Communities: Reporting on community engagement, social impacts, and
	ESRS E2	Pollution: Reporting on pollutants affecting air, water, and soil, including measures to mitigate harm.		ESRS S3	benefit-sharing practices.
	ESRS E3	Water and Marine Resources: Reporting on water usage, marine ecosystem impact, and sustainable practices.		ESRS S4	Consumers and End-Users: Reporting on product/service safety, privacy, and consumer rights.
	ESRS E4	Biodiversity and Ecosystems: Reporting on biodiversity protection, deforestation, and land use impacts.			Business Conduct: Reporting on governance practices, ethical conduct, anti-corruption, and
	ESRS E5	Resource Use and Circular Economy: Reporting on raw material efficiency, recycling, and waste management.	Governance	ESRS G1	transparency.





CSRD Regulation – Data required for reporting



~1,200 Datapoints

- Not all relevant to everyone
- Double materiality test done to see which are relevant (~500-600 estimated)
- ~80% Quantitative Data Points (Narrative)
- ~20% Qualitative Data Points (Numerical, Percent, Monetary)









Reporting Requirements





There are several key reporting requirements within the Standards, including interdependencies.

The CSRD standard require enhances reporting on ESG governance and risk. They expand beyond reporting on certain KPIs, and require detail on policies, actions, metrics and targets surrounding ESG topics.

- Policies
- Actions
- Targets
- Metrics







CSRD Reporting Challenges, Risks and Opportur Digital











Data Sources / Types Taxonomies Security Governance

- Raw data : eg carbon emissions, gender, board members
- Scores/ratings: Provide ESG metrics for thousands of companies
- Big Data Aggregators: ESG sentiment analysis
- Risk assessment providers: ESG Risk modelling/scores

- Bringing together datasets never previously integrated
- Aligning taxonomies, classifications and measurements
- Lack of harmonization across jurisdiction
- In addition to perennial concerns like anticorruption, clean water and climate change, cyber security is rising to the top of the ESG agenda.
- Significant business risks from misreporting ESG and classification of funds
- ESG data governance and data quality critical
- A key challenge will be how to evidence transparency

Risks

Opportunities

Cost Compliance Competitive Advantage

- Duplication: Current data needs are dealt with in silos, leading to duplicated costs
- Manual processes: common
- Market Data: Not fully disseminated across the firm leading to loss in value
- Inconsistency: Approaching data management and reporting in silos Data gaps
- Transparency: Regulators demand timely and transparent disclosure
- Taking an ESG approach to your cyber security reporting can promote digital trust in your organization.
- ESG leaders will gain market share: investors needs are changing and those leading in ESG space will have a competitive advantage



















CSRD Digital Reporting

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Emissions Tracked in Excel

Scope 2 Emissions from Purchase of Electricity

CLIMATE LEADERSHIP

Guidance

The Indirect Emissions from Purchased Electricity Guidance document provides guidance for quantifying two scope 2 emissions totals, using a location-based method and a market-based method. The organization should quantify and report both totals in its GHG inventory. The location-based method considers werage emission factors for the electricity grids that provide electricity. The market-based method considers contractual arrangements under which the organization procures electricity from specific sources, such as renewable energy.

- (A) Enter total annual electricity purchased in kWh and each eGRID subregion for each facility or site in ORANGE cells of Table 1.
- (B) If electricity consumption data are not available for a facility, an estimate should be made for completeness. See the "items to Note" section of the Help sheet for suggested estimation approaches.
- (C) Select "eGRID subregion" from drop box and enter "Electricity Purchased."
 - Use map (Figure 1) at bottom of sheet to determine appropriate eGRID subregion. If subregion cannot be determined from the map, find the correct subregion by entering the location's zip code into EPA's Power Profiler.

https://www.epa.gov/egrid/power-profilers/

(D) See the market-based emission factor hierarchy on the market-based method Help sheet. If any of the first four types of emission factors are applicable, enter the factors in the yellow cells marked as "Senter factors". If not, leave the yellow cells as is, and eGRID subregion factors will be used for market-based emissions.

Example entry is shown in first row (GREEN Malics) for a facility that purchases RECs for 100% of its consumption, and therefore has a market-based emission factor of 0.

Tips: Enter electricity usage by location and then look up the eGRID subregion for each location. If you purchase renewable energy that is less than 100% of your alte's electricity, see the Market-Based Location-Based example in the market-based method Help sheet. Use these cells to enter applicable market-based emission factors Table 1. Total Amount of Electricity Purchased by eGRID Subregion **Emission Factors** Emissions Emissions Source Source Source eGRID Subregion Electricity CH. N,O CO, CH, N₂O CO. CH, N/O Description Area (sq ft) where electricity is consumed Purchased Emissions **Emissions Emissions Emissions Emissions Emissions** Emissions Emissions **Emissions** (kWh) (Ib/MWh) (Ib/MWh) (lb/MWh) (ID) East Power Plant 12.517 HICC Mecellarwous 231,097 200,000 Senter factor> Kentor factors <enter factor> <enter factor> Kenfor factor>: Kenter factor> <enter factor> <enter factor> <enter factor> Sorter factor> Senter factor? Gentler factor> Sentor factor> Sentor factor> Senter factor? Senter factor> <enter factor> Senter factor> Senter factor> Senter factor> Senter factor> Senter factor> Senter factor> Electricity Business Travel Commuting Upstreem Trans and Dist Waste Offsets U ... + 1 Fire Suppression Purchased Gases

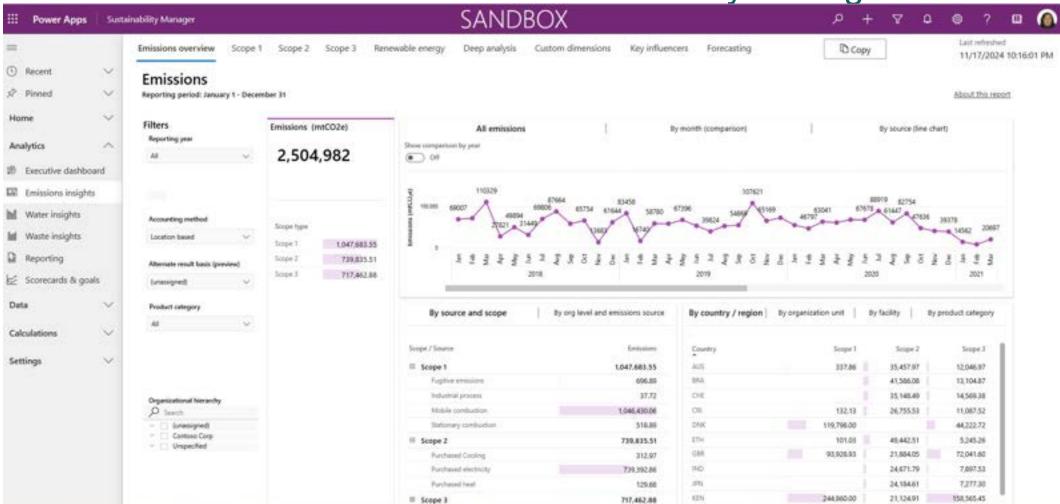








Emissions Tracked in Sustainability Manager



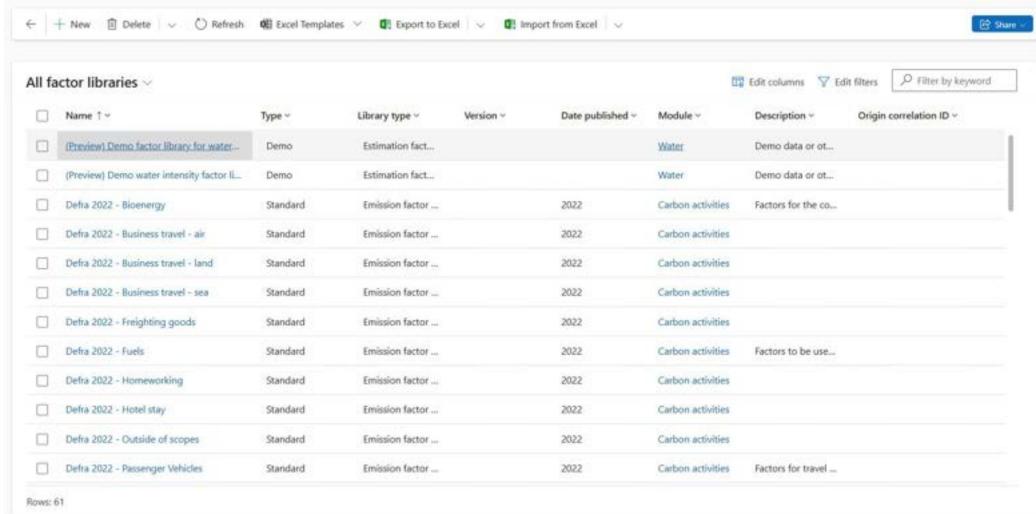








Emissions Tracked in Sustainability Manager













Example of a CSRD Report – Excel

INSTRUCTIONS

- 1) The DPs reported in ESRS E2 are subject to Materiality Assessment.
- 2) With the exception of DPs in IRO1 (E2.IRO-1_01-03) that are to be disclosed irrespective of the outcome of its materiality assessment [ESRS 1 par. 29], none of these DPs is applicable if the topic is not material.
- 3) Not all DPs are to be reported if the undertaking has not adopted the respective policies, implemented the respective actions or set the respective targets in relation to a sustainability matter that has been assessed to be material [see ESRS 1 par. 33].
- 4) Column L identifies DPs subject to phased-in [see Appendix C of ESRS 1].
- 5) Metrics to be disclosed, in addition to the ones explicitly required by ESRS, also include entity-specific ones, as well as those arising from other legislation or standard.

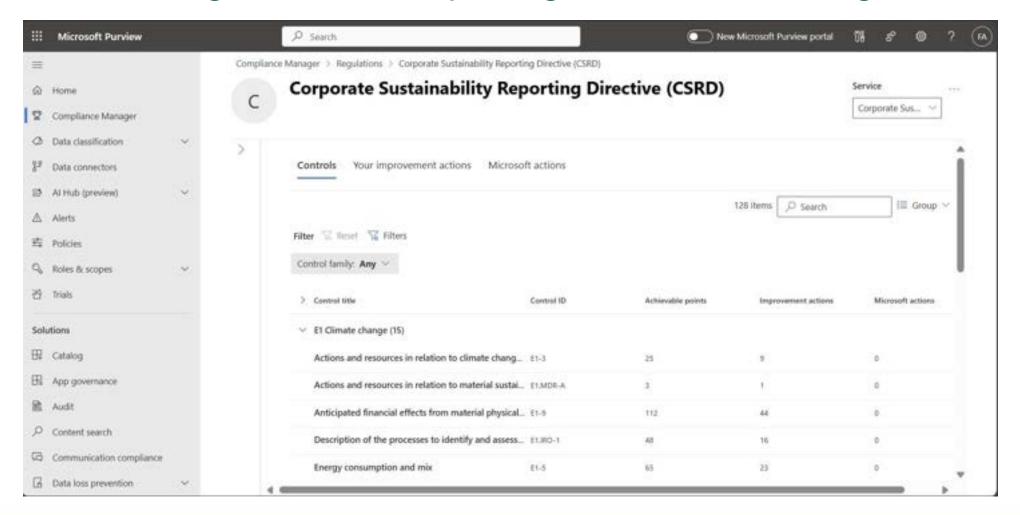
To	ESRS +		Paragraph +	Related AR		Data Type	Conditional or alternative DP	May [V]	Appendix 8 - ESRS 2 (SFDR + PILLAR 3 + Benchmark + CL)	Appendix C - ESRS 1 DPs subject to phasing-in provisions applicable to undertaking with less than 750 employees	Appendix C - ESRS 1 DPs subject to phasing in provisions applicable to all undertakings
E2/RO-101 E2/RO-102	E2	E2/FO-1		AB1:AB8	information about the process to identify actual and potential pollution-related impacts, risks and opportun						
	E2 E2	E2/RO-1			STATE OF THE PARTY	narrative	\leftarrow			-	
EZINOLUS	E.C	ECHUH	API 3	27,11	Disclosure of results of materiality assessment (pollution).	narrative					
E2-1_01	E2	E2-1	16 a	ABJ	Disclosure of whether and how policy addresses mitigating negative impacts related to pollution of air, wall	narrative					
E2-1 02	E2:	E2-1	15 b	ABJ	Disclosure of whether and how policy addresses substituting and minimising use of substances of conce	narrative					- 12
E2-1_03	E2:		15 c		Disclosure of whether and how policy addresses avoiding incidents and emergency situations, and if and						
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E2-2 02	E2	E2.2	AR 13	AFI H		semi-narrative		W.			
E2-2,00	E2	E2-2	AR S	AND IN	Lover in mitigation hierarchy to ethich resources, can be allocated in [pollution] Information about action plans that have been implemented at atta-fevel (pollution).	narrative	Conditional	V			
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	E2	E2-3	23 a		Disclosure of whether and how target relates to prevention and control of air pollutants and respective ape	narrative					
E2-3_02	E2	E2-3	23 a 23 b		Disclosure of whether and how target relates to prevention and control of emissions to water and respective	narrative		- L			
E2-3_03	E2	E2-3	23 c		Disclosure of whether and how larget relates to prevention and control of pollution to soil and respective sp						- 5
E2-3_04	E2	E2-3	23 d		Disclosure of whether and how larget relates to prevention and control of substances of concern and sub-						
E2-3 05	E2-	E2-3	24	46.5	Ecological thresholds and entiti-specific allocations were talled into consideration when setting pollution of			V			
E2-J_06	22		24 a	AR.E	Disclosure of ecological thresholds identified and methodology used to identify ecological thresholds (pol	narrative	Conditional	V			
E2-3_0/	Edi	E2-3	24 b	AR E		narrative	Conditional	V			
E2-3-00	E2	E2-3	25 Z	ARK		narcalive	Conditional				
E2-3_09	E-5	E2-3	ADVI		Pollution-related target is mandatory (required by legislation/holuntary	semi-narrative		70			
()	Inde	x ES	RS 2 ESR	S 2 MDR			ESRS : +	1 46	and the		







The Power of Digital CSRD Reporting: A Clear Advantage



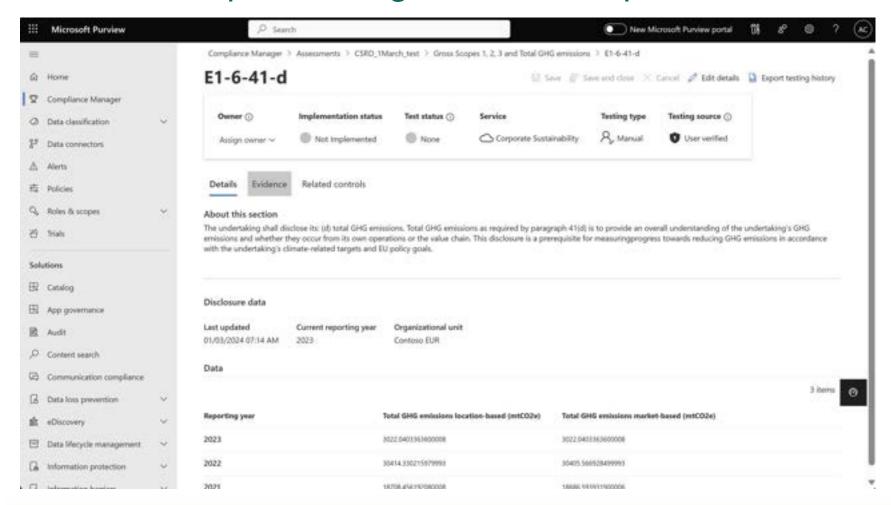








Example of a Digital CSRD Report



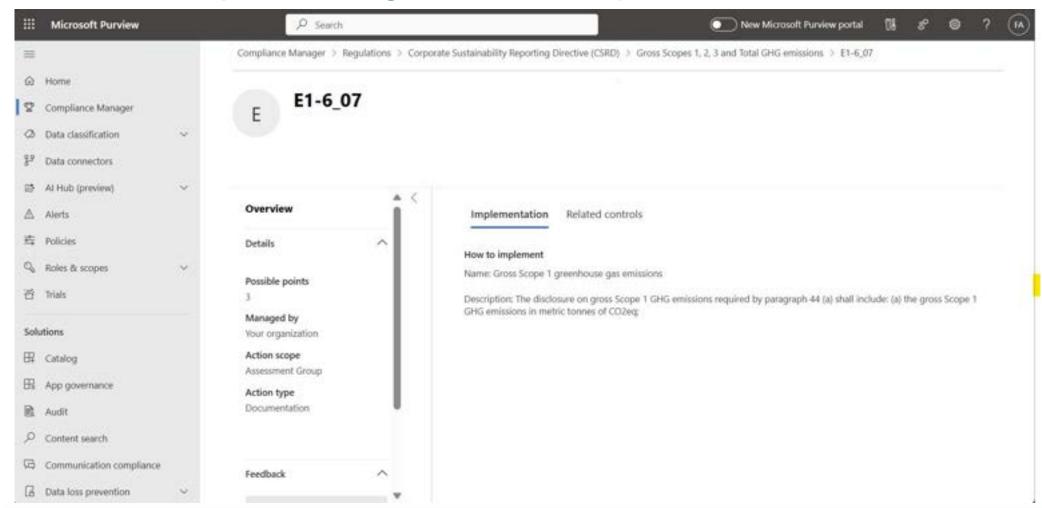








Example of a Digital CSRD Report











CSRD Tools







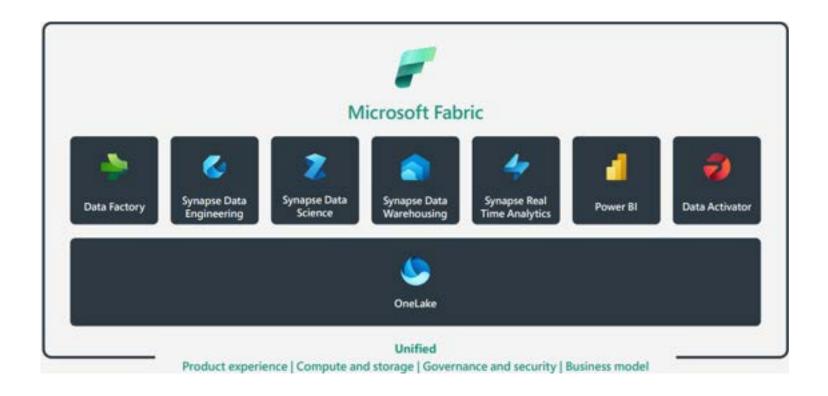








A unified SaaS-based solution that stores all organisational data where analytics workloads operate



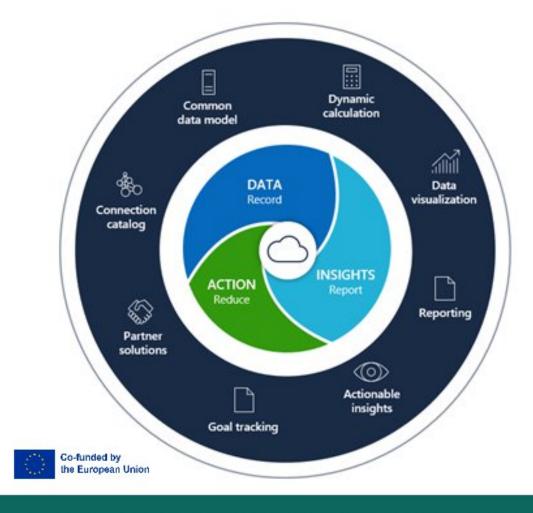








Sustainability Digital Transformation Tools



Microsoft Fabric Sustainability

Ingest, harmonize, and process disparate data for specific sustainability scenarios.

Responsible Sourcing ERP - Continia

Track and report carbon emissions directly within Business Central

Microsoft Sustainability Manager

Record/Calculate & Report Emissions, Water & Waste

Purview Compliance Manager

CSRD Template









Demo - Fabric Sustainability

Mukesh Yadav Senior Data Engineer TEKENABLE











Closing remarks

TEKENABLE











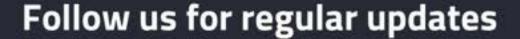


Participants Survey

https://ec.europa.eu/eusurvey/runner/Evaluation_Pilot_Participants_Digital_SME



THANK YOU!





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