Sustainability Planning and Simulation

IBM Planning Analytics for sustainability

Overview and details for current accelerator-models

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Turn sustainability ambition into action

Sustainability Strategy and Roadmap

Co-creating a sustainability agenda and pathways towards delivering corporate social impact and business value

ESG Data, Reporting and Risk Management

System of record for ESG data and insights to measure, report, operationalize and achieve your sustainability roadmap





Intelligent assets, facilities and infrastructure

Operational insights to drive clean energy transition, efficient waste management, and decarbonization





Responsible computing and green IT

Optimize infrastructure and computing to enable more efficient IT and drive social impact



Sustainable supply chains and circularity

Intelligent workflows for equitable, transparent, and carbon regenerative supply chains

IBM Sustainability Portfolio: Technology & Consulting

IBM Consulting and Ecosystem Partners

Strategy, experience, technology, and managed services Sustainability Strategy and Roadmap

Garage for Sustainability (co-creation)
Sustainability strategic advisory services

ESG Data, Reporting and Risk Management

Envizi ESG Suite Environmental Intelligence Suite Planning Analytics | OpenPages





Intelligent assets, facilities and infrastructure

Maximo TRIRIGA



Responsible computing and green IT

Turbonomic z16 | LinuxONE | Power | Storage IBM Cloud



Sustainable supply chains and circularity

Supply Chain Intelligence Suite Sterling Order Management

IBM Technology and Ecosystem Partners

Accelerate from sustainability insights to sustainability action

9000

Companies need to improve management of data across siloed sources and datasets

Data challenges

Access, management and operationalization of sustainability data across siloed sources and evolving reporting datasets

Slow integration of sustainability planning, reporting and result analysis into financial and business planning

Lack of data quality and accuracy as basis

Stakeholder challenges

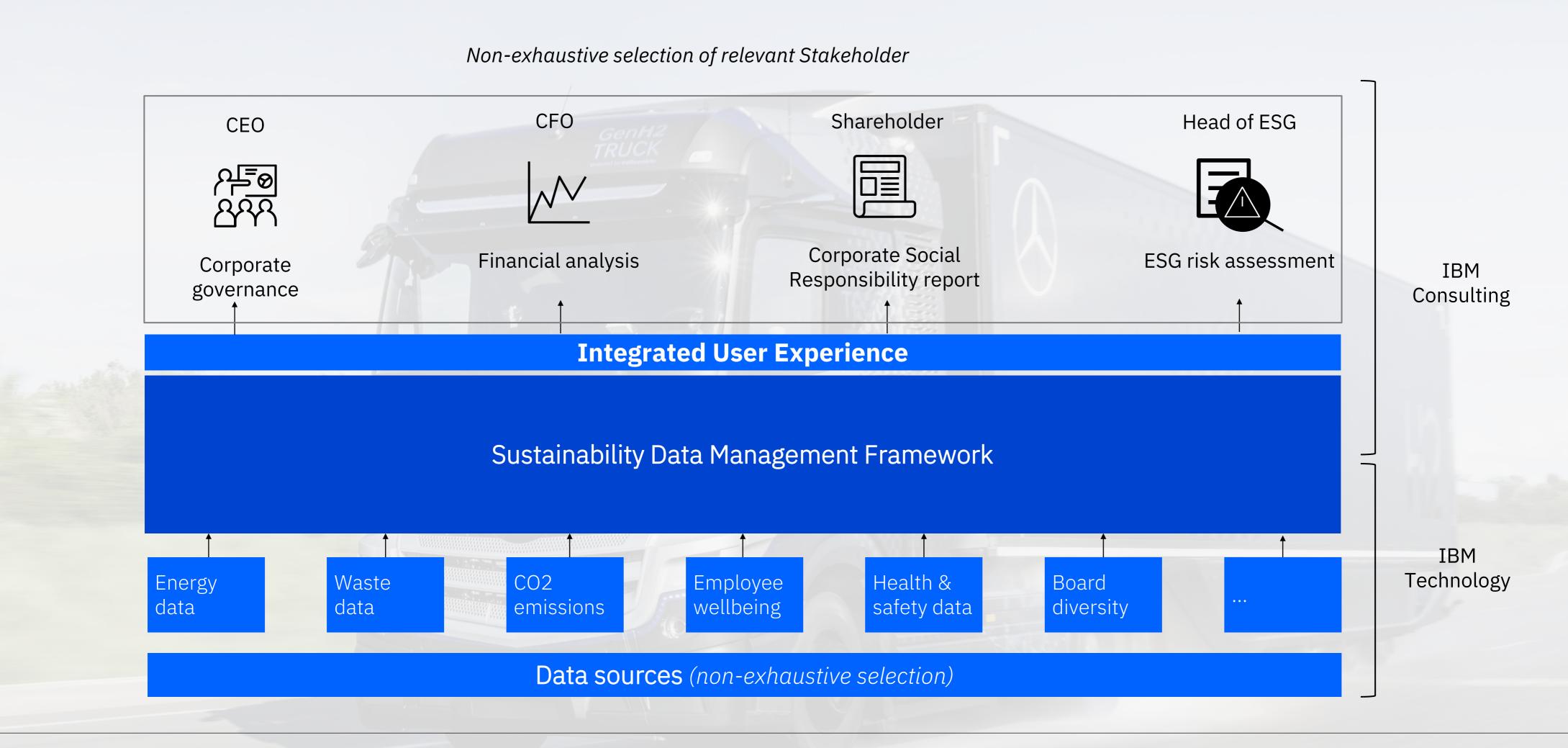
Pressure to move from data management to actions with impact for different stakeholder

Diverse Stakeholder demands for transparency and accuracy from Leadership, regulators, investors, and customers

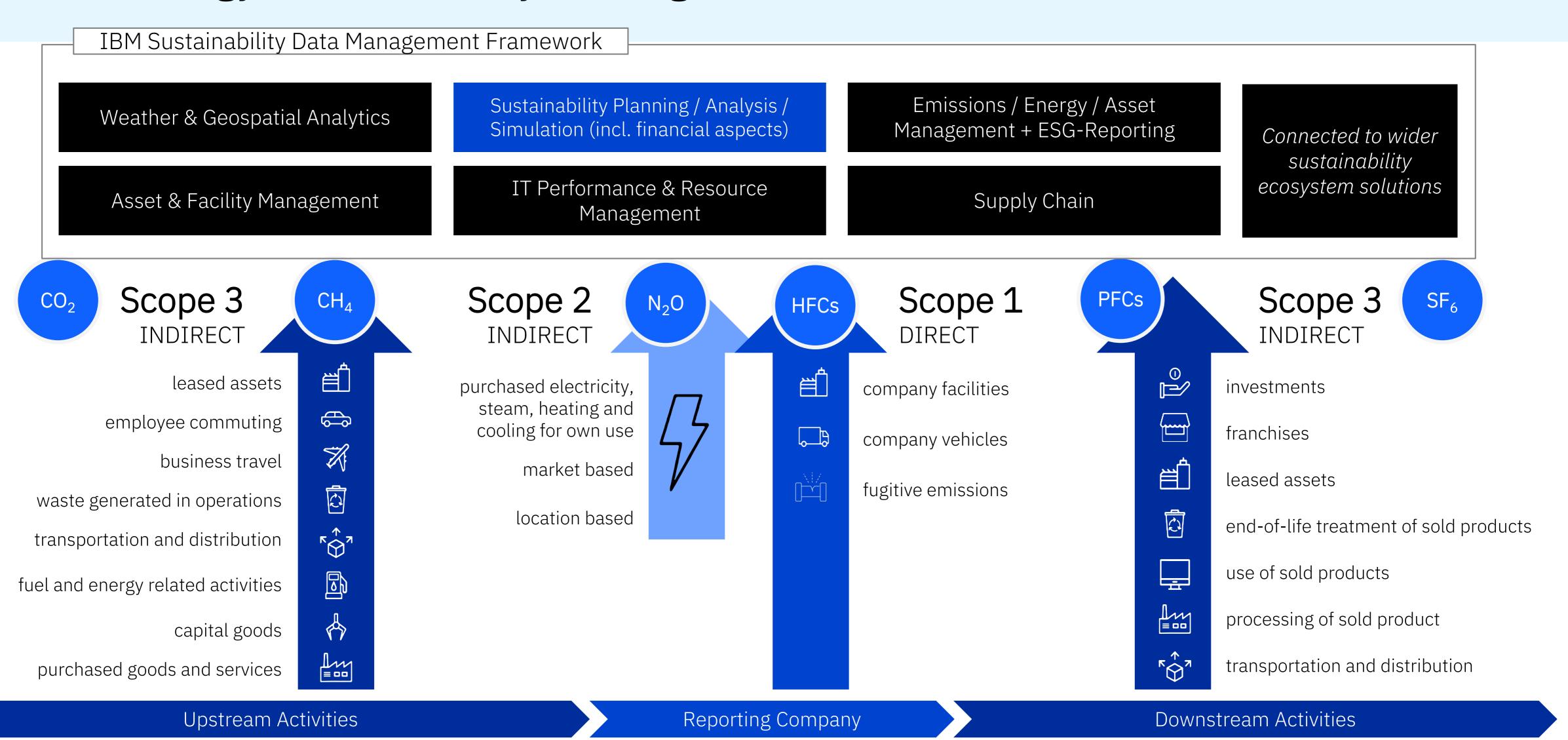
Pressure to act

Lack of standardized industry reporting metrics

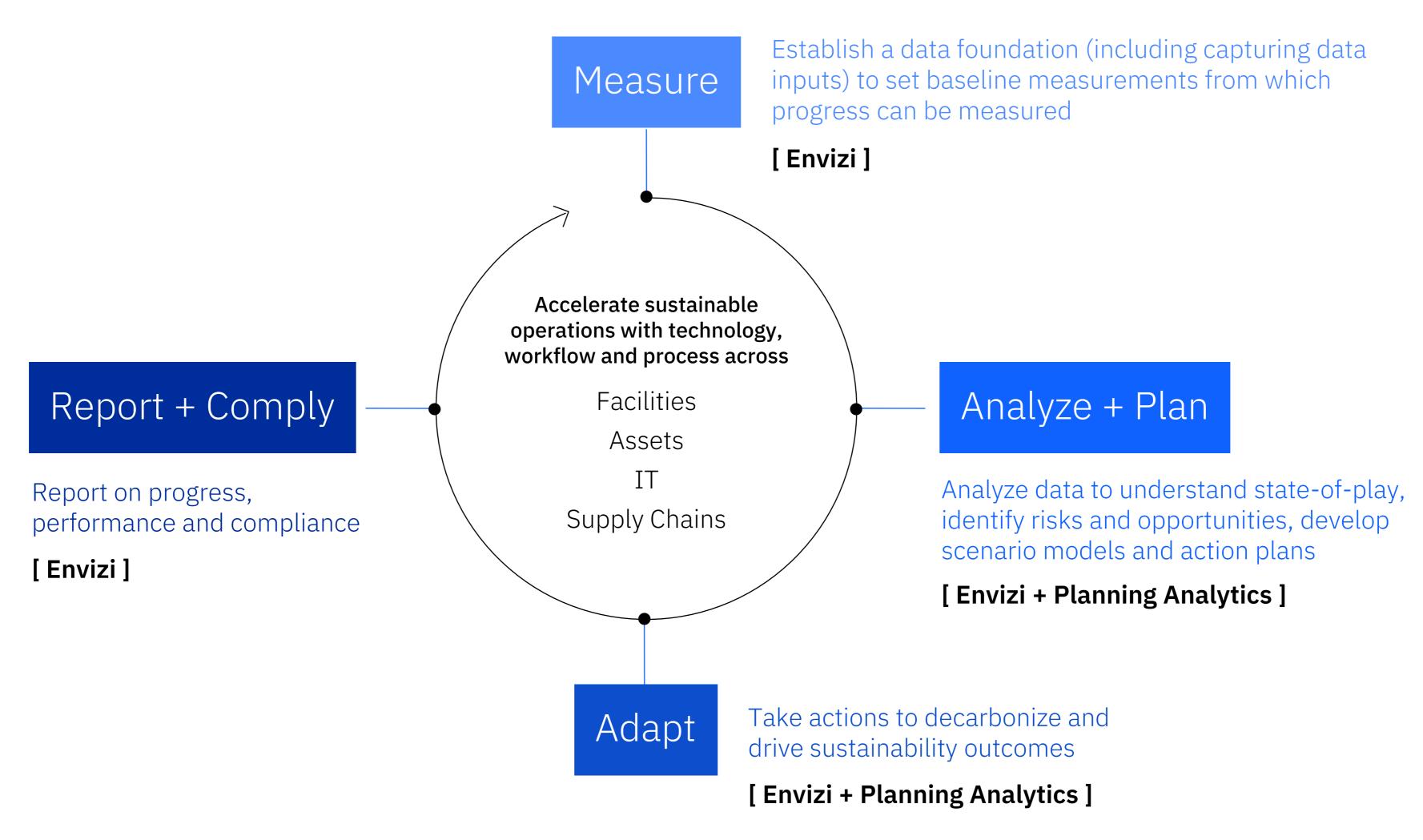
Integrate and streamline with IBMs sustainability solutions



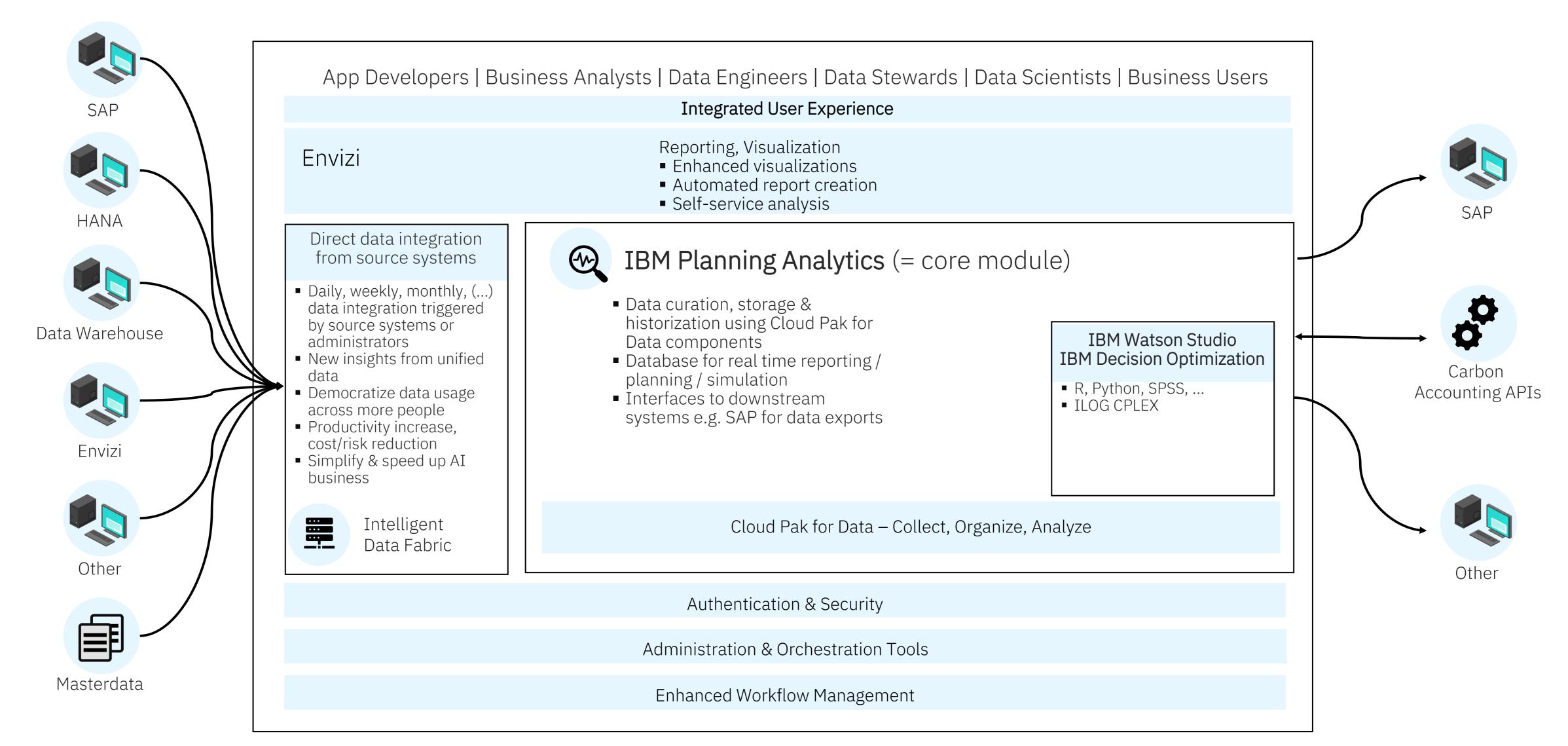
IBM Technology – Sustainability Offerings – Data sources



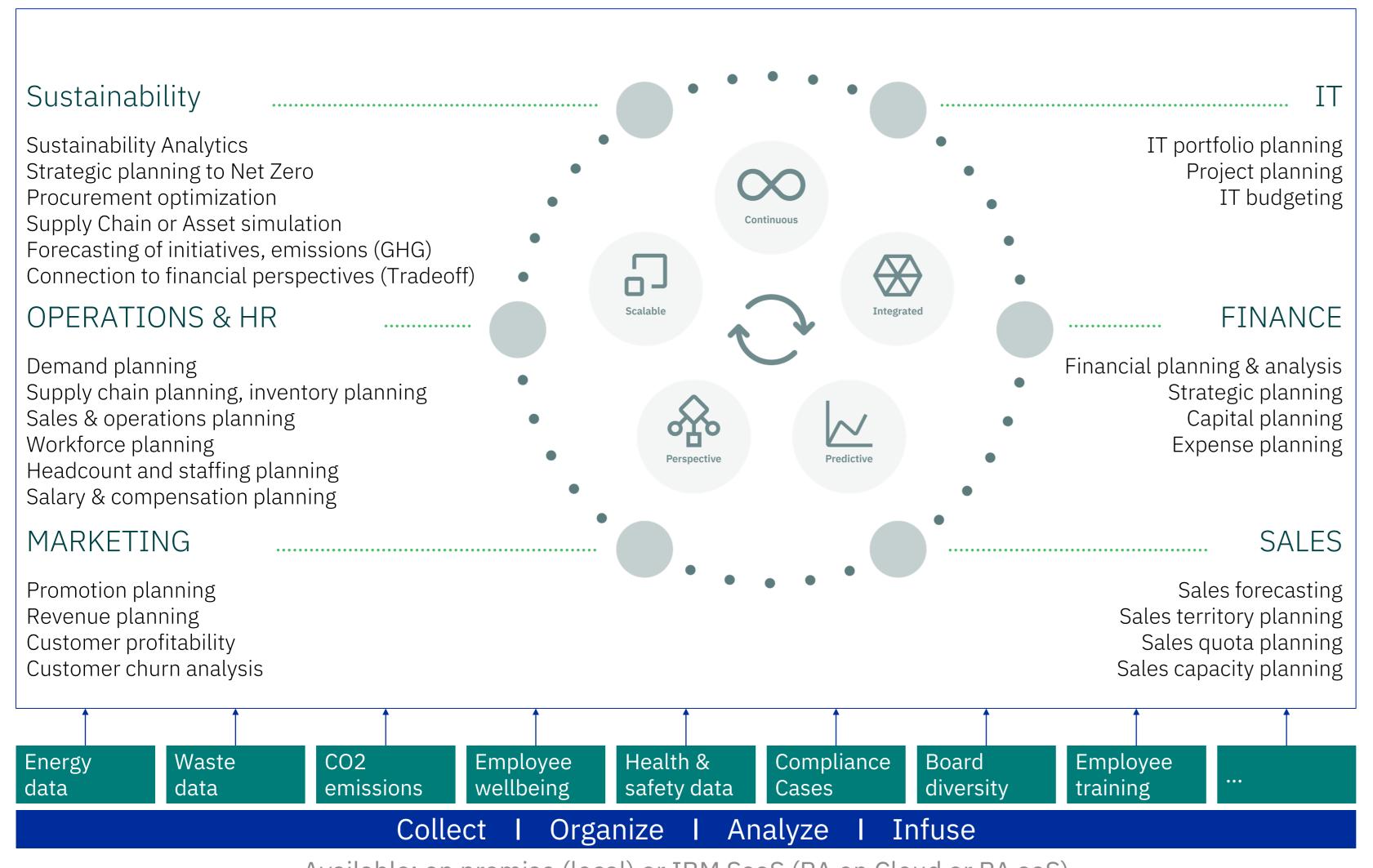
One IBM Sustainability Technology

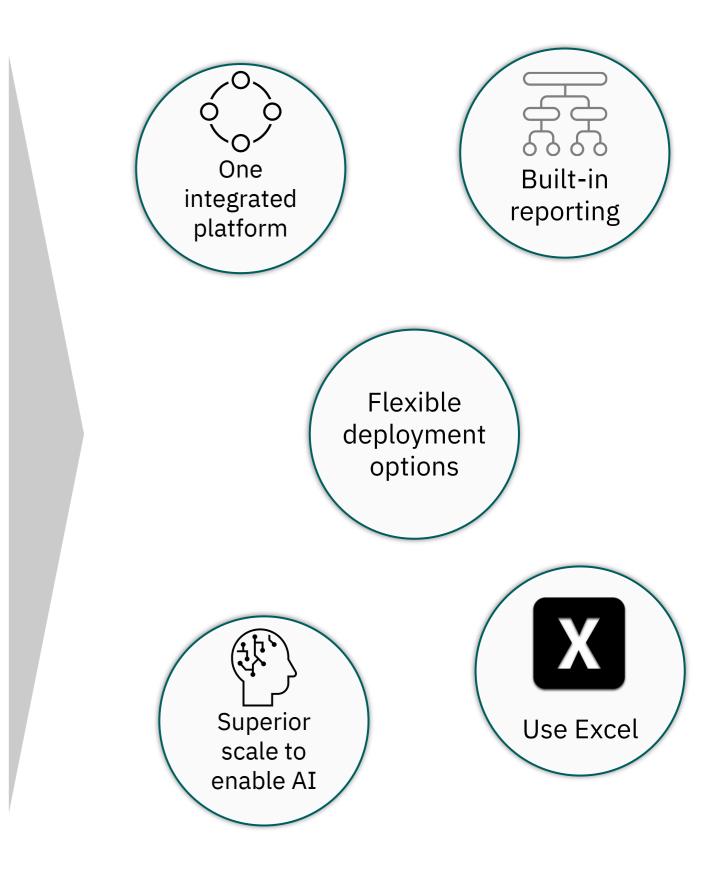


A fully integrated Sustainability Solution architecture



We support planning, reporting and analysis of sustainability data for corporate use cases

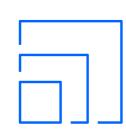




Available: on premise (local) or IBM SaaS (PA on Cloud or PA aaS)

IBM Planning Analytics

Sustainability planning, simulation and optimization



Path to Net Zero ESG

Scope 3 in Procurement
– optimizing
procurement to reduce
emissions



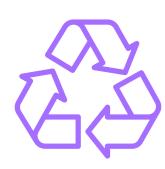
Logistics

Simulate and compare sustainability measures for logistics assets



Sustainability in the Supply Chain

Product footprint throughout supply chain



Green Portfolio

Optimize asset-portfolio against sustainability KPIs



Sustainability in the Chemical Sector

WBCSD PSA, Mass Balance

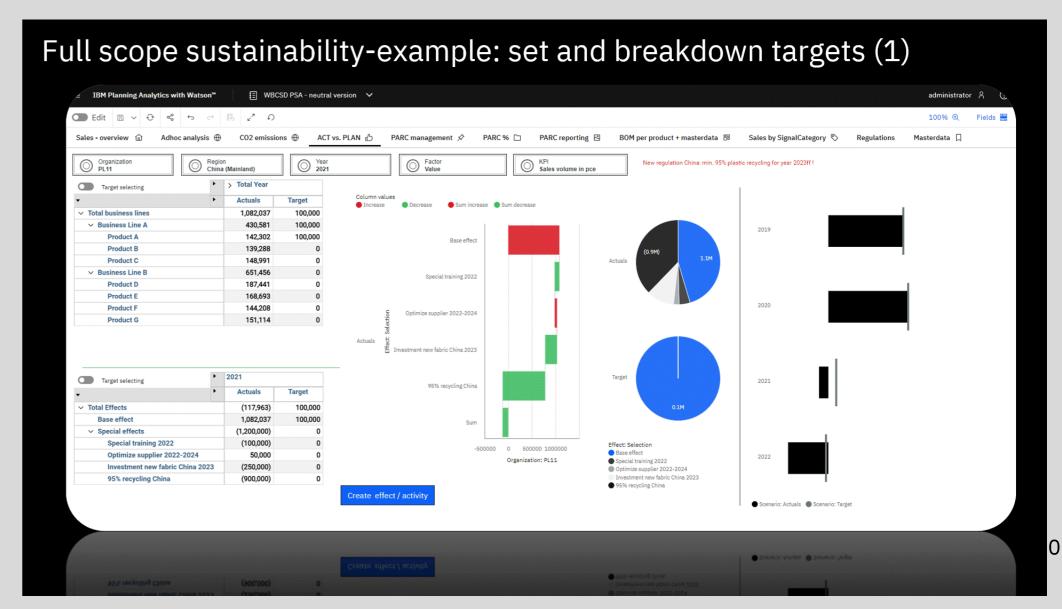


SDG Analytics

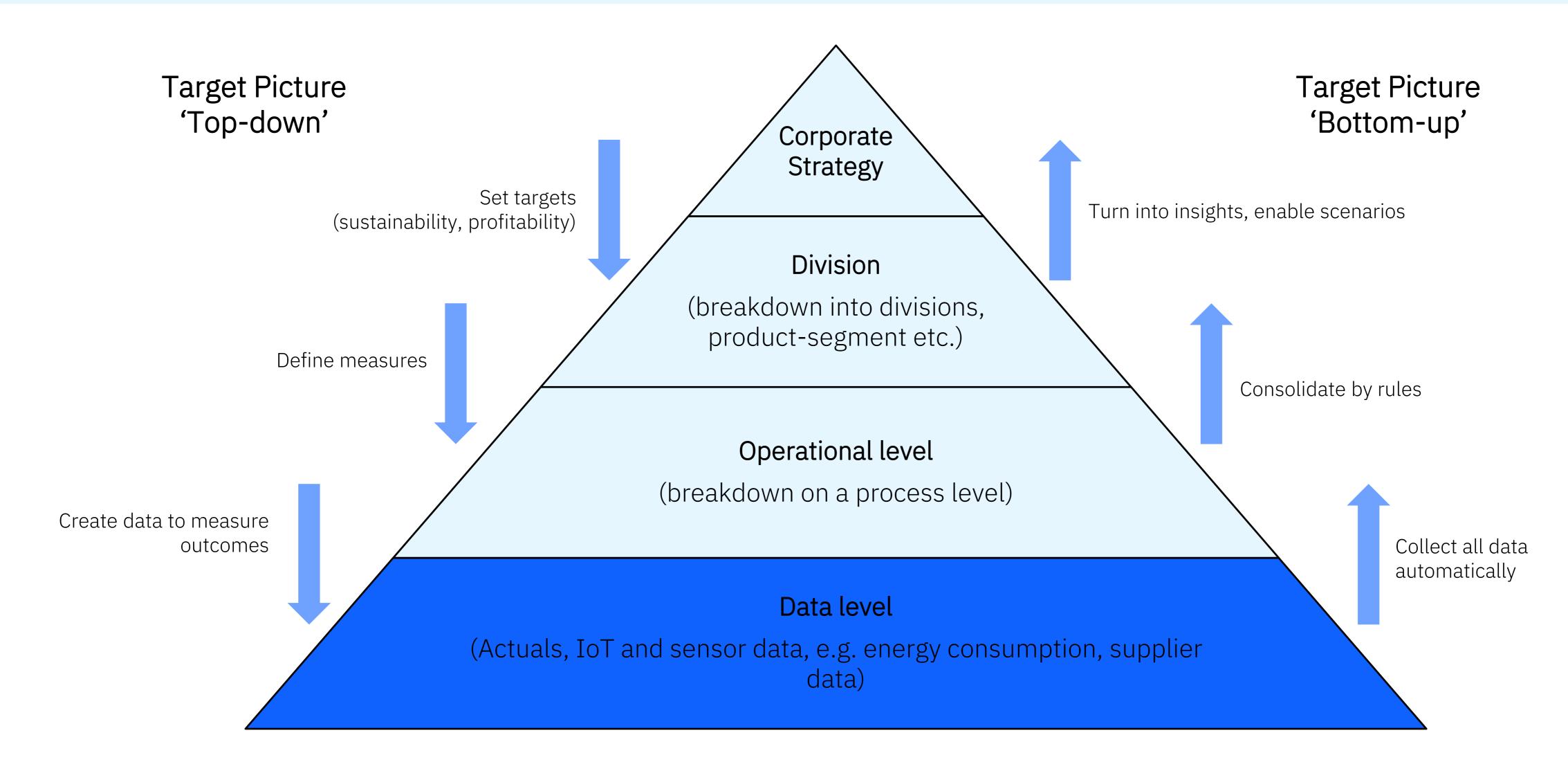
17 United Nations
Sustainable Development
Goals (SDGs)

IBM Planning Analytics is an integrated solution with built in modeling and AI capability that supports planning, analysis, and optimization of sustainability data as part of an integrated planning process.

- Model your ESG targets & goals (top-down/bottom-up) and analyze deviations against your actual data
- Create & manage initiatives and corrective actions to meet set targets. Use AI
 to optimize automatically different concerning costs / sustainability / etc.
- Link sustainability results and ESG performance to financial indicators
- Incorporate ESG data into the supply chain planning process –optimizing procurement decisions for GHG and ESG objectives
- Analyze and visualize your goals and indicators in the context of the UN's 17
 Sustainable Development Goals (SDGs) through a modern and customizable
 workspace.



A fully implemented Sustainability Data Management solution will help to close the loop



We support your fast start for sustainability planning

Enhance your ESG-solution.

Fast start.

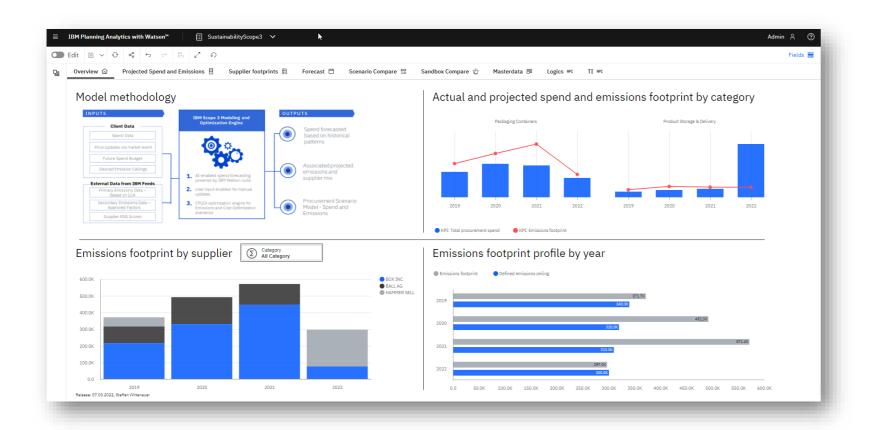
No costs for the models.

Unbeatable out of the box functions.

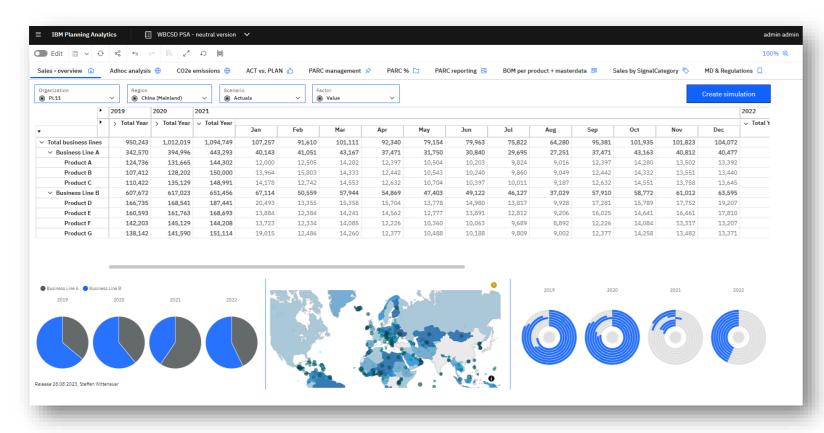
IBM is offering to clients and business partners an ongoing growing set of prebuild models for sustainability planning. Everything is based on IBM Planning Analytics.

These already mature models — we call them accelerators - can be used to accelerate your projects or being a perfect starting point for even bigger sustainability models. The models are free of costs. All models were cocreated with clients and have an existing use case in their background.

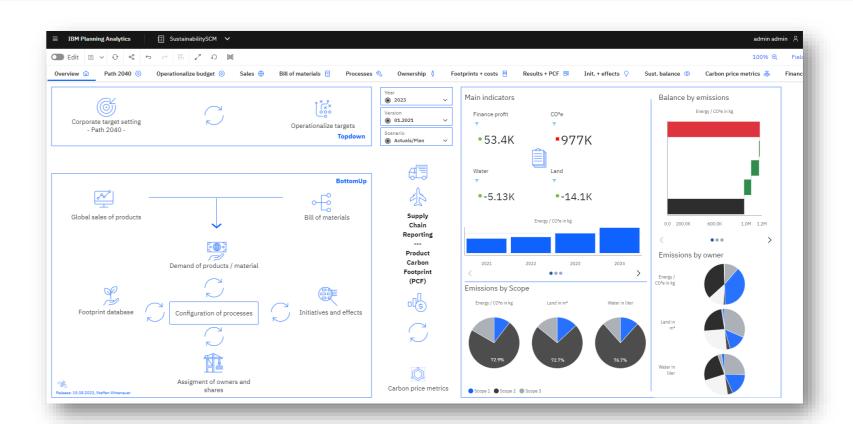
Overview of current sustainability-accelerators for IBM Planning Analytics (1/3):



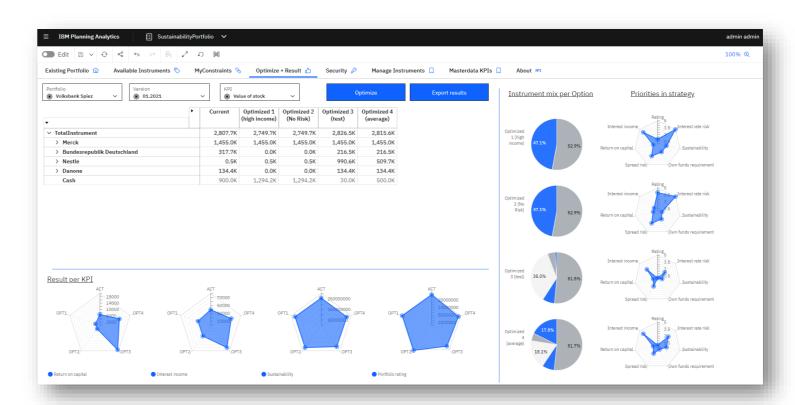
Accelerators: 'Sustainability vs. Profitability – optimize it' (Scope 3 in procurement)



Accelerators: 'Sustainability in the chemical sector' (WBCSD PSA*, Mass Balancing)

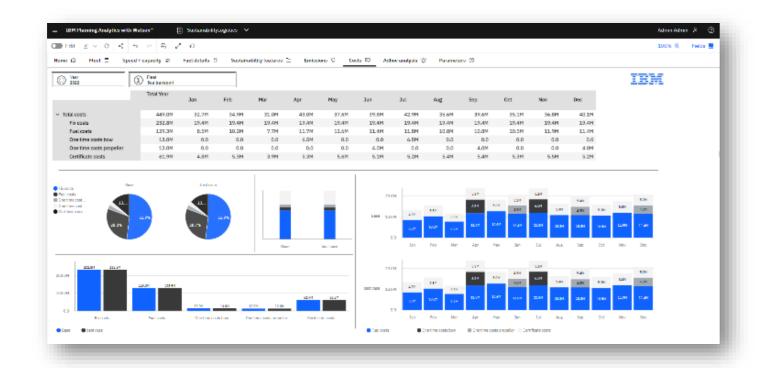


Accelerator: 'Sustainability in the Supply Chain' (Operationalize targets to all processes incl. PCF)

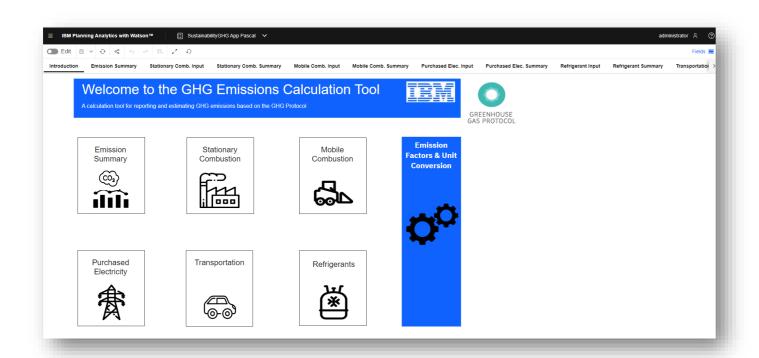


Accelerators: 'Sustainability vs. Profitability – optimize it' (green portfolio or internal project-budget-prioritization)

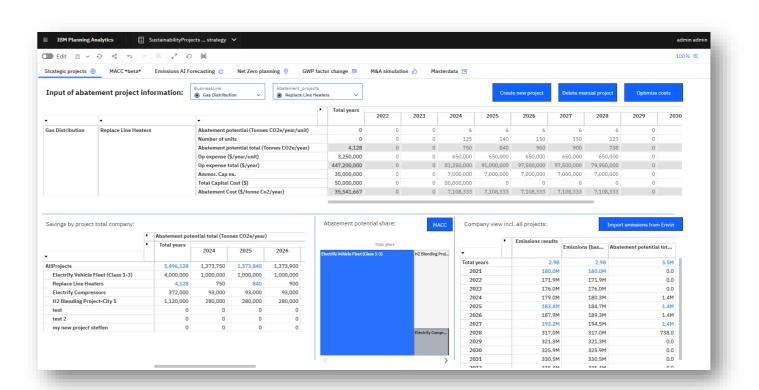
Overview of current sustainability-accelerators for IBM Planning Analytics (2/3):



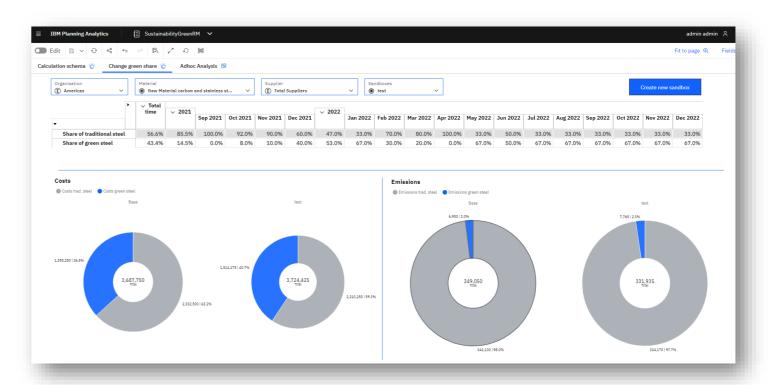
Accelerator: 'Sustainability asset upgrades' (example logistics: simulate asset-upgrades on energy consumption, costs and emissions)



Accelerator: 'Operational Emissions Management Tool: breakdown and operationalize CO2e budgets'

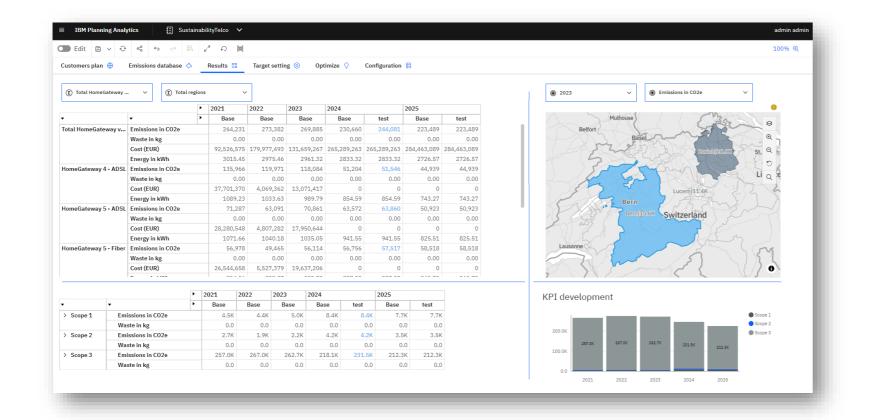


Accelerator: 'Sustainability Decarbonization Strategy' (Strategic projects / MACC, merger & acquisition, global GWP-factors-change, AI forecasting)

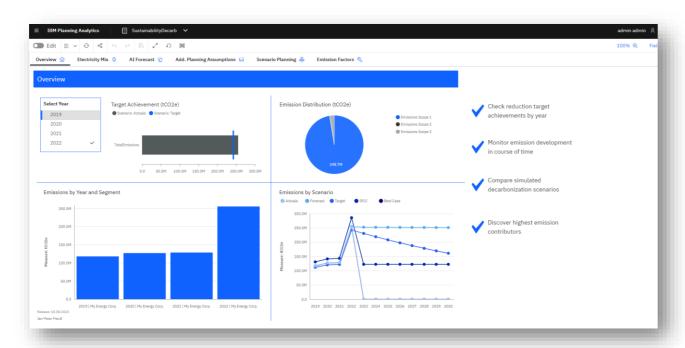


Accelerator: 'Green raw material' (example steel procurement: simulate share of green steel)

Overview of current sustainability-accelerators for IBM Planning Analytics (3/3):



Accelerator: 'Sustainable Telco' (simulate change of products/clients, processes, lifecycle etc.)



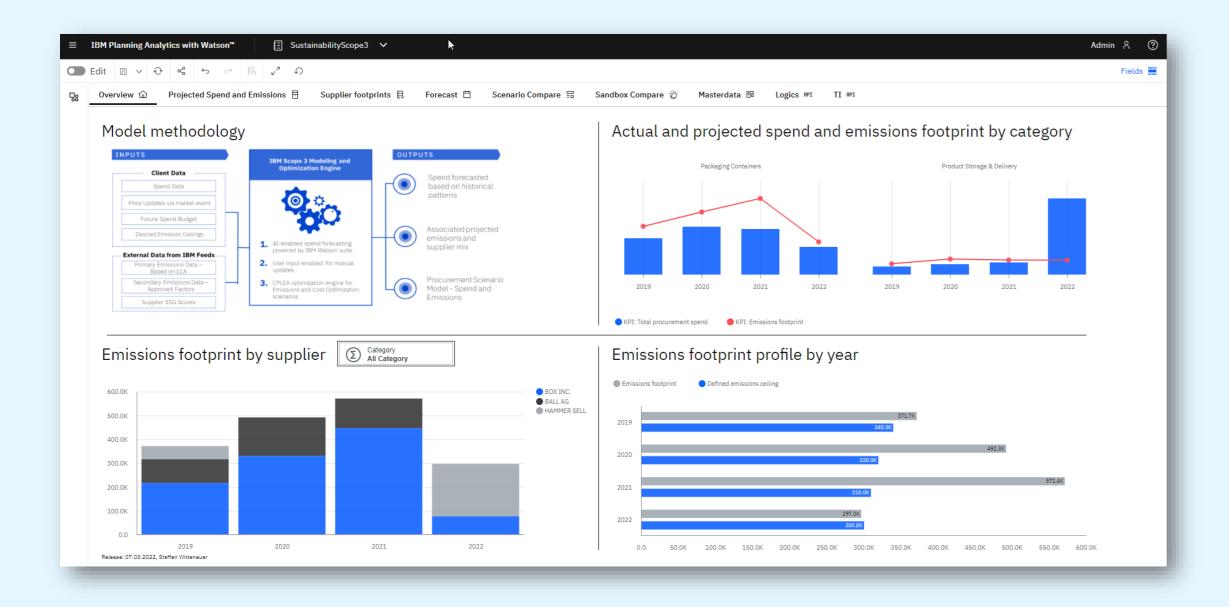
Accelerator: 'Sustainable Energy Decarbonization' (simulate energy mix of energy production or grid losses)



Accelerator: 'Sustainability analytics entry point' (17 United Nations goals / SDGs)

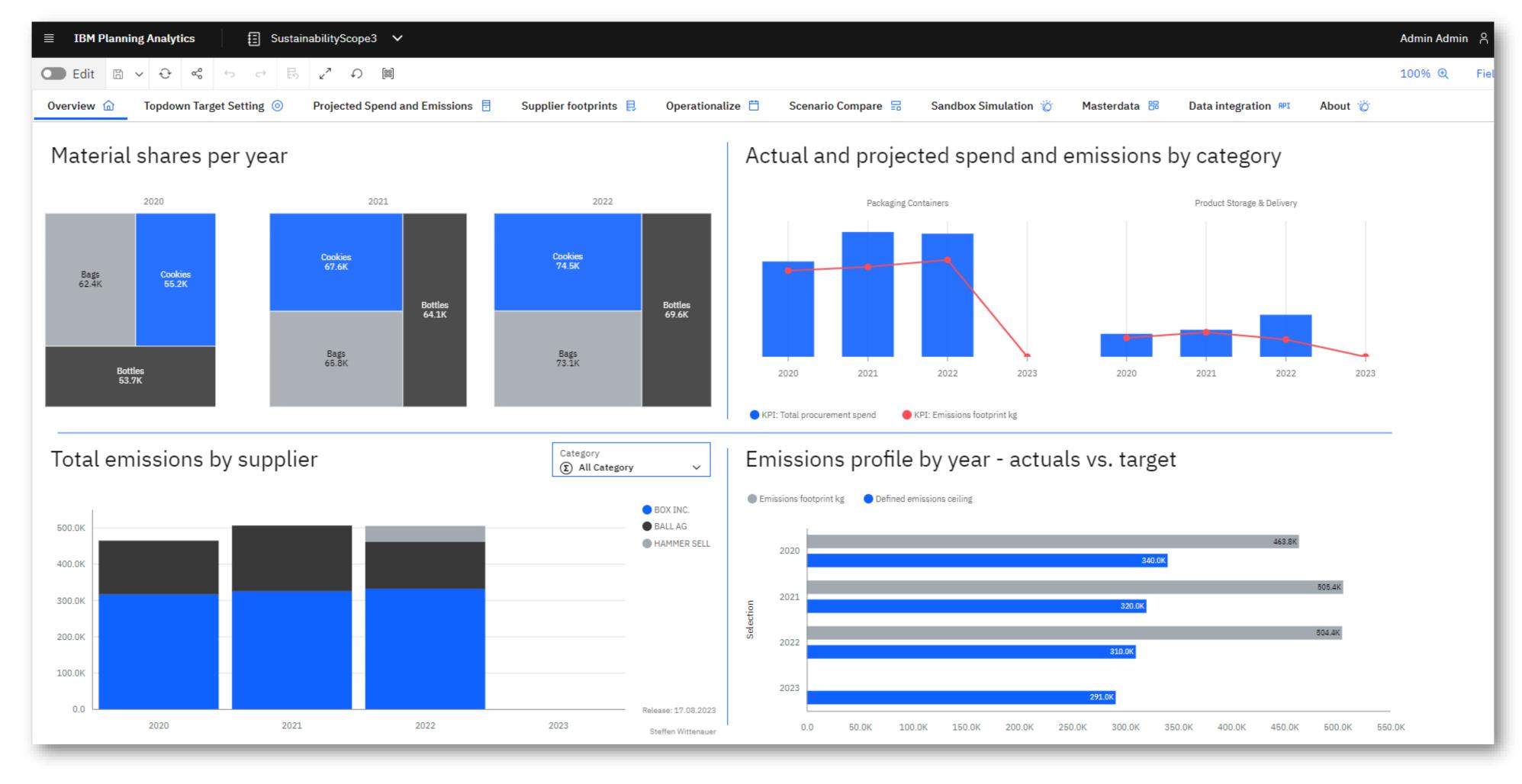
Accelerator: Sustainability vs. Profitability – optimize it

Scope 3 in procurement



- Purpose: possible starting point for each client having not yet any reporting or target-setting for sustainability scope 3 – especially in the procurement-department
- Content: based on footprints (CO2e, costs etc.) and material-demand & spend, a client can simulate the scope 3-effect vs. occurring costs
- The model can be extended with other businessconstraints like minimum order quantity, general supplier-ESG-ratings or stock-parameters
- Data sources: master data can be manually adapted – actuals can be loaded (files, data warehouse etc.) or manually inputted
- Technology: IBM Planning Analytics, ILOG CPLEX (as addit. optimization-component for sustainability vs. costs)

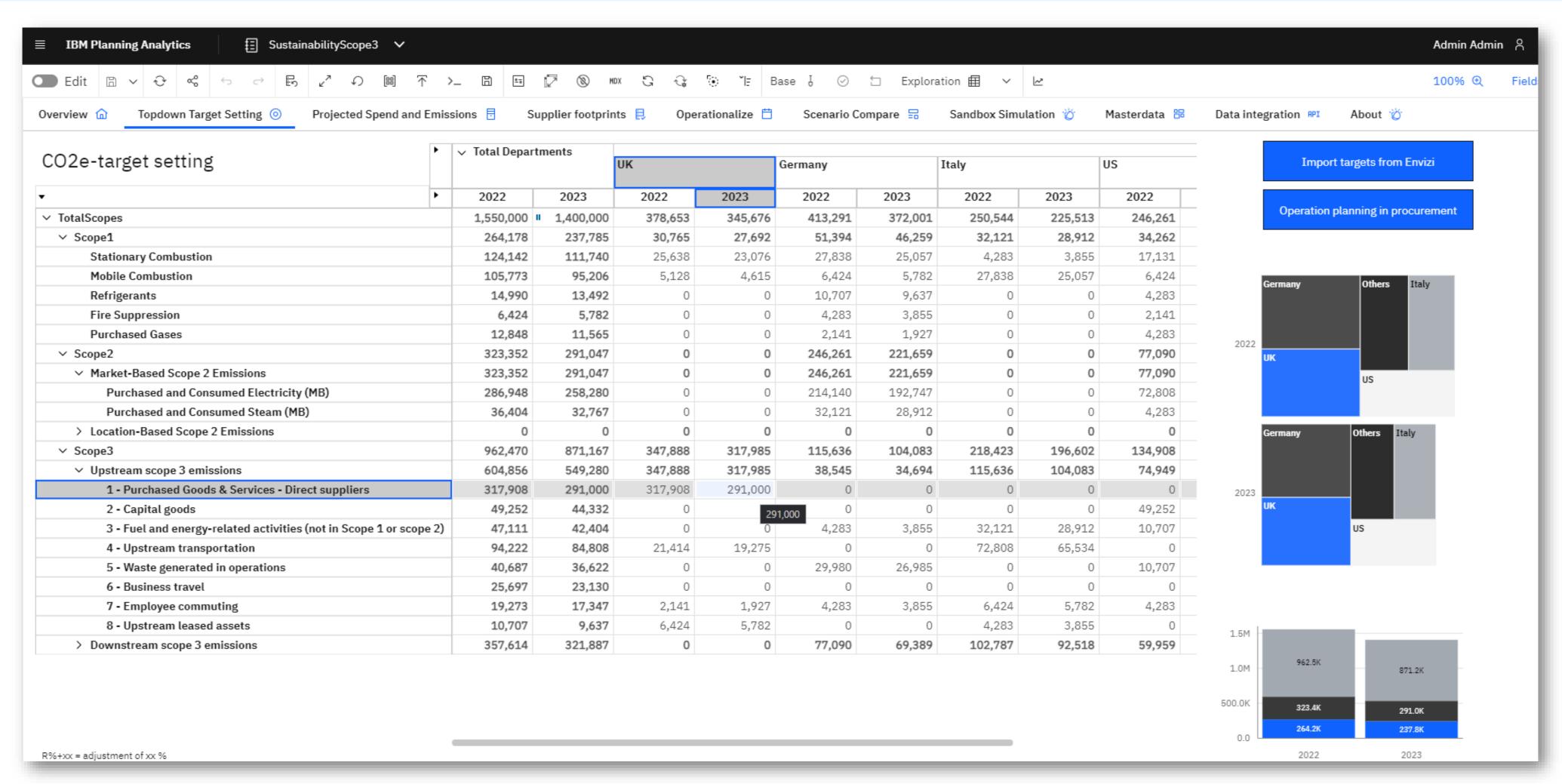
Landing page with KPI-overview - example in procurement



The defined main-KPIs and display of the process

Sustainability vs. Profitability – optimize it

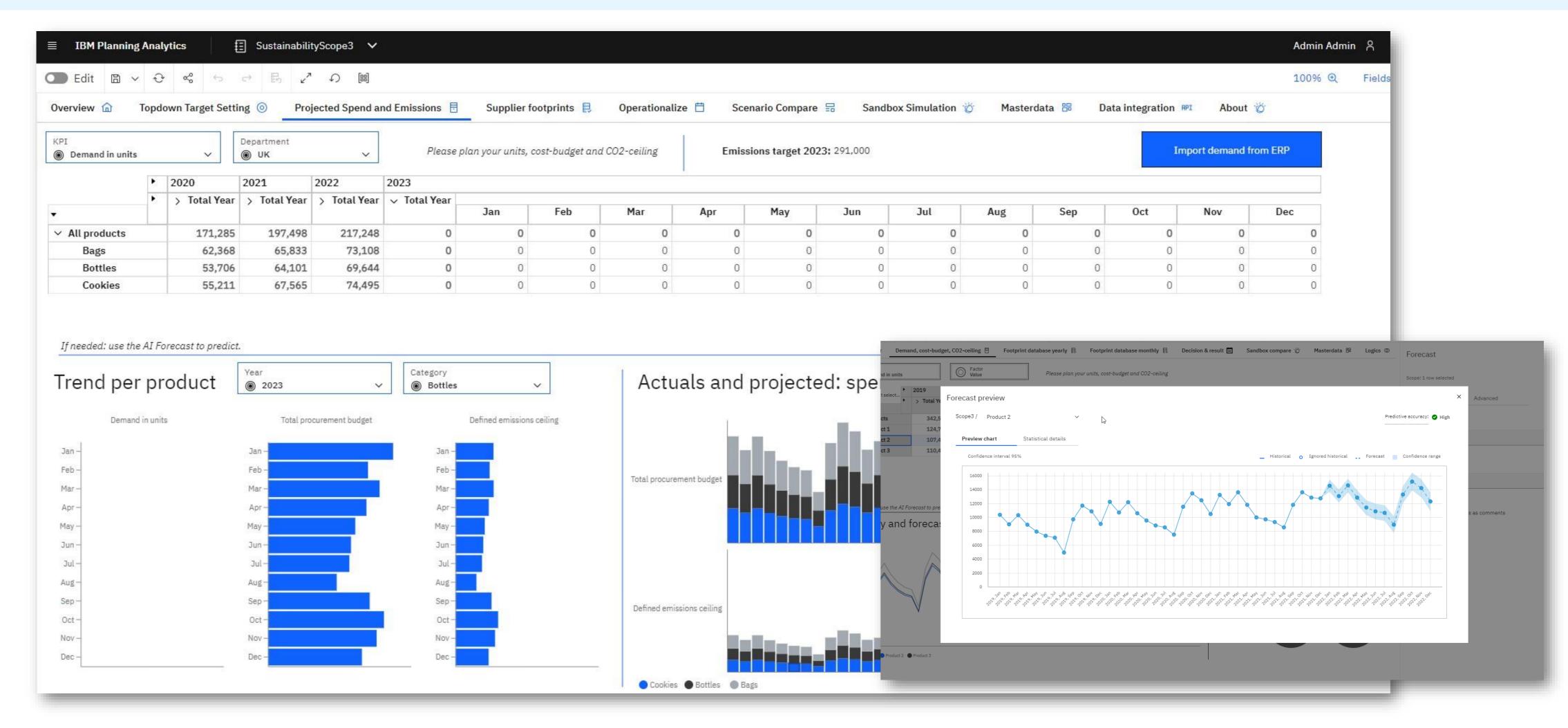
Start breaking down sustainability targets to departments and accounts (top down)



Use last years actuals or any other mechanisms to set targets for the future and break them top down to individual levels down, e.g. for procurement

18

Plan your future (unit-demand, spend-budget, CO2e-budget)

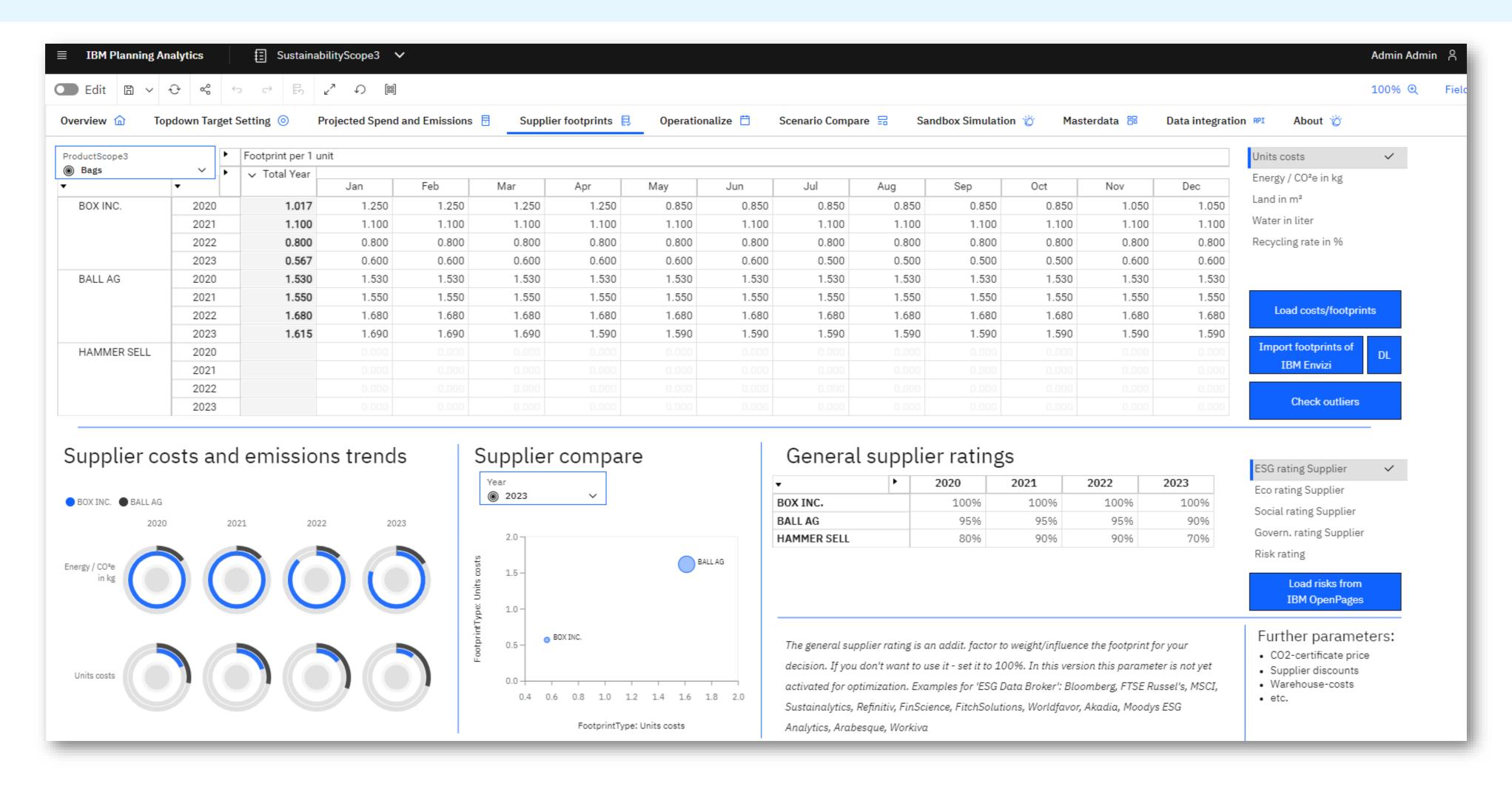


Plan everything initially bottom-up incl. targets - if data is not available in source-systems like ERP etc., units and budgets can be inputted or forecasted

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19

Load/input ESG-footprints incl. costs and ESG-ratings for possible suppliers

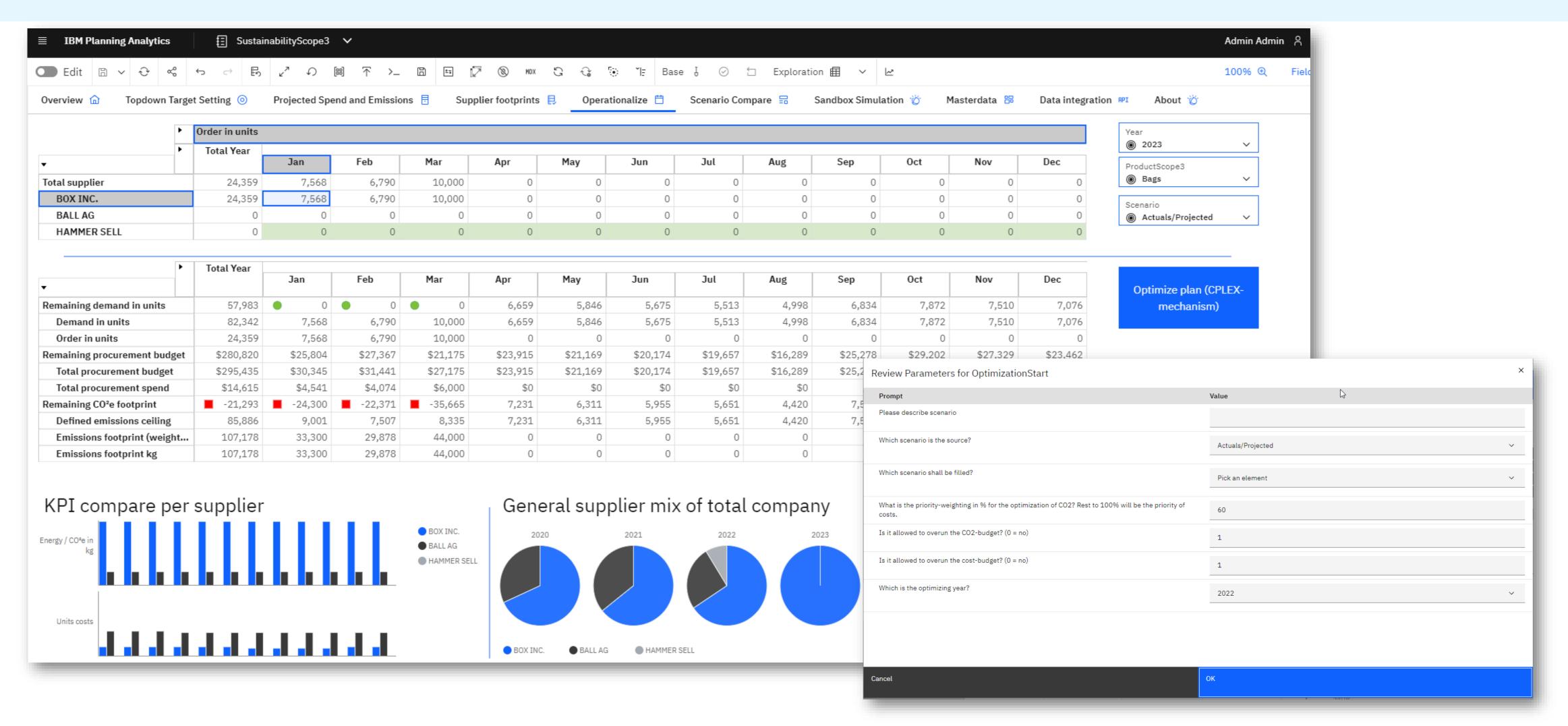


Load or input the different footprints like CO2 or costs on a yearly or monthly basis per product, supplier etc.

20

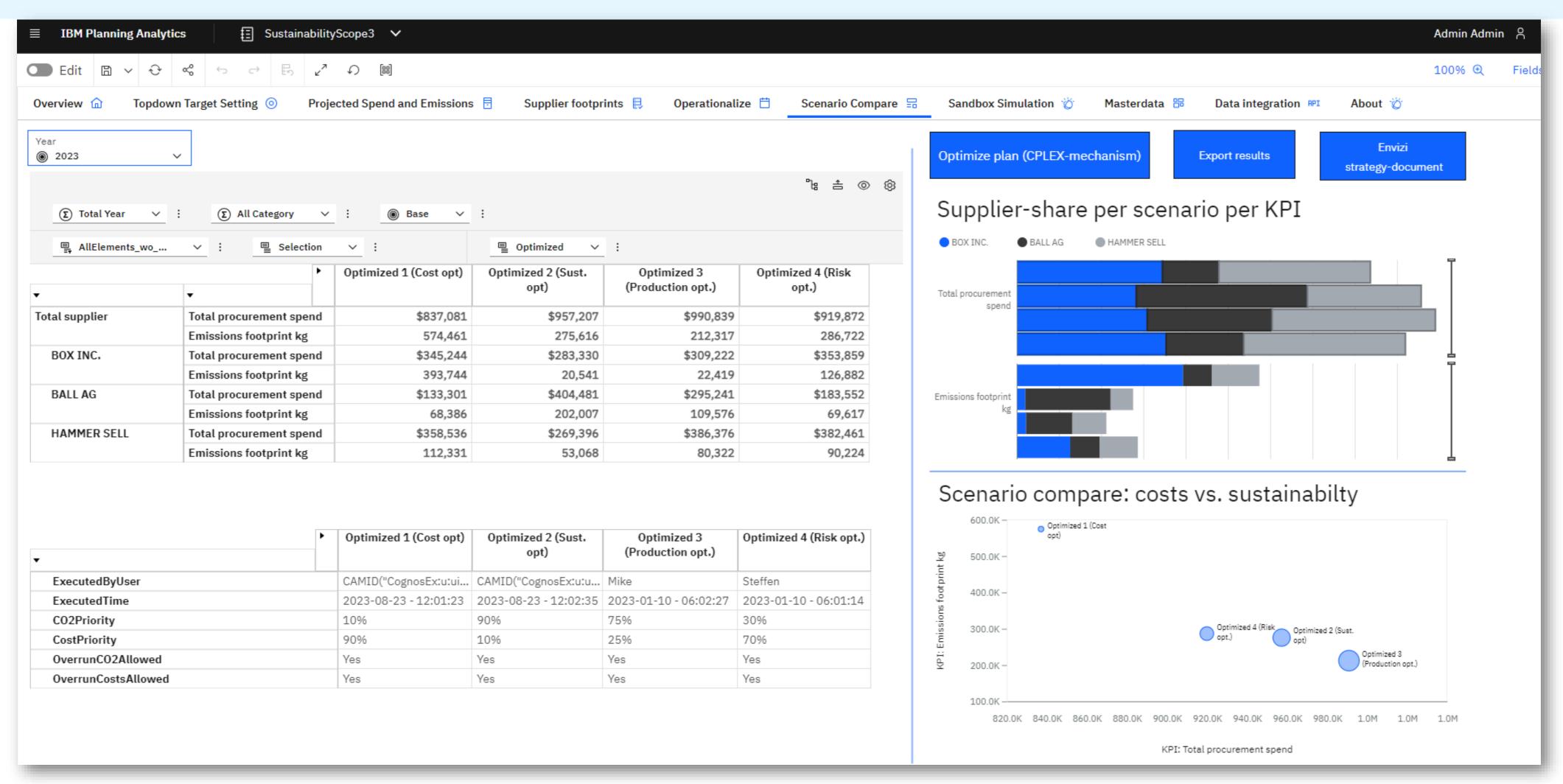
Sustainability vs. Profitability – optimize it

Plan, simulate or optimize corporate plan with units, suppliers, scope 3-footprint, costs etc.



Find a decision to find the perfect product-supplier-mix concerning your targets incl. optimization in real-time to find your strategy

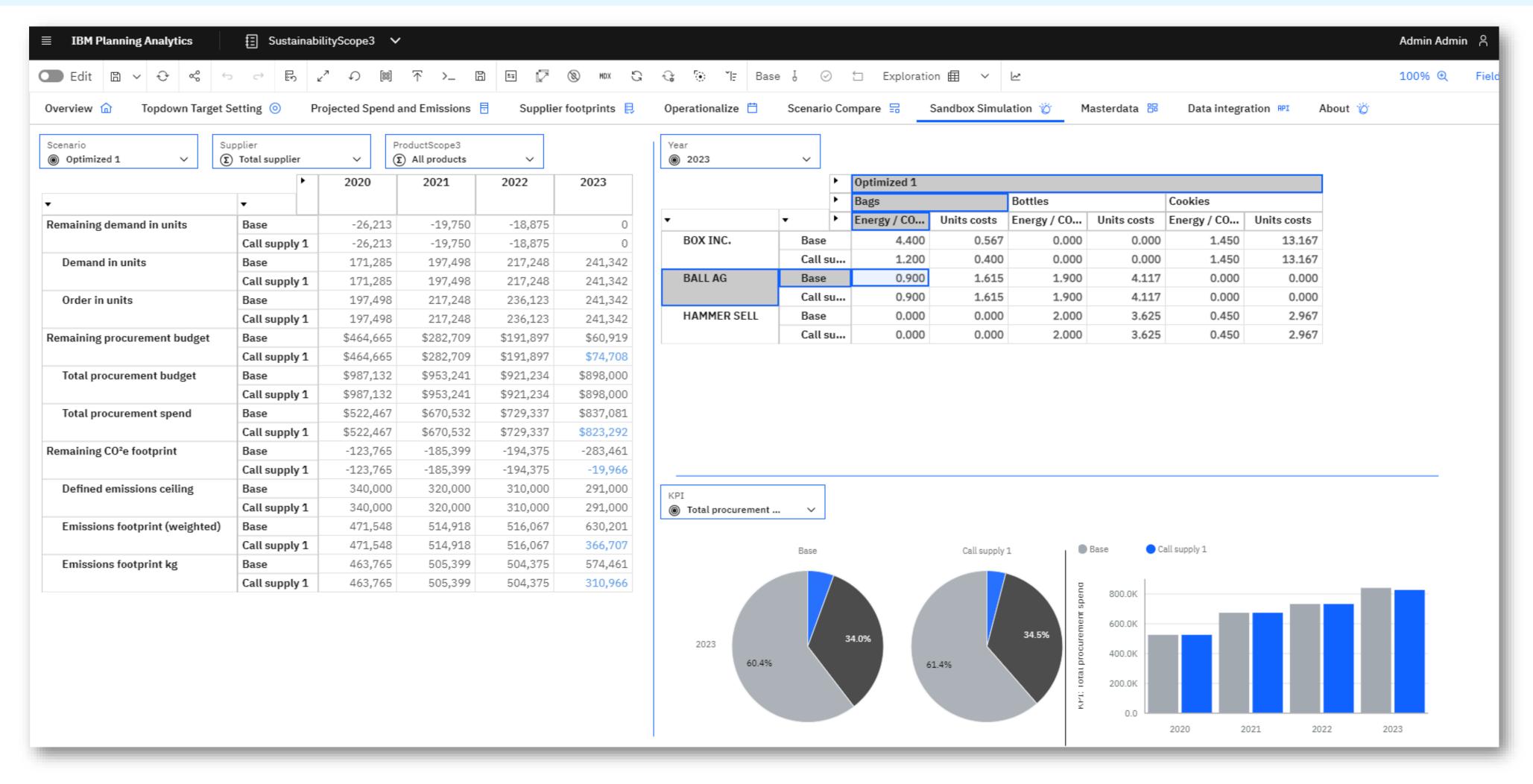
Compare the automated calculated scenarios



Compare the calculated options incl. the parameters and analyze all forecasted details on all levels of the model in real-time-speed for an optimized decision

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Compare your real-time simulation/sandboxes and decide for your future

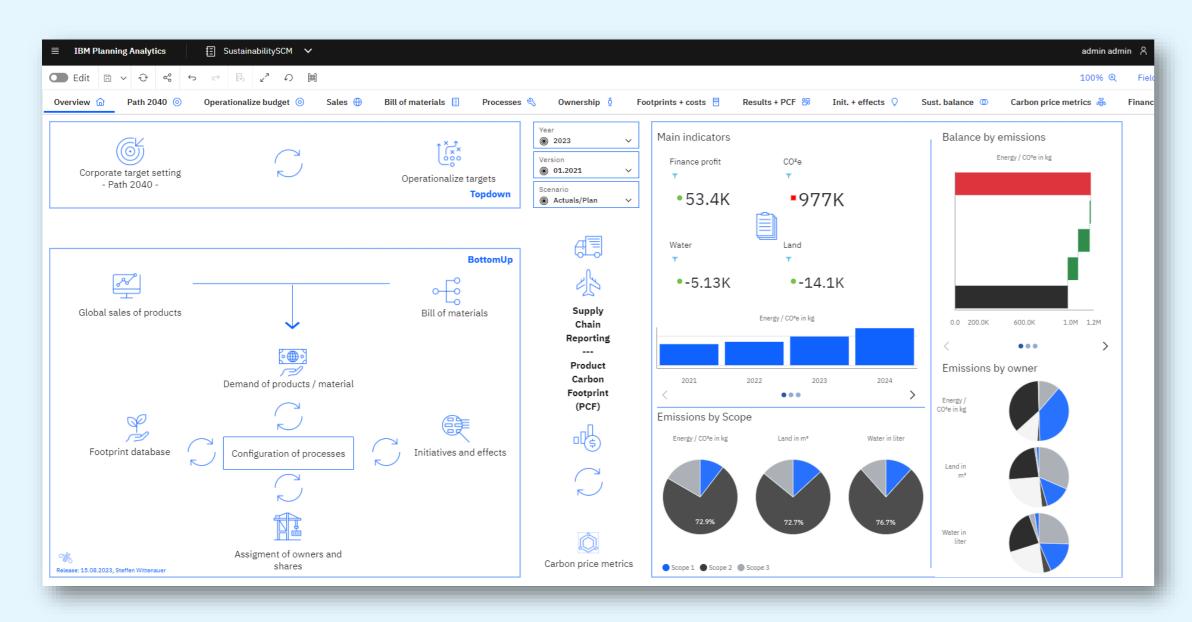


Compare your real-time simulation/sandboxes and decide for your future

Accelerator:

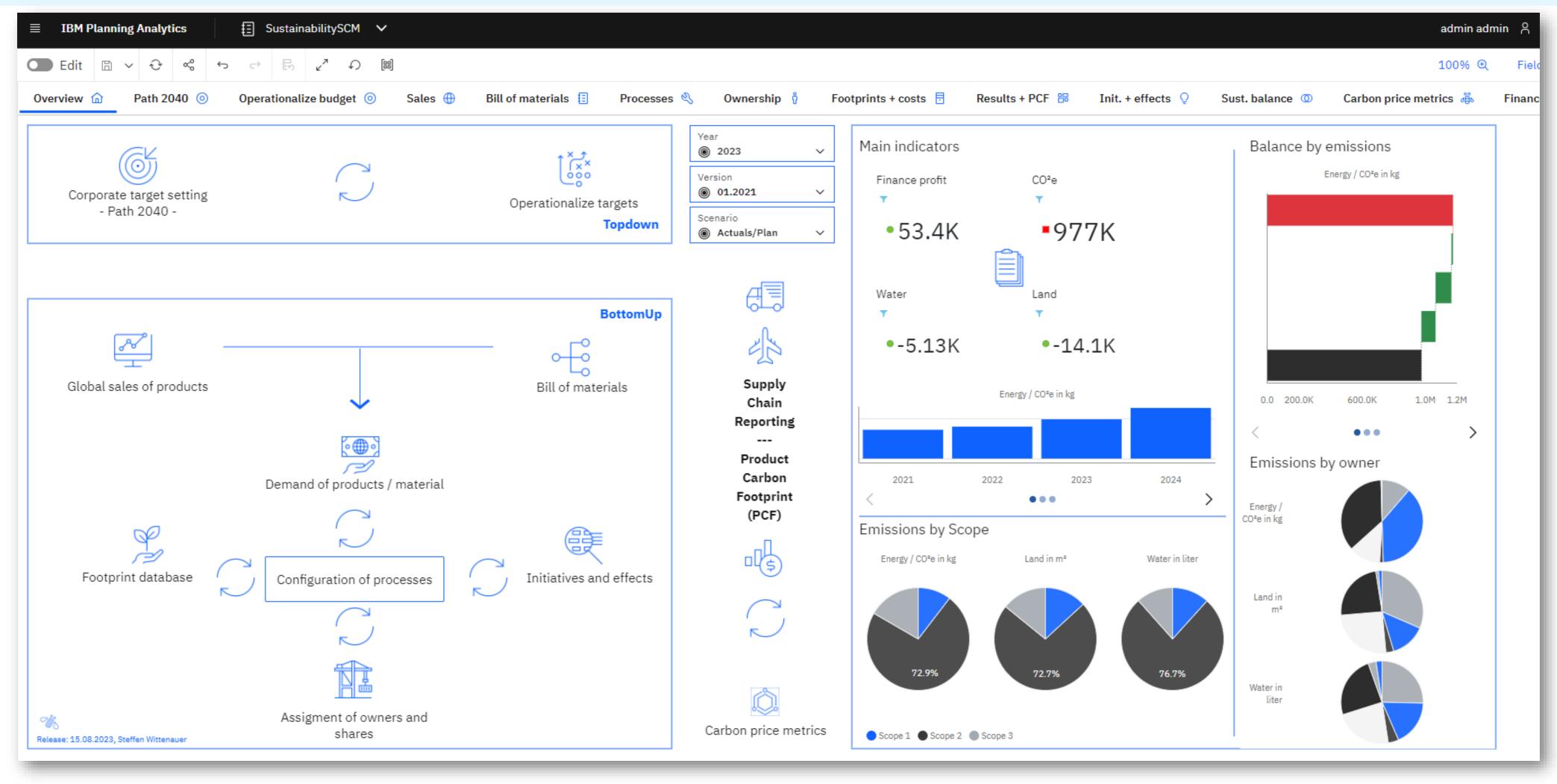
Sustainability in the Supply Chain

Plan & simulate almost unlimited parameters & impacts



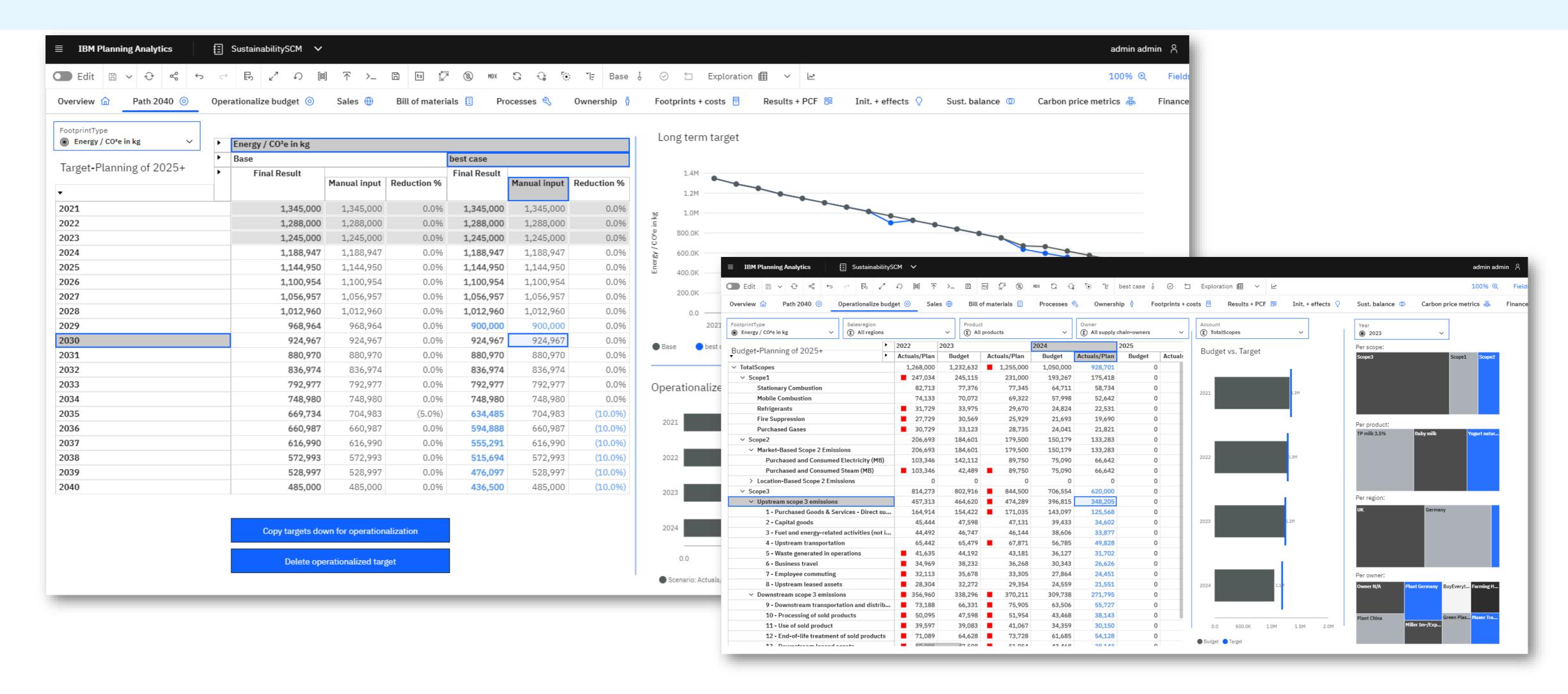
- Purpose: following the companies supply chainprocesses for reporting-, planning- or simulationpurposes
- Content: focusing on sales-/production-units with conversion into sustainability-footprints for products or materials incl., bill of materials'; assignment of internal and external ownerships and unlimited steps in the processes; reporting / planning / simulation in real-time possible
- Overview of the model: set targets, plan sales/production – calculate needed resources by BOM / processes / assignments / footprints – analyze results in different scenarios incl. PCF and C02e-compensation
- Technology: IBM Planning Analytics (core module), IBM Cloud Pak for data optional (Data Fabric / IBM Cognos Analytics / Watson Studio)

Manage all kind of KPIs or processes and simulate all kind of changes



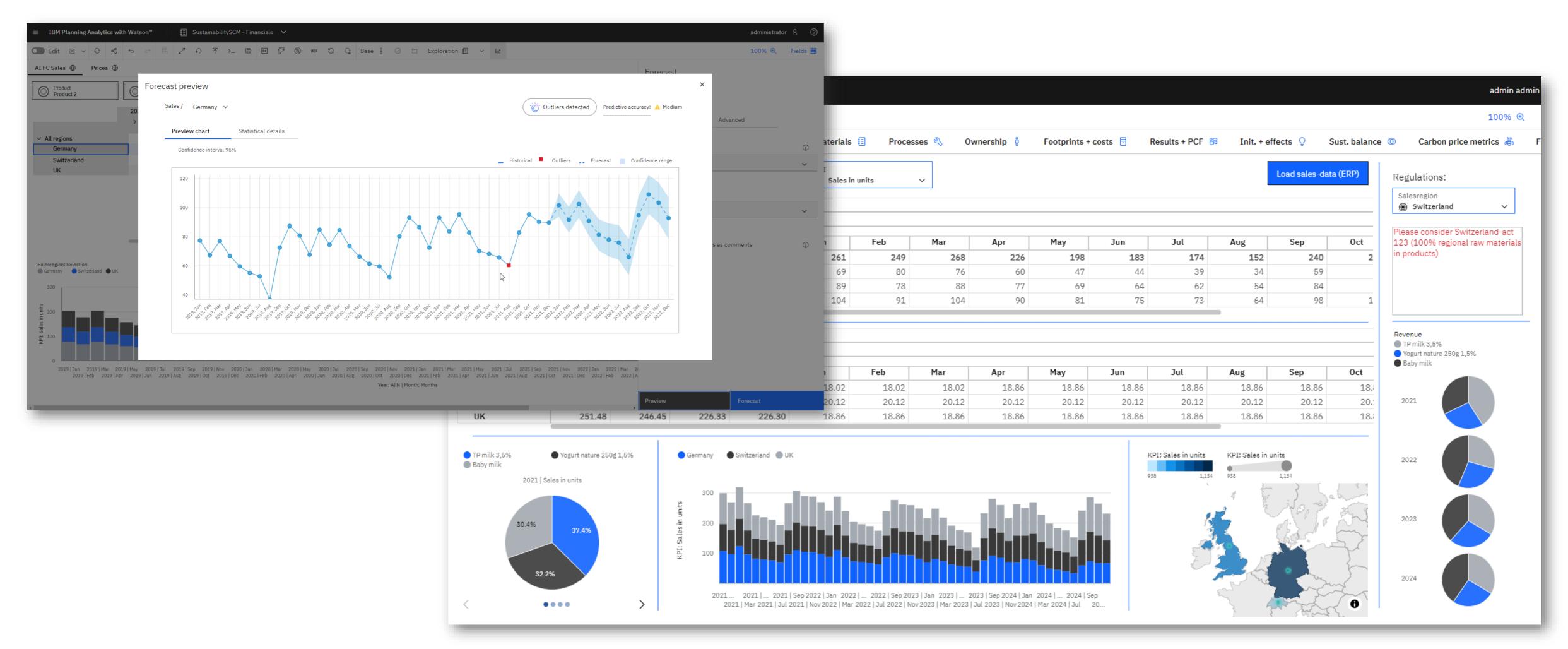
Entry screen managing all scenarios, KPIs and analytics results.

Set strategic targets and break them down for operational units in all granularity



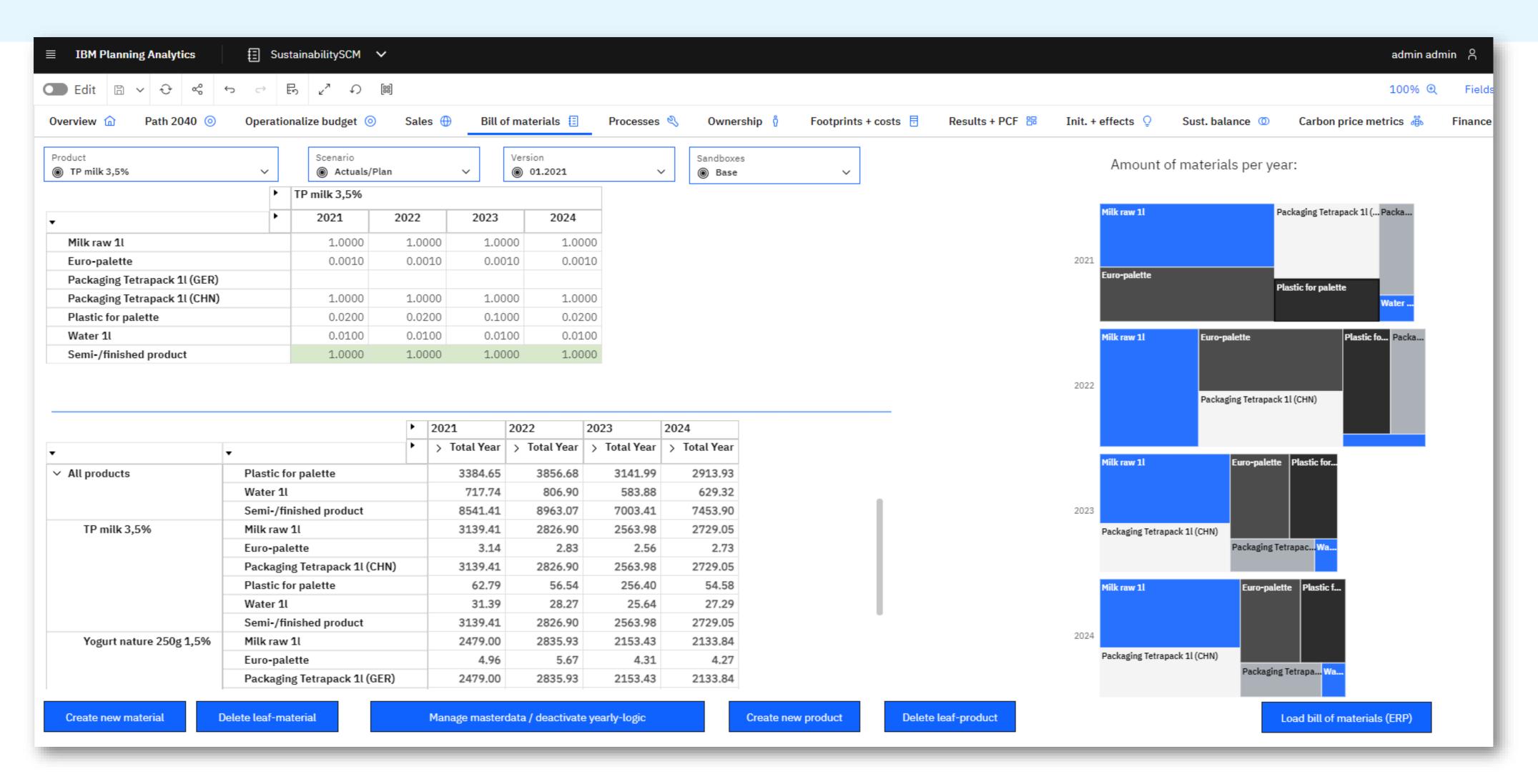
Plan absolute and/or in % the yearly overall reduction per emission-type. Then breakdown these targets to any kind of data granularity like organizations, products, supply chain owners (internal + external/suppliers)

Plan or adjust sales-data like amount of units and price if needed



End-user friendly: the included out-of-the-box AI forecast running different models in the background

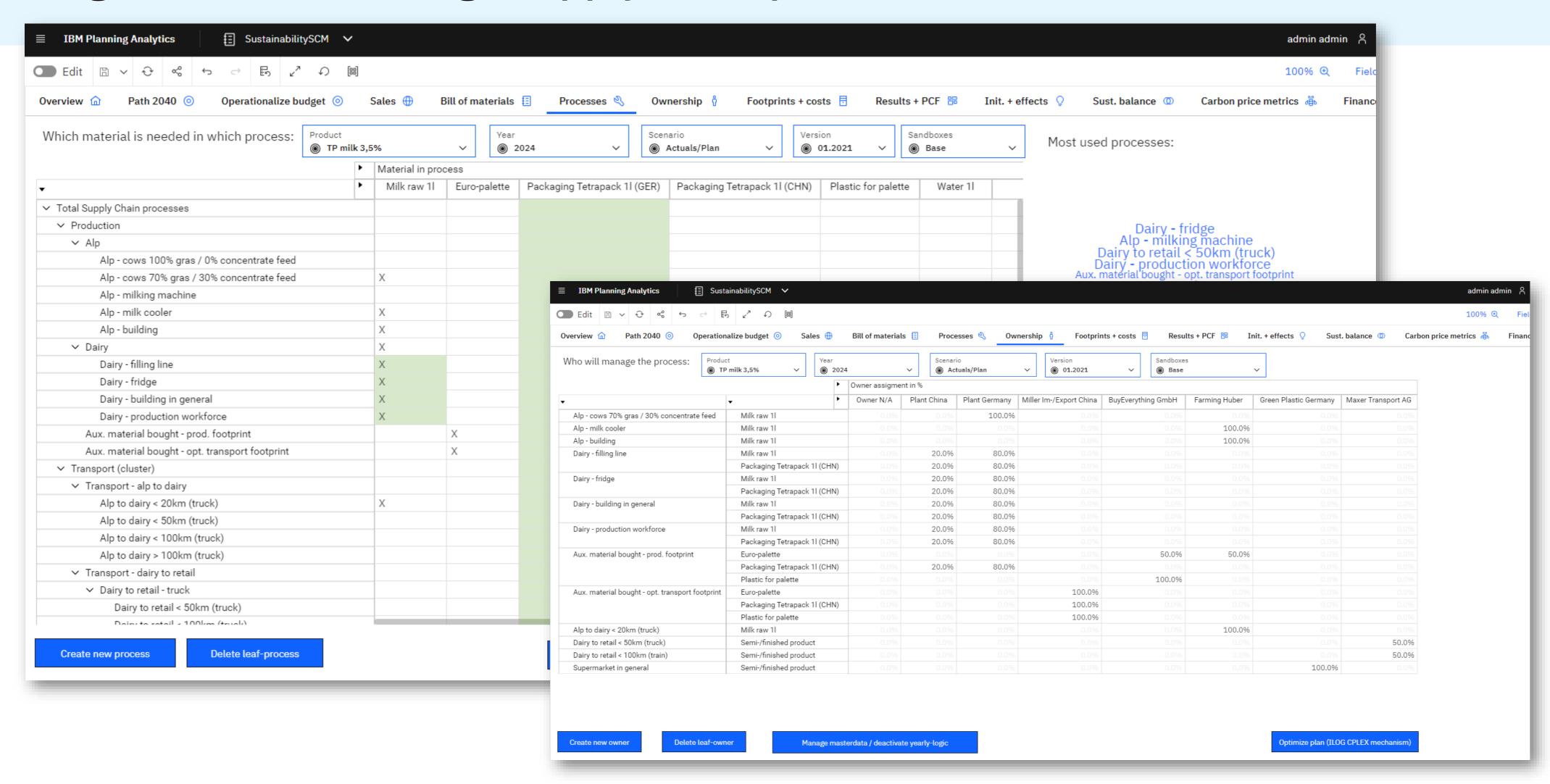
Include changes in the ,Bill of materials' to see possible impacts in next supply chain steps



Configure / load / simulate the ,Bill of materials' and see in real-time the results of needed materials

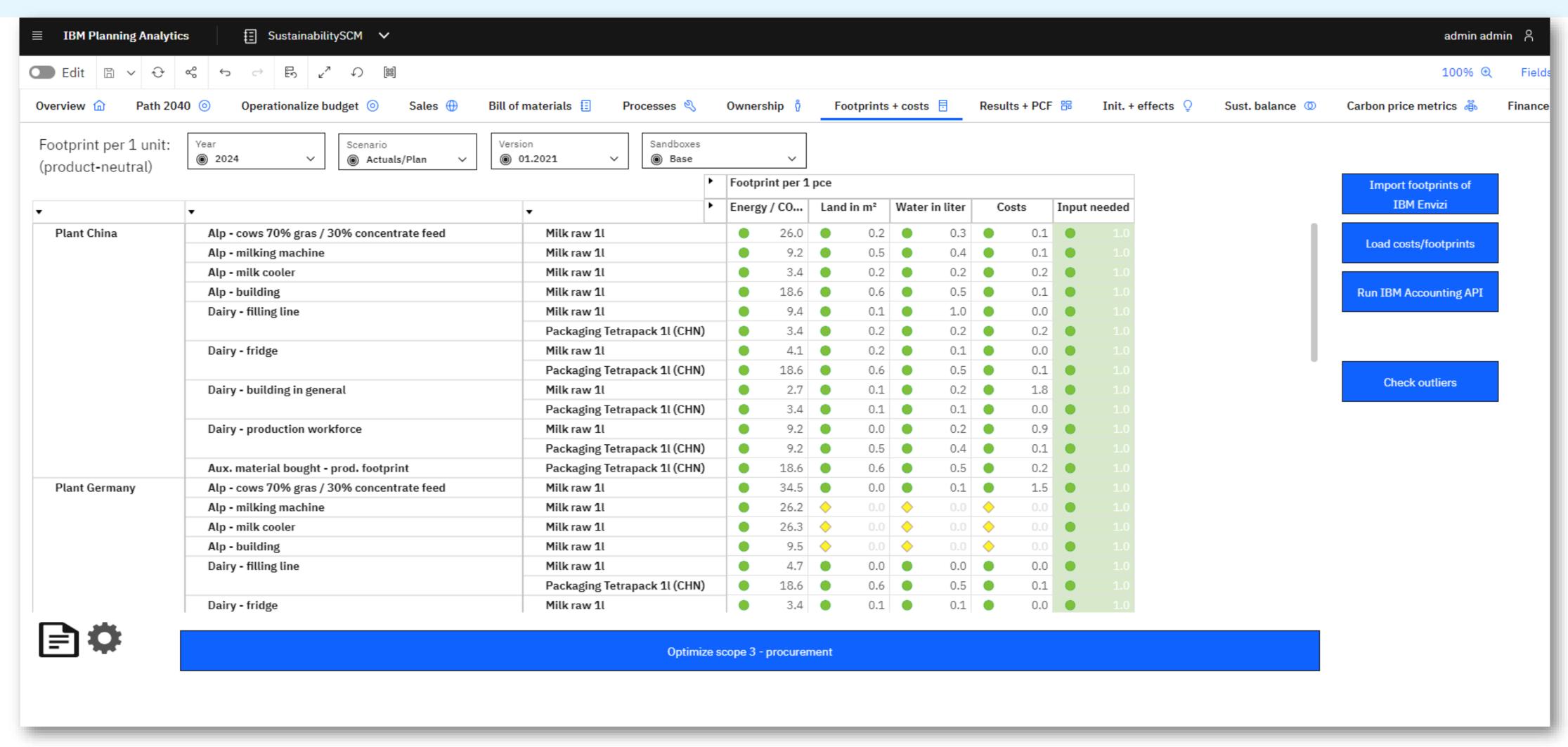
28

Configure or load or assign supply chain processes and owners



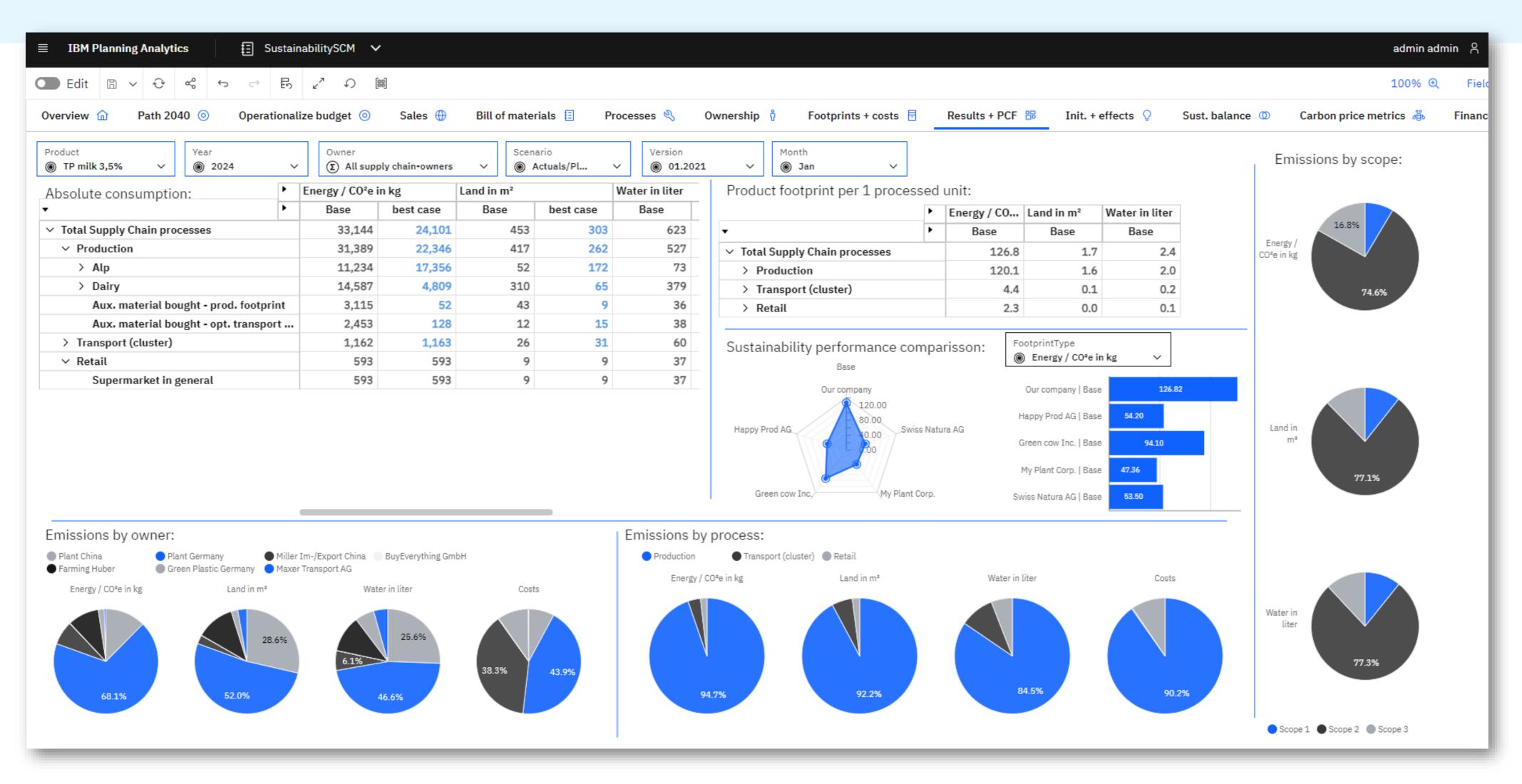
Assignments of internal or external ownerships per process and different assignments of internal / external ownership for processes

Connect / load automatically or change manually different footprints and costs



View into the footprint-database which can have a mix of loaded of manual inputted parameters

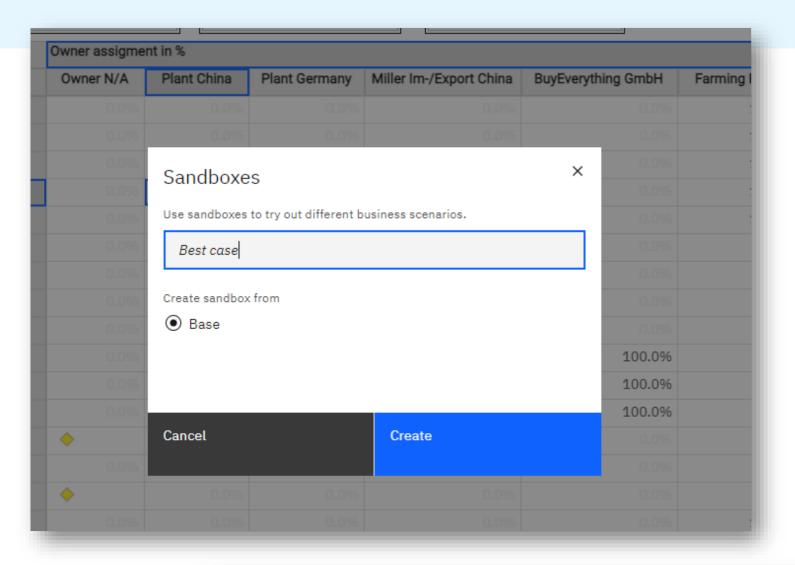
Results on all granularity through the whole supply chain incl. product carbon footprint

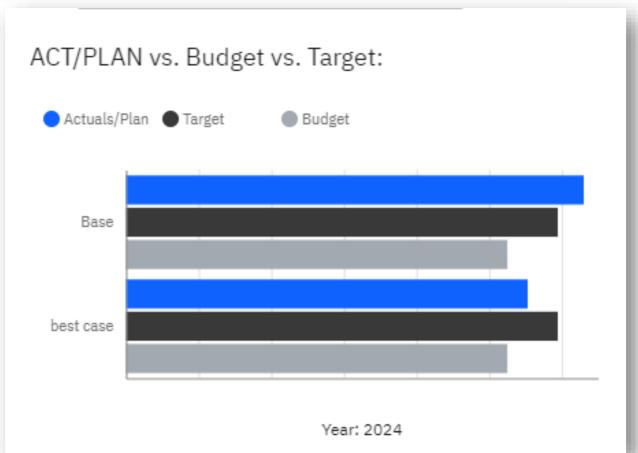


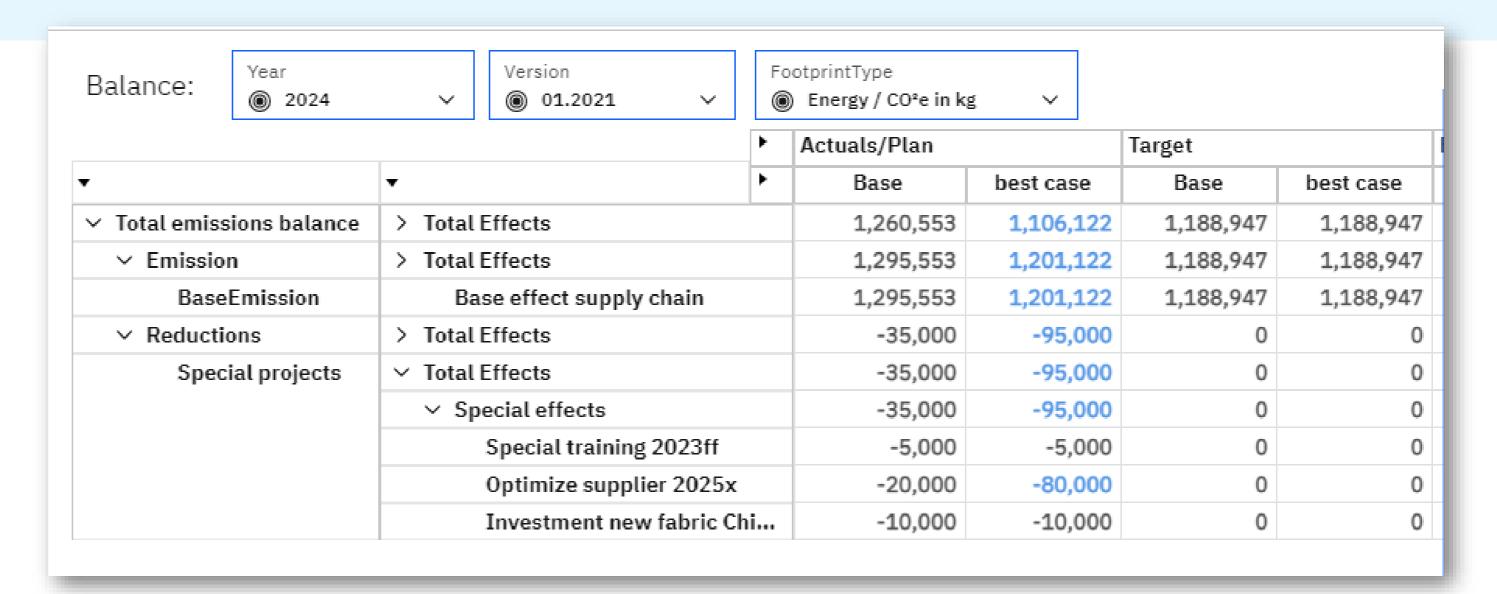
No limitation for reporting and analysis-purposes — power users can create their own views on all data-levels with nearly unlimited types of visualizations: PCF / absolute emissions / performance comparison

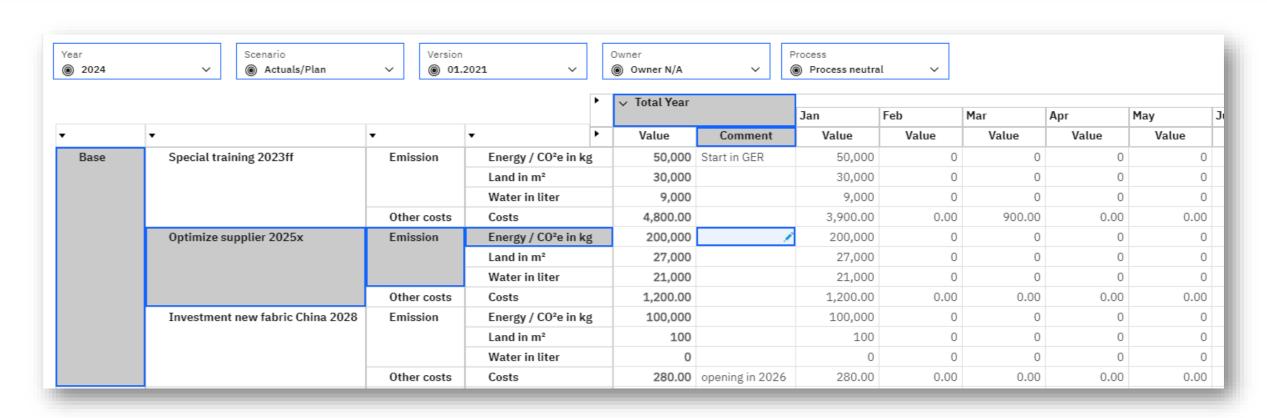
31

Create real-time-scenarios to simulate and compare special effects and assumptions



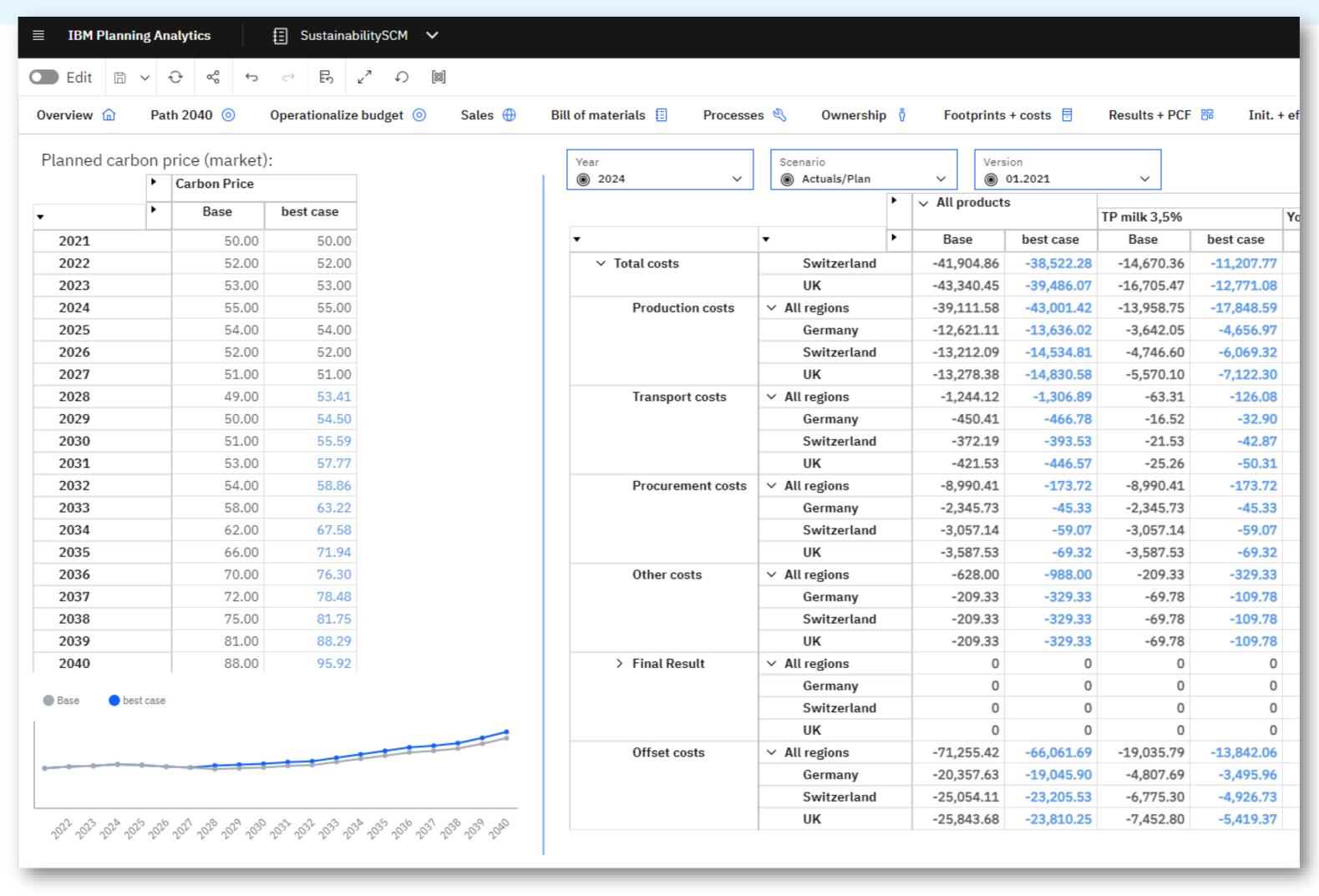






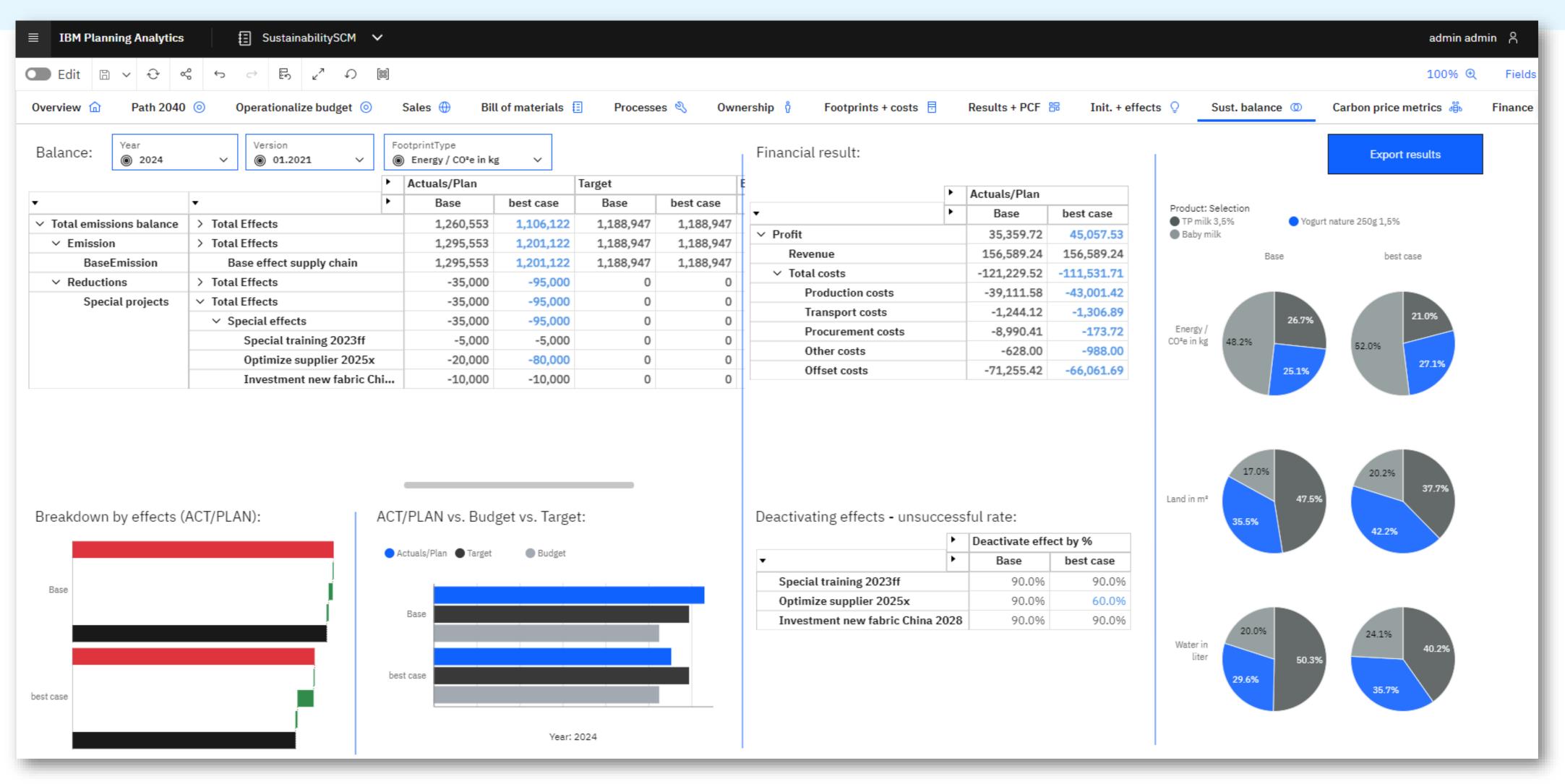
Create your own scenarios (sandboxes), special effects / initiatives, assumptions and compare their outcomes

Include a carbon pricing for remaining emissions to see impact on profit & loss



Simulate the price curve and see impact down to a product level for offset costs and changing margins

Link sustainability-results or changes to the financial perspective (P&L)



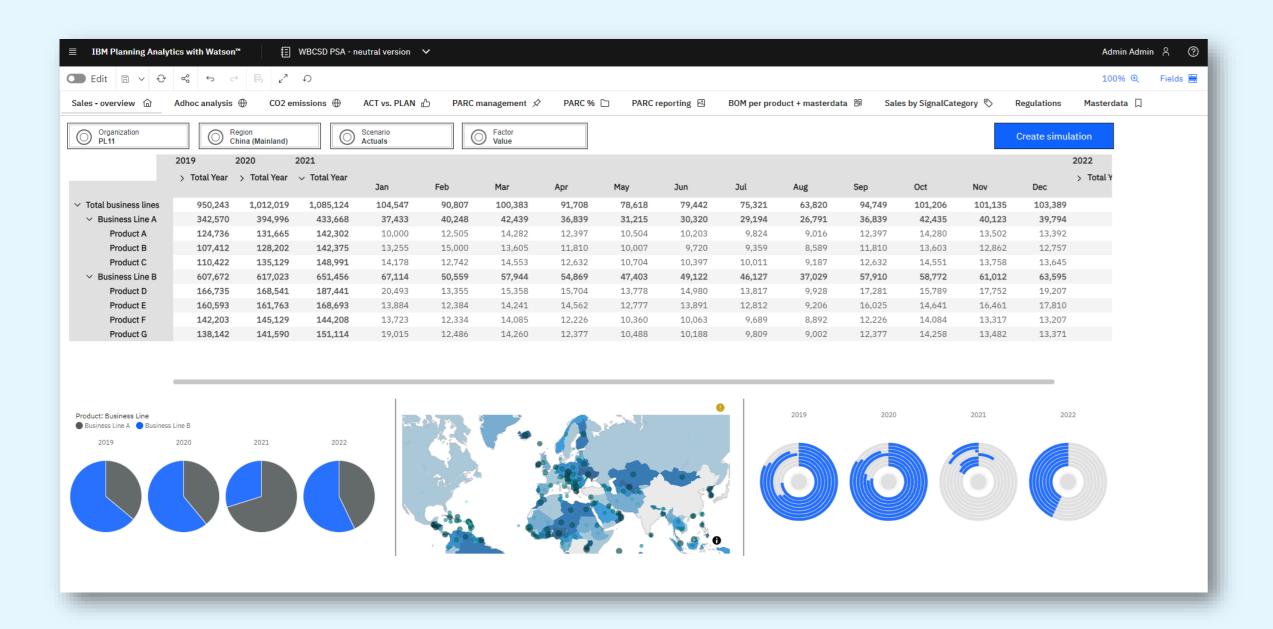
Analyze all sustainability KPIs or –scenarios and check how the financial results change if one parameter is changed

34

Accelerator:

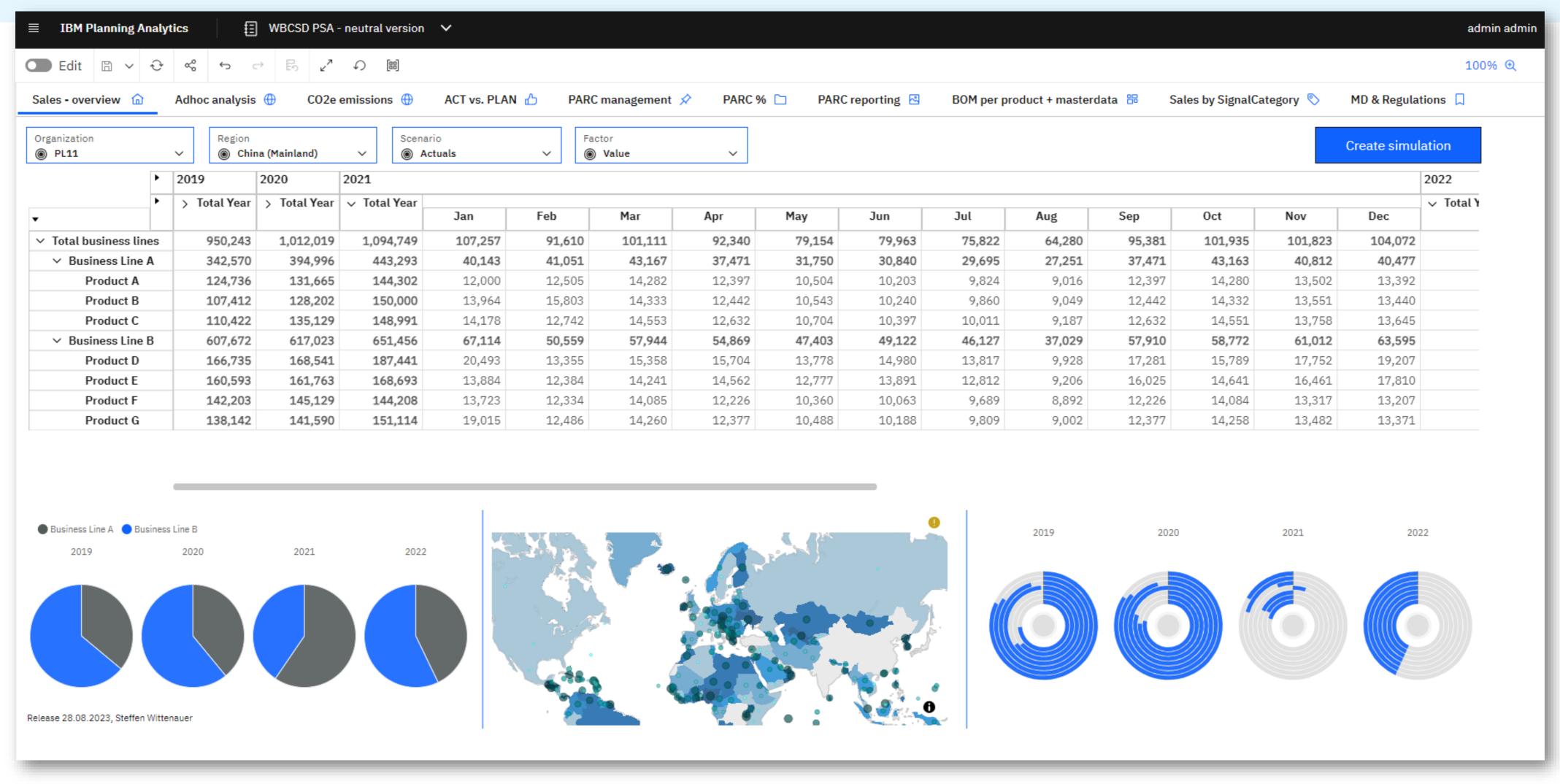
Sustainability in the chemical sector (PSA)

Portfolio Sustainability Assessments (PSA)



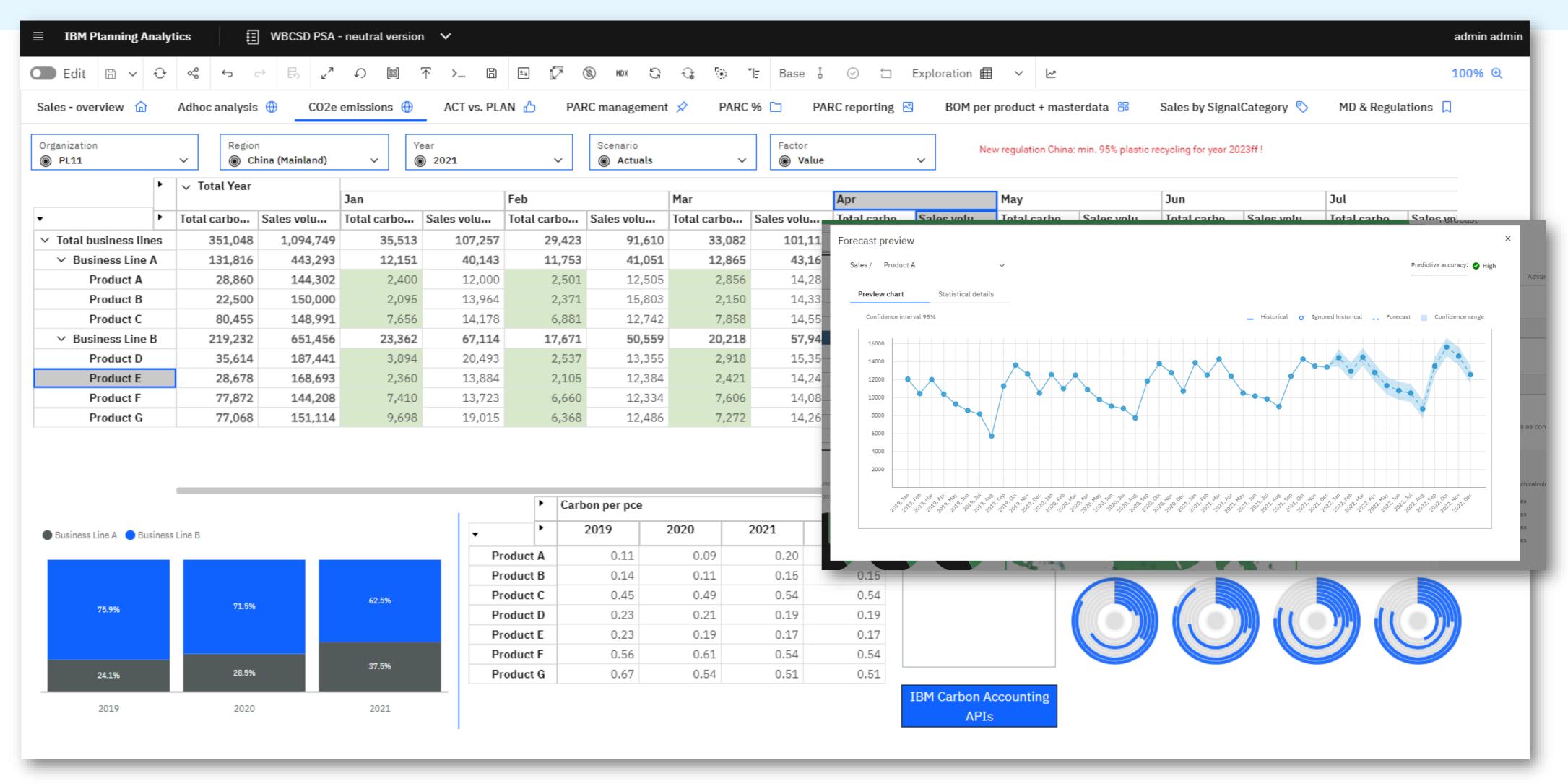
- Purpose: following WBCSD-standard for Portfolio Sustainability Assessments (PSA)
- Content: focusing on sales-/production-units with conversion into sustainability-footprints for products or materials incl., bill of materials' (PARC-and signal-category-logic); reporting / planning / simulation in real-time possible
- Data sources: master data can be manually adapted – actuals can be loaded (files, data warehouse etc.) or entered manually, footprints can be imported by other source-systems or using ,Carbon Performance Engine carbon accounting APIs'
- Technology: IBM Planning Analytics (core module),
 IBM Cloud Pak for data optional (Data Fabric / IBM Cognos Analytics / Watson Studio)

Actuals analysis for KPIs, e.g. sales or emissions



Possible landing-page for a high level-overview of KPIs

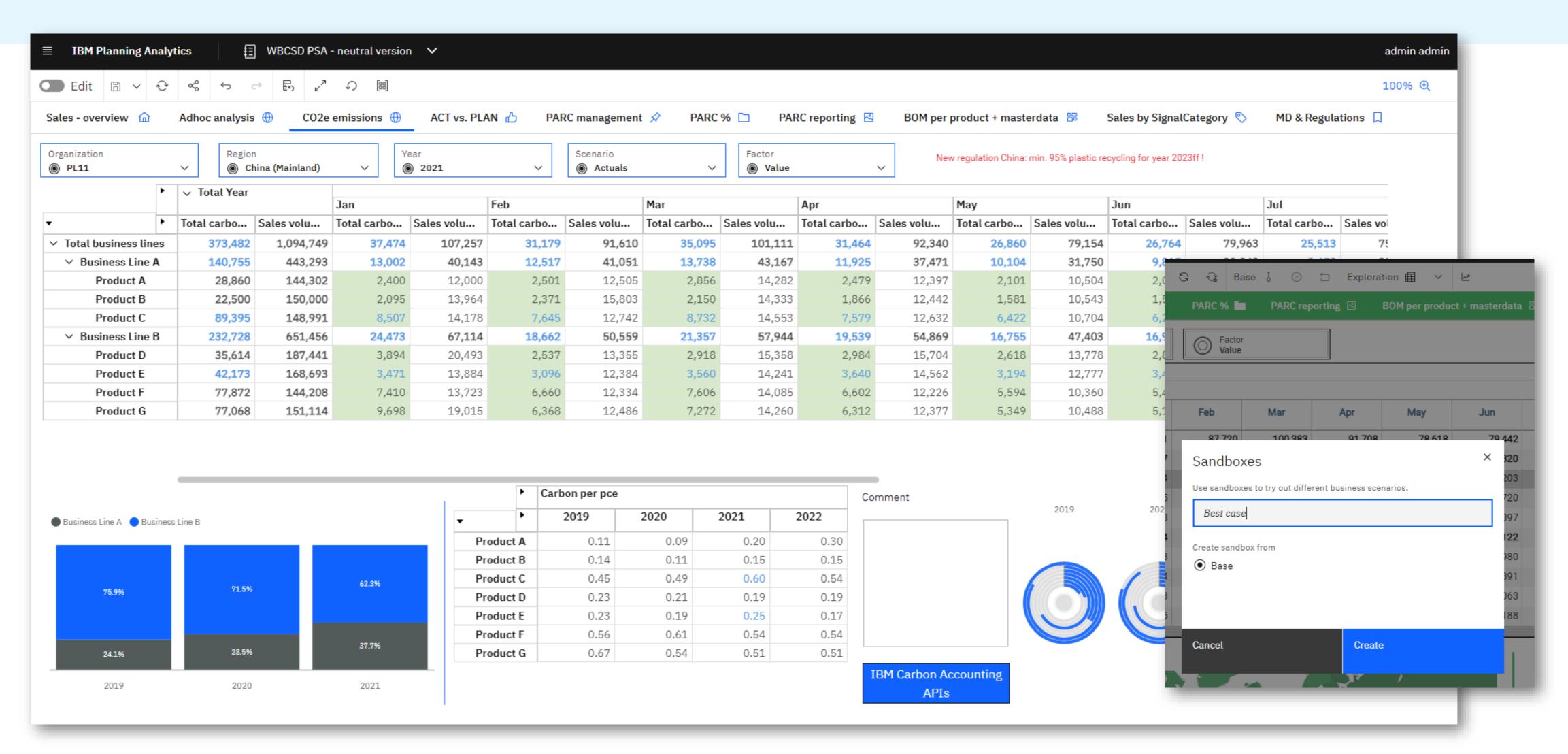
Planning / simulation incl. AI-forecast and emissions on products, sites etc.



End-user friendly: the included out-of-the-box AI Forecast running different models in the background

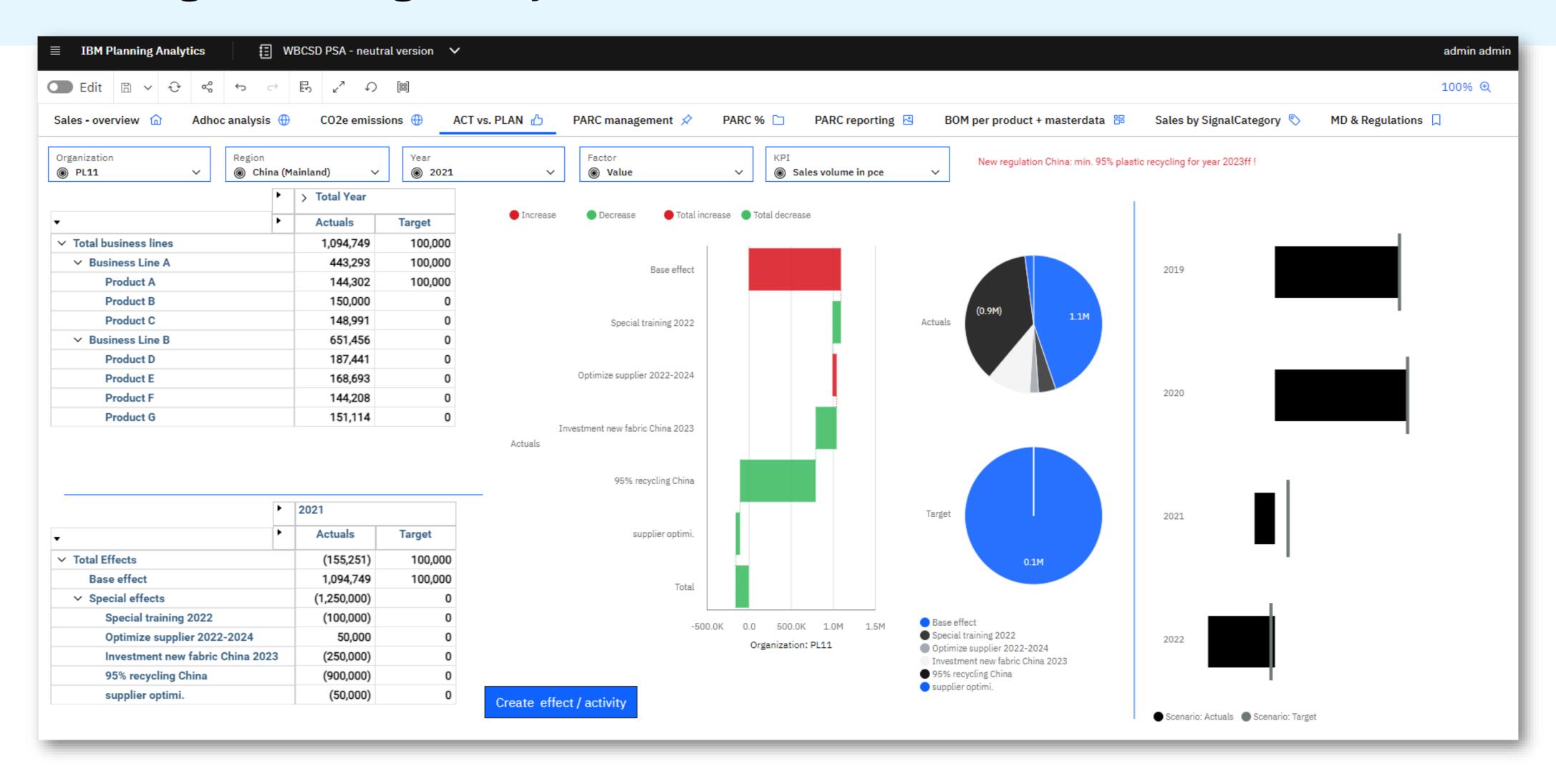
Sustainability in the chemical sector (PSA)

Creation of simulation-sandboxes and driver-based results in real-time



Initial real-time result of a simulation of CO2-emission (scenario-change is blue coloured)

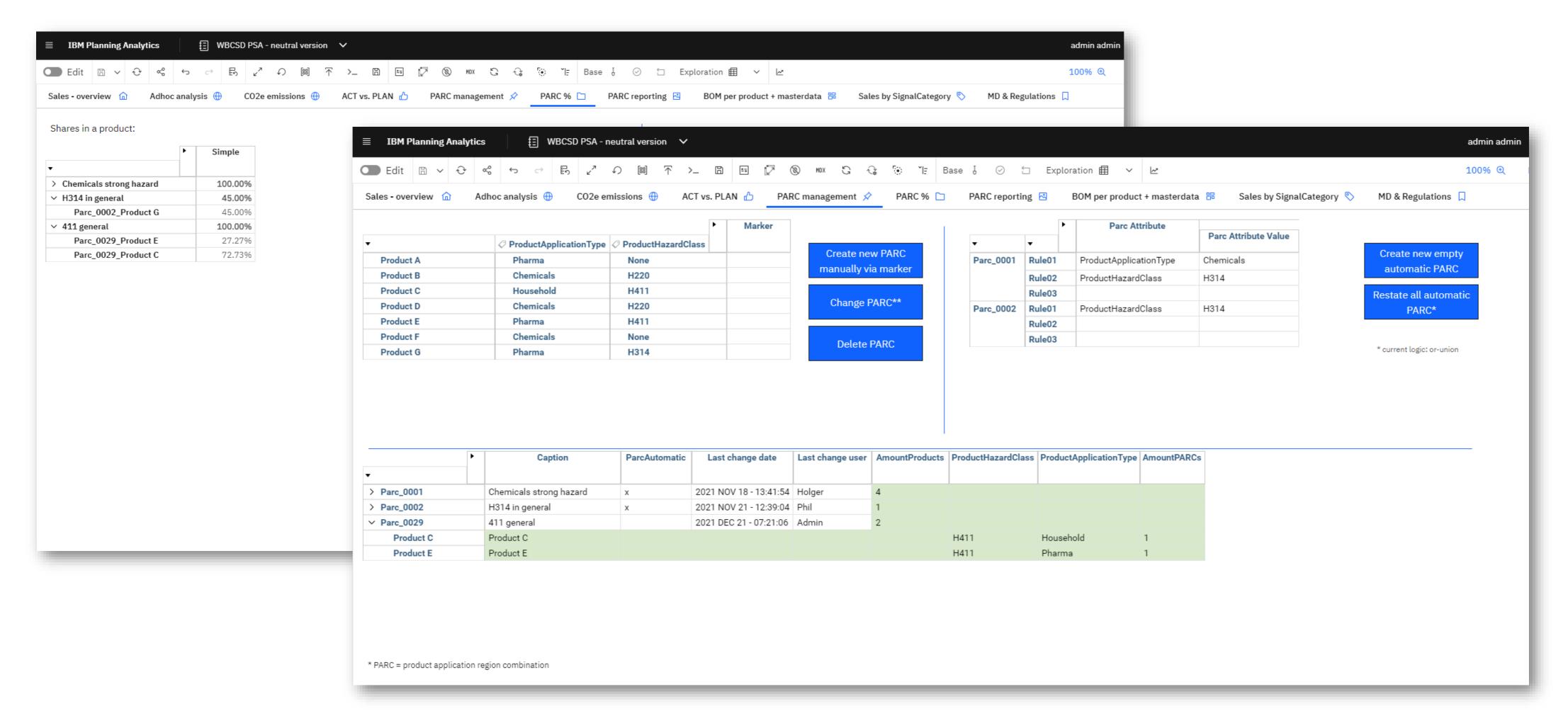
Actuals vs. targets and regulatory information



Planning of targets and special effects / initiatives. Display of regulatory information possible

Sustainability in the chemical sector (PSA)

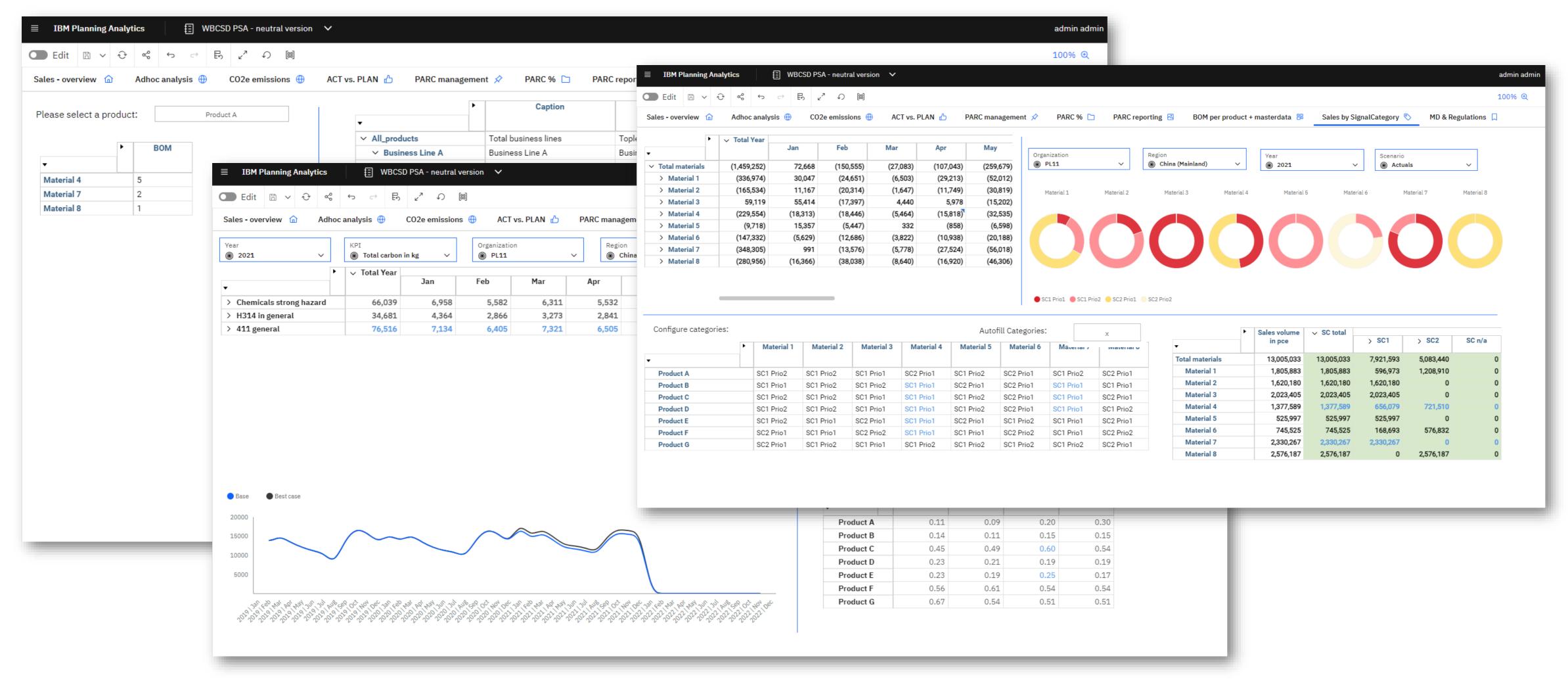
Different options to manage the PARC-aggregation-categories



Automated management of sustainable categories and splitting units between different categories

Sustainability in the chemical sector (PSA)

Analysis, reporting and simulation of material-categories and PARCs



Possible reports showing all KPIs in PARC-categories — having in parallel still the option to simulate parameters, bill of materials and rules for material-impacts

Material-impacts

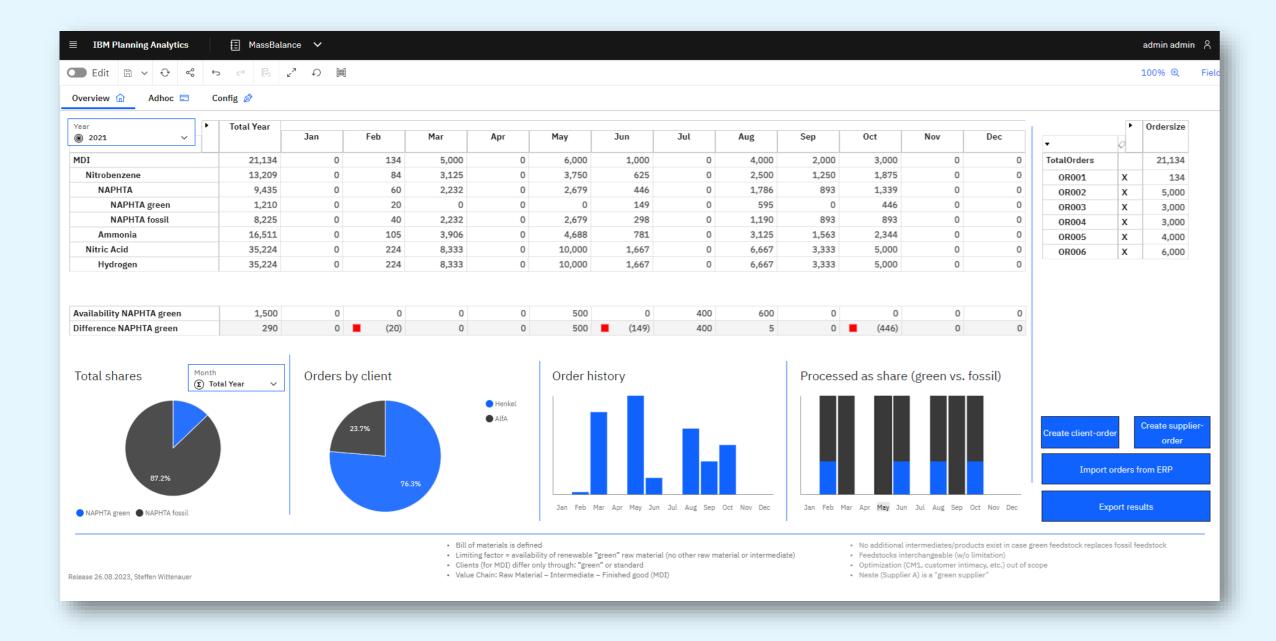
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41

Accelerator:

Sustainability in the chemical sector

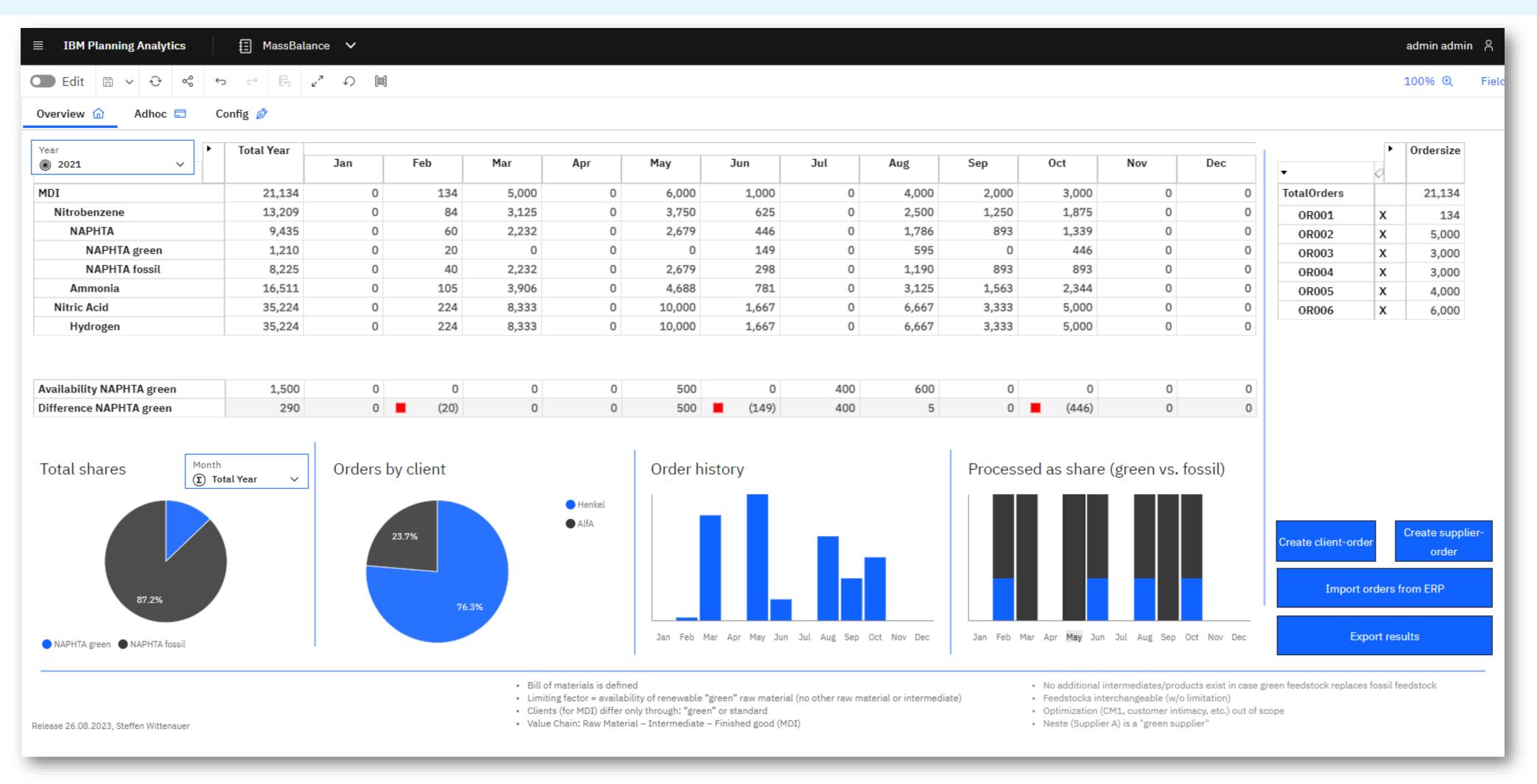
Mass Balancing



- Purpose: report, forecast or simulate a chemical production process
- Content: it is about mixing fossil and recycled or renewable materials in existing systems and processes while keeping track of their quantities and allocating them to specific products, orders or time-frames.
- Data sources: master data can be manually adapted – actuals can be loaded (files, data warehouse etc.) or entered manually, footprints can be imported by other source-systems
- Technology: IBM Planning Analytics

Sustainability in the chemical sector (Mass Balancing)

Manage your green-products-share based on client-orders

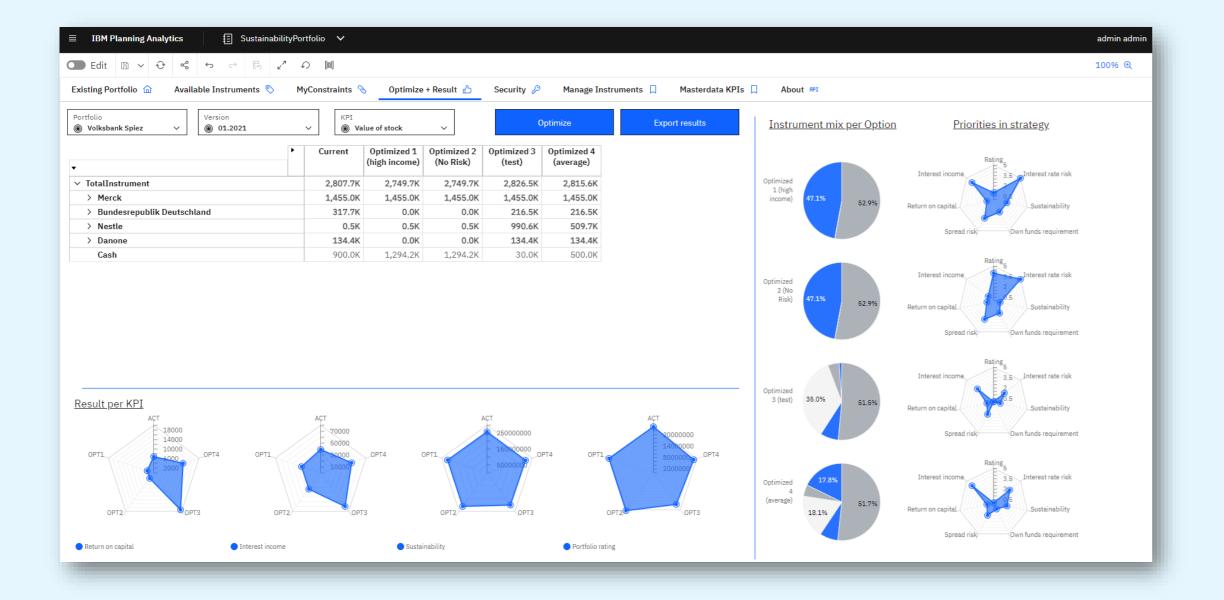


Report, track or simulate on a granular or aggregated view your production incl. BOM, orders (client / suppliers) and raw-material-stock

Accelerator:

Sustainability vs. Profitability – optimize it

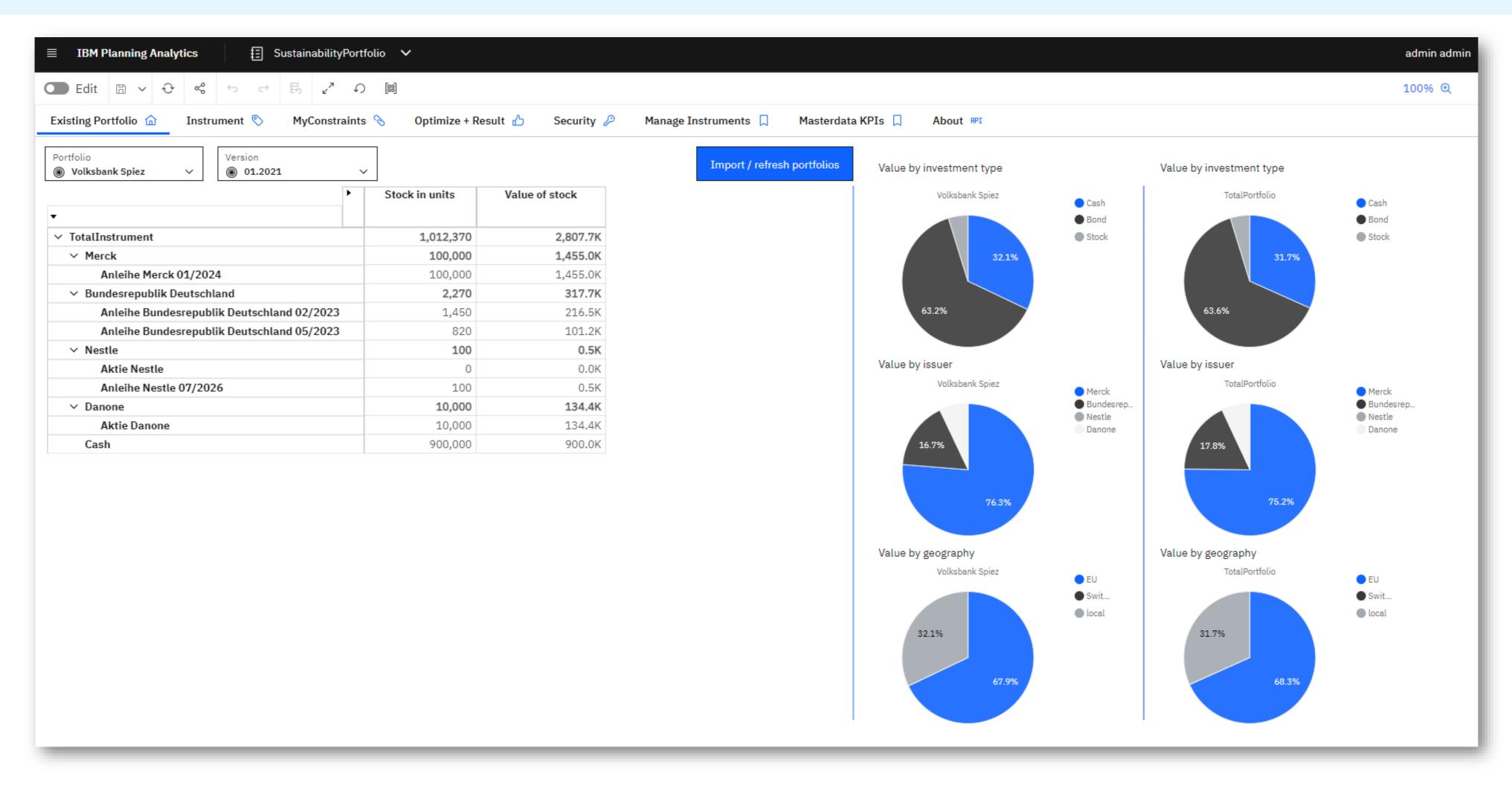
Green portfolio



- Purpose: optimize an existing asset-portfolio for a mix of different strategies. Model can also be used for budgeting investments for internal projects etc.
- Content: based on classical KPIs like risk, profit or duration, an existing portfolio can be enriched with sustainability KPIs like an ESG-asset-scoring to automatically calculate different comparable investment-strategies incl. sustainability
- The model can be extended with other businessconstraints like minimum/maximum investment per asset or issuer or other investment-related assetparameters
- Technology: IBM Planning Analytics, ILOG CPLEX
 (as addit. optimization-component for sustainability vs. profitability)

Sustainability vs. Profitability – optimize it (Green portfolio)

Overview of the current portfolio

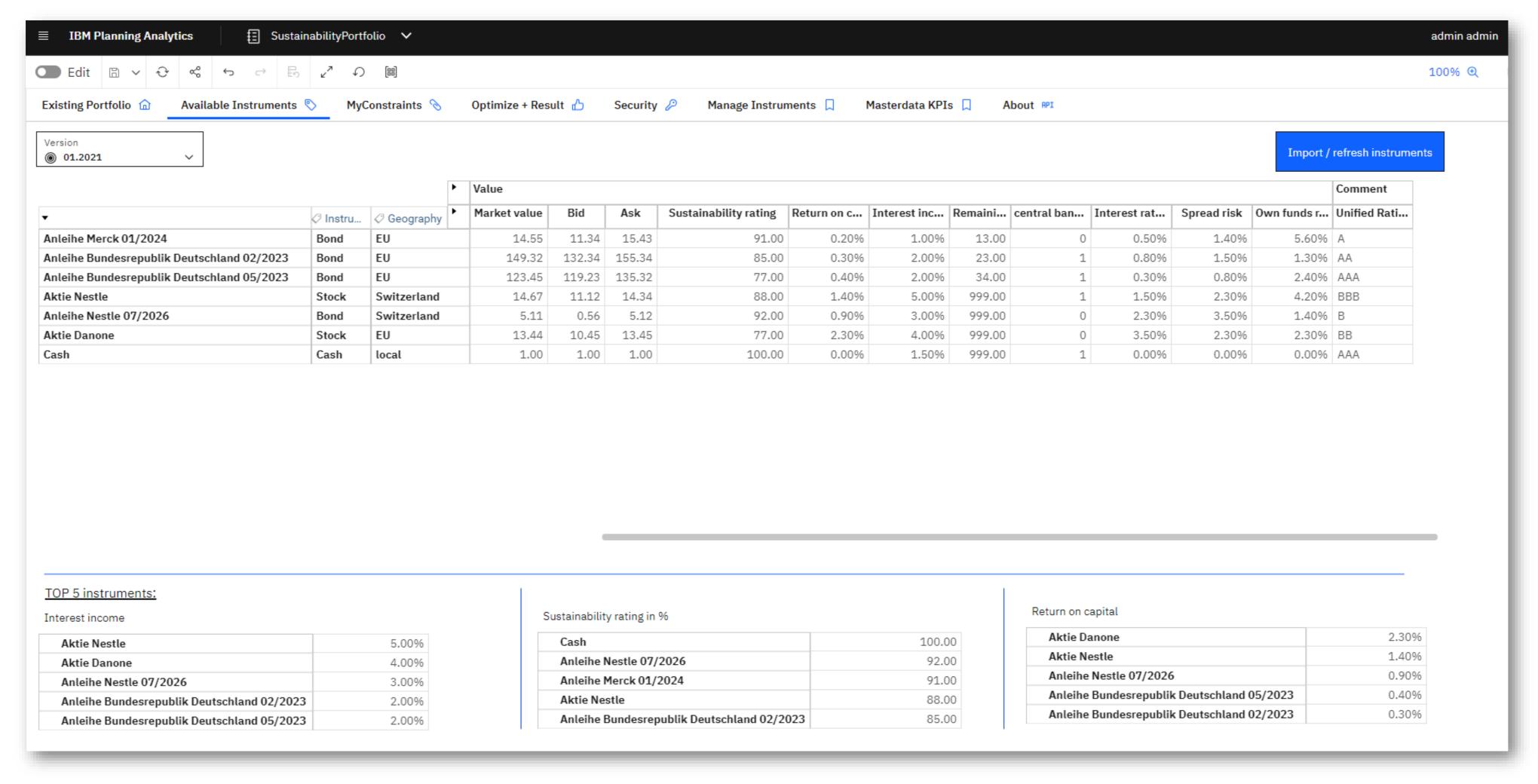


Analysis per different KPIs or attributes of the current portfolio

45

Sustainability vs. Profitability – optimize it (Green portfolio)

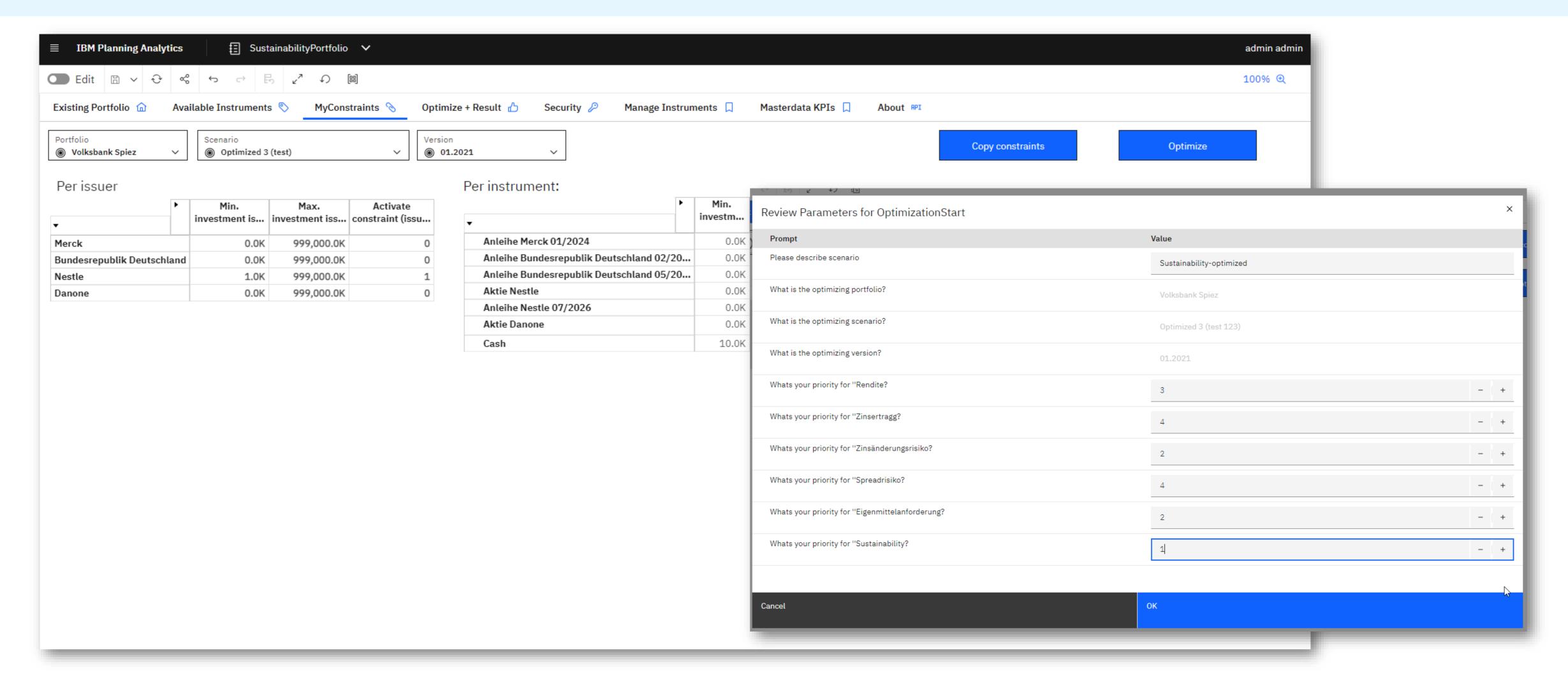
Overview of possible instruments and their KPIs



List-overview with all other possible instruments and their KPIs

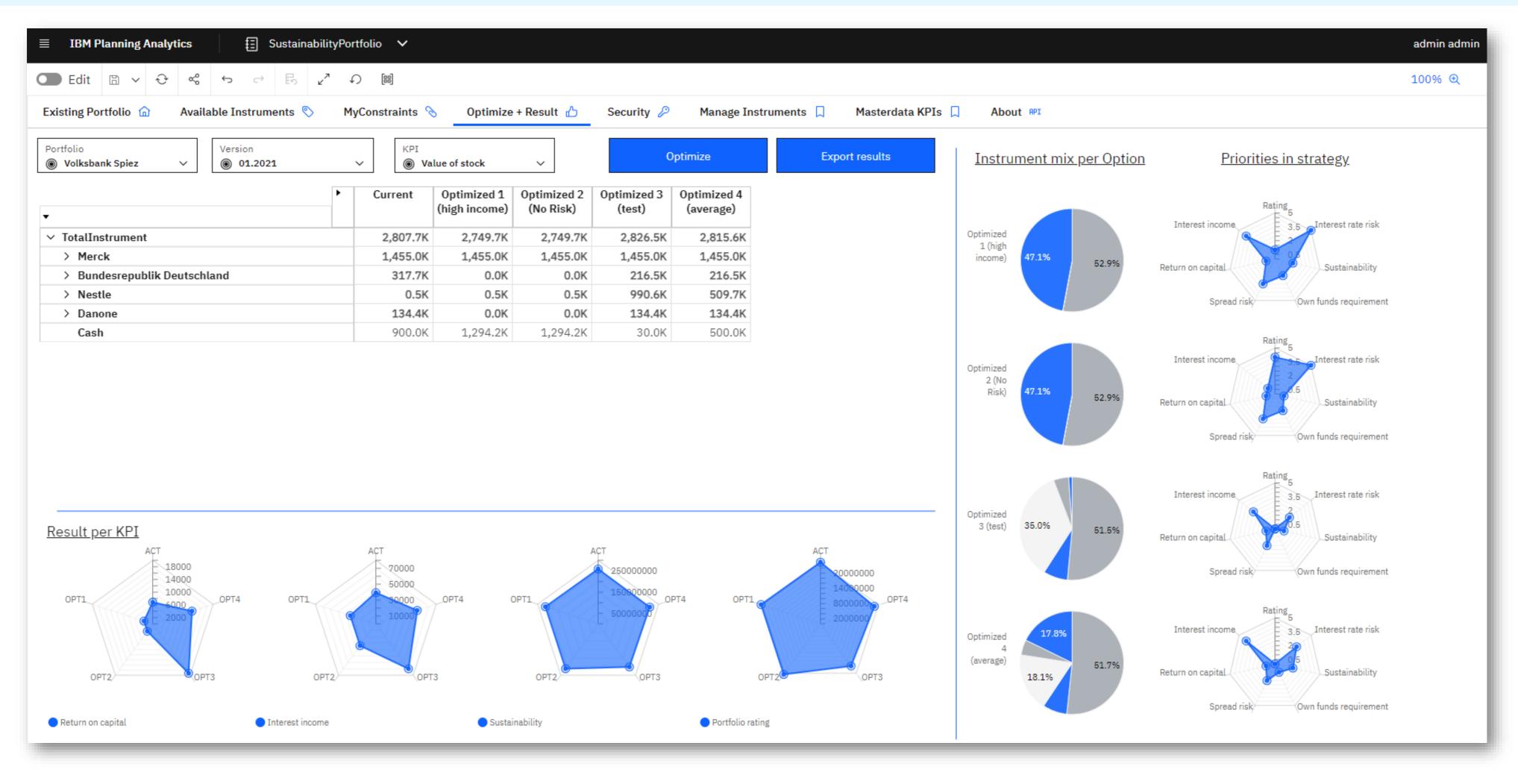
Sustainability vs. Profitability – optimize it (Green portfolio)

Define constraints of possible scenarios



Input constraints like minimum or maximum values for issuers, geography or instrument-types and start prioritized optimization

Compare scenarios in their results of profitability and sustainability

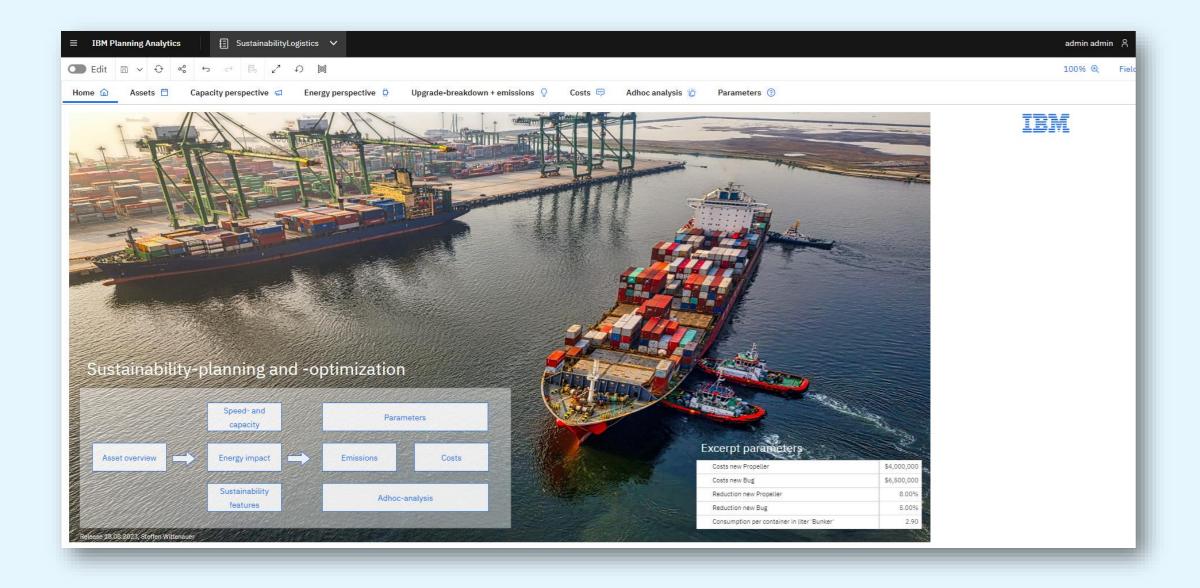


Overview and analysis of the scenarios to decide for the future strategy

Accelerator:

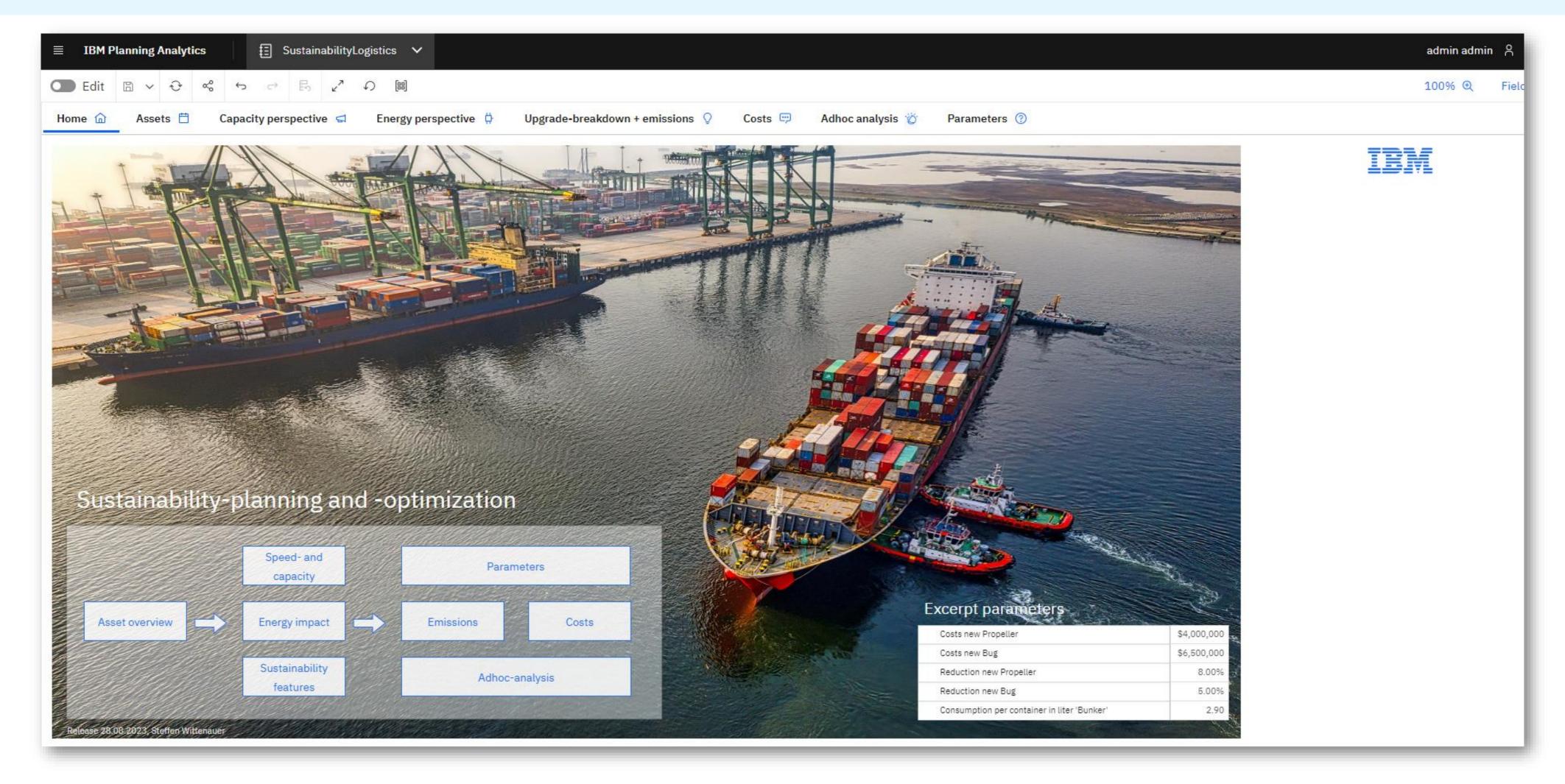
Sustainability asset upgrades

Strategic investments in your assets



- Purpose: simulate and compare from a strategic perspective different sustainability options for your assets. Example logistics: like biofuel, speed-reduction or vehicle-upgrades/addons. Can in general be used for all assets like logistics (ships, planes, fleet), production (production lines) or buildings.
- Content: based on inputs per asset or asset-class, the model calculates you in different scenarios the emissions- and cost-outcome based on different assumptions incl. compensation-costs CO2e.
- Data sources: all data can be manually adapted or automatically loaded. Adjusted data and other data sources are auditable.
- Technology: IBM Planning Analytics

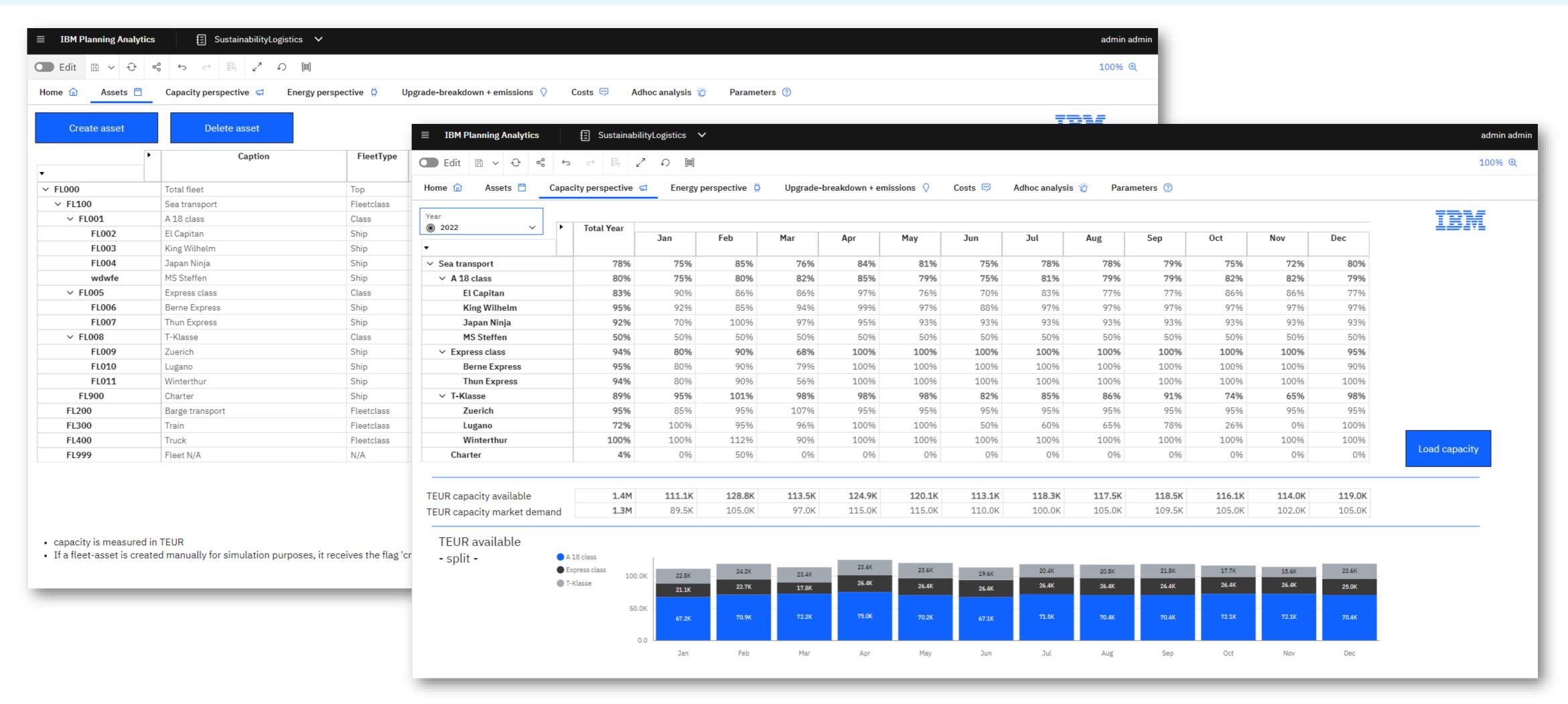
Landing page logistics model



Entry-page with navigation and some high-level-parameters like onetime-cost for upgrades and effects

Sustainability asset upgrades

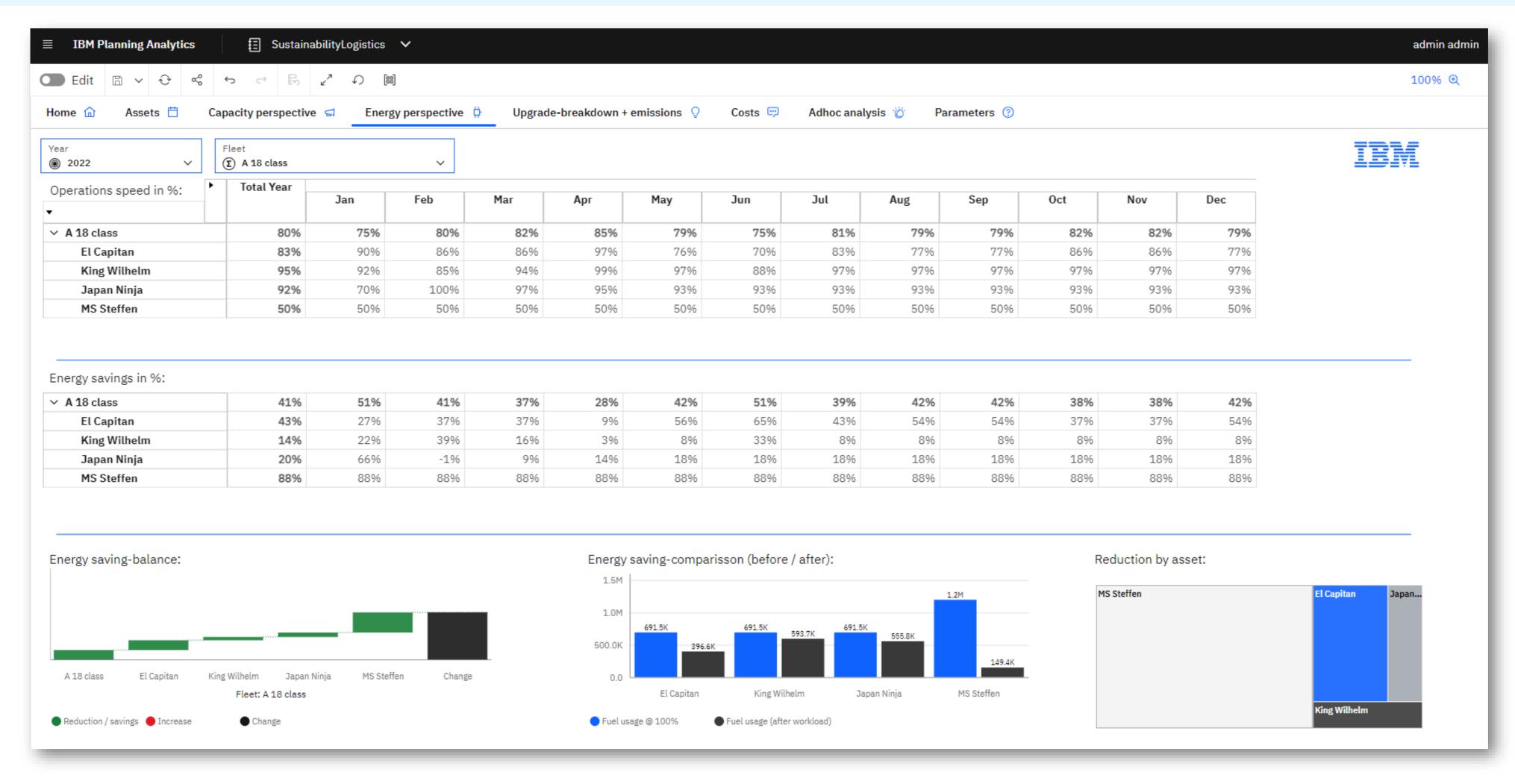
Speed-reduction simulation incl. capacity



Overview/management of asset-master data (fleet, sites etc.) and simulation of speed-impact on energy-savings and capacity-change

51

Check direct energy-savings

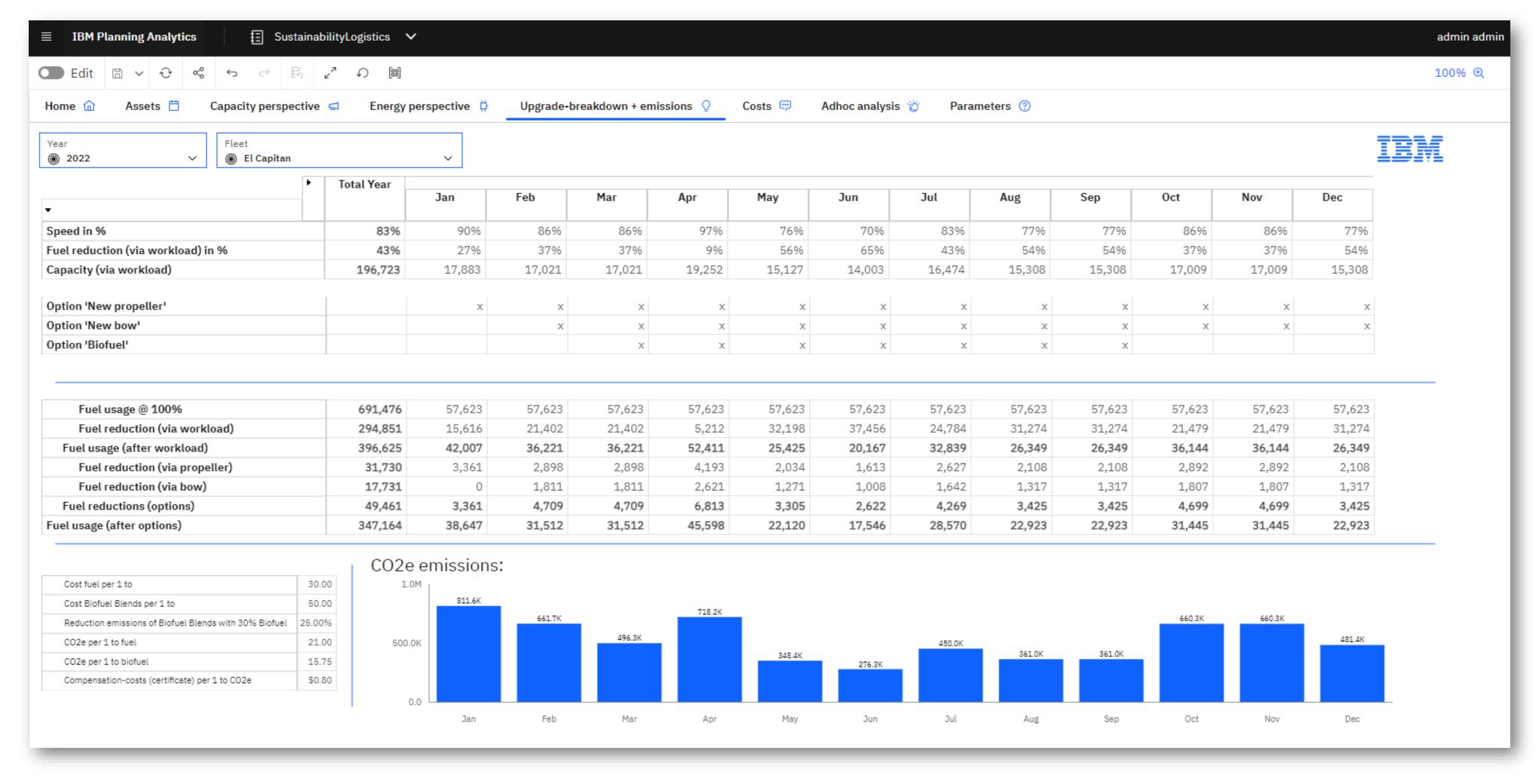


Simulate by activation of ,asset-upgrades' the energy-savings

52

Sustainability asset upgrades

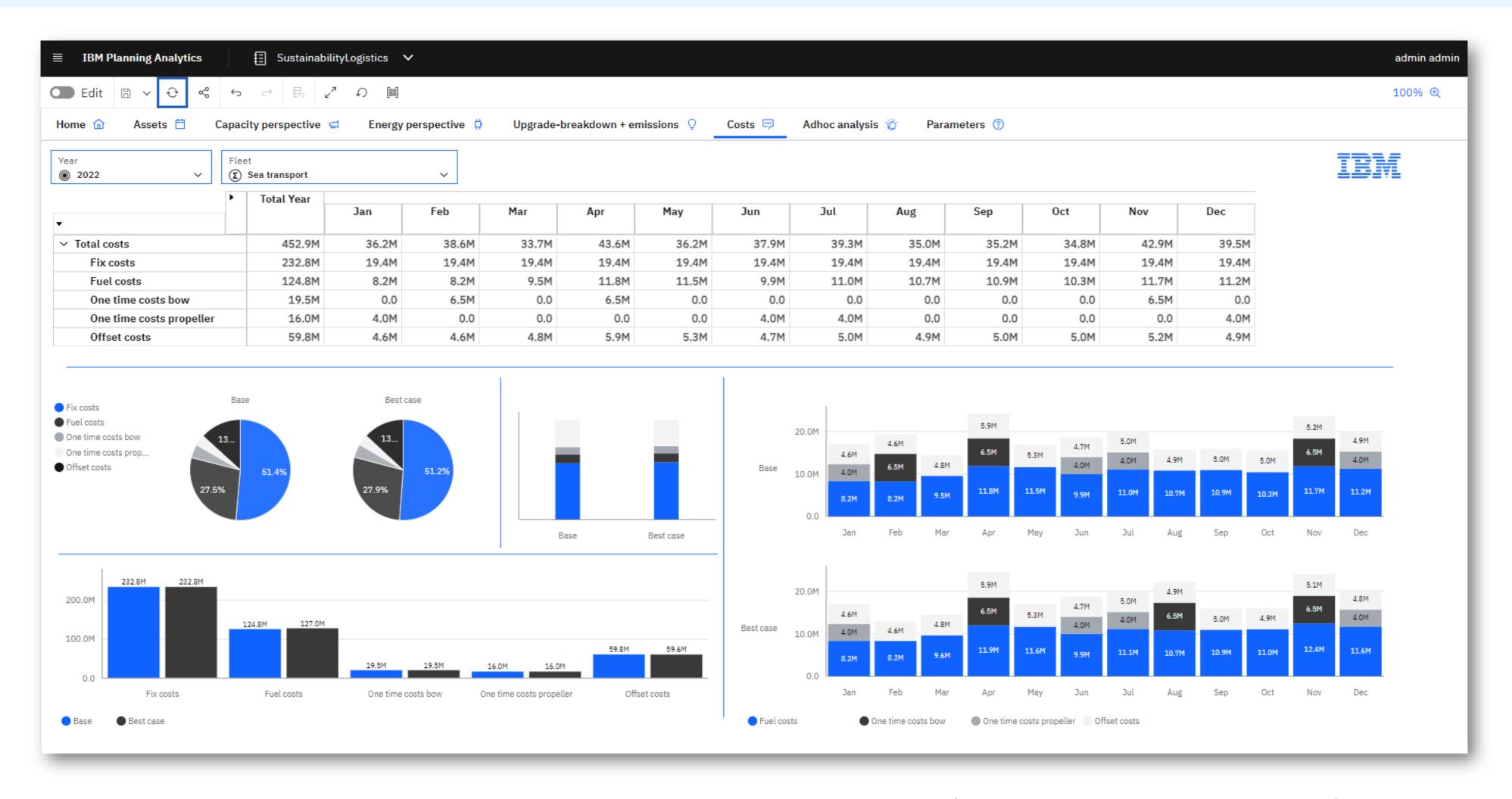
Upgrade-simulation and impact on energy-reduction and CO2e



Simulate by activation of ,asset-upgrades' the energy-savings and remaining CO2e

53

Results by emissions and costs

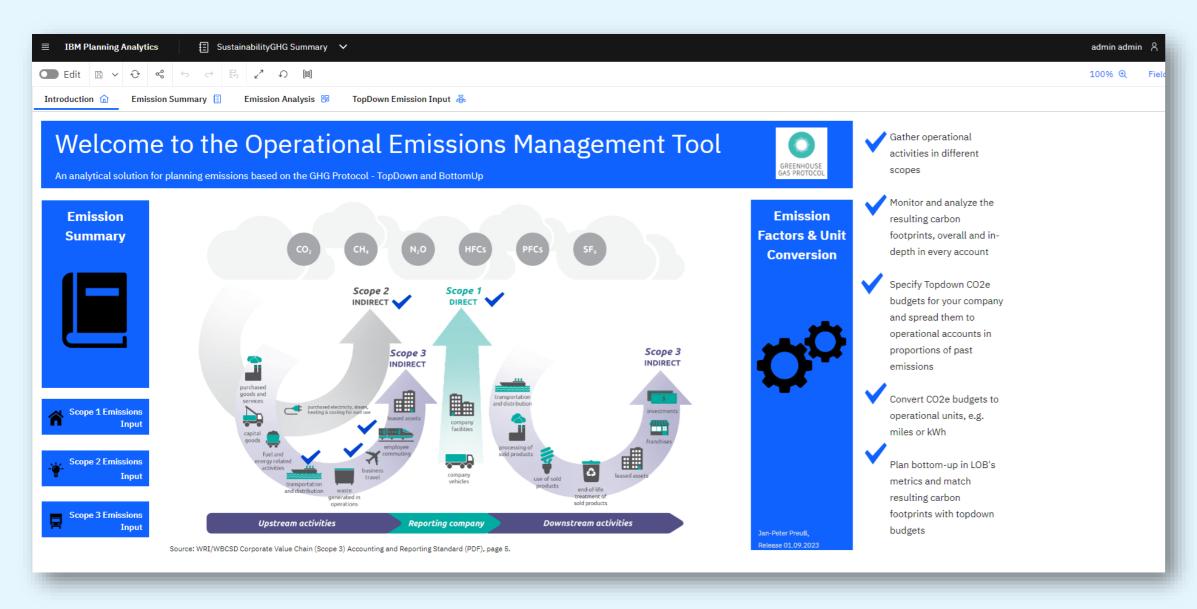


Final comparable results of CO2e-emissions incl. compensation- and costs-perspectives (one-time and flexible/fix costs) in different scenarios

Accelerator:

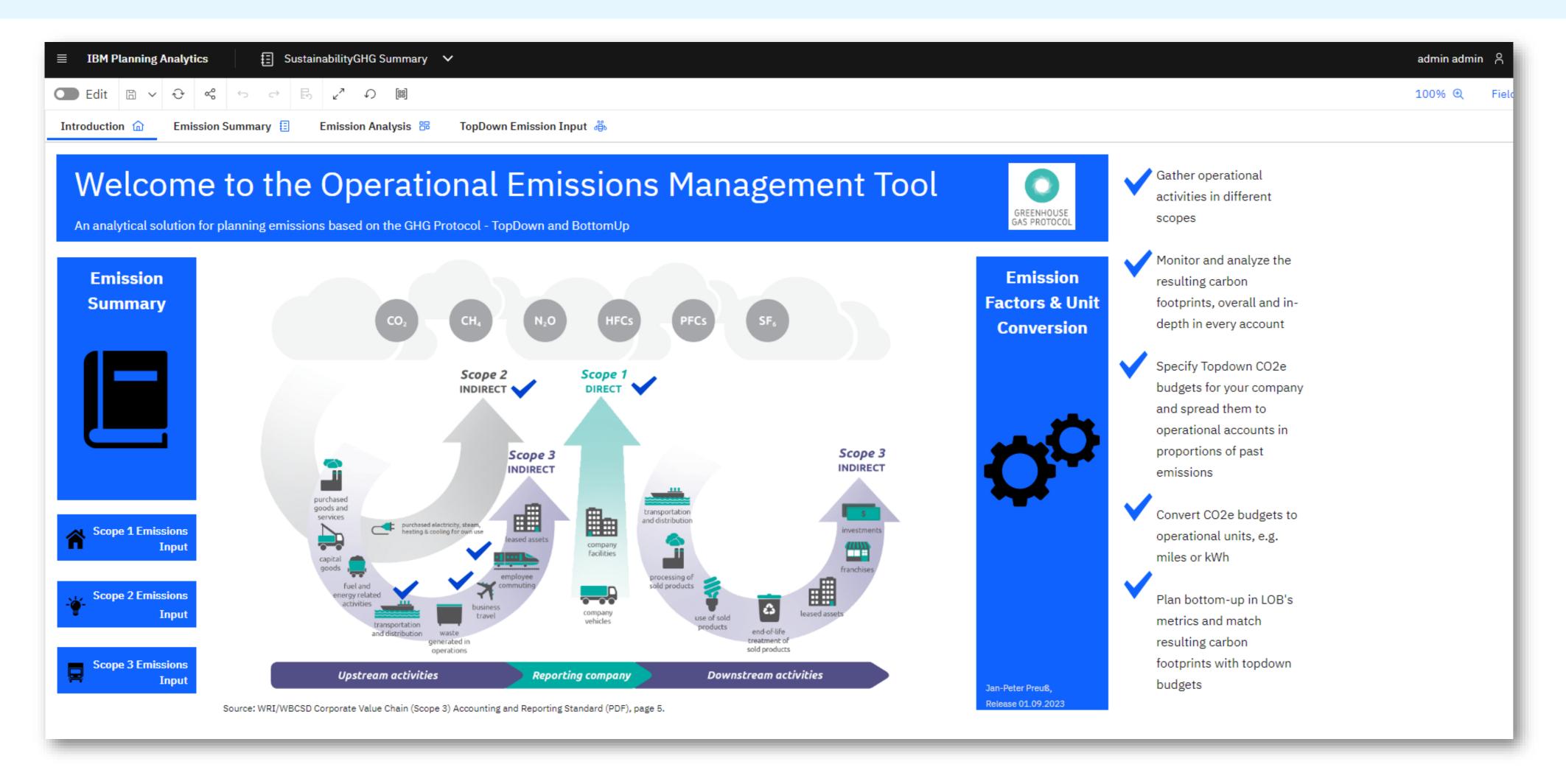
Operational Emissions Management Tool (GHG)

Breakdown and operationalize CO2e budgets



- Purpose: report, plan or breakdown targets in all directions or granularity of your company
- Monitor and analyze carbon footprints, overall and in-depth in every scope account
- Specify top down CO2e budgets for your company and spread them to operational accounts in proportions of past emissions
- Convert CO2e budgets to operational units, e.g. miles or kWh
- Plan bottom-up in LOB's metrics and match resulting carbon footprints with top down budgets
- Technology: IBM Planning Analytics

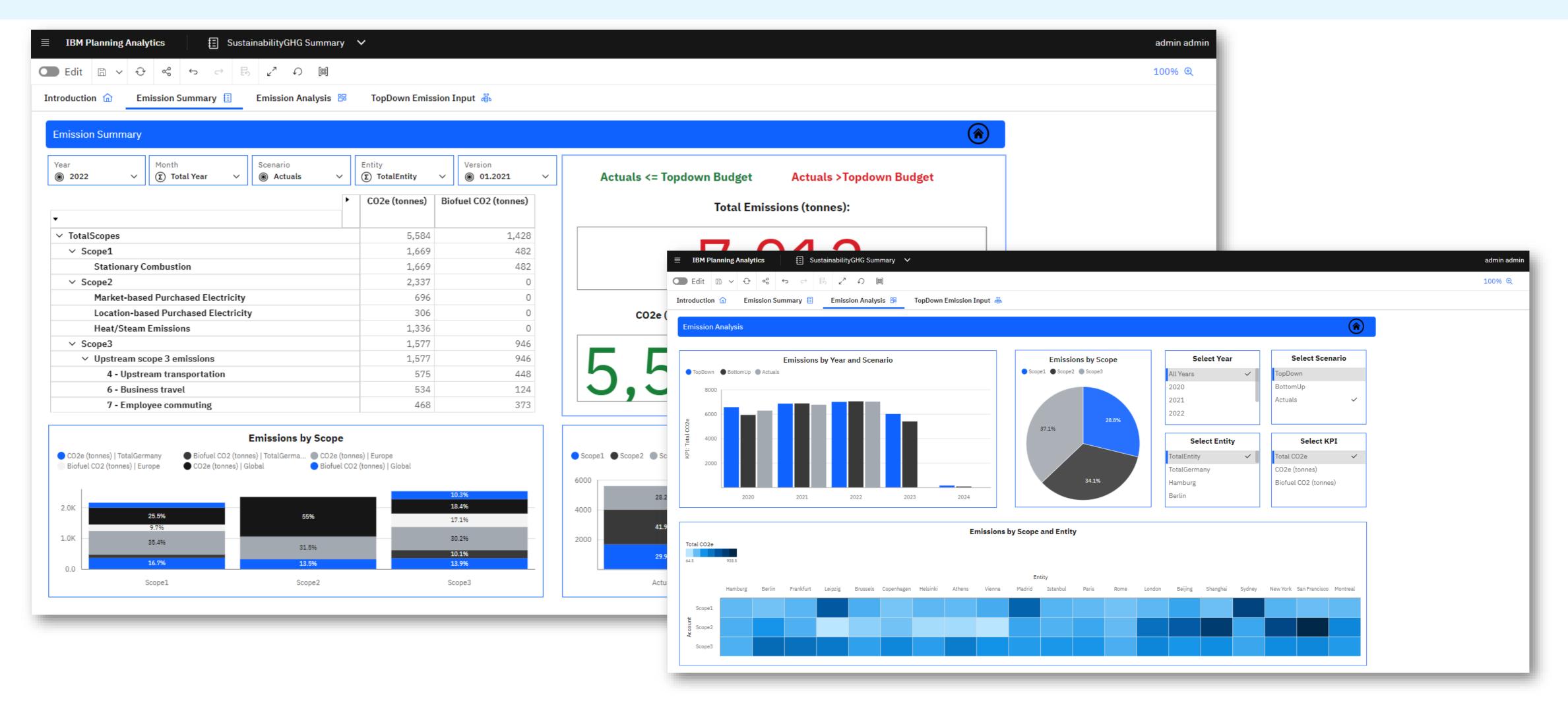
Central management of sustainability-KPIs



Landing page for all scopes: see which accounts are covered

Operational Emissions Management Tool (GHG)

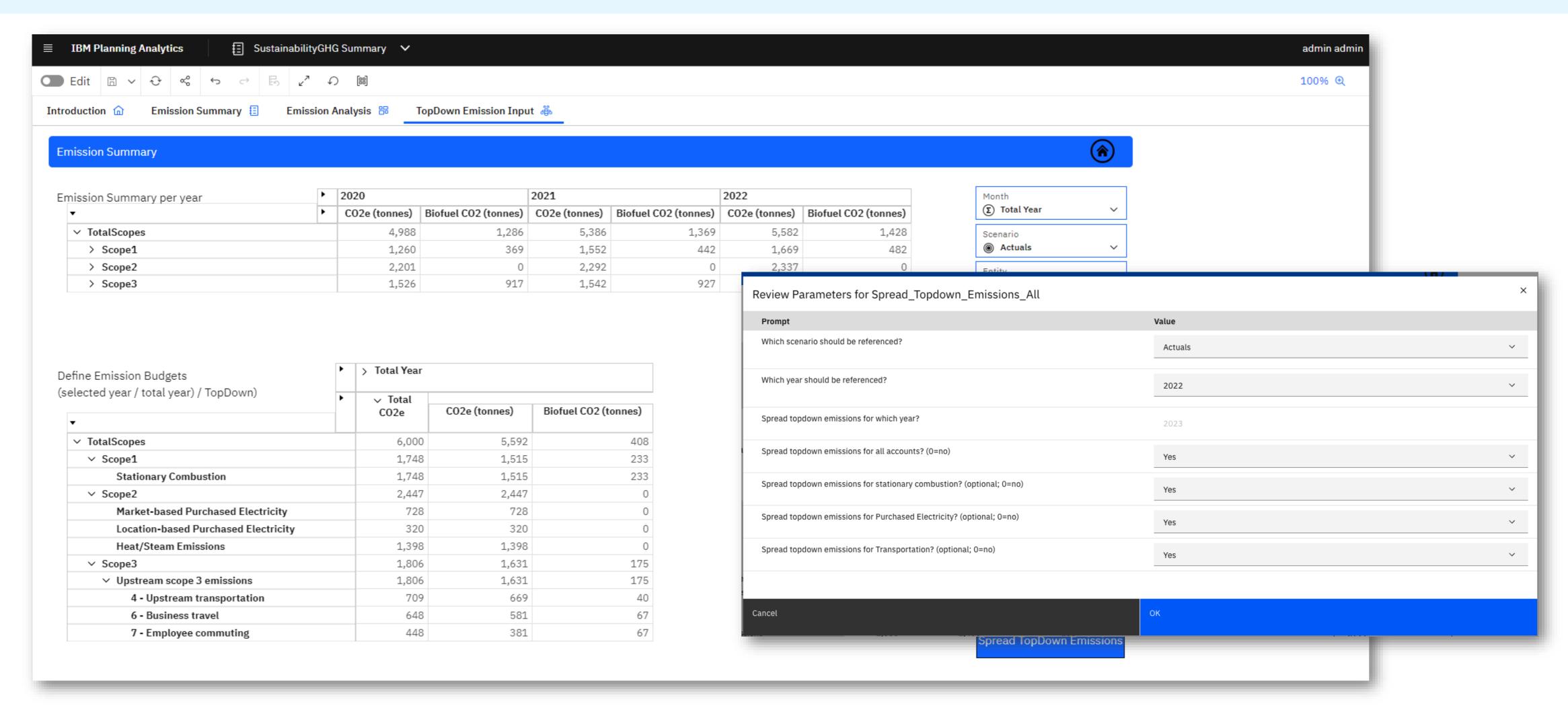
Analyze emissions, locations etc. in all needed granularity



Free configurable dashboards for all KPIs

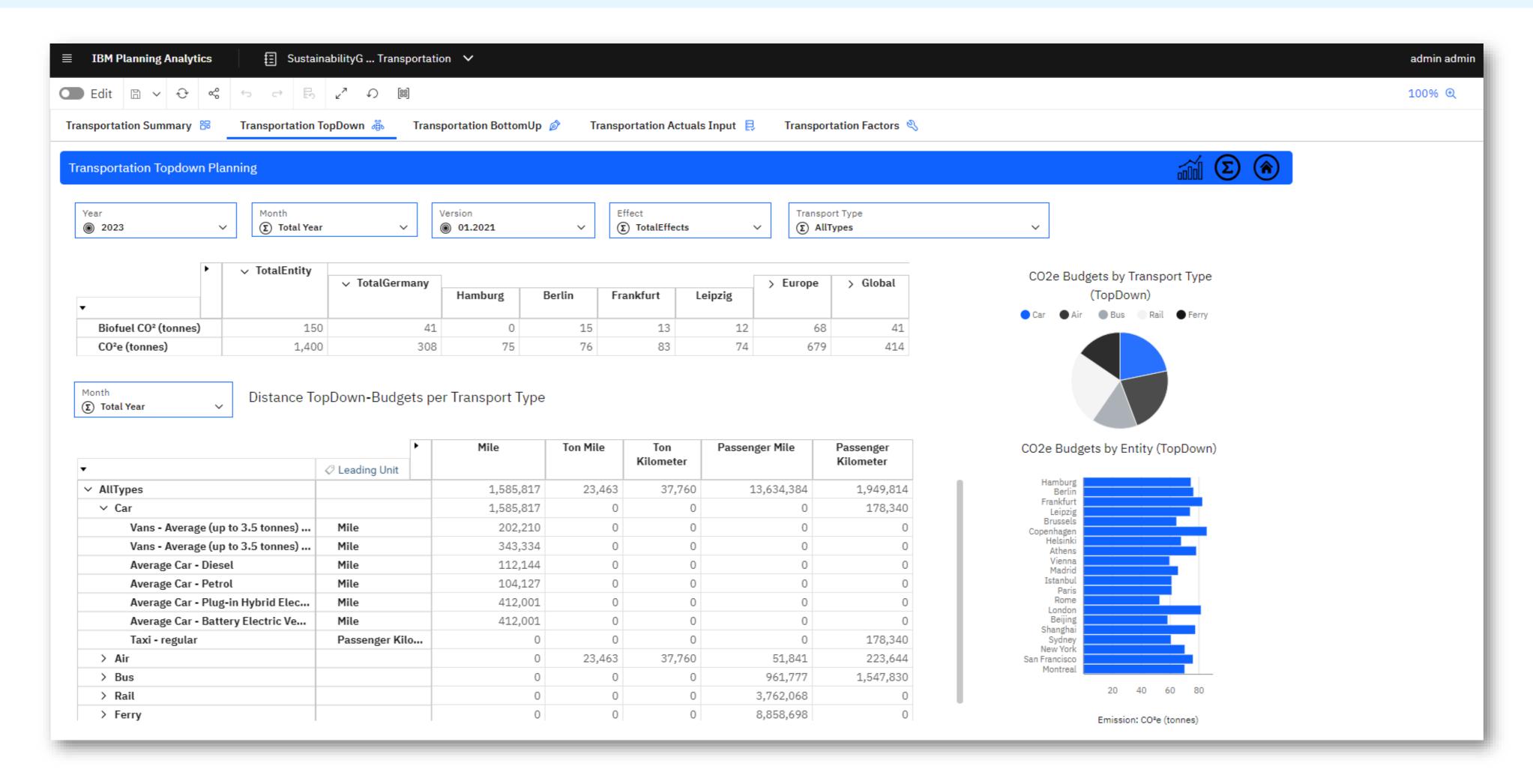
Operational Emissions Management Tool (GHG)

Define emission targets based on past or future scenarios



Distribute top down targets to single accounts with proportional spreads with respect to a reference scenario for the future

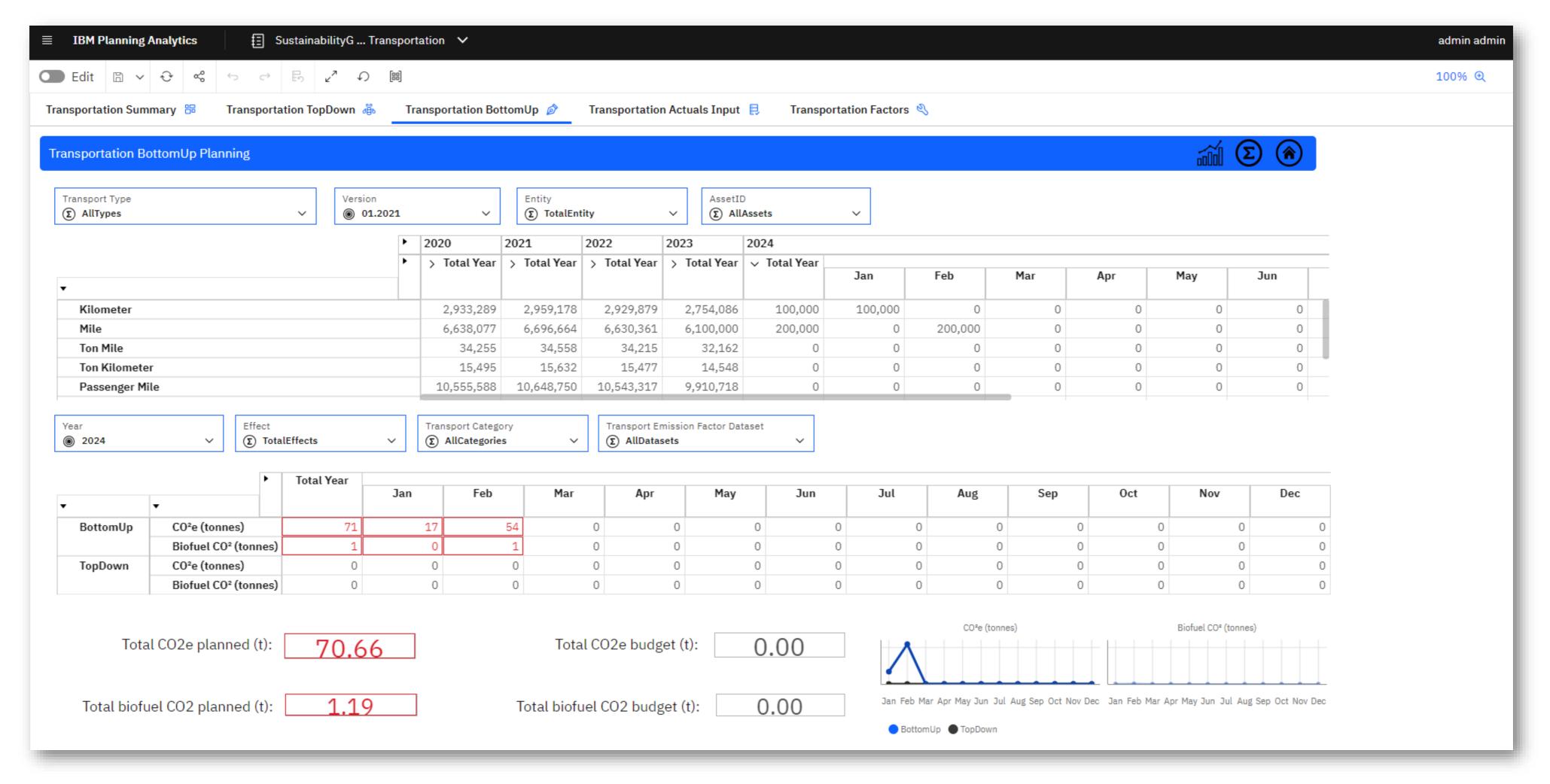
See what emission targets mean in operational metrics, like transport units



Emission targets are converted into LOB's units and distributed among all dimensions as observed in reference scenario

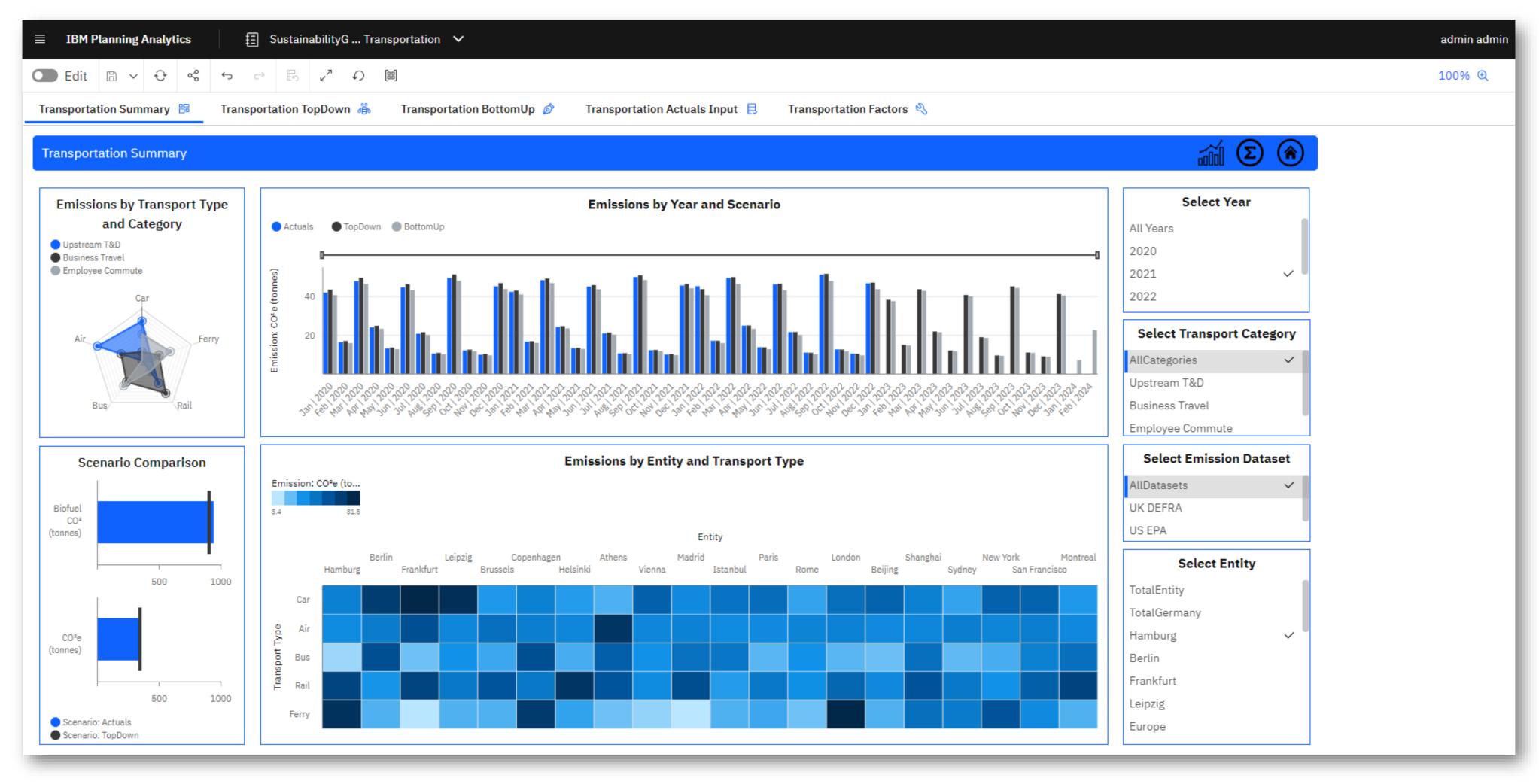
Operational Emissions Management Tool (GHG)

Plan bottom-up to match defined targets



Operational activities are planned in respective units, effects in carbon footprints are directly calculated and compared to targets

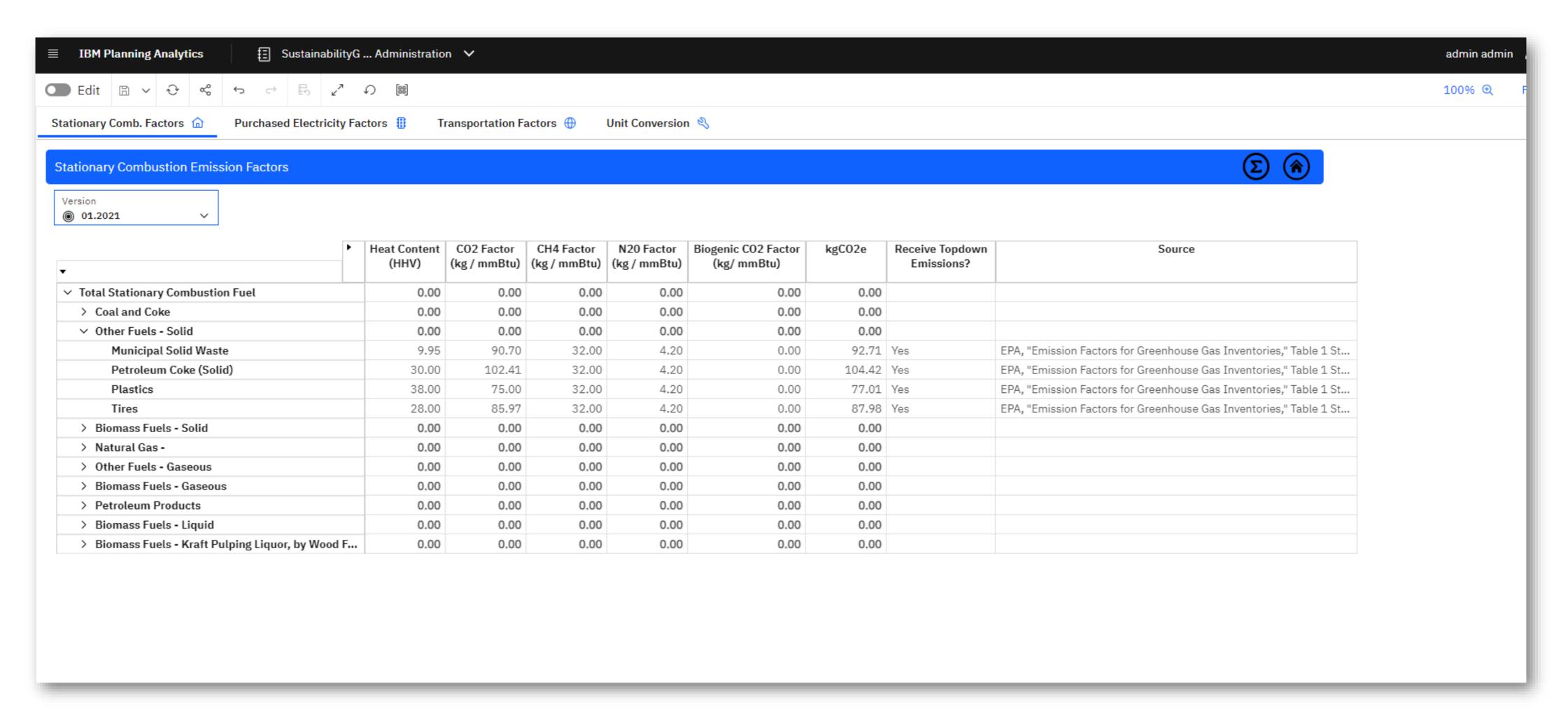
In-depth emission analysis for every account



Unlimited possibilities to visualize emissions in every account for detailed analysis

Operational Emissions Management Tool (GHG)

Handle your GHG- or emissions-factors centrally

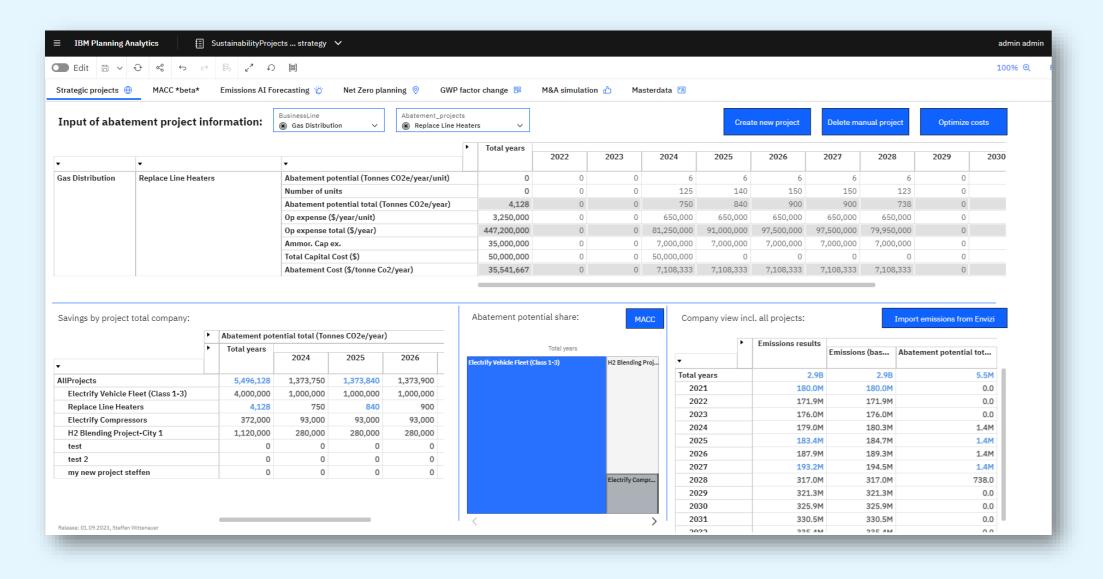


Auditable emissions-information

Accelerator:

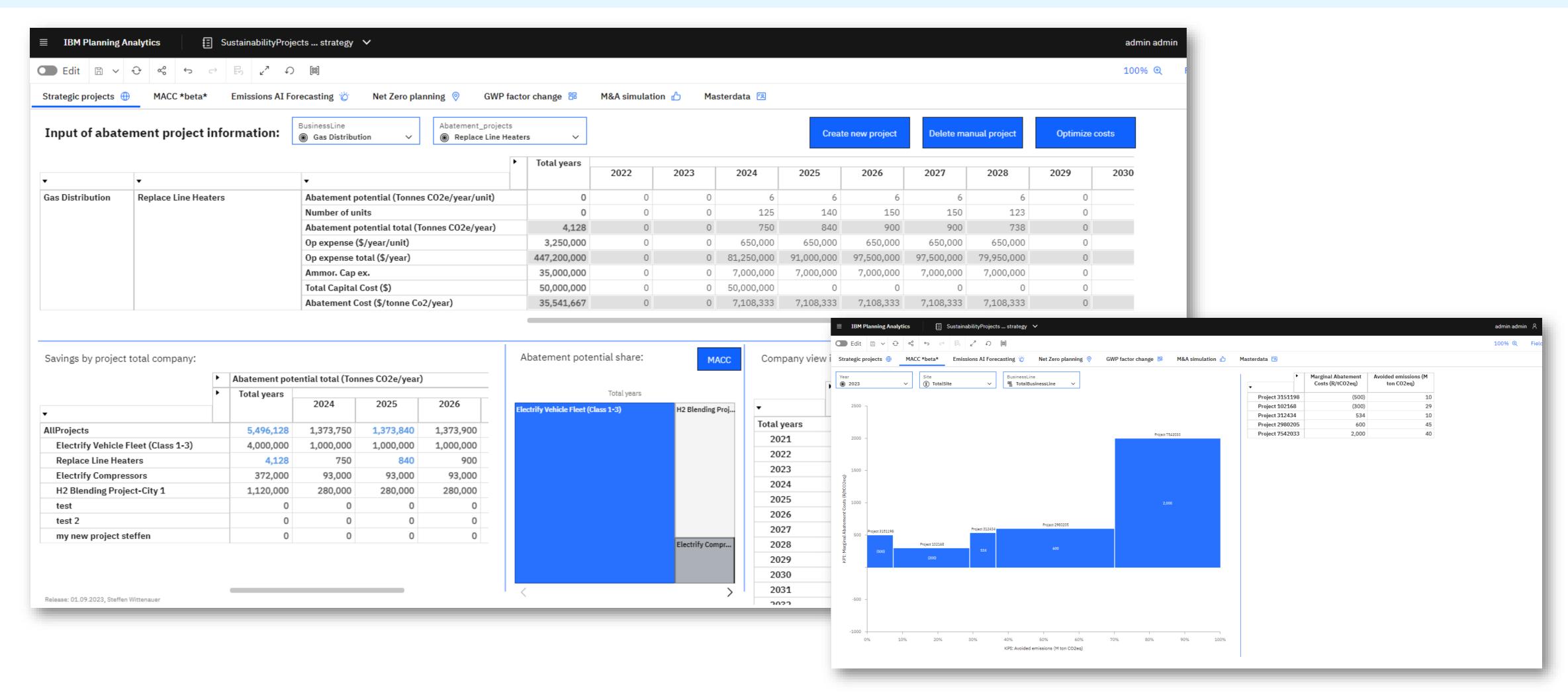
Sustainability Decarbonization Strategy

Simulate small parameters witl huge impact



- Purpose: report, plan or simulate in different small use cases how your company can change different parameters to achieve long term sustainability targets
- Manage strategic projects with sustainability- and cost-perspective (MACC)
- Simulate or AI forecast your emissions, set up your base year and plan your reduction or even simulate if a GWP-factor would change
- Simulate in a pragmatic way how merger & acquisition or any company structure change would impact your target
- Technology: IBM Planning Analytics

Create, manage or simulate investments on strategic projects

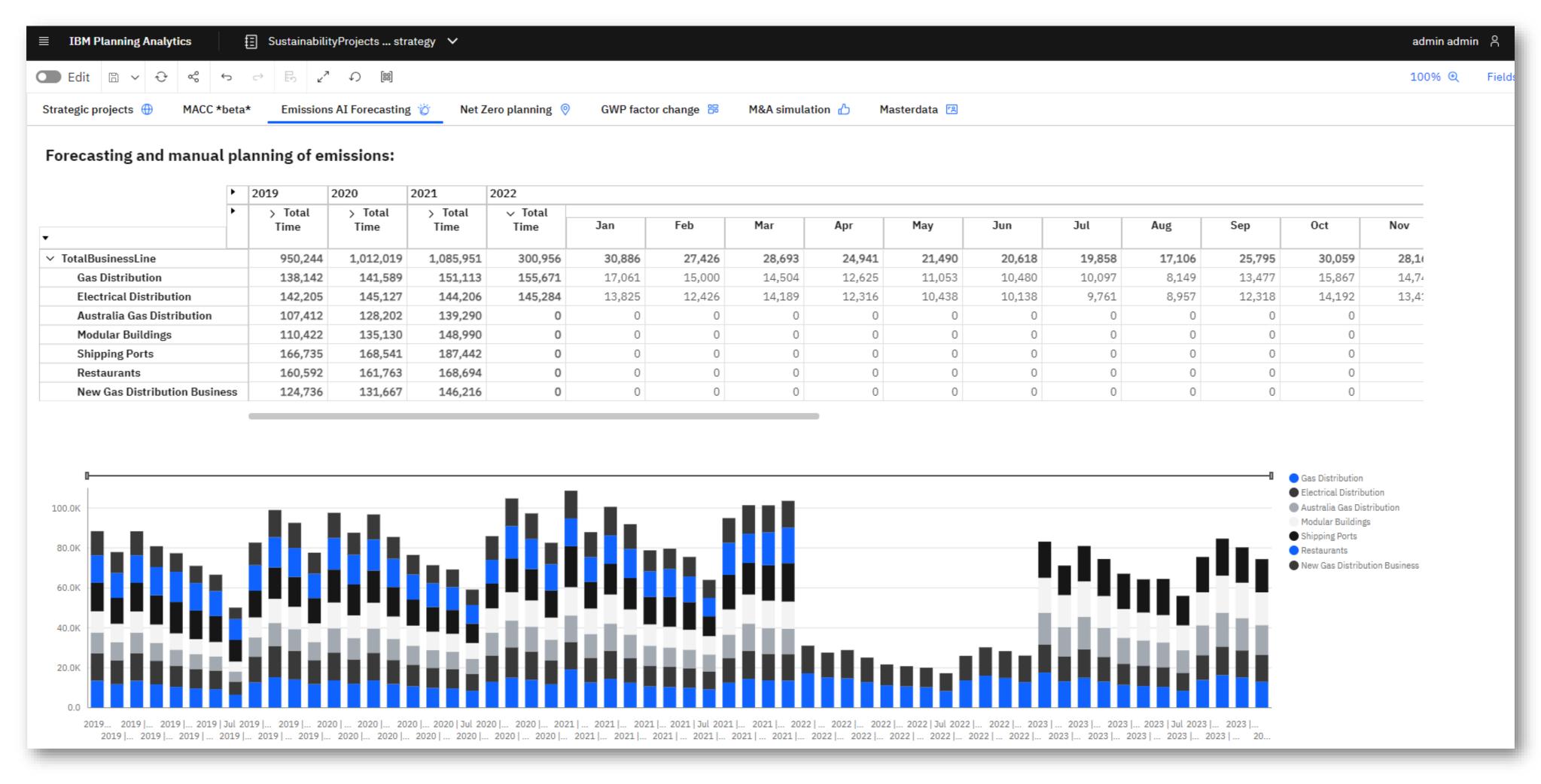


Change and plan parameters like costs, number of units, abatement potential, CAPEX etc. and see how the impact of these projects would be addit.

on the long term sustainability baseline

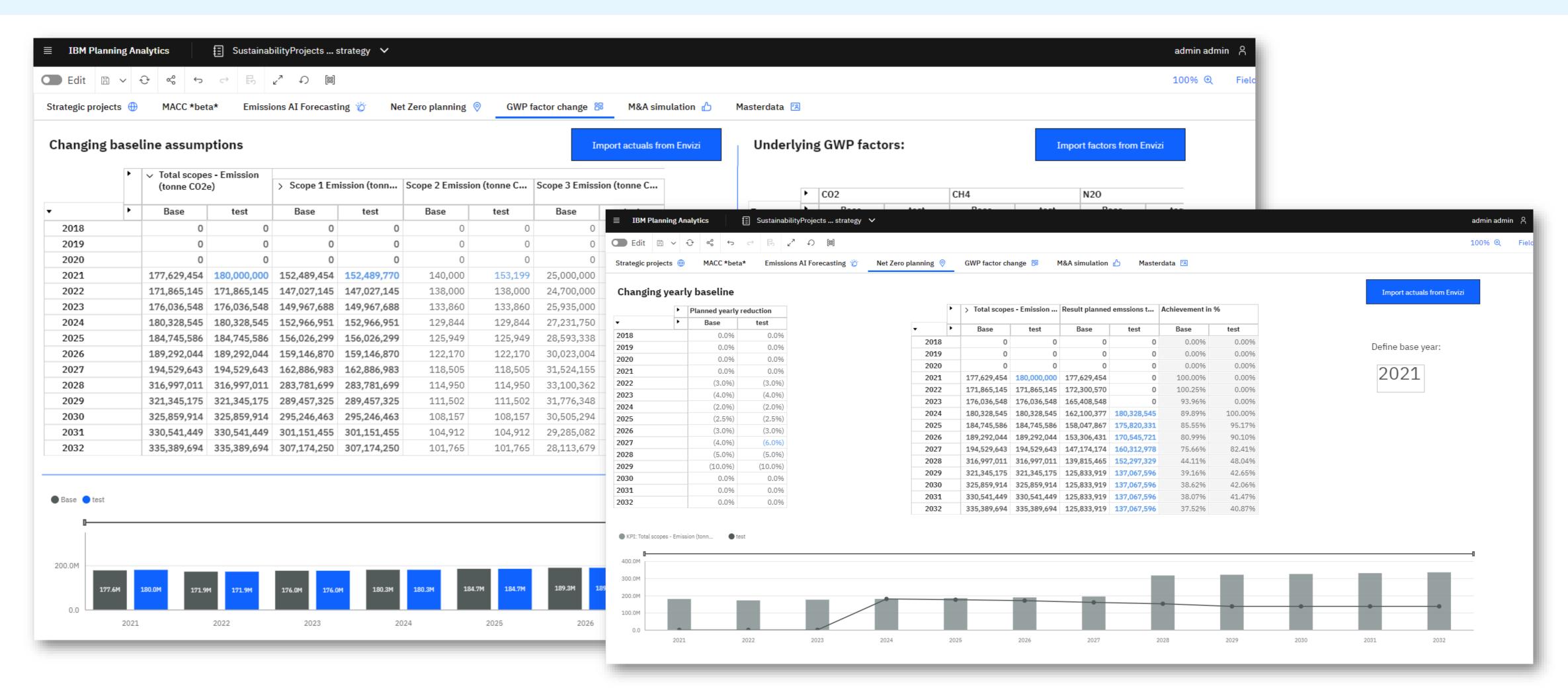
64

AI-forecast emissions or other KPIs per organization unit



Simply mark a unit and use integrated enduser-friendly AI forecast for any kind of KPI or emission

Plan or simulate change GWP-factors or reduction-targets

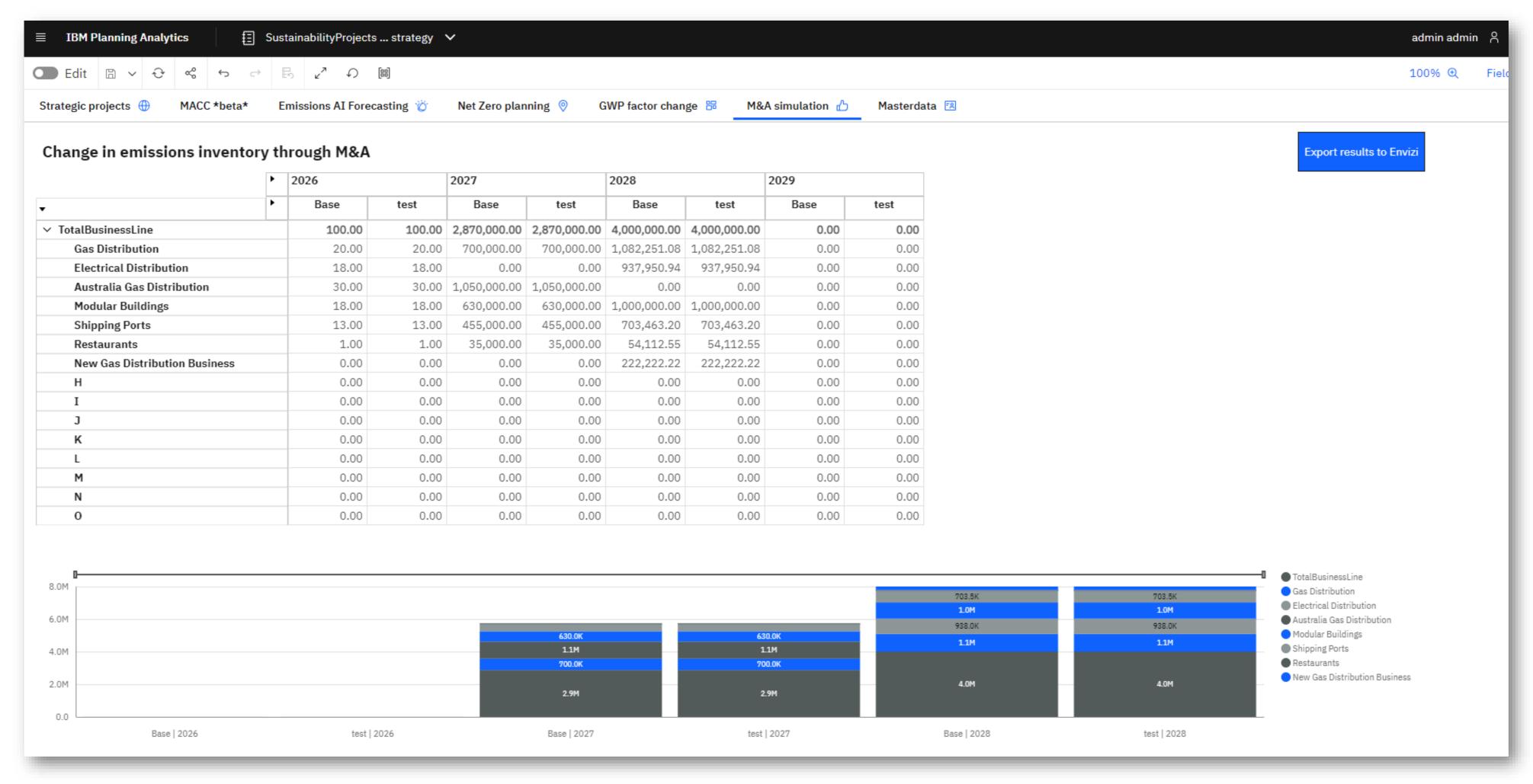


Check your different emissions beside CO2 like CH4 or N20, simulate less consumption and check what would happen if in long term such factors would change

Would change

66

Check or compare different scenarios based on merger & acquisition



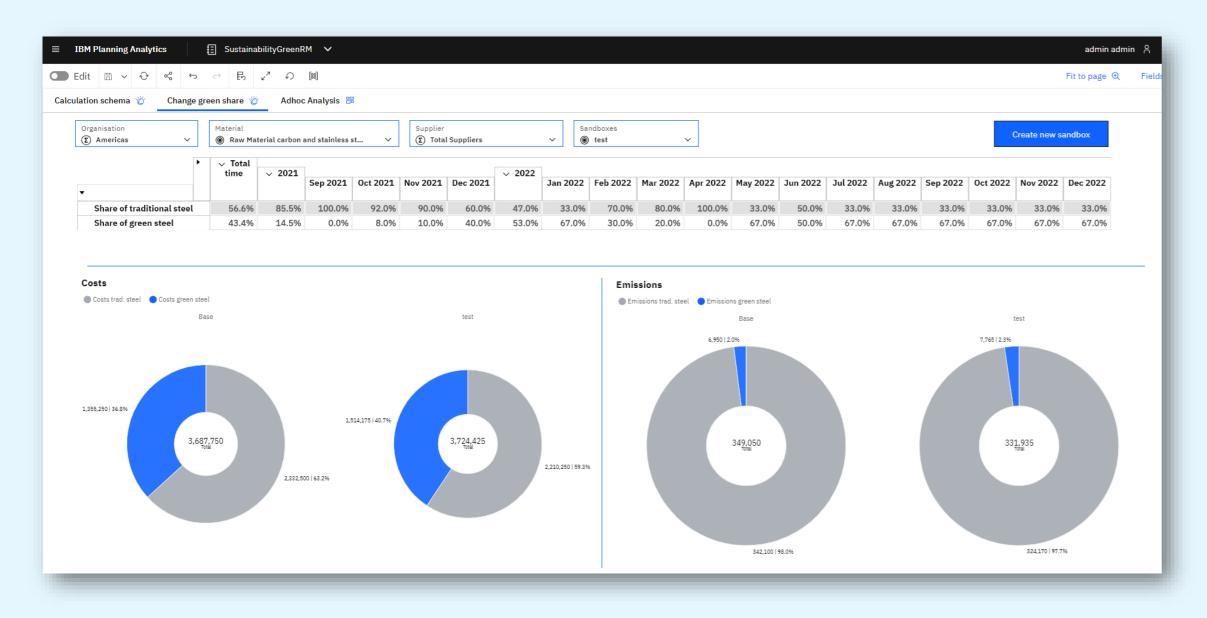
Simulate in different scenarios how merger & acquisition could impact the sustainability targets

67

Accelerator:

Green raw material

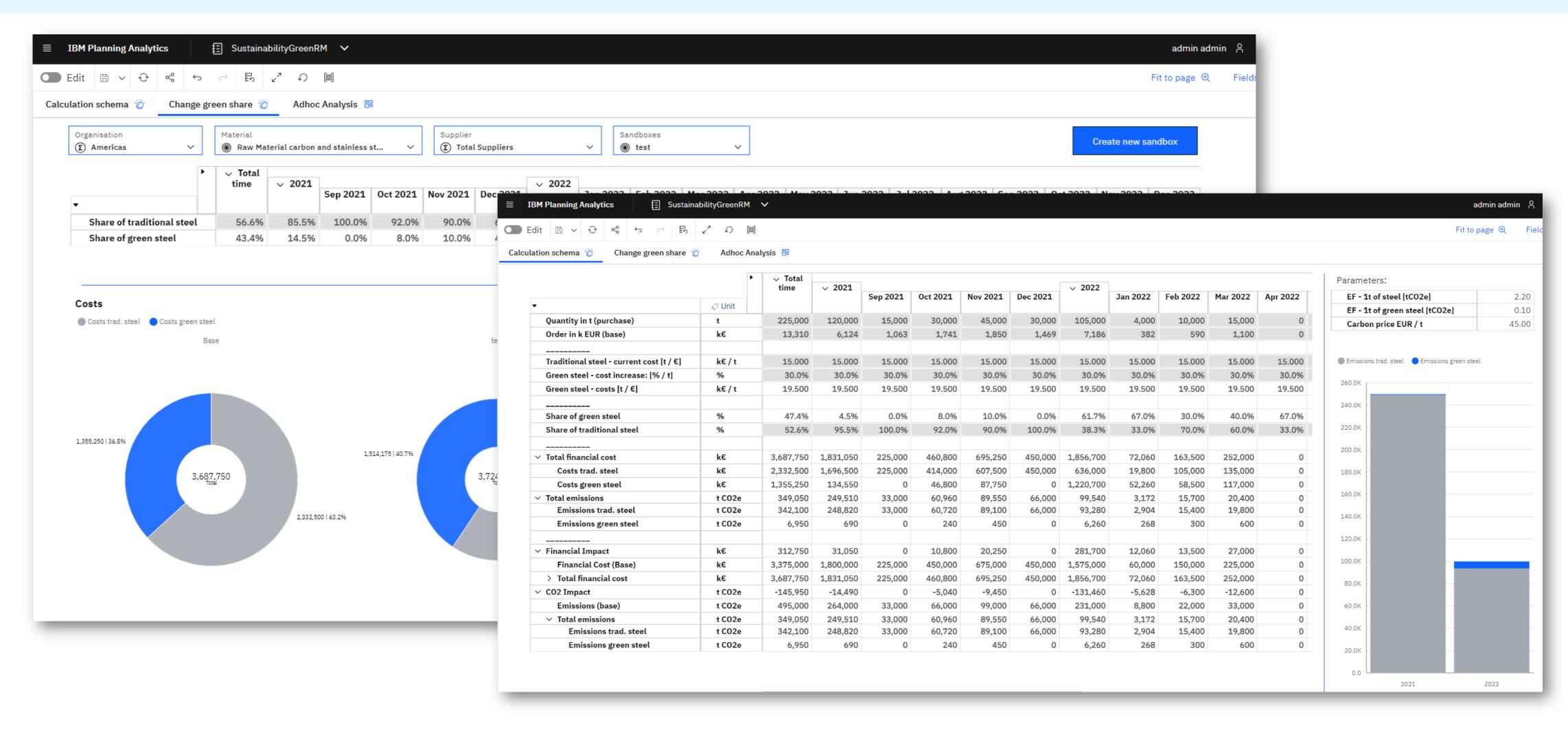
Example steel procurement: simulate share of green steel



- Purpose: simulate the impact of buying a higher share of sustainable produced raw materials in the procurement process
- Simulate different parameters like sales amount, share of green raw material, steel price and green-uplift or carbon price
- Compare different scenarios and compare them
- Visualize results in dashboards or in an ad hoc analyses
- Technology: IBM Planning Analytics + ILOG CPLEX (optional)

Green raw material

Simulate and visualize various parameters in procurement with cost-impact

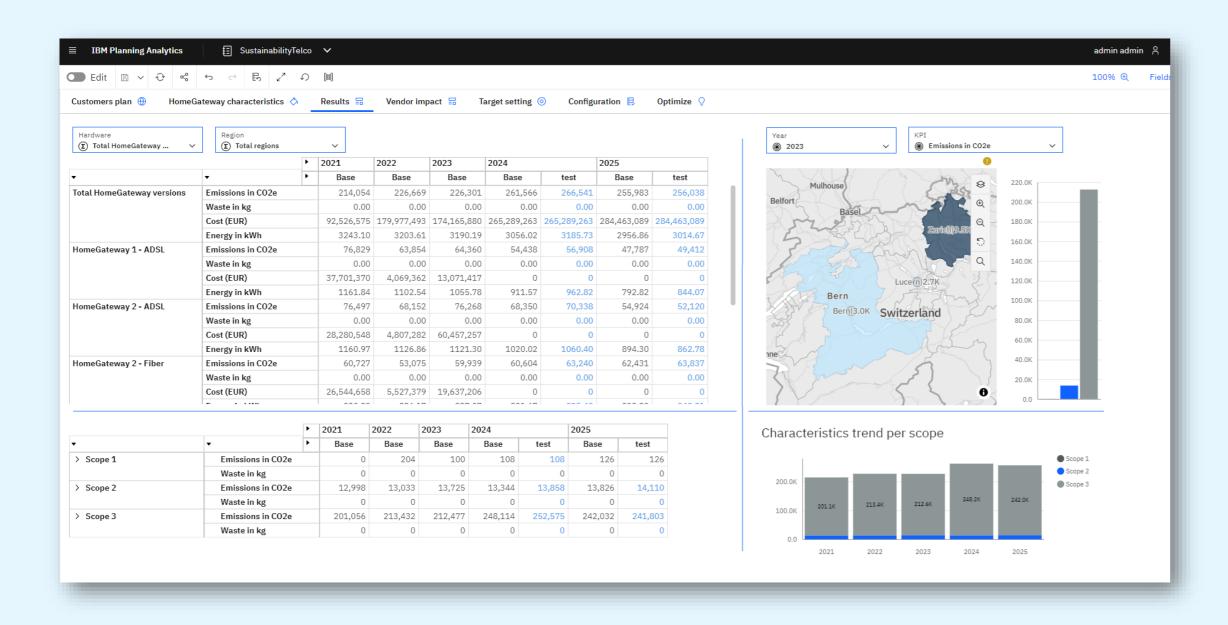


Change quantity, order values and a lot of other values to compare impacts for different scenarios

Accelerator:

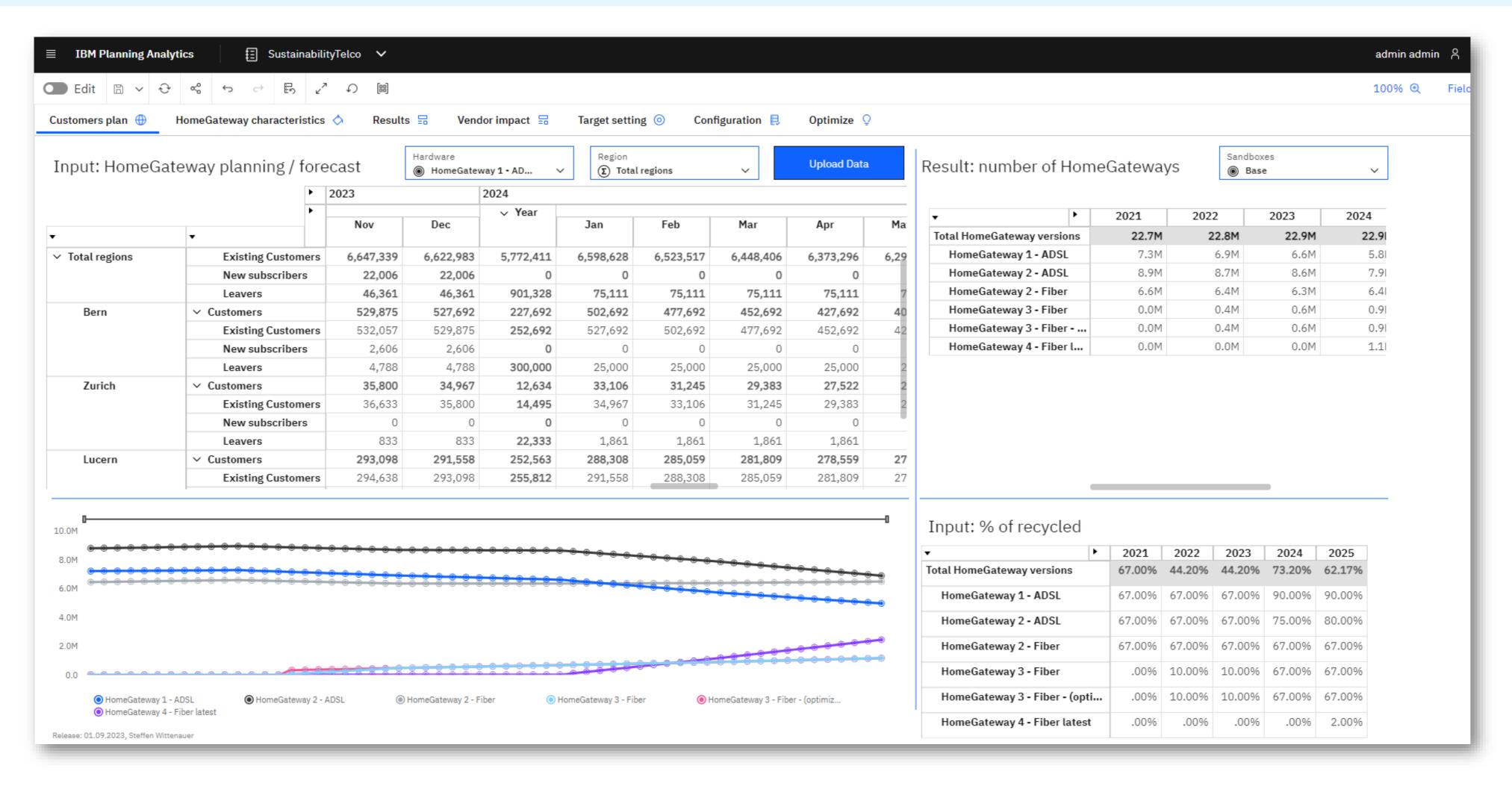
Sustainable Telco

Simulate change of products/clients, processes, lifecycle etc.



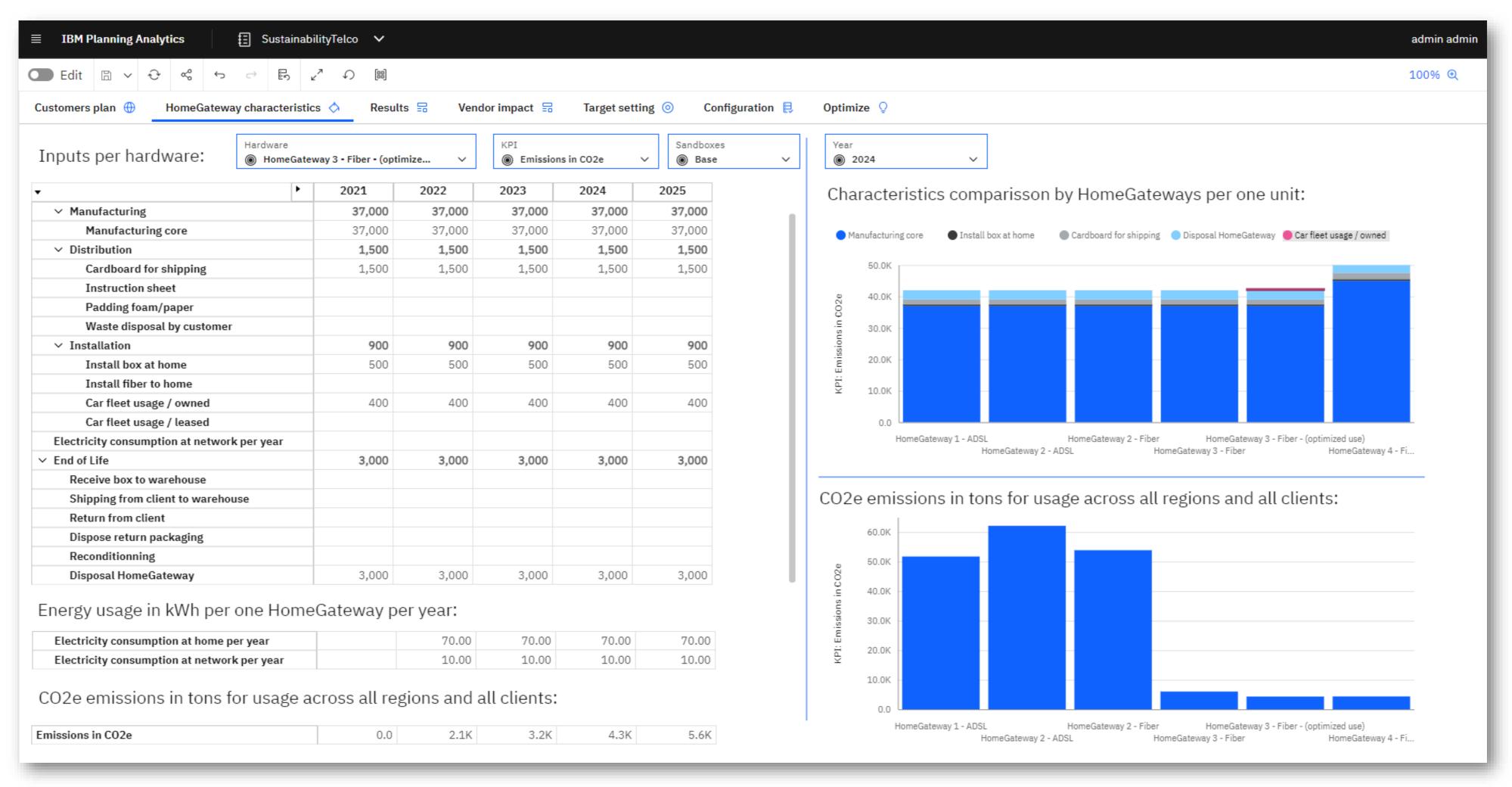
- Purpose: simulate different parameters for your products addressing different consumer groups in your product-/client-lifecycle
- Create and simulate different steps in product-/client-lifecycle
- Plan or AI-forecast different parameters like amount of subscribers/leavers
- Check your targets against projected actuals
- Technology: IBM Planning Analytics + ILOG CPLEX (optional)

Analyze / plan / forecast your products from a client-perspective



Use included AI forecast or take existing further planning functions to plan product or client-KPIs

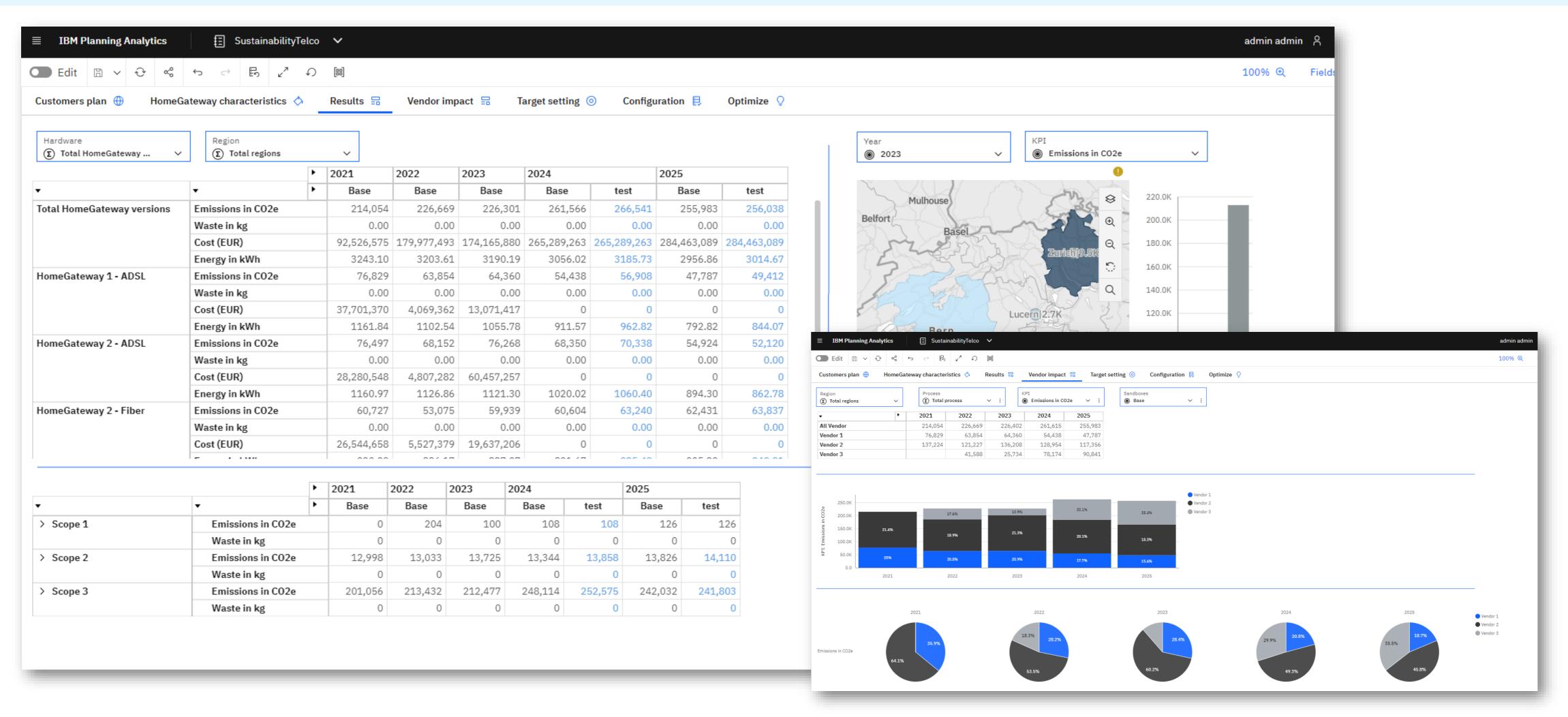
Plan KPIs like emissions, waste, costs or any other indicator per process



Cluster all processes in any granularity and fill the KPIs automatically or per manual input

Sustainable Telco

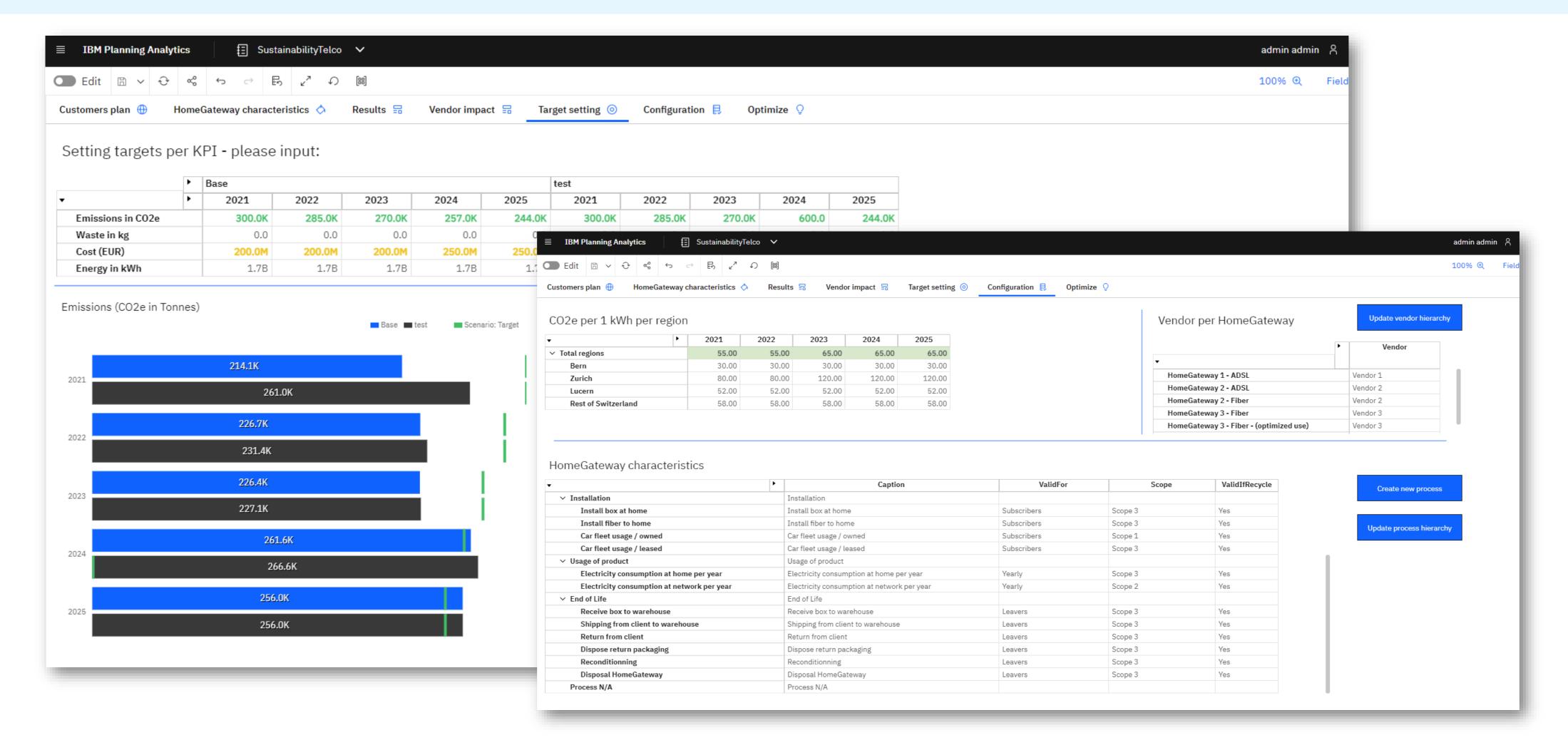
Check the results per region, product etc. for any KPI incl. scope 1-3 and supplier impact



Drill down to any granularity and see in the blue colored KPIs any parameter change to compare different scenarios

Sustainable Telco

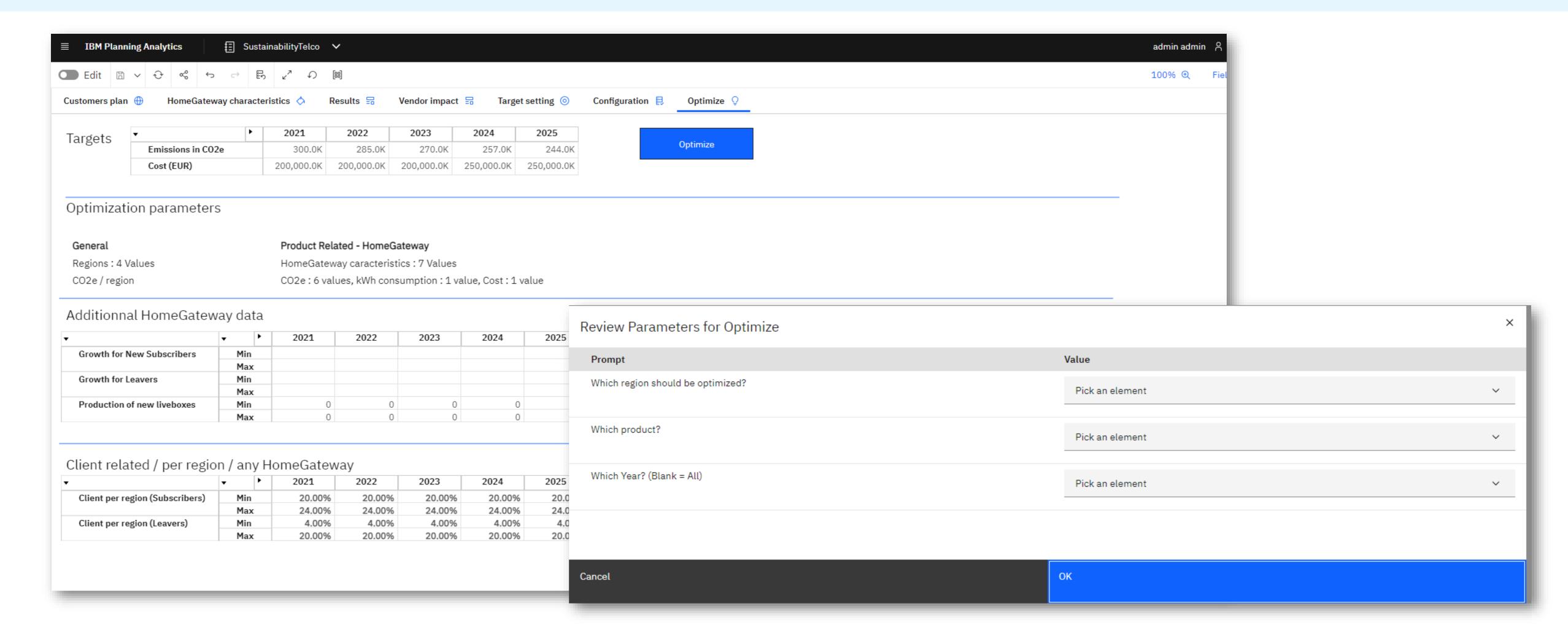
Set your targets in the tool and check if your actuals or plan fit to it



Set the targets for any KPIs. Customize on top the processes, create or change new one.

Sustainable Telco

Optimize sustainability versus financial KPIs automatically

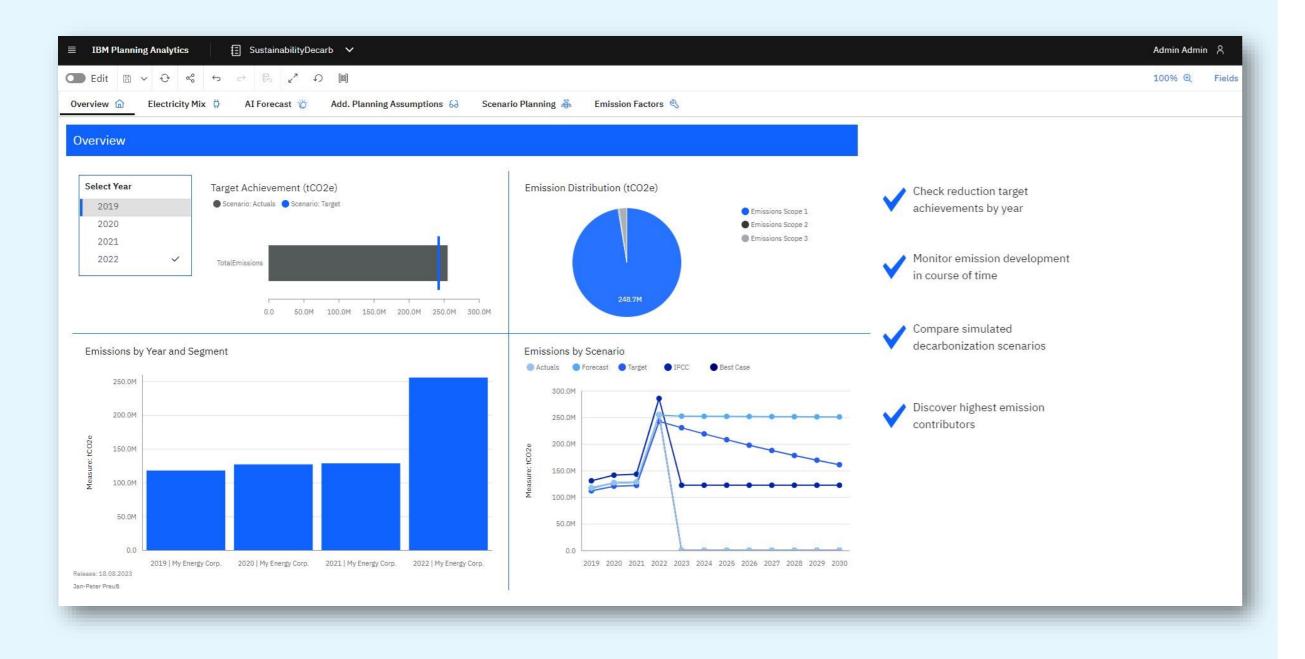


Use optionally optimizing components to find automatically the best plan for all your targets

Accelerator:

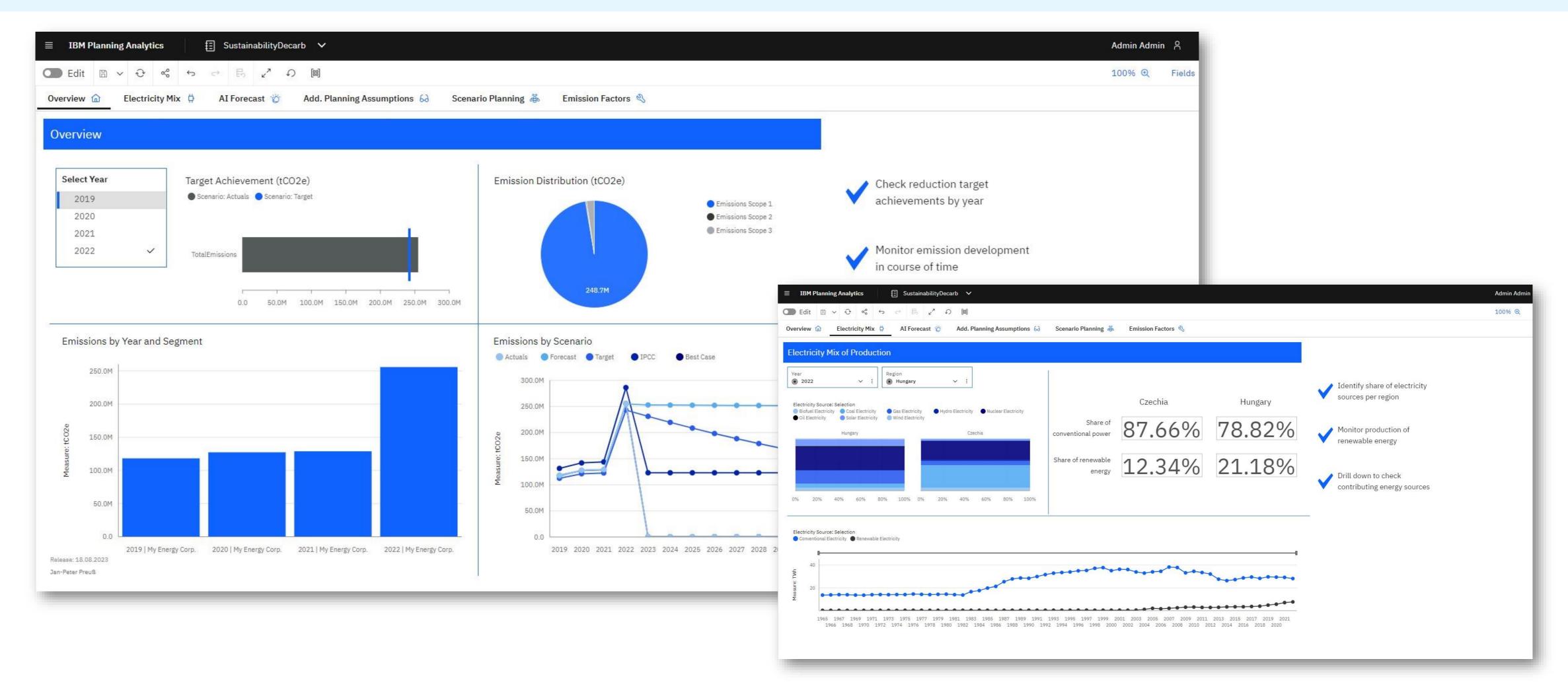
Sustainable Energy Decarbonization

Simulate energy mix of energy production or grid losses



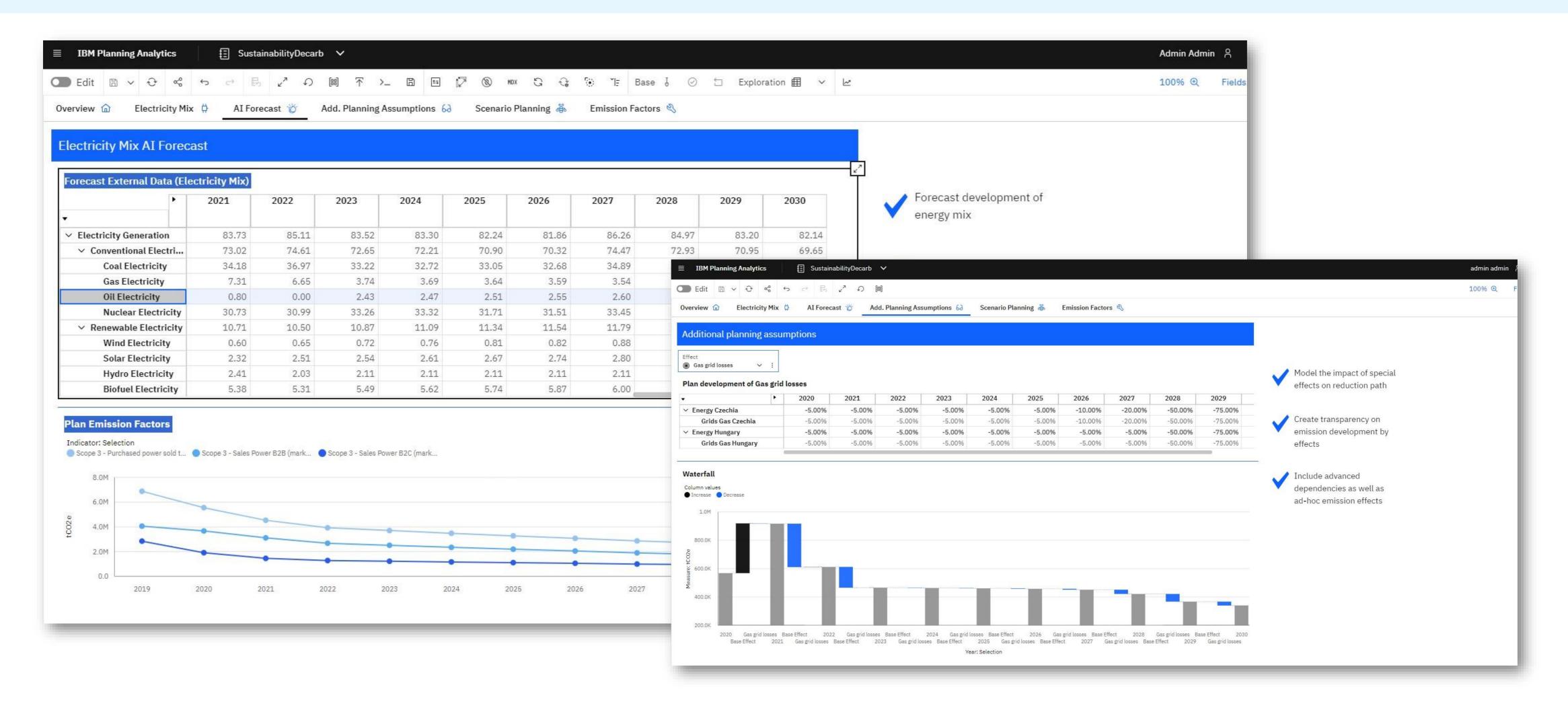
- Purpose: plan and simulate for different production-locations the energy-mix producing electricity
- Content: based on historic data and some other manual inputted parameters, the model calculates based on GWP-factors emission-scenarios
- Data sources: master data can be manually adapted – actuals can be loaded (files, data warehouse etc.) or manually inputted in an auditable way and automatically aggregated
- Technology: IBM Planning Analytics

Analyze your emissions and long term history of energy mix in production



Compare locations, actuals vs. targets or any kind of data granularity

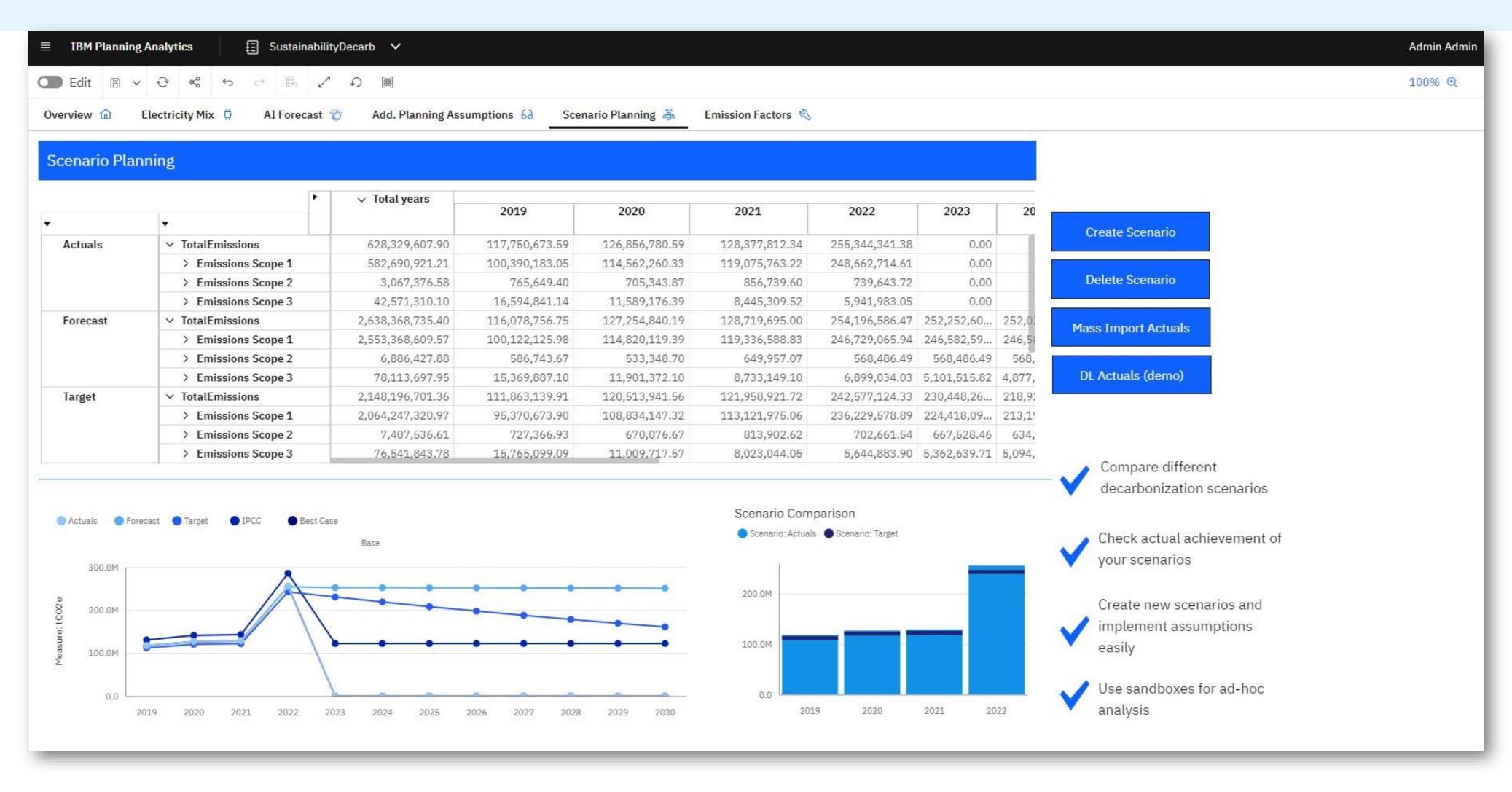
Plan / forecast the energy mix in production



Manually plan or use included AI forecast to simulate the mix. In a second step plan addit. effect like reduced grid losses or other effects

78

Compare the results and open new scenarios

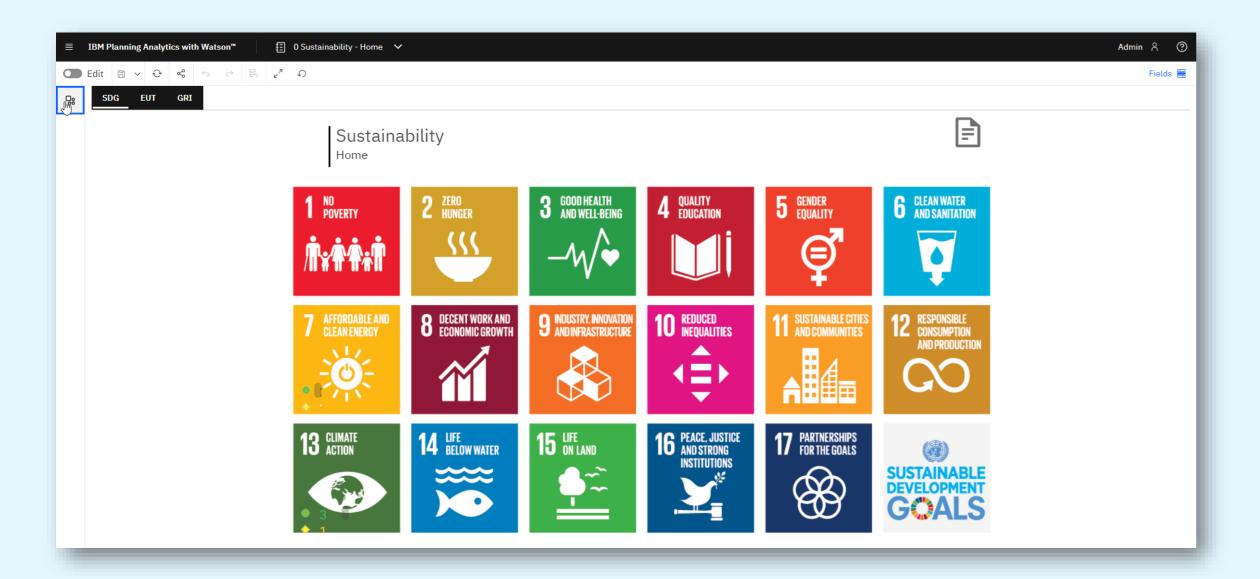


Open new scenarios and take existing scenarios as initial baseline for all new parameter changes

Accelerator:

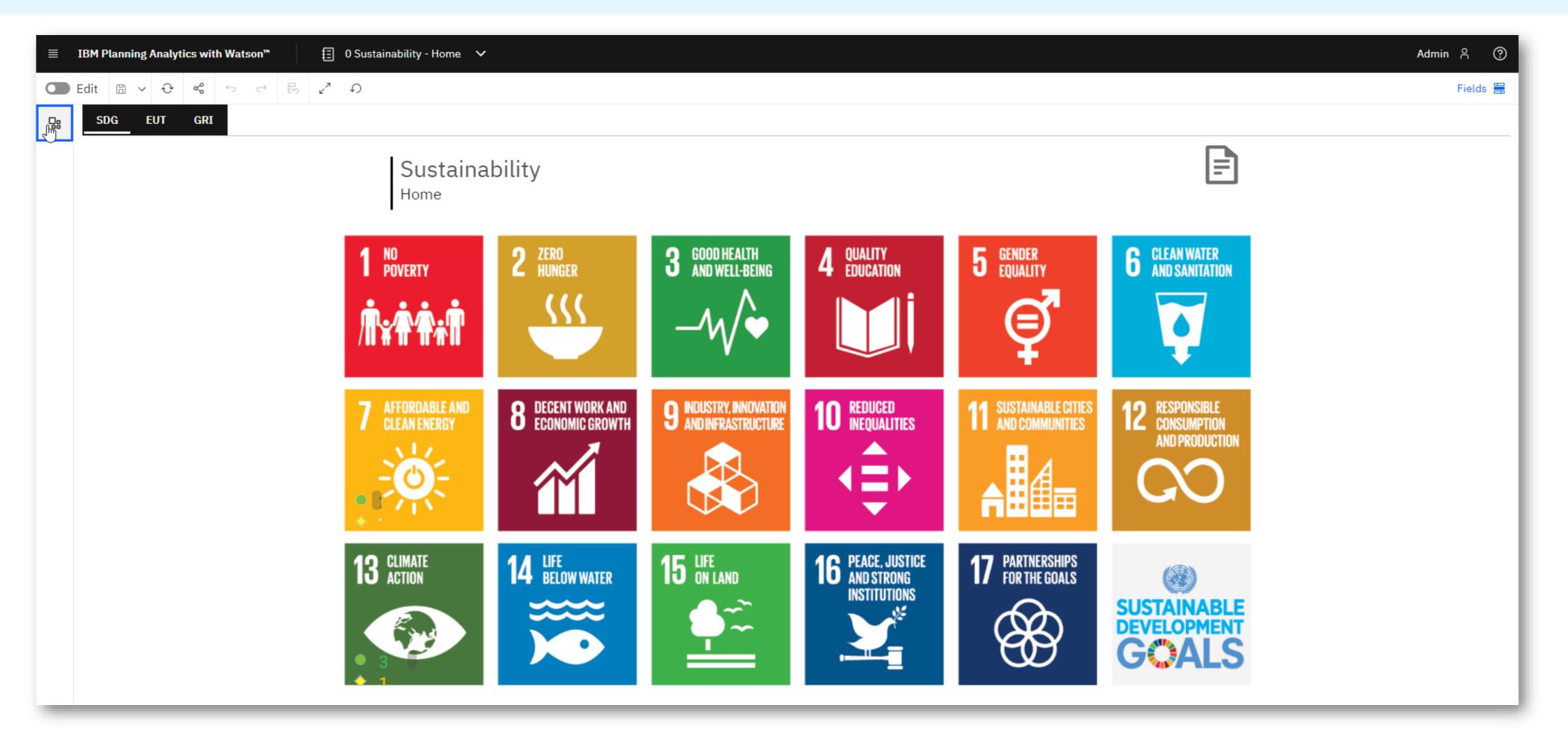
Sustainability analytics entry point

Start your data collection



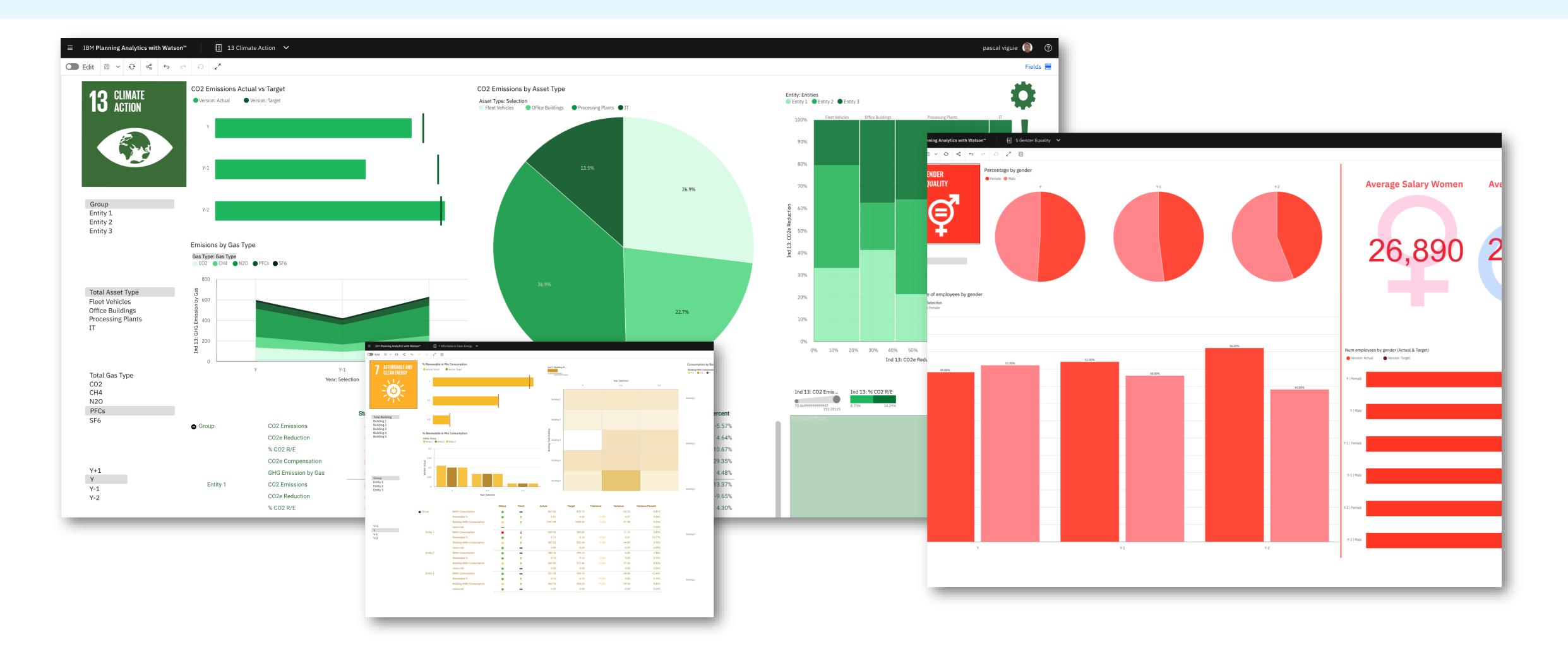
- Purpose: possible starting point for each company having not yet any analytics or target-setting for sustainability. Can be used for an easy datacollection and visualization.
- Content: modular approach having the 17 UN-goals in focus
- Data sources: master data can be manually adapted – actuals can be loaded (files, data warehouse etc.) or manually inputted in an auditable way and automatically aggregated
- Technology: IBM Planning Analytics

Use Planning Analytics as initial data collection



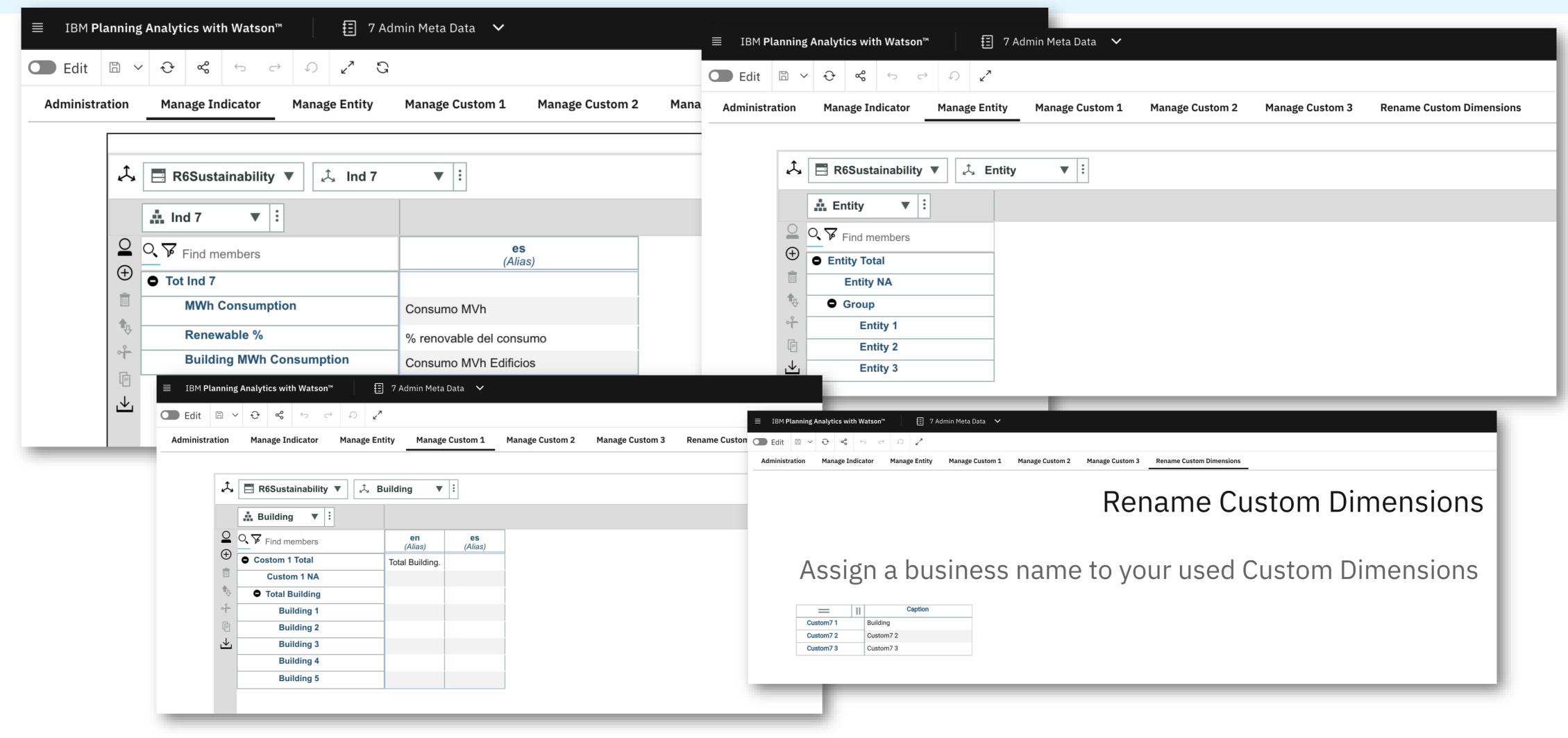
Collection based on the 17 goals (SDGs) of the United Nations

Visualize goals and indicators through modern and customizable dashboards in a few clicks



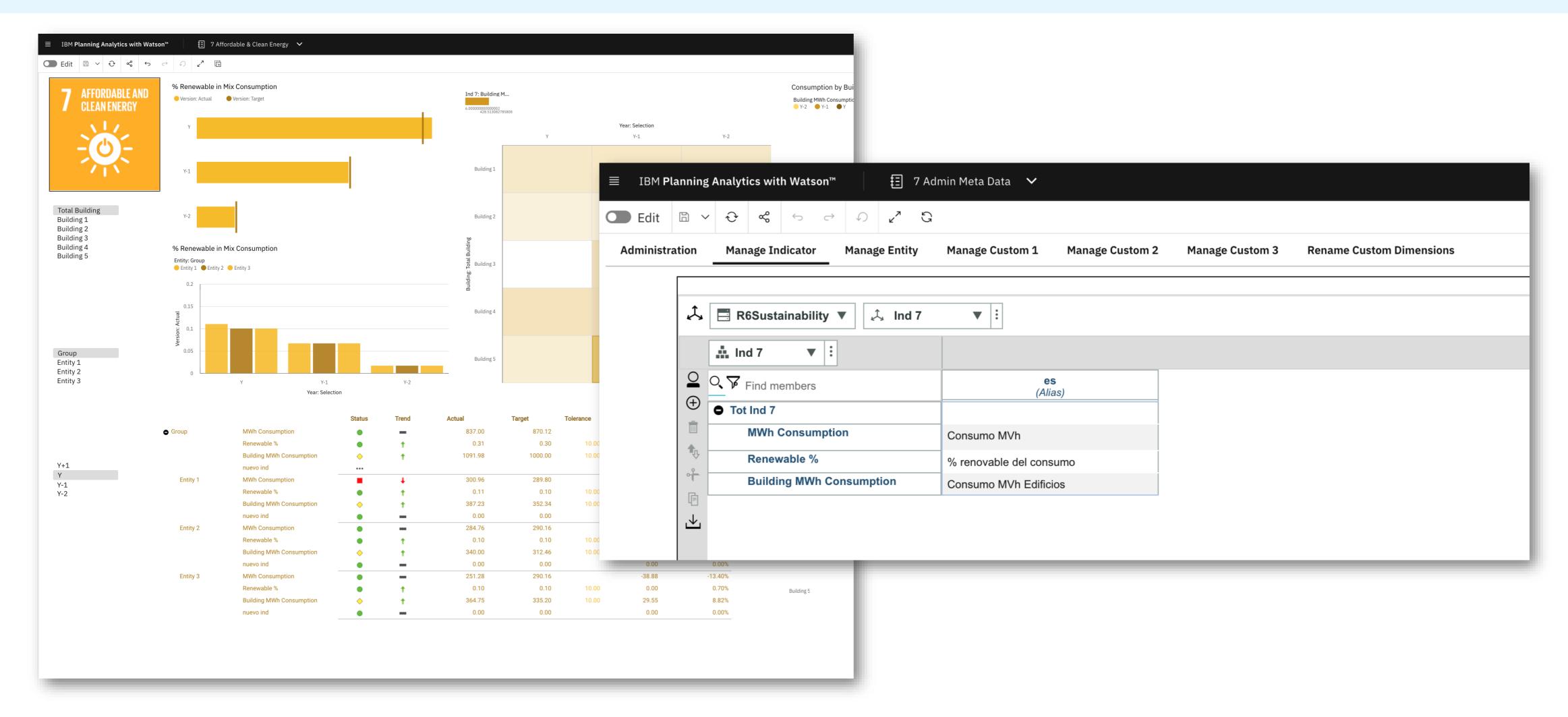
Management-ready: create within few clicks dashboards on your collected data

Manage the information for each indicator at the level you need



. All data granularity or master data is changeable : you can always decide to add or remove details to your indicators

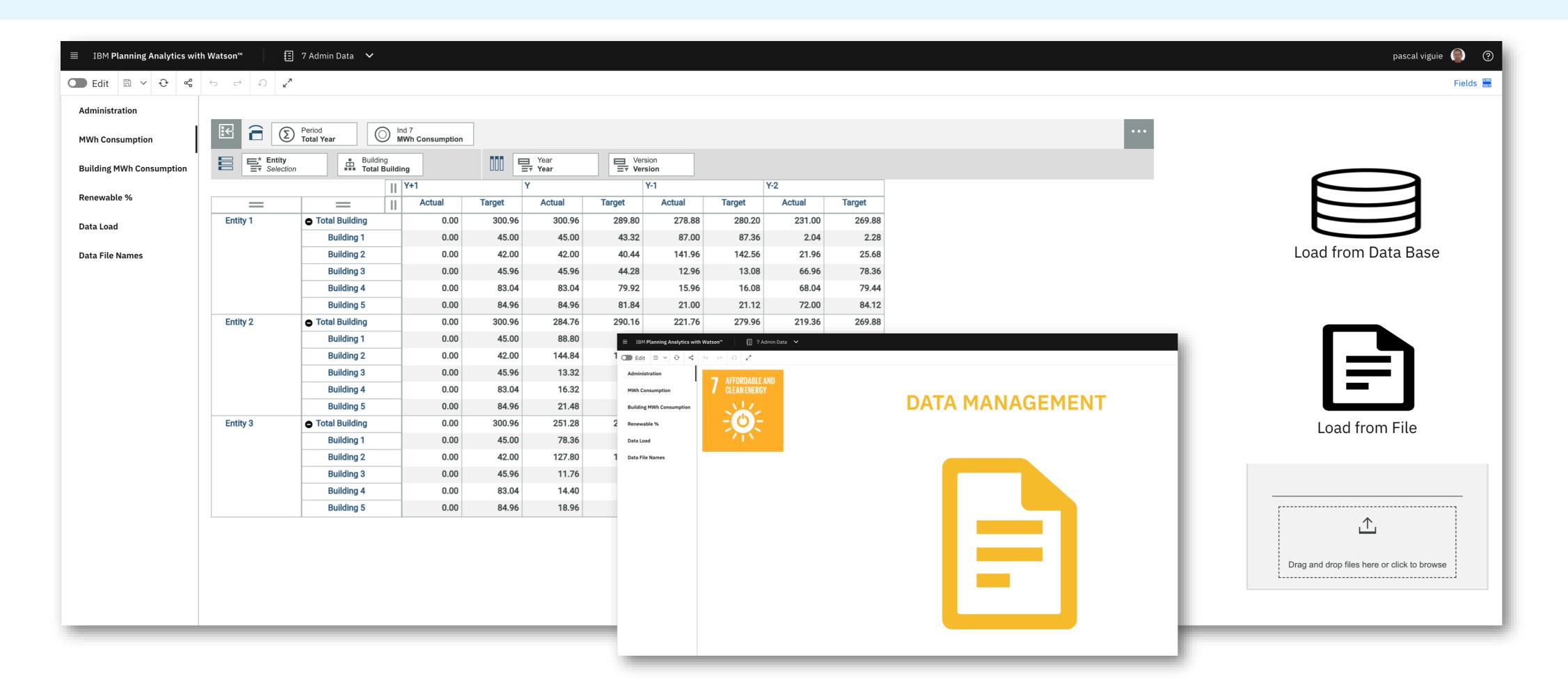
Define targets for each of the sustainability indicators and analyze deviations against data



Customize all KPIs, versions etc. depending n your needs without programming

Sustainability analytics entry point

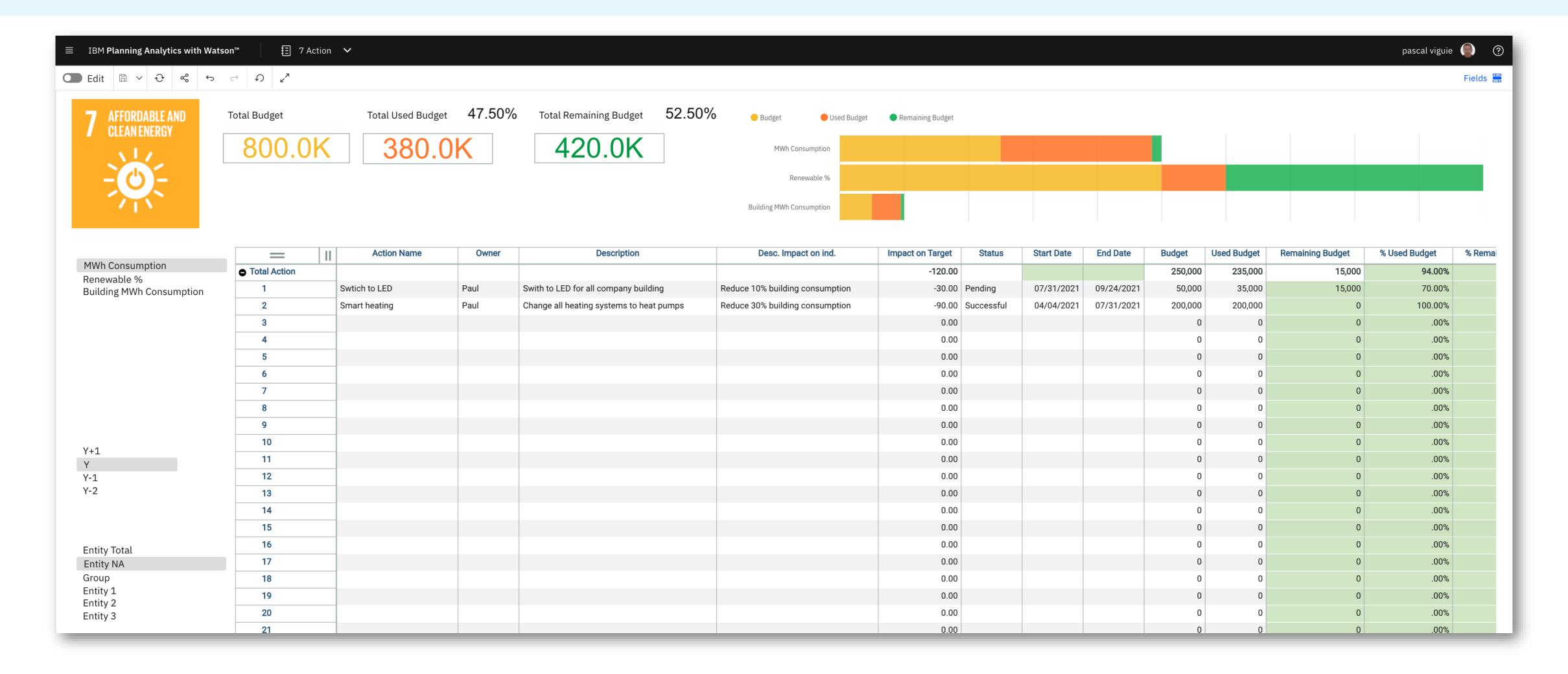
Recompile + centralize all sustainability information according to its format and availability



Five possible ways for data collection: Manual input / upload of data files / connection to data bases for manual or scheduled data load / structured enterprise and unstructured Excel data upload / integration via APIs

85

Create and manage initiatives and corrective actions for your indicators



Set target, track ownerships or manage budgets

Why using IBM Planning Analytics for sustainability-topics?

- The technology is offering one platform for planning/simulation, analysis and optimization. It is addressing
 the sustainability-use cases for all stakeholders in the company.
- Link sustainability-results directly to existing other plans like finance, cost-planning or P&L.
- The solution is able to simulate in real-time scenarios-changes of all factors, drivers, initiatives or parameters the end-users can directly check sandboxing-results in the balance or other result-outcomes.
- The solution can handle all types of master data or granularity like products, materials, regions, supply chain-processes etc. and applications be flexible adjusted by the business department.
- No limitation for emission factors ability to create flexible new emission factors. No limitation of user interface languages.
- IBM Planning Analytics is a mature native analytics-application which can handle billions of data records in scalable real-time-speed. Furthermore, the seamless analysis on all levels or aggregations through the whole data is possible.
- IBM Planning Analytics is part of the integrated IBM Analytics portfolio other components like IBM Cognos Analytics, Watson Studio or ILOG CPLEX can enrich the solution (CP4D, Data Fabric etc.).

