

# **PPP Metrics & Outcome Evaluation Guidance**

## **Preventive Public Policy (PPP)**

### **Framework for Measurement, Monitoring, and Long-Term Outcome Verification**

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## 1. Purpose of the Guidance

This document establishes the formal measurement and evaluation framework for Preventive Public Policy (PPP). Its purpose is to ensure that preventive interventions are not only theoretically efficient but empirically verifiable, transparently monitored, and institutionally accountable over extended time horizons.

Preventive governance requires disciplined metrics. Without structured outcome evaluation, long-horizon fiscal claims risk becoming speculative. This guidance formalises how PPP interventions are to be measured, stress-tested, and reviewed.

## 2. Core Measurement Principles

PPP evaluation rests on five core principles:

- Fiscal measurability
- Behavioural observability
- Institutional accountability
- Time-horizon consistency
- Counterfactual comparability

All preventive interventions must demonstrate measurable impact relative to a defined baseline scenario.

## 3. Metric Categories

PPP metrics are grouped into four primary domains:

### A. Fiscal Metrics

- Net Present Value (NPV)

- Preventive Fiscal Efficiency (NPFE)

- Annual avoided expenditure

- Lifecycle capital cost ratios

- Break-even horizon

#### B. Behavioural Metrics

- Participation rates

- Adherence/compliance rates

- Drop-off curves over time

- Behavioural decay modelling

#### C. Institutional Metrics

- Delivery capacity

- Procurement efficiency

- Administrative overhead ratio

- Governance compliance benchmarks

#### D. Social Outcome Metrics

- Risk incidence reduction

- Productivity gains

- Health or education improvement indices

- Distributional impact measures

#### 4. Counterfactual Construction

All PPP interventions must specify a counterfactual scenario. This includes:

- Status quo cost trajectory
- Projected compounding risk accumulation
- Alternative intervention comparison
- Sensitivity to external shocks

Preventive claims are evaluated relative to this baseline, not in isolation.

#### 5. Time Horizon Discipline

Preventive policies operate across extended timeframes. PPP evaluation requires:

- Explicit time horizon declaration (T)
- Discount rate specification (r)
- Political discount sensitivity ( $r_p$ )
- Multi-period reporting intervals

Short-term performance indicators must not displace long-term outcome verification.

#### 6. Threshold and Frontier Monitoring

PPP requires identification of critical viability thresholds:

- Minimum effectiveness levels
- Maximum sustainable capital lifecycle cost

- Required adherence rates
- Discount-rate tolerance bands

Monitoring must detect early movement toward inefficiency boundaries.

## 7. Data Integrity and Transparency

All metrics must be:

- Publicly documented
- Replicable
- Based on verifiable data sources
- Subject to periodic independent review

Transparent modelling strengthens institutional credibility and fiscal trust.

## 8. Feedback and Adaptive Adjustment

Preventive governance must incorporate feedback loops:

- Annual metric review
- Mid-horizon structural reassessment
- Parameter recalibration where required
- Sunset or redesign triggers if thresholds are breached

Evaluation is not static; it is adaptive.

## 9. Reporting Structure

Each PPP intervention must publish:

- Baseline assumptions
- Parameter sensitivity analysis
- Annual performance dashboard
- Updated NPV trajectory
- Threshold proximity indicators

This ensures fiscal realism rather than rhetorical optimism.

## 10. Final Conclusion

PPP Metrics & Outcome Evaluation Guidance ensures that preventive public policy remains evidence-based, parameter-disciplined, and institutionally accountable.

Preventive governance succeeds only when its performance can be measured, stress-tested, and transparently verified across fiscal, behavioural, and institutional dimensions.

This framework converts preventive doctrine into measurable governance architecture.