

# Supplementary Materials – Algorithmic Legislators (GIQ)

This document inventories supplementary artefacts and maps them to manuscript elements.

## Figures (static and interactive)

Figure 1 (static): figures/figure1\_tradeoff.png

Figure 1 (interactive): figure1\_tradeoff\_GIQ.html and submission/supplementary/figure1\_tradeoff\_GIQ.html

Figure 2 (static): figures/figure2\_dynamics.png

Figure 2 (interactive): figure2\_dynamics\_GIQ.html and submission/supplementary/figure2\_dynamics\_GIQ.html

Figure 3 (static): figures/figure3\_spatial.png

Figure 3 (interactive): figure3\_spatial\_GIQ.html and submission/supplementary/figure3\_spatial\_GIQ.html

Figure 4 (static): figures/figure4\_interaction.png

Figure 4 (interactive): figure4\_interaction\_GIQ.html and submission/supplementary/figure4\_interaction\_GIQ.html

## Tables and Data Outputs

summary\_statistics\_GIQ.csv; table1\_main\_results.csv; pareto\_frontier\_GIQ.csv; supp\_dense\_grid.csv; supp\_do\_interventions.csv; supp\_transparency\_factorial.csv.

## Scenario Definitions

Seven scenarios (baseline; AI=0.2 with/without transparency; AI=0.3 with/without transparency and adaptation; AI=0.5 with transparency and adaptation); 10 replicates; 50 steps.

## Metric Notes

Trust (consistency, transparency effectiveness, alignment); Performance (pass rate, representativity, stability); Discovered inconsistency.

## Reproducibility Pointer

See COMPUTATIONAL\_APPENDIX\_GIQ.pdf for environment, seeds, and commands.