

The Responsible Business Simulator

Security Statement

Data Classification: Public

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Introduction

This document describes the application that can be opened through <https://responsiblebusinesssimulator.pwc.nl>

Please contact us if you need help opening or preparing a demo.

Demo cases

When opening the demo version of tRBS you can access five cases:

- Beerwiser - a fictional beer brewer
- DSM - a case on renewable energy sourcing
- Refugees - how to accommodate refugees
- Amplino - about investment in malaria medication
- IZZ - a case on optimizing spend for increased well being of health care employees

Create and account or login in

When going to the tRBS you will access the landing page and you can sign in using PwCs Multi Factor Authentication method (MFA) if an account has been created for you.

Click on the link and you will be redirected to the MFA procedure.

1. Fill in your e-mail address
2. Fill in your password
3. Follow the instructions to authenticate with your second factor (phone)

Once you are redirected to the tool you can read the terms and conditions and accept them.

Your first demo

When you are accessing the tool for the first time you need to go to *Case selection* in the menu on the left.

The box with the current selection shows if data is imported for the case you are looking at. Use the dropdown to select a case and hit *Save* to confirm.

Click the framework to get an overview of the steps of the Responsible Business Simulator.

If you want to create your own case this is explained in a later section.

When you have selected the case you want to view you can go to the *Import data* page

Current selection

Case	Data imported
IZZ	x

Select a case

IZZ

.. or investigate the framework

Diagram showing a flow of steps: Step 1: Select a case, Step 2: Load data, Step 3: Investigate the framework, Step 4: Validate input, Step 5: Generate outputs, Step 6: Review results, Step 7: Export data, Step 8: Close application.

Import data

The left side of the Import data page gives instructions on the Load and Import functionality.

Use the *Load* button to fill your demo case with data.

With the full version of tRBS you will also use this page to import an Excel template and validate your input.

Load or import data

1 Demo case selected: data available in database

OR

2 'Import Excel template' feature not available for demo users.

Template validation ☒ On ☐ Off

Once loading data is finished you can continue to the first step

x Loading is finished

Step 1

In step 1 you see the strategic challenge of the case.

Step 2

In step 2 you see the key outputs that came out of workshops and brainstorm sessions. The table displayed is filled using the Excel template or a preloaded case.

How to specify key outputs?

Several characteristics of key outputs, such as a short name, a long name, the corresponding theme, the unit, whether it should be appreciated as Smaller-the-Better (STB) should be specified.

Specify characteristics of key outputs

Save

Key Output	Subtheme	Theme	Unit	Two Sided	Stb	Monetary	Automatic	Linear	Start	End	Threshold
Accidents reduction	⌵	People	#/year	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Water use reduction	⌵	Planet	hl/year	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
Production cost reduction	⌵	Profit	%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>			

Step 3

In step 3 you can play around with the loaded internal variable inputs. Use the right section of the page to add or adjust internal variable inputs.

The shown table is a combination of drivers with type INTERNAL_INPUT and the driver values.

Specify decision maker's options

Internal variable input	Focus on water recycling	Focus on training	Equal spread
Invest in training of employees		50,000.0	250,000.0
Invest in water recycling	250,000.0	50,000.0	150,000.0

[Specify decision maker's options \(click to adjust\)](#)

Add new input

Internal variable input	Enter new variable	Save
Decision maker option	Enter new option	Save

Delete input

Internal variable	Invest in training of employees	Delete
Decision maker option	Focus on water recycling	Delete

Change value of input

Internal input	Invest in training of employees	Save
Decision makers option	Focus on water recycling	
Period	Total	
Value	Enter new value	
For all periods	<input type="checkbox"/>	

Step 4

In step 4 you can play around with the loaded external variable inputs. The shown table is a combination of drivers with type EXTERNAL_INPUT. Use the right section of the page to add or adjust internal variable inputs

Specify scenarios

External variable input	Base case	Optimistic	Pessimistic
Cost of accident	15,000.0	12,000.0	20,000.0
Effectiveness water recycling	0.98	1.0	0.9

[Specify decision maker's options \(click to adjust\)](#)

Add new input		
Internal variable input	Enter new variable	Save
Decision maker option	Enter new option	Save

Delete input		
Internal variable	Invest in training of employees ▼	Delete
Decision maker option	Focus on water recycling ▼	Delete

Change value of input		
Internal input	Invest in training of employees ▼	Save
Decision makers option	Focus on water recycling ▼	
Period	Total ▼	
Value	Enter new value	
For all periods	<input type="checkbox"/>	

Step 5

Go to first construction step	Run model	Go to first validation step
Construction Build the simulation model based on the following inputs: - Fixed inputs - Intermediates - Additional outputs - Dependencies	Calculate the model results with the button above By calculating the model the results for key outputs and appreciations are determined for selected weights.	Validation There are two ways to validate the simulation model: 1) Key output values 2) The inspection of the appreciations

Use this step to verify your uploaded data and hit the run button in the middle of the screen to calculate your model outcomes. Use the right side of the page to go over the validation steps.

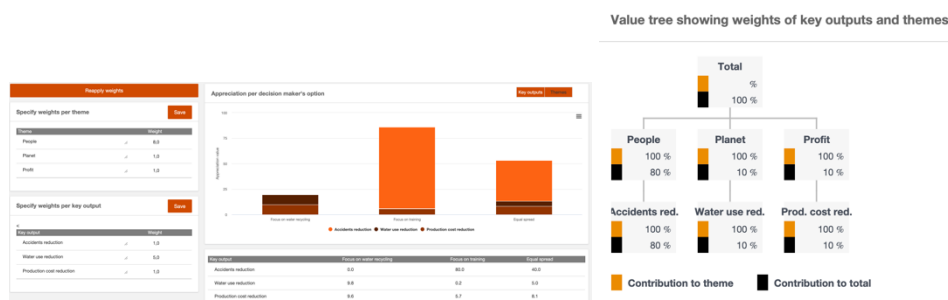
Step 6

Go to Assign priorities	Go to Compare priorities
Comparing options - If needed, adjust your strategic priorities as you prefer. - Evaluate the different decision makers options.	Visualizing strategic priorities - Get more insight in how the key-outputs contribute to the aggregated option value by means of a value tree.

In step six you validate you results. You can click to one of the four subpages of step six.

The weights can be adjusted in the page *Assign priorities*. Change the numbers next to the key outputs and themes and click save. Then click the button *Reapply weights* to re-evaluate the model with the new weights.

The page *Compare priorities* shows the tree with weights of the KPIs and themes resulting from the choices of weights in *Assign priorities*.



The other two sub steps of step 6 are to optimize the simulation and to show visuals for cases with KPIs and sub KPIs.

Optimization	Go to Optimization	Compare the options	Go to Compare options
<ul style="list-style-type: none"> - Set boundaries and constraints . - Optimize the decisionmakers option. 		<ul style="list-style-type: none"> - Get more insight in how key-outputs contribute to the themes by means of pie and bar charts 	

Step 7

Assign weights to the scenarios to incorporate your risk appetite.

How to reflect risk appetite?

Scenario weights reflect the risk appetite of the decision maker. E.g., putting more weight on a pessimistic scenario means that the optimal decision is geared more towards a negative outlook. In the next table, these scenario weights can be specified. By pressing the "Calculate appreciations" button, appreciations per scenario and overall are displayed.

Specify scenario weights

Scenario	Weight
Base case	1,0
Optimistic	1,0
Pessimistic	1,0

Save

Appreciation per decision maker's option per scenario

Option	Base case	Optimistic	Pessimistic
Focus on water recycling	~15	~15	~15
Focus on training	~85	~85	~85
Equal spread	~55	~55	~55

Appreciation per decision maker's option including risk appetite

Option	Weighted scenario
Focus on water recycling	~15
Focus on training	~85
Equal spread	~55

Summary

The summary page shows an overview of your case and has all the elements of the 7-step Responsible Business Simulator framework. The panel on the right can be folded to hide and give a more clear overview of the summary page. In this panel you can adjust the weights. Please not that you need to confirm after adjusting before hitting the button *Reapply weights*.

Responsible Business Simulator

Executive summary

Hide adjustment panel

The strategic challenge
How to ensure a sustainable production process?

Key outputs - Which indicators do you use to evaluate the impact of your decision(s)?

- People: Accidents reduction
- Planet: Water use reduction
- Profit: Production cost reduction

Options - Options Which options do you have to influence your impact?

- Focus on water recycling
- Focus on training
- Equal spread

Scenarios - Which uncertainty do you want to account for?

- Base case
- Optimistic

Key output values per DMO

Key output	Focus on water recycling	Focus on training	Equal spread	Unit
Accidents reduction	0.03	17.44	10.47	#/year
Water use reduction	6,087,815.18	1,336,363.64	4,008,090.91	lit/year
Production cost reduction	0.01	0.00	0.01	%

Comparison of options

Key outputs Themes

Option	People	Planet	Profit
Focus on water recycling	~15	~15	~15
Focus on training	~85	~85	~85
Equal spread	~55	~55	~55

Appreciation per decision maker's option including risk appetite

Option	Weighted scenario
Focus on water recycling	~15
Focus on training	~85
Equal spread	~55

Change category

Total Confirms

Reapply weights

Change key outputs weights

Max key output weight: 10 Save

Accidents reduction 1

Water use reduction 1

Production cost reduction 1

Confirms

Change theme weights

On Confirms

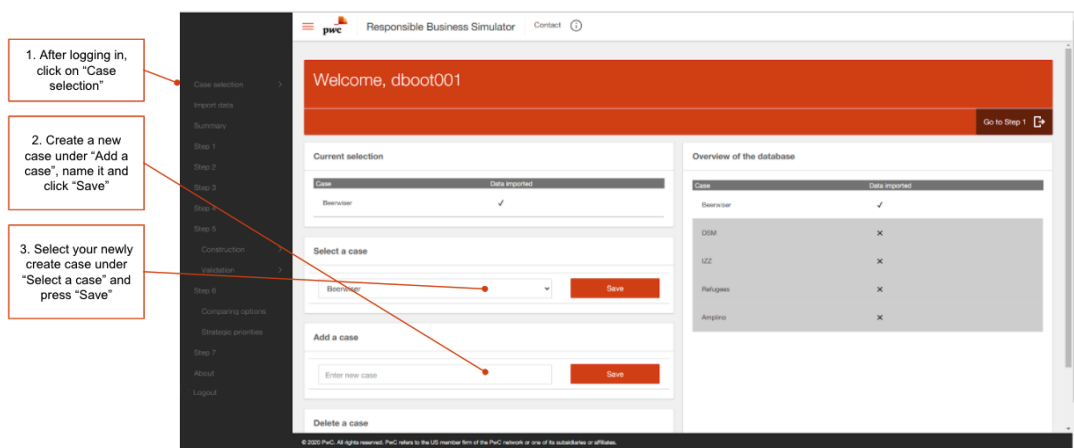
Max theme weight: 10 Save

People 1

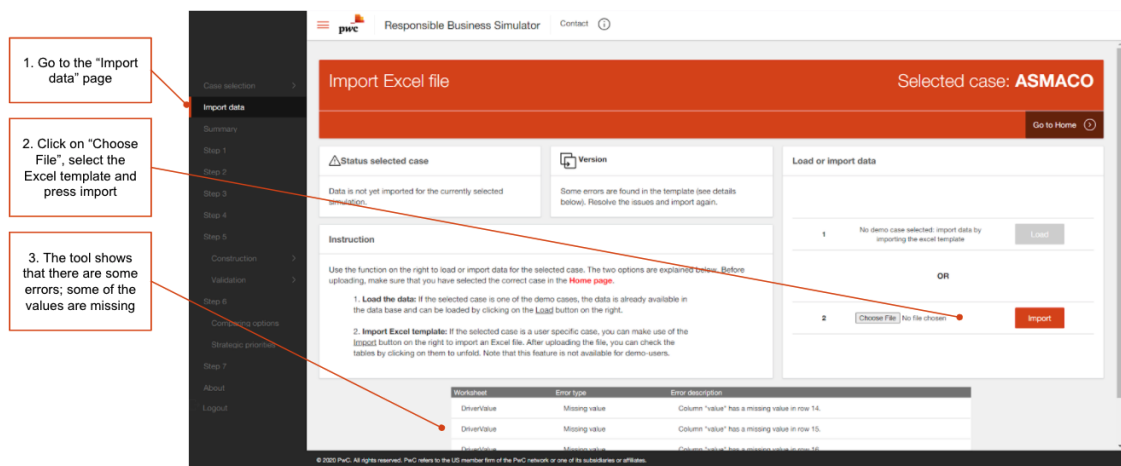
Planet 1

Create your own case

When in the *Case selection* page you can create your own (uniquely named) case that is automatically selected. Please be aware after creating your case you need to import an Excel sheet in the page *Import data*.

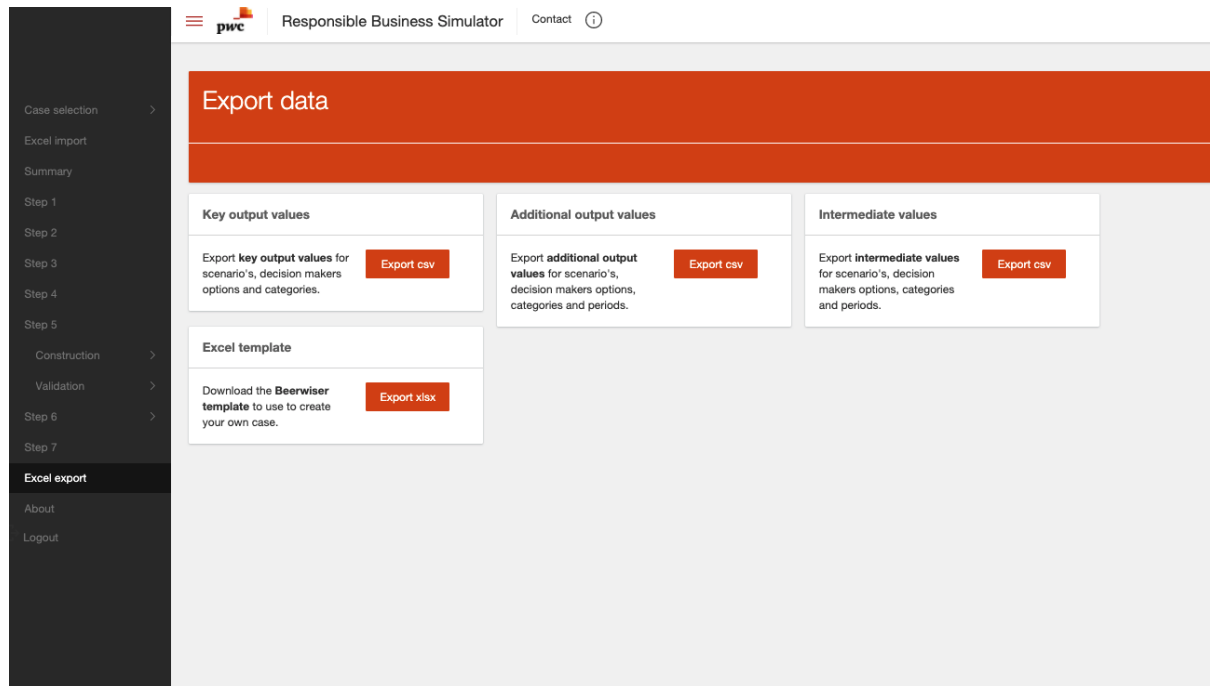


In

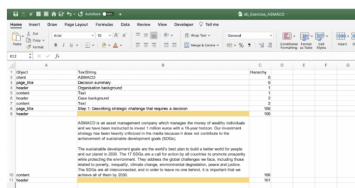


Create your own template

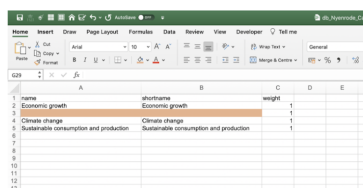
Use as a basis an existing template, for example download the Beerwiser from the Excel Export date. Then start filling the template for your own case.



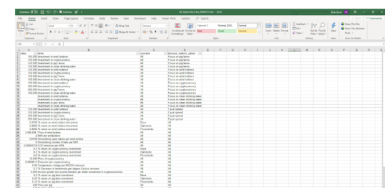
FrontEndDescriptions should be filled with case specific information. Important fields are language: NL/EN. This adjusts several generic buttons in the tool.



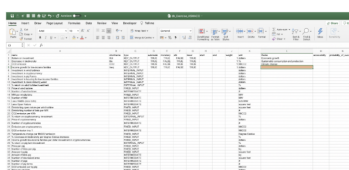
FrontEndDescription



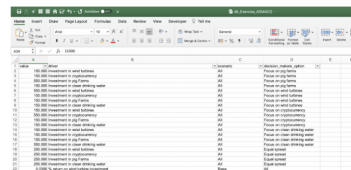
Theme



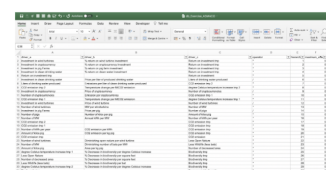
DecisionMakersOption / Scenario



Driver



DriverValue



Dependency

Then the sheets Theme, Driver, DecisionmakersOption, Scenario, DriverValue and Dependency should be filled.

Please take care of the following:

- Sheets should always be in this order and with the exact names:
 - FrontEndDescription
 - Theme,
 - Driver,
 - DecisionMakersOption,
 - Scenario,
 - DriverValue
 - Dependency
- Variables referring to each other between sheets (for example drivers and driver_values) should have identical names
- No additional columns should be added
- No additional empty rows should be added
- Sometimes Excel perceives touching a row or column as placing a value there. This might lead to errors in the validation of seemingly empty rows or columns. To resolve this please select all the rows below or columns to the right of the actual data and delete those (ctrl + '-').