

BRISTLECONE

E360 CARBON FOOTPRINT OPTIMIZER: SUSTAINABLE INTEGRATED BUSINESS PLANNING





SOLUTION DEMO: E360 FOR SUSTAINABLE ORGANIZATIONS

The key to incorporate Sustainability as value driver to growth and returns on capital is to have holistic view of parameters concerning Climate Action, Circular Economy and Social Responsibility. Bristlecone's E360 Carbon Footprint Optimizer for Sustainable IBP focuses on bringing control and visibility to future carbon emissions during the planning stage. E360 integrates with Supplier Risk, Ariba, Product Footprint Management, Analytics, Ecovadis, Ecoinvent to ensure responsible sourcing and make the right business case for sustainability both internally and externally.

CREATING SUSTAINABLE VALUE

Measure – Decarbonize - optimize

23%

of businesses only have SBTi approved for high level of action or engagement

21%

Only 21% of companies with industrial manufacturing system conduct water footprint analysis

80%

of carbon footprint is locked in at time of supply chain design

68%

Companies plan to make growth policy as their top priority

Source: UN-Global Compact Progress Report 2020

SNo

Challenges

Use Cases

1

Identifying datapoints to facilitate organization's transition to sustainability

Gain carbon footprint insights across sourcing, transportation, supply

2

Lack of integration of sustainability data points across in the planning stage and for continuous review

Mid to long term planning, Carbon emissions forecasting in mid term horizon

3

Holistic coverage of supplier sustainability data points for sourcing decisions

Supply planning carbon footprint optimizer with supplier risk and sustainability ratings

4

Tracking and performance of sustainability initiatives across the supply chain

Analyse historical and planned emissions to improve efficiencies across the supply chain

5

Reporting on performance of SDG indicators across Scope 1,2,3 emissions

Single source of truth with Analytics/Dashboard to identify sources of emissions

6

Siloed planning processes for reducing carbon emissions across the supply chain

Integrated with Pre-configured IBPNow Planning scenarios

7

Access to databases and industry standard datapoints to address the gaps in sustainability analysis

Integrations with third party databases for ratings and footprints for S&OP and Sourcing processes

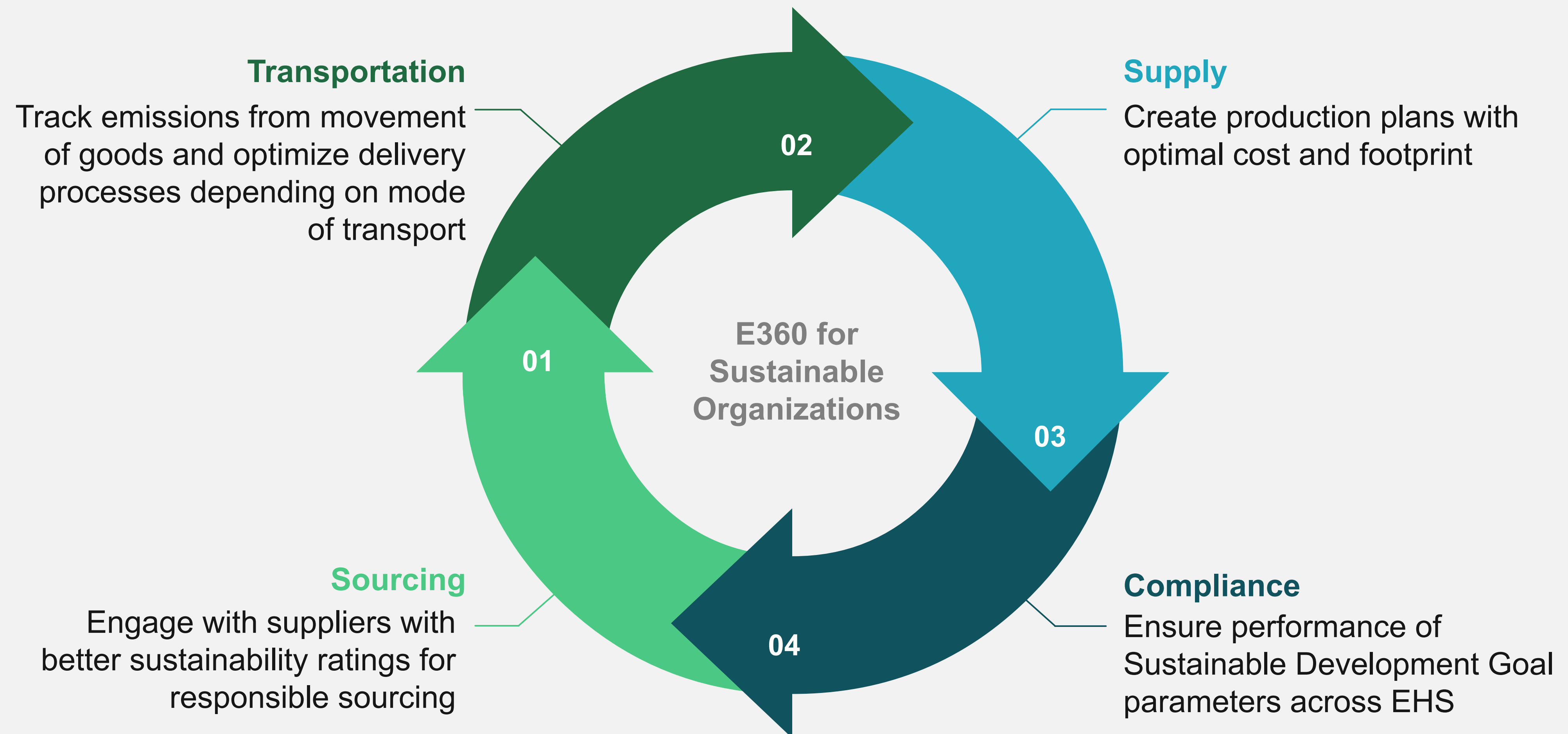
8

Data Driven decision making based on emissions simulation

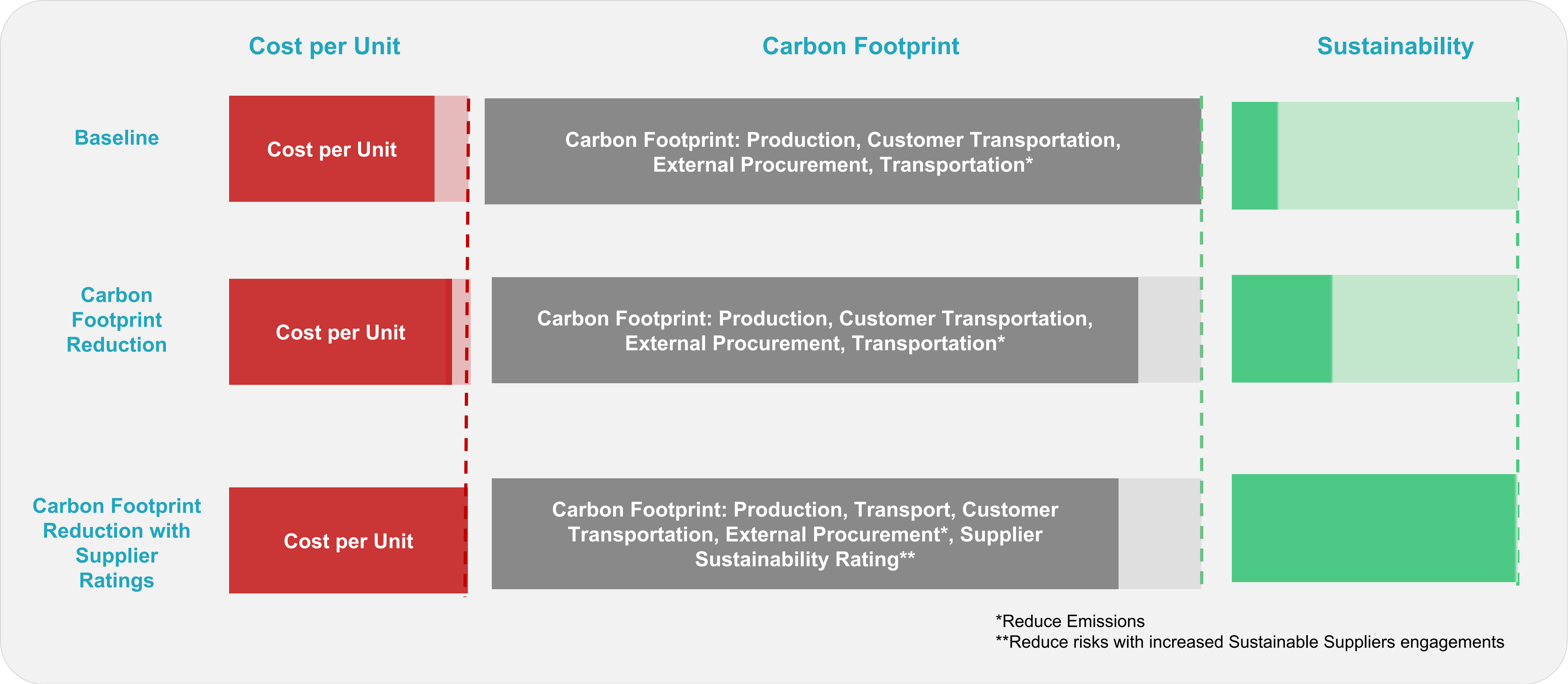
Scenario Planning & what if analysis. Capability to simulate up to gross emissions level

SUSTAINABILITY VALUE CHAIN

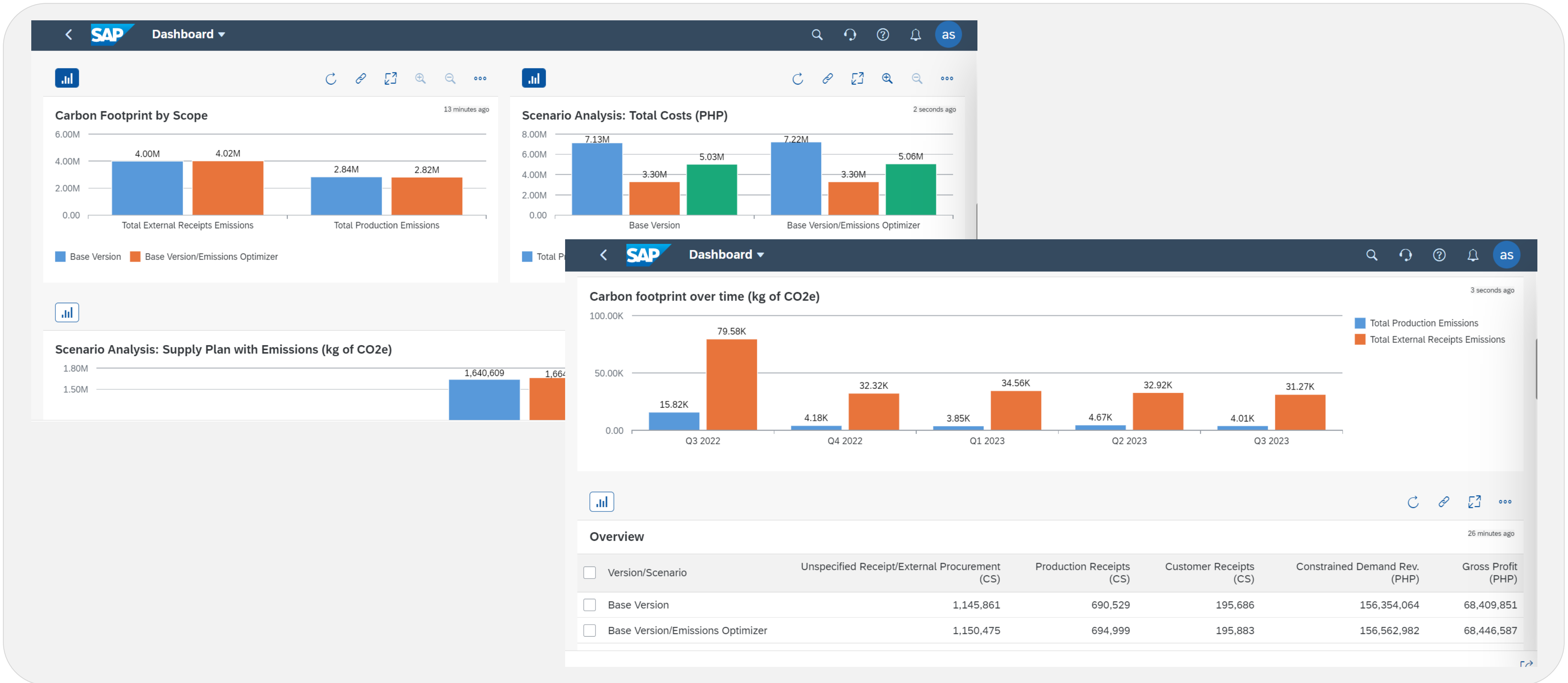
Measure – Decarbonize - optimize



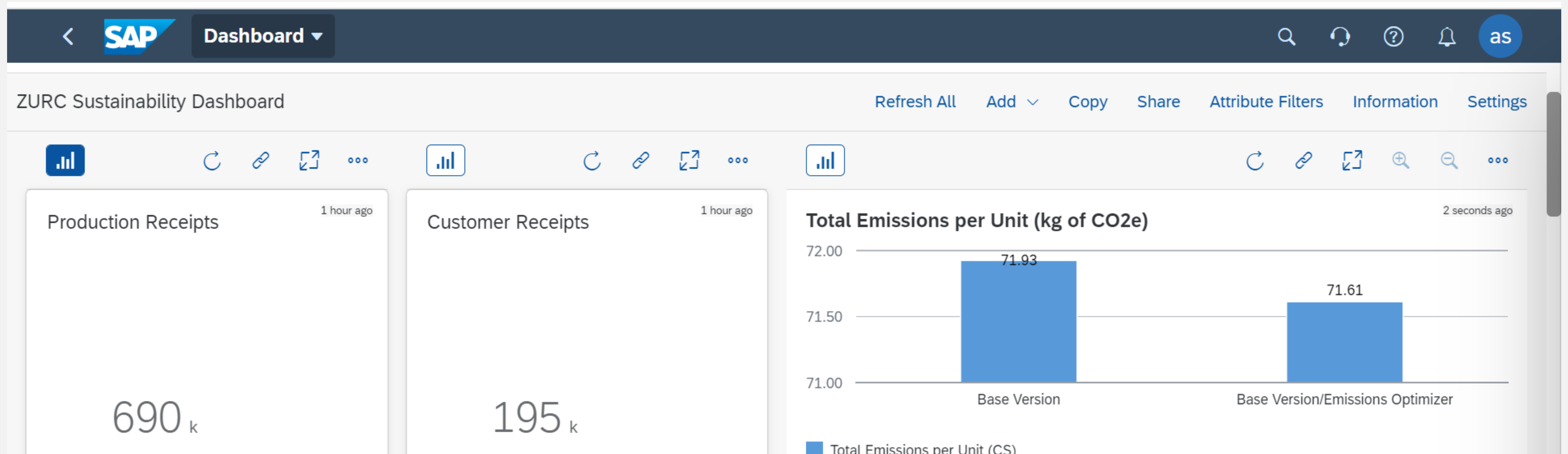
APPROACH TO SUSTAINABLE IBP



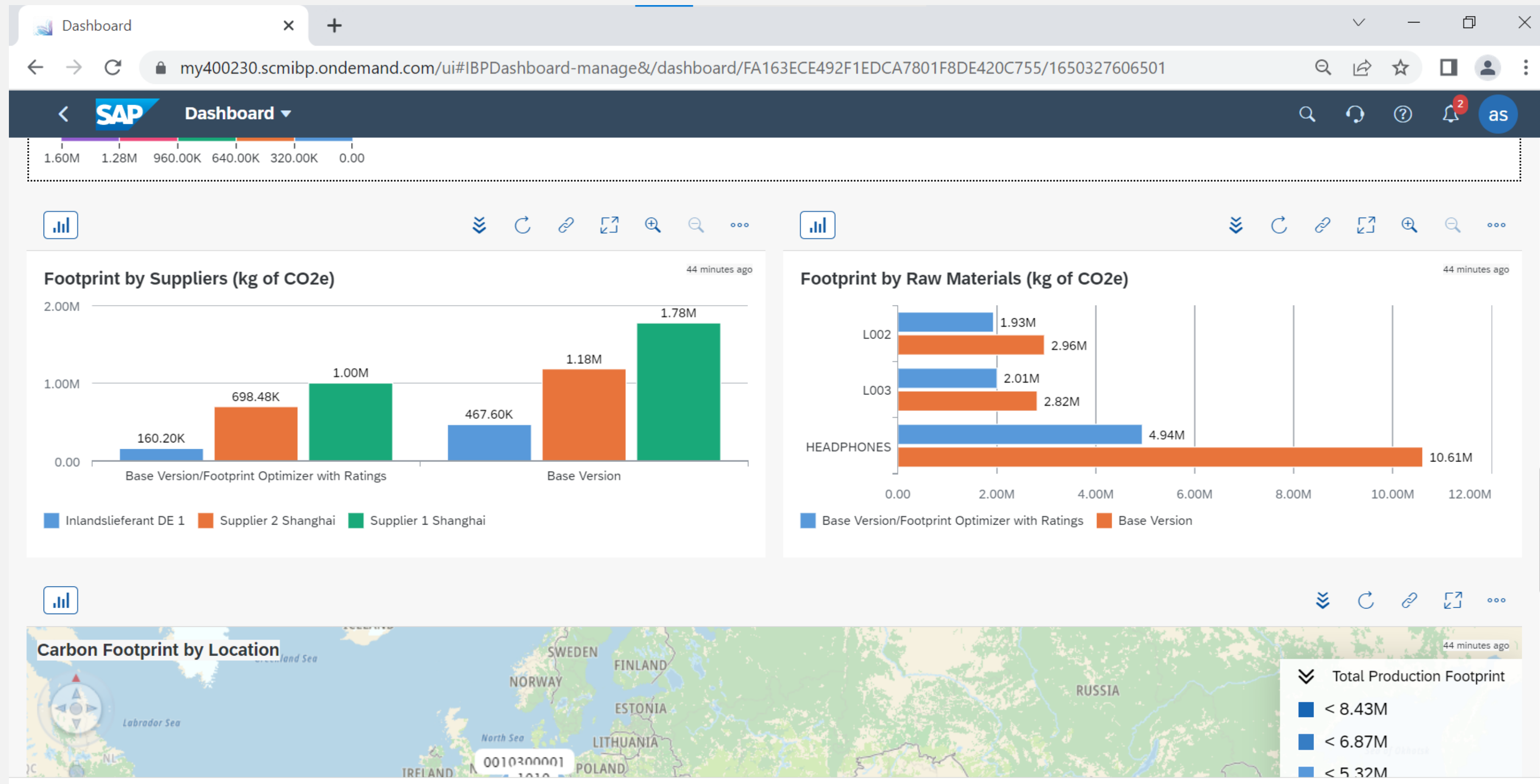
#1 NOT ONLY HISTORICAL: FORECAST CARBON FOOTPRINT TRENDS BY SCOPE TO SET SDG GOALS



#2 NOT ONLY PROFIT OPTIMIZATION: PLAN BASED ON CARBON FOOTPRINT AND GROSS MARGINS



#3 NOT ONLY PROCUREMENT COSTS: RESPONSIBLE SOURCING WITH SUPPLIER RATINGS



#4 NOT ONLY TOTAL FOOTPRINT VISIBILITY: SLICE AND DICE BY SOURCES OF CARBON FOOTPRINT

AutoSave Off 📄 ↶ ↷ 📄 🔍 Customer Transport 🔍 Search (Alt+Q)

File Home Insert Page Layout Formulas Data Review View Help **SAP IBP**

Disconnect

New View

Favorites

Edit View

(None)

Save Data

Simulate

Refresh

Go offline

Dashboard (0)

Master Data Workbook

Manage

Favorites

Planning Objects

Create

Manage

Connection Planning View Data Input Alerts Master Data Scenarios

M288

15128.934726

SAP Integrated Business Planning

Filters:

Attribute-Based Filter: (None) (0 criteria):

Value-Based Filter: (None):

Chart:

☐ Include Time Totals

☐ Average

☐ Filter Attribute Total

Series:

Footprint Optimizer with Ratings

Footprint Optimizer without Ratings

Baseline

Filter:

Total External Receipt Cost

External Procurement

Last Refresh: 2022-Apr-18 21:30

2M

1M

15K

89K

189K

537K

98K

209K

527K

184K

383K

75K

	Location	Product Group	Key Figure	Scenario	22-Apr	22-May	22-Jun	22-Jul	22-Aug	22-Sep	22-Oct	22-Nov	22-Dec	23-Jan	23-Feb	23-Mar
300	Supplier 1 Shanghai	L002	Receipts	Systems Optimization	179,136											
301	Supplier 1 Shanghai	L002	Receipts	Baseline		28,521		8,200	10,870		19,660		20,968		2,762	
302	Supplier 1 Shanghai	L002	Total External Receipt Footprint	Systems Optimization	1,791,361											
303	Supplier 1 Shanghai	L002	Total External Receipt Footprint	Baseline		456,339		106,598	217,391		312,227		277,989		38,669	
304	Supplier 1 Shanghai	L002	Total External Receipt Cost	Systems Optimization	1,074,817											
305	Supplier 1 Shanghai	L002	Total External Receipt Cost	Baseline		85,564		24,599	32,609		58,981		62,904		8,286	
306	Supplier 1 Shanghai	L003	Receipts	Systems Optimization	12,795	132,220										
307	Supplier 1 Shanghai	L003	Receipts	Baseline	25,130		11,461	2,930	6,144	18,656	11,000	10,935		12,795		
308	Supplier 1 Shanghai	L003	Total External Receipt Footprint	Systems Optimization	179,136	1,480,006							392,393			
309	Supplier 1 Shanghai	L003	Total External Receipt Footprint	Baseline	351,822		160,448	41,024	104,442	298,496	153,998	196,824		191,932		
310	Supplier 1 Shanghai	L003	Total External Receipt Cost	Systems Optimization	38,386	652,567							213,257			
311	Supplier 1 Shanghai	L003	Total External Receipt Cost	Baseline	75,390		34,382	8,791	18,431	55,968	32,999	32,804		38,386		

Dashboard

my400230.scmibp.ondemand.com/ui#IBPDashboard-manage&/dashboard/FA163ECE492F1EDCA7801F8DE420C755/1650327606501

SAP Dashboard

🔍 ↶ ⌂ ? 🔔 as

Total Cost (USD)

17 minutes ago

8.00M

6.00M

4.00M

2.00M

0.00

5.55M

2.42M

3.79M

5.71M

2.40M

3.80M

Base Version/Cost based Optimization

Base Version/Systems Optimization

Total External Receipt Cost

Total Production Cost

Total Customer Transportation Cost

Total Footprint (kg of CO2e)

16 minutes ago

30.00M

20.00M

10.00M

0.00

18.11M

18.95M

6.12M

12.87M

18.81M

6.12M

Base Version/Cost based Optimization

Base Version/Systems Optimization

Total External Receipt Footprint

Total Production Footprint

Total Customer Transport

Average Total Cost per Unit

18 minutes ago

30.00

Average Total Footprint per Unit

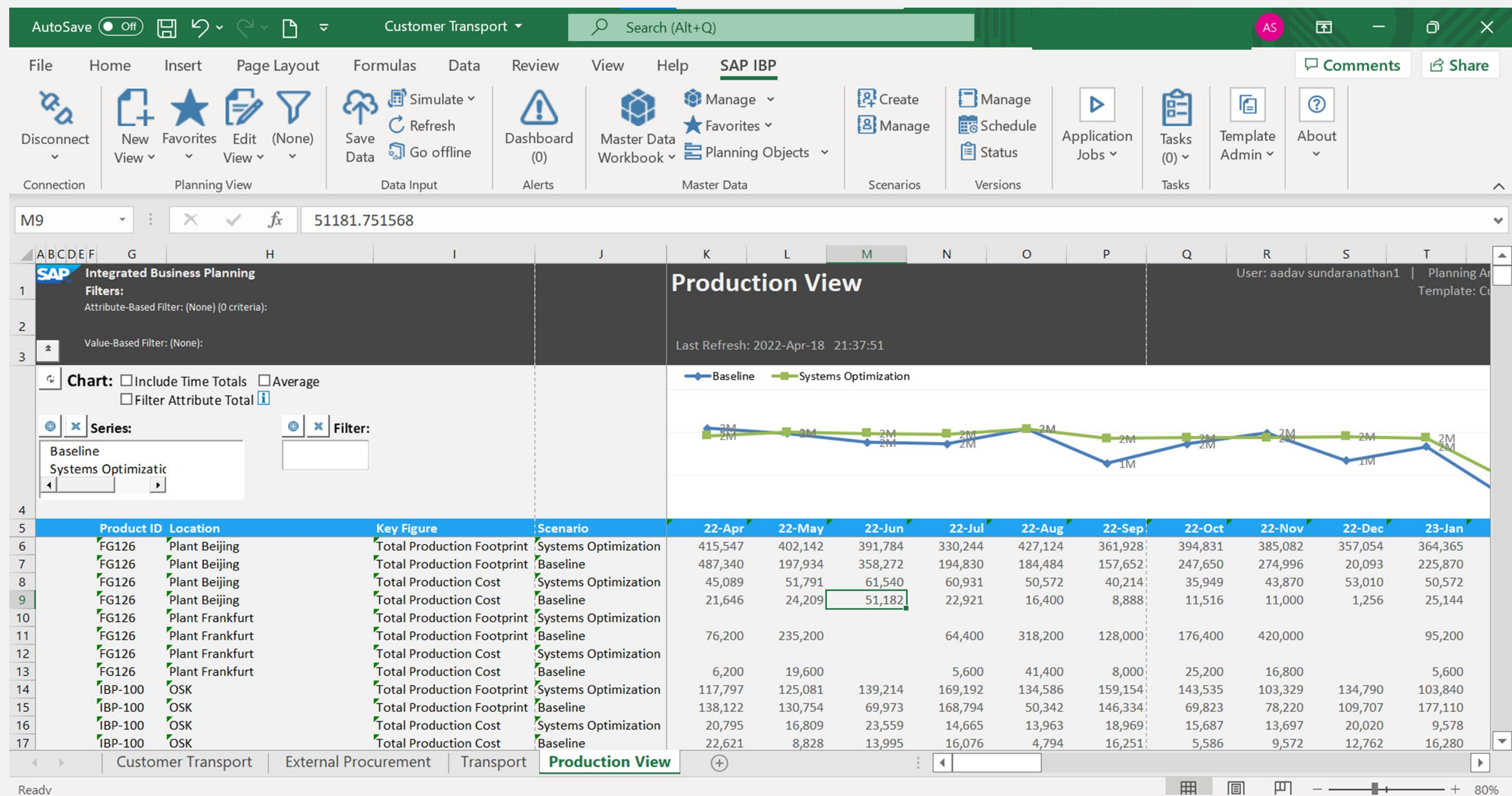
14 minutes ago

80.00

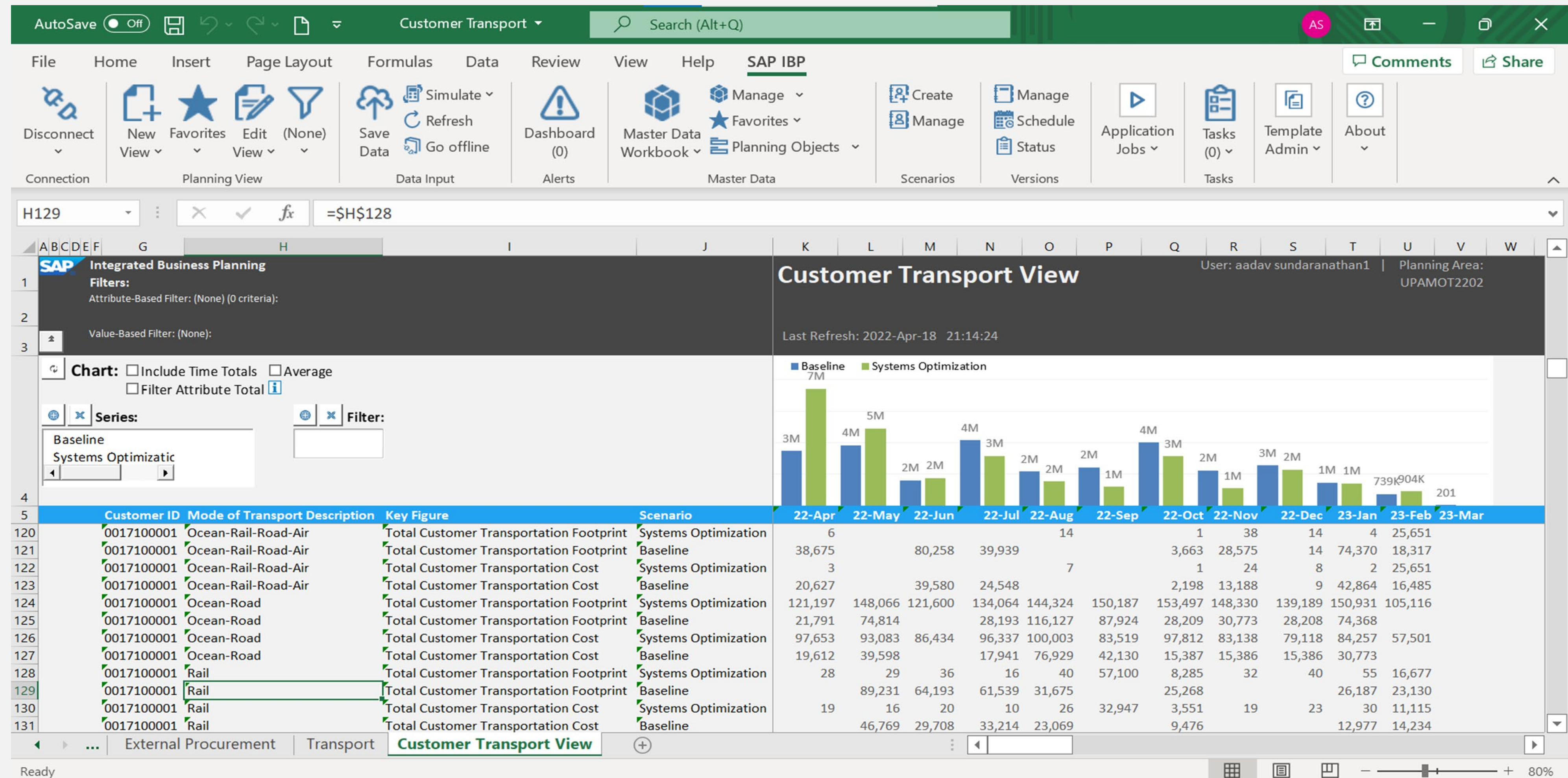
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#5 NOT ONLY EMISSIONS OPTIMIZATION: WHAT-IF SCENARIOS TO COMPARE COSTS AND EMISSIONS



#6 NOT ONLY PRODUCTION EMISSIONS: OPTIMIZE FOOTPRINT BY TRANSPORT LANES



SUSTAINABILITY PLANNING

Carbon Footprint based Optimizer

- Overall Footprint
- Costs: Production + Transportation + Holding + Carbon

Available Methodologies



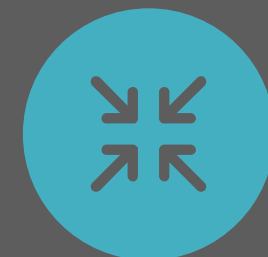
Decentralized

Sourcing Lane: Supplier to Plant
Supply Lane: Plant to Customer



Transportation Integrated

Decentralized Lanes integrated with Modes
of Transport and Transport Lot Size



End to end chain integration

End to end integration of emission lanes with
modes of transport and transportation lot sizes



Sustainable Supplier

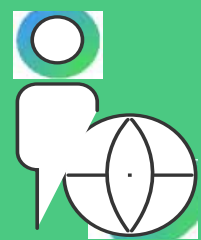
End to end chain integration combined with
Third-party supplier sustainability ratings for
optimizing sustainable sources of supply

SOLUTION FEATURES

Measure – Decarbonize - optimize



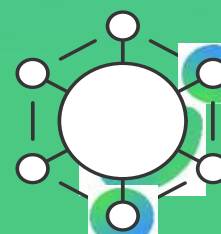
Capture and use existing data to create and assess carbon footprint, publish footprint information, import emission factors from LCA databases, calculation template to run mass calculations for product footprints



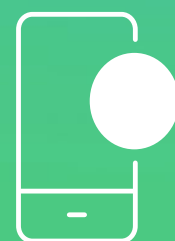
Prepare S&OP meetings with scenarios, what-if analysis including costs, revenues, profits and carbon footprint across the supply chain



Improve Environment management performance by incorporating carbon footprint and achieve your Sustainable Development Goals



Reduce risks by incorporating sustainability ratings and leveraging them for responsible sourcing plans



Gain visibility into emissions forecasts and scenario comparisons on Sustainable IBP Analytics and Dashboards



**Let's Keep The
Conversation Going**

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