Trusted Sustainability Insights
ESG Dashboards Powered by Microsoft Azure, Power Apps and Power BI

Kobe Geryl
Manager Sustainability
+32 496 86 04 65
kgeryl@kpmg.com

Viktor Van Beersel
Senior Advisor
Trusted Sustainability Insights
+32 494 36 12 46
vvanbeersel@kpmg.com
Many organisations struggle with …

- Efficient monitoring of progress on sustainability commitments
- Gaining data-driven insights on potential actions
- Measuring impact of ESG performance
- Consolidating data that is scattered throughout and beyond the organization
- Realising trust in ESG data and reporting

... that’s why KPMG has developed a solution to accelerate sustainability reporting via the Microsoft suite.
To ensure sustainability targets are realized, different roles can be identified:

I want to know for my assigned ESG topics if we’re on track and how we could best improve results to meet or even exceed expectations.

I want to ensure we make progress on company wide ESG strategy and ambitions for topics that matter.

Sadly enough not all data is easily automatically integrated in the dashboard. On a recurring basis I provide manual data input for required and assigned ESG metrics.

To ensure data quality I review assigned manual input supported by automated data quality checks. I also follow-up on timely data input.

Bart
ESG Responsible

Denise
ESG Topic Responsible

David
Manual Data Input

Ann
Data Input Reviewer
The high-level overview of the architecture of Trusted Sustainability Insights illustrates the key components of the solution:

**Capturing Data**
- Source Data: Internal/External
- Ingestion: Relevant Data Sources
- Manual Input

**Generating Insights**
- Storage
- Query & Processing: Historical, Predictive
- Sustainability Data Platform: Staging, Modeled (Common Data Model)

**Driving Decision Making**
- Output & Consumption: Internal, External
- Dashboards
- Power Apps

- **Capture difficult to gather data via an app**
- **Common Data Model to support repeatability**
- **Ingest easy to gather data automatically**
- **Ensure quality of the data by a review process**
- **Automation & Agility are key**
- **end-to-end Auditability & Traceability**
- **Orchestration & Automation (DataOps)**
- **Data Privacy & Security**
- **Data Governance, Quality & Metadata Management**

**Sustainability insights and actions through data viz and leveraging KPMG True Value**

©2021 KPMG Advisory, a Belgian CVBA/SCRL and a member firm of the KPMG network of independent member firms affiliated with KPMG International Cooperative (“KPMG International”), a Swiss entity. All rights reserved.
Trusted Sustainability Insights
Demo
TRUSTED SUSTAINABILITY INSIGHTS - Overview of building blocks of the solution

The key building blocks of Trusted Sustainability Insights are summarized below:

- **Focus on material topics & maintain overview**
  - Keep track of the sustainability roadmap

- **Monitor progress on KPI’s to realize ambitions**
  - Input and review manual data to boost data quality

- **Detailed dashboards: actionable insights per topic**
  - True Value: a holistic view on your impact

- **Enhance transparency via data lineage view**
  - Keep track on the data entry and review list
The landing page gives an overview of performance for material topics (by visualizing actual vs target) and allows to focus efforts.
Filters (e.g. an SDG filter) allow to zoom in with a specific focus. Progress over time can be monitored via a transparent tooltip.

Filter the materiality matrix to evaluate progress on specific domains. (e.g. filter on SDG’s or on department/owner)

Hover over topic to follow-up on evolution in time.
KPI OVERVIEW

The ‘KPI overview’ gives a clear view on the sustainability targets and current value.

Via the KPI overview, the user can navigate to detailed pages.
Detailed pages provide actionable insights by leveraging available data. These dashboards support decision making of the topic owner and are tailored to the specific context of the topic or the organization.

**Interactive visuals:** Data-driven insights in drivers for success. (such as the pay-gap in this example)

**Clear view on KPI:** actual vs. target

**Tailored visualizations provide insights from data available in various source systems.**
POWER APP FOR MANUAL DATA ENTRY

If data cannot be sourced automatically, manual date entry is supported via a custom application. A review cycle is embedded to enhance trust in data quality.

Clear logs of the manual data entry and comments.

Reviewer can validate, overwrite or send the form back to the input user.
The homepage of the manual data entry application clearly indicates which information is open for input, to review or validated.
Multiple data sources are connected to host the sustainability dashboards. The data lineage page provides an overview of the data source per topic, and clearly indicates if data is complete.
The sustainability roadmap describes which actions will be implemented to reach the commitments. Via Trusted Sustainability Insights, implementation of the actions on the roadmap is monitored.

### ROADMAP

<table>
<thead>
<tr>
<th>Topic</th>
<th>KPI</th>
<th>Action</th>
<th>Target/Act.</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employment</td>
<td>Employee Turnover</td>
<td>Evaluate happiness survey</td>
<td>Actual</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Employment</td>
<td>Employee Turnover</td>
<td>Evaluate happiness survey</td>
<td>Target</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Employment</td>
<td>Employee Turnover</td>
<td>Make concrete plans and actions...</td>
<td>Actual</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Employment</td>
<td>Employee Turnover</td>
<td>Make concrete plans and actions...</td>
<td>Target</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Employment</td>
<td>Employee Turnover</td>
<td>Send out happiness survey to em.</td>
<td>Actual</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Employment</td>
<td>Employee Turnover</td>
<td>Send out happiness survey to em.</td>
<td>Target</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greenhouse Gases</td>
<td>Metric tons CO₂eq.</td>
<td>Procure and certify 100% renew.</td>
<td>Actual</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greenhouse Gases</td>
<td>Metric tons CO₂eq.</td>
<td>Procure and certify 100% renew.</td>
<td>Target</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greenhouse Gases</td>
<td>Metric tons CO₂eq.</td>
<td>Replace car park with 100% elect.</td>
<td>Target</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greenhouse Gases</td>
<td>Metric tons CO₂eq.</td>
<td>Replace outdated systems and m...</td>
<td>Target</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noise</td>
<td>Noise violations</td>
<td>Replace outdated machinery</td>
<td>Actual</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noise</td>
<td>Noise violations</td>
<td>Replace outdated machinery</td>
<td>Target</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noise</td>
<td>Noise violations</td>
<td>Install noise walls around loud en...</td>
<td>Target</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noise</td>
<td>Noise violations</td>
<td>Reduce nightly outgoing traffic</td>
<td>Target</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety &amp; Security</td>
<td># Theft reports</td>
<td>Evaluate and implement additi...</td>
<td>Actual</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety &amp; Security</td>
<td># Theft reports</td>
<td>Evaluate and implement additi...</td>
<td>Target</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Safety &amp; Security</td>
<td># Theft reports</td>
<td>Increase awareness of valuable ic...</td>
<td>Actual</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Planned execution of actions is visualized and compared with actual timing of implementation.
For actions that are completed, the expected impact on a KPI is compared with the observed value for the specific indicator. This allows to evaluate periodically if the roadmap will lead to the anticipated results.
An impact assessment on the material topics allows to quantify external costs and benefits.
The importance of different impacts can be compared and evolution over time can be tracked.

Interactive visuals allow to focus within a domain or follow-up on progress over time.
The impact assessment allows to consider ESG-impact in decision making, and provides a way to consider both financial criteria as sustainability impact when evaluating an action or scenario.
The key building blocks of Trusted Sustainability Insights are summarized below:

- **Focus on material topics & maintain overview**
- **Monitor progress on KPI’s to realize ambitions**
- **Detailed dashboards: actionable insights per topic**
- **Enhance transparency via data lineage view**

1. **Input and review manual data to boost data quality**
2. **Keep track of the sustainability roadmap**
3. **True Value: a holistic view on your impact**
4. **Keep track on the data entry and review list**