

Predictive Repairs and Asset Investment

Sample output

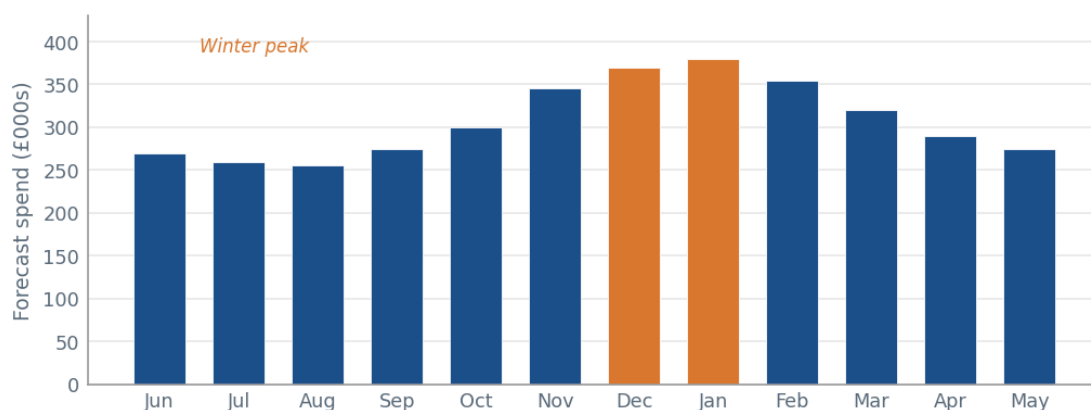
Illustrative example using synthetic data

This sample shows the output of the model run on a synthetic portfolio of 4,200 homes. It forecasts responsive repairs demand and expenditure, and predicts which components are most likely to fail and when, so investment can be targeted and budgets set from a forecast rather than last year's outturn. The figures here are illustrative; your own output would be generated from your asset, repairs and survey data.

4,200 homes in portfolio	£3.7m forecast repairs spend, next 12 months	540 components flagged for early renewal
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Forecast spend

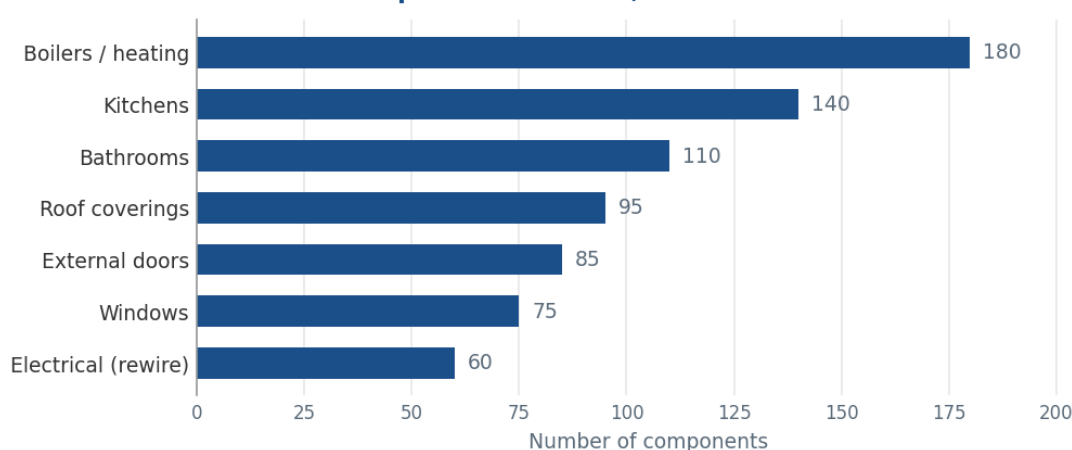
Forecast responsive repairs expenditure, next 12 months



The forecast shows expected monthly spend on responsive repairs, including the winter peak driven by heating and weather-related failures. Setting the budget against this profile, rather than a flat twelfth of last year, improves cash planning and reduces year-end surprises.

Where investment is needed

Predicted component renewals, next 24 months



Predicting component failure lets planned investment follow likelihood rather than standard lifecycle. The model also flags components that can be safely deferred beyond their scheduled renewal, releasing budget to the homes that need it sooner.

Priority components

The ten components most in need of attention in the synthetic portfolio, with predicted failure window, estimated cost and a suggested action. The full output covers every component across the stock.

Property ref	Component	Installed	Predicted failure	Est. cost	Suggested action
H-04821	Gas boiler	2009	Within 6 months	£2,400	Bring forward replacement
H-02934	Roof covering	1998	6-12 months	£8,500	Schedule survey and renewal
F-01130	Kitchen	2008	Within 6 months	£6,000	Add to next programme
H-05612	Bathroom	2007	6-12 months	£4,500	Add to next programme
M-00845	Electrical rewire	1996	Within 6 months	£4,000	Inspect; prioritise
H-04190	Windows	2004	12-18 months	£5,500	Plan for next cycle
F-03307	Gas boiler	2010	6-12 months	£2,400	Schedule replacement
H-01077	Roof covering	2001	12-18 months	£8,000	Survey; monitor
H-03980	Heating system	2008	6-12 months	£3,200	Schedule renewal
F-02250	External doors	2006	18-24 months	£1,800	Defer; monitor

How to read this

Each property and component is assessed for the likelihood and timing of failure, using the asset register, stock-condition surveys, repairs history and planned maintenance programme. Repairs demand and expenditure are forecast at portfolio level. Forecasts are recalibrated as new data accrues.

This is a worked example on synthetic data, produced to show the format and type of insight. The figures should not be read as sector benchmarks.

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