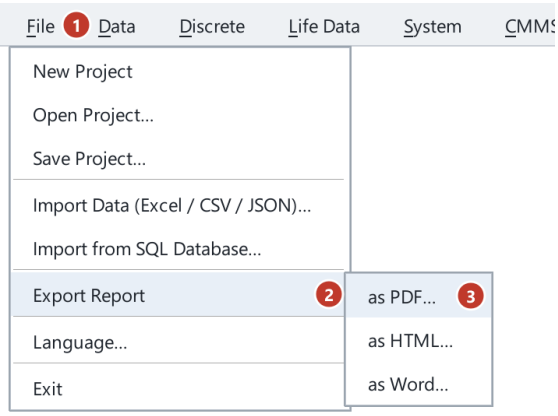
Reports: choosing a report and exporting it as PDF, HTML or Word

Menu: File ▸ Export Report ▸ as PDF… · as HTML… · as Word…

Part 1 — What the function does

What it does. Every analysis you calculate makes a report: a page of cards with the inputs, the results, the plots and the interpretation, shown in the Report tab and kept in the project, listed in Navigation. File ▸ Export Report writes the report shown in the Report tab to a file someone without ReliaEn can read: an A4 PDF, one self-contained HTML page, or a Word document.



The menu path File ▸ Export Report ▸ as PDF…

- ① File: the menu.
- ② Export Report: the submenu with the three formats, as PDF…, as HTML… and as Word….
- ③ as PDF…: the format of this chapter's example.

Format	What you get
PDF	An A4 document of one or more pages, ready to print or attach
HTML	One page that opens in any web browser; every plot is inside the file, so the page needs no other file
Word	A .docx document whose text and plots can be edited further

From which data. The report shown in the Report tab. The export reads the report as it is; nothing is calculated again.

When an engineer uses it. To send a result to a colleague, a manager or a customer, or to file it with a maintenance record.

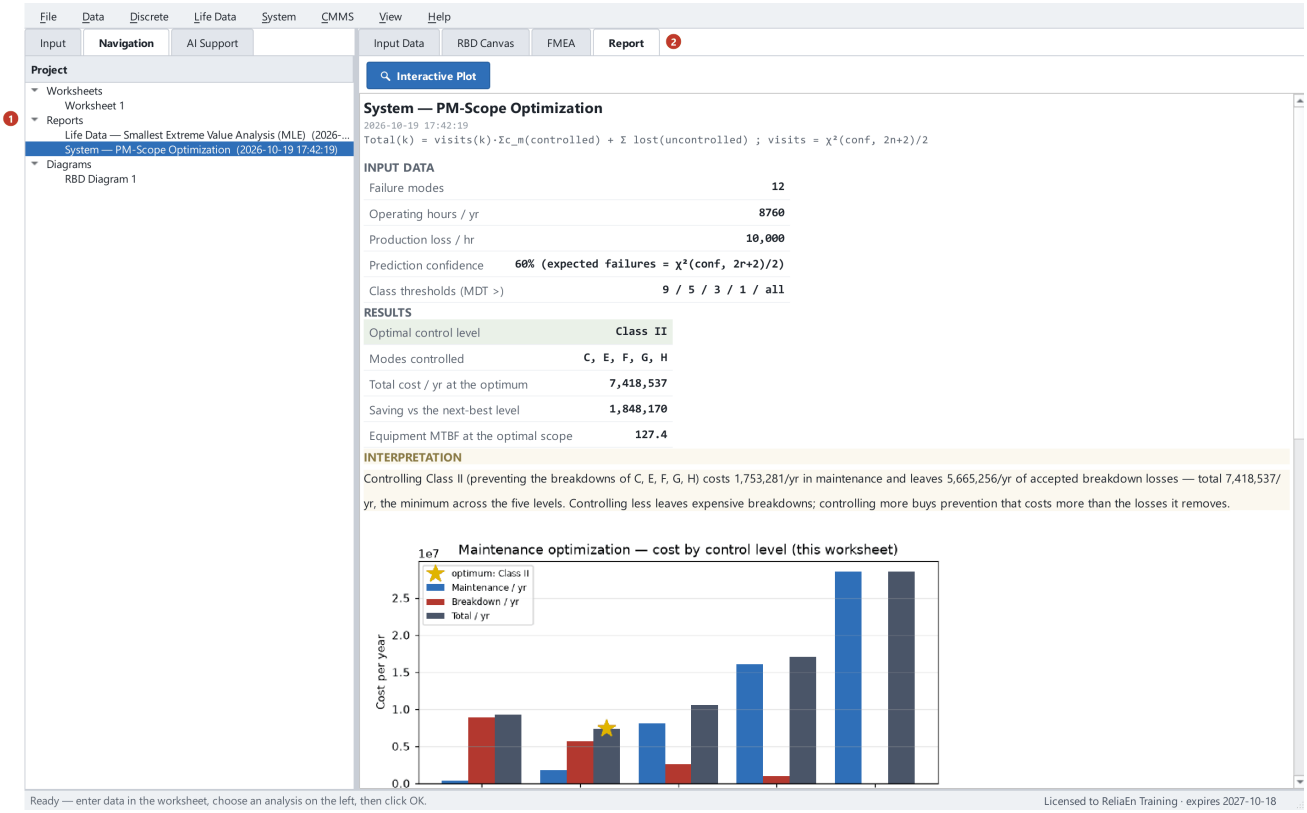
When not to use it.

Situation	Use instead
The colleague has ReliaEn and should also get the data	File ▸ Save Project…: the whole project in one file (chapter 1.4)
No analysis has been calculated yet	Calculate one first: the export says No report to export — run an analysis first.

Part 2 — The example's input data

Setting. A maintenance planner has the PM-scope study of a production line in the project of chapter 1.2 and is to send its result to the plant manager as a PDF.

Input	Value
File in the worked-example zip	1-Projects/Example-1.rlen
The report to export	System — PM-Scope Optimization, the project's second report
The file to write	PM-Scope.pdf

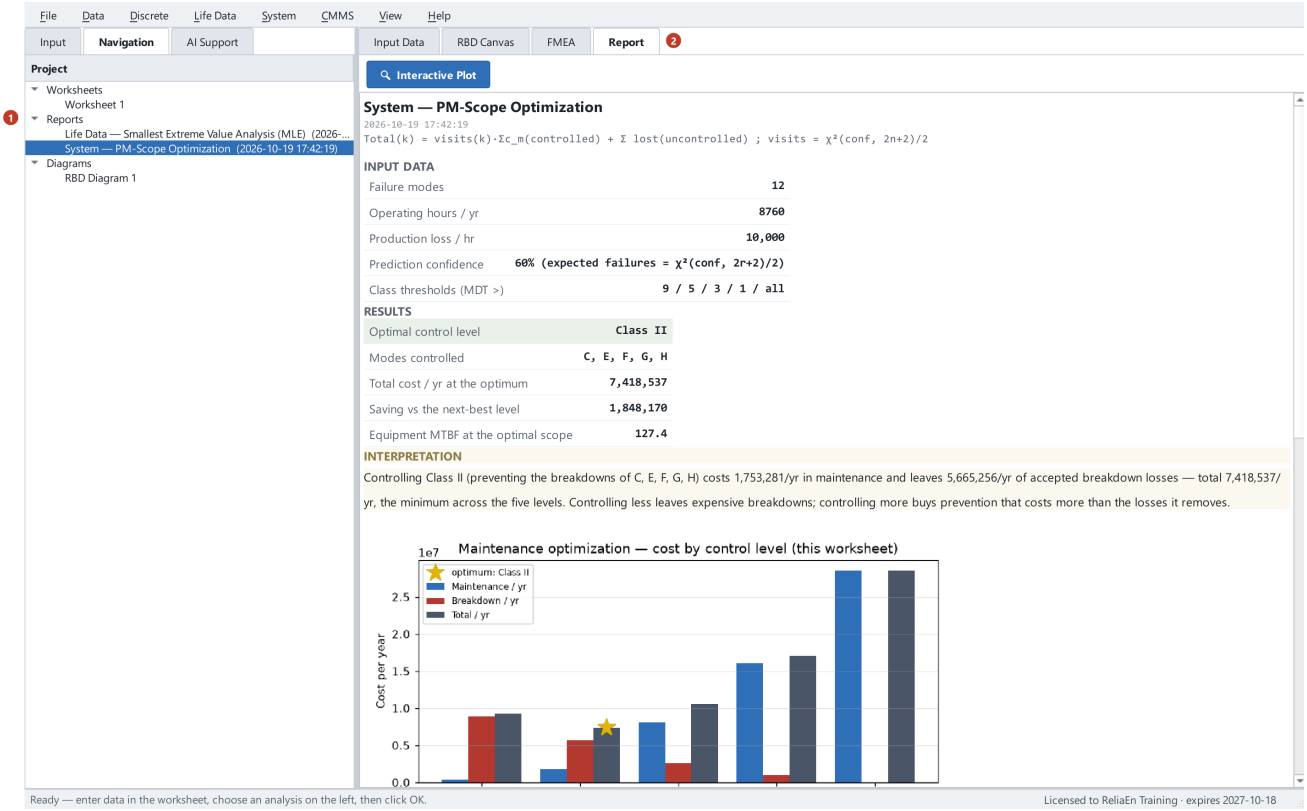


The PM-Scope report in the Report tab

- ① Navigation's Reports: the second entry, System — PM-Scope Optimization, chosen.
- ② The main tabs: the Report tab in front, showing that report.

Part 3 — How to use it, step by step

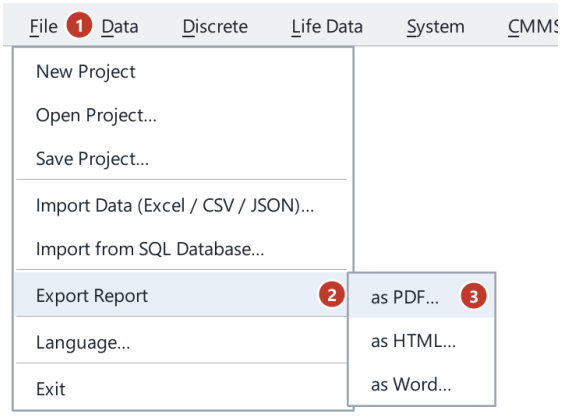
1. **Open Example-1.rlen (File ▸ Open Project..., chapter 1.4) and click System — PM-Scope Optimization once in Navigation.** The report appears in the Report tab.



Step 1 — the report chosen

- ① The report's entry in Navigation.
- ② The Report tab showing it.

2. **Choose File ▸ Export Report ▸ as PDF....**

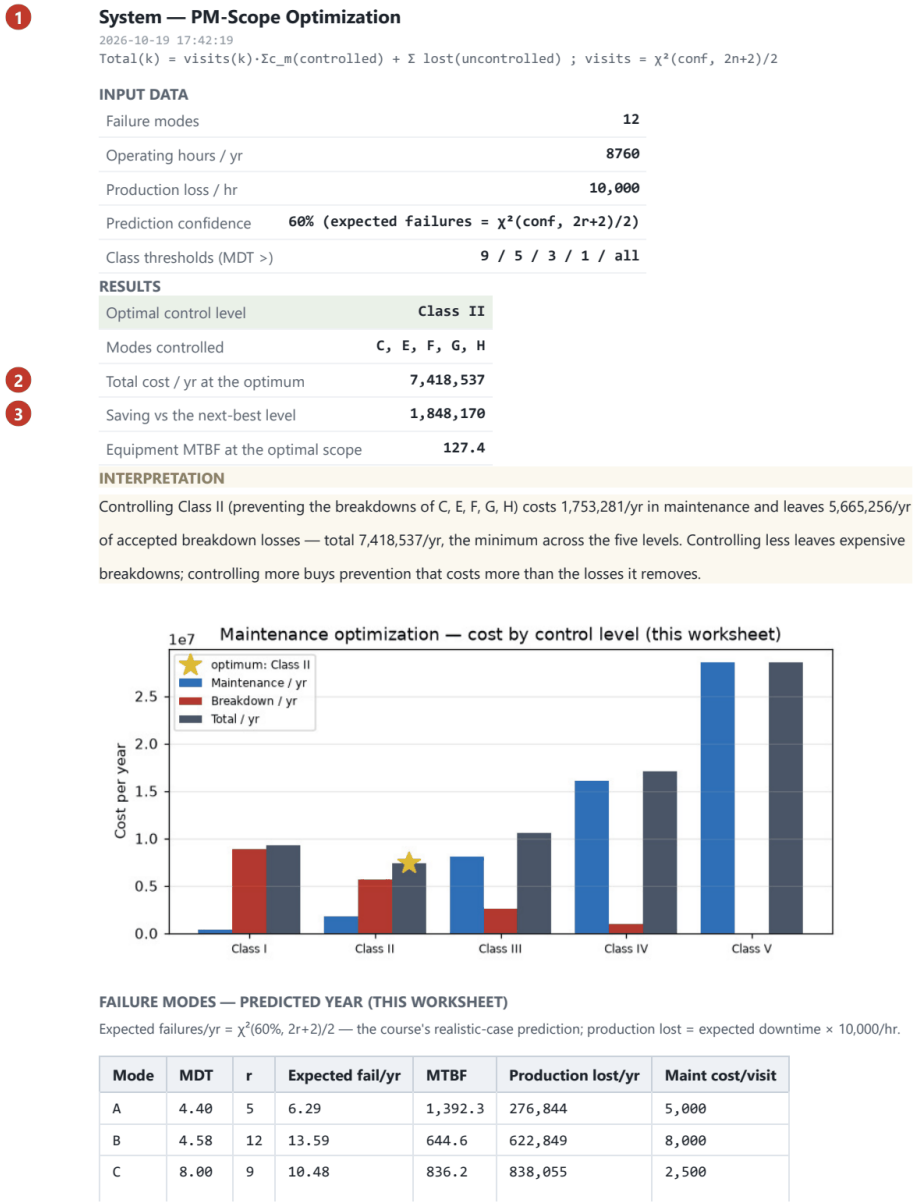


Step 2 — the menu path

- ① File.
- ② Export Report.
- ③ as PDF...: the entry to click.

3. ③ **In the file chooser Export report, type the name PM-Scope.pdf and click Save.** The chooser offers report.pdf and lists PDF (*.pdf) files. ReliaEn writes the file; the status line reads Exported followed by the file's full path.

Part 4 — The result



System — PM-Scope Optimization

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Total(k) = visits(k)·Σc_m(controlled) + Σ lost(uncontrolled) ; visits = χ²(conf, 2n+2)/2

INPUT DATA

Failure modes	12
Operating hours / yr	8760
Production loss / hr	10,000
Prediction confidence	60% (expected failures = χ²(conf, 2r+2)/2)
Class thresholds (MDT >)	9 / 5 / 3 / 1 / all

RESULTS

Optimal control level	Class II
Modes controlled	C, E, F, G, H
Total cost / yr at the optimum	7,418,537
Saving vs the next-best level	1,848,170
Equipment MTBF at the optimal scope	127.4

INTERPRETATION

Controlling Class II (preventing the breakdowns of C, E, F, G, H) costs 1,753,281/yr in maintenance and leaves 5,665,256/yr of accepted breakdown losses — total 7,418,537/yr, the minimum across the five levels. Controlling less leaves expensive breakdowns; controlling more buys prevention that costs more than the losses it removes.

FAILURE MODES — PREDICTED YEAR (THIS WORKSHEET)

Expected failures/yr = χ²(60%, 2r+2)/2 — the course's realistic-case prediction; production lost = expected downtime × 10,000/hr.

Mode	MDT	r	Expected fail/yr	MTBF	Production lost/yr	Maint cost/visit
A	4.40	5	6.29	1,392.3	276,844	5,000
B	4.58	12	13.59	644.6	622,849	8,000
C	8.00	9	10.48	836.2	838,055	2,500

Page 1 of PM-Scope.pdf

- ① The report's title line, System — PM-Scope Optimization.
- ② 7,418,537: the total cost a year of the recommended level, Class II, which controls the failure modes C, E, F, G and H.
- ③ 1,848,170: the saving a year against the next-best level, Class I.

The file is an A4 PDF that holds the whole report: every card, number and plot as the Report tab shows it.

Part 5 — How to interpret the results

The file is the report, not a new calculation. The PDF holds what the Report tab showed when you exported: the same numbers, to the same digits. A report calculated last month exports with last month's numbers, even if the worksheet has changed since; calculate again to export new ones.

Which report is exported. Always the one in the Report tab. Choose it in Navigation first; one click shows it.

The other two formats. as HTML… writes one page with every plot inside it, so the page can be mailed alone; as Word… writes a document whose text holds the same figures. Both offer report.html or report.docx.

When the export cannot complete. A folder that cannot be written to is reported in the box Export failed, and no file is written. Cancel in the file chooser writes nothing.