

WALKING THE TIGHTROPE: CANADA'S FINANCIAL REGULATORY SCORECARD, YEAR THREE

by Gherardo Caracciolo

APPENDIX A: TABLE 1 – THE UPDATED SCORECARD

No.	Document	Failure/Risk	Goals	Mention Cost-Benefit Analysis/ Consideration of Costs
1	FSRA: MB0051INT Mortgage Agent and Mortgage Broker Licensing Suitability	X Market Abuse	X Stability/ Consumer Protection	NO
2	FSRA: GR0012APP Guidance on the use of proceeds from enforcement under Ontario regulation 554/21	X Asymmetric Information	X Consumer Protection/ Integrity and confidence	NO
3	FSRA: GR0013APP Enforcement: General Administrative Monetary Penalties Guidance	X Market Abuse/ Market Integrity	X Confidence/ Transparency/ Market Conduct	NO
4	FSRA: GR0011APP Transparent Communication of FSRA Enforcement Action	X Market Abuse/ Asymmetric Information	Consumer Protection/ Transparency/ Confidence/ Market Conduct	NO
5	FSRA: GR0013INF	X Asymmetric information/ Reputational risk	X Consumer Protection/ Transparency	NO
6	FSRA: GR0014APP Principles-based Regulation	X Regulatory Burden	X Market Conduct/ Innovation/Confidence/ Resilience/Efficiency	N/A
7	FSRA: GR0017APP Public warning notices	X Market Abuse	X Consumer Protection/ Confidence/ Market Integrity	NO
8	FSRA: AU0136APP Reporting and resolution of rating and underwriting errors	X Asymmetric Information/Market Abuse	X Transparency/Consumer Protection/Compliance	NO
9	FSRA: AU0131INT Auto Insurance – Consumer Relief during A Declared Emergency under the Emergency Management and Civil Protection Act	X Asymmetric Information	X Transparency/Consumer Protection	NO



10	FSRA: GR0008APP Fair Treatment of Customers in Insurance	X Asymmetric Information	X Transparency/ Consumer Protection	NO
11	FSRA: AU0128APP Approval of Electronic Insurance Card	X Asymmetric Information	X Consumer Protection	NO
12	FSRA: AU0129DEC	X Market abuse/ compensation risk	X Consumer Protection	NO
13	FSRA: AU0126APP Standard Filing	X Regulatory Burden	X Efficiency/ Competition	NO
14	FSRA: AU0138APP Automobile insurance non-standard forms, endorsements and certificates of insurance approval filing process	X Regulatory Burden	X Market Health/ Efficiency/ Consumer Protection	NO
15	FSRA: GR0018DEC Guidance – Auto Insurance	X Market Abuse	X Consumer Protection/ Promote Competition/ Transparency	NO
16	FSRA: AU0130APP Innovative Auto Insurance Products - Subscriptions ("IAIP-S")	X Regulatory Burden	X Consumer Protection/ Innovation	NO
17	FSRA: GR0010APP Test and Learn Environments (TLEs) for Financial Services Innovation	X Stability	X Innovation/ Consumer Protection/ Transparency	NO
18	FSRA: AU0132APP Ontario private passenger automobile annual review based on industry data	X Asymmetric Information/ Market Abuse	X Confidence/ Transparency	NO
19	FSRA: GR0016INT Information Technology ("IT") risk management	X Instability/ Loss of Reputation	X Consumer Protection/ Competition/ Transparency/ Confidence/ Operational Resiliency	NO
20	FSRA: AU0137INF Operational risk management framework in rating and underwriting of automobile insurance	X Stability	X Consumer Protection/ Competition/ Transparency	NO
21	FSRA: AU0133INT Statutory Accident Benefits Claims during the COVID-19 Outbreak	X Market Abuse	X Consumer Protection/ Transparency/ Confidence	NO
22	FSRA: AU0135INT Unfair or Deceptive Acts or Practices and Approach to Supervision	X Market Abuse/Power	X Consumer Protection/ Competition/Confidence	NO
23	FSRA: AU0139DEC Acquisitions Warranting Relief from Lowest Available Rate Requirement	X Market Abuse/Power	X Competition/Consumer Protection	NO

24	FSRA: AU0129DEC	X Market Abuse	X Consumer Protection/ Transparency	NO
25	FSRA: AU0142INT	X Information asymmetry and opacity/Unfair discrimination/bias/ Mispricing	X Consumer Protection / Efficiency/Innovation	NO
26	FSRA: GR0015APP Whistle-blower Guidance	X Market Abuse	X Confidence/Consumer Protection/Integrity/ Transparency	NO
27	FSRA: PC0047INT Updated Minimum Capital Test Guideline for P&C Insurance Companies and Reciprocal	X Stability	X Consumer Protection	NO
28	FSRA: PC0045APP Risk-based Supervisory Framework for Ontario- incorporated Insurance Companies and Reciprocal	X Stability/Externalities/ Contagion	X Market Conduct/ Confidence/ Protection	NO
29	FSRA: PC0043INT Life agent reporting requirements and related insurer obligations	X Burden	X Efficiency/ Confidence/Consumer Protection/Market Conduct	NO
30	FSRA: CU0085APP Approval or Authorization of Business and Investment Activities under the Credit Unions and Caisses Populaires Act, 2020	NO	X Stability/Confidence/ Transparency/Consumer Protection/Innovation/ Competition	NO
31	FSRA: CU0070INT Credit Union Market Conduct Framework	X Asymmetric Information	X Consumer Protection/ Transparency	NO
32	FSRA: CU0062INT Capital Treatment of Loans under the Federal Government Business Credit Availability Program and Highly Affected Sectors Credit Availability Program Guarantee	X Liquidity	X Stability/Consumer Protection/Market Health	NO
33	FSRA: CU0063INT Residential Mortgage Lending	X Externalities/ Contagion	X Stability/Consumer Protection	NO
34	FSRA: CU0064INT Liquidity	X Externalities/ Contagion	X Stability/Consumer Protection	NO
35	FSRA: CU0069INT Recovery Planning	X Liquidity/ Contagion	X Stability/Consumer Protection/Confidence/ Transparency	NO
36	FSRA: CU0082INT Resolution Planning	X Externalities/ Contagion	X Stability/Protection/ Confidence/	NO

37	FSRA: CU0088APP Operational Risk and Resilience	X Externalities/ Contagion	X Confidence/Stability/ Integrity/Consumer Protection	NO
38	FSRA: CU0065INT Stress Testing	X Externalities/ Contagion	X Stability/Confidence/ Consumer Protection	NO
39	FSRA: CU0083APP Risk-based Supervisory Framework	X Externalities/ Contagion	X Stability/Confidence/ Protection/Efficiency/ Innovation	NO
40	FSRA: CC0001INT High-Risk Offerings issued under the Cooperative Corporations Act	X Asymmetric Information	X Consumer Protection/ Confidence	NO
41	FSRA: PE0205APP Supervisory Approach to Defined Benefit Asset Transfers under the PBA	X Asymmetric Information	X Protection/Transparency/ Confidence	NO
42	FSRA: PE0224INF Defined Benefit Multi-Employer Pension Plans – Leading Practices	X Asymmetric Information	X Consumer Protection/ Transparency/ Confidence	NO
43	FSRA: PE0296INT Pension Plan Administrator Roles and Responsibilities	X Market Abuse	X Consumer Protection/ Transparency/Fairness	NO
44	FSRA: PE0301INT Pension Plan Amendments	X Market Abuse	X Consumer Protection/ Transparency/ Confidence	NO
45	OSFI: Pillar 3 Disclosure Guideline for Domestic Systemically Important Banks (D-SIBs) - Guideline impact analysis statement (2022)	X Externalities/ Contagion	X Resilience/Confidence/ Reputation/Protection	NO
46	OSFI: Liquidity Adequacy Requirements (LAR) Guideline – Guideline impact analysis statement (2022)	X Externalities/ Contagion	X Stability/Resilience/ Confidence/Protection	NO
47	OSFI: Small and Medium-Sized Deposit-Taking Institutions (SMSBs) Capital and Liquidity Requirements Guideline – Guideline impact analysis statement (2023)	X Externality/ Contagion	X Stability/ Resilience/Confidence/ Reputation/Protection	NO
48	OSFI: Pillar 3 Disclosure Guideline for small and medium-sized deposit-taking institutions (SMSBs) – Guideline impact analysis statement (2022)	X Asymmetric Information/ Complexity	X Confidence/ Transparency/Efficiency	NO
49	OSFI: MICAT Total Requirements for FTHBI mortgages - Guideline impact analysis statement	X Stability/ Contagion	X Consumer Protection/ Stability	NO
50	OSFI: LICAT Public Disclosure Requirements – Guideline impact analysis statement	X Asymmetric Information/ Liquidity	X Transparency/ Stability/ Protection	NO
51	Operational Risk Management - Guideline impact analysis statement	X Operational Risk	X Stability/ Transparency	NO

52	Public Disclosure Requirements for Domestic Systemically Important Banks on Liquidity Coverage Ratio	X Asymmetric Information	X Transparency/ Confidence	NO
53	ICAAP – Guideline impact analysis statement	X Liquidity/ Contagion	X Stability/ Protection	NO
54	AMF: Governance Guideline	X Asymmetric Information	X Stability/Confidence/ Protection/Transparency/ Efficiency	NO
55	AMF: Integrated Risk Management	X Solvency/Contagion	X Stability/Confidence/ Protection/ Dynamism	NO
56	AMF: Compliance	X Solvency	X Confidence/Consumer Protection/Reputation	NO
57	AMF: Capital Management	X Solvency/Contagion	X Confidence/Stability/ Dynamism	NO
58	AMF: Capital adequacy requirements Life and Health Insurers P&C Insurers Self-Regulatory Organizations Reciprocal Unions	X Systemic Risk/ Solvency/ Reputation/ Asymmetric Information/ Market Abuse	X Stability/ Transparency/ Consumer Protection	NO
59	AMF: Management of expected credit losses	X Credit Risk/ Contagion/ Market Abuse	X Stability/ Transparency/ Consumer Protection	NO
60	AMF: Climate Risk Management	X Climate Risk: Physical and Transition Risk	X Stability/ Consumer Protection	NO
61	AMF: AMF Sound Management and Measurement of Earthquake Exposure	X Systemic Risk/ Catastrophic Risk Management	X Stability / Resilience	NO
62	AMF: Liquidity 1	X Solvency/ Liquidity	X Stability/ Confidence/ Reputation/ Growth	NO
63	AMF: Liquidity 2	X Solvency/ Liquidity/ Contagion	X Confidence/ Stability/ Protection	NO
64	AMF: Pillars	X Asymmetric Information	X Confidence/ Transparency	NO
65	AMF: Total Loss Absorbing Capacity	X Solvency/ Contagion	X Stability	NO

66	AMF: Sound Commercial Practices	X Market Abuse	X Consumer Protection/ Transparency	NO
67	AMF: Fair Consumer Practices	X Market Abuse/ Asymmetric Information	X Consumer Protection/ Transparency	NO
68	AMF: Principal Protected Notes	X Asymmetric Information	X Consumer Protection/ Transparency	NO
69	AMF: Incentive Management Guideline	X Market Abuse	X Consumer Protection	NO
70	AMF: Securitization Risk Management Guideline	X Liquidity/Contagion	X Resilience/Stability/ Consumer Protection/ Transparency	NO
71	AMF: Residential hypothecary	X Contagion/Solvency	X Stability/Consumer Protection/Transparency	NO
72	AMF: Margin for over-the-counter derivatives	X Contagion	X Stability/Consumer Protection/Transparency	NO
73	AMF: IR Risk	X Solvency	X Stability	NO
74	AMF: OR Management	X Liquidity	X Stability	NO
75	AMF: Business Continuity	X Contagion/Solvency	X Stability	NO
76	AMF: Crime	X Market Abuse	X Reputation/ Transparency/ Confidence	NO
77	AMF: Outsourcing	X Stability/ Technological Risk	X Confidence/Stability	NO
78	AMF: Info and Comm.	X Stability/Contagion/ Technological Risk	X Consumer Protection/ stability/Innovation	NO
79	AMF: Stress Testing	X Solvency/Contagion	X Stability/Protection/ Resilience	NO
80	AMF: Information Disclosure	X Asymmetric Information/ Contagion	X Stability	NO
81	CSA: Companion Policy 21-101CP	X Market Abuse/ Asymmetric Information	X Transparency/Fairness of the Market/Confidence	NO
82	CSA: Companion Policy 25-102	X Market Integrity/ Contagion	X Stability	NO

83	CSA: Companion Policy 23-101 CP	X Market Integrity/ Market Abuse	X Protection/Stability/ Transparency	NO
84	CSA: Companion Policy 23-102CP	X Market Abuse/ Asymmetric Info	X Protection/Transparency	NO
85	CSA: Companion Policy 24-101CP	X Market Integrity/Lack of Transparency	X Efficiency/Stability	NO
86	CSA: Companion Policy 41-101CP	X Asymmetric Information/ Market Abuse	X Transparency/ Consumer Protection	NO
87	CSA: Companion Policy 24-102CP	X Liquidity/Contagion	X Transparency/ Confidence/Protection	NO
88	CSA: Companion Policy 25-501	X Market Integrity	X Protection/Transparency	NO
89	CSA: Companion Policy 35-101CP	X Regulatory Burden	X Facilitate/Simplify	NO
90	CSA: Companion Policy 32-102CP	X Market Abuse	X Consumer Protection	NO
91	CSA: Companion Policy 33-105CP	X Market Abuse/ Asymmetric Information	X Protection/Transparency	NO
92	CSA: Companion Policy 31-103CP	X Market Abuse/ Asymmetric Information/Market Integrity	X Protection/Transparency/ Efficiency/Stability	NO
93	CSA: Companion Policy 33-109CP	X Market Abuse/ Market Integrity	X Protection/Efficiency	NO
94	CSA: Companion Policy 33-506CP	X Market Abuse/ Market Integrity	X Protection/Efficiency	NO
95	CSA: Companion Policy 41-101CP	X Market Abuse/ Market Integrity	X Protection	NO
96	CSA: Companion Policy 43-101CP	X Asymmetric Information	X Transparency	NO
97	CSA: Companion Policy 44-101CP	X Regulatory Burden	X Facilitate/ Simplify	N/A
98	CSA: Companion Policy 44-102CP	X Asymmetric Information	X Transparency/Protection	NO
99	CSA: Companion Policy 44-103CP	X Asymmetric Information/Market Abuse	X Transparency/ Protection	NO



100	CSA: Companion Policy 45-102CP	X Asymmetric Information/Market Abuse	X Transparency/Protection	NO
101	CSA: Companion Policy 45-106CP	X Regulatory Burden	X Facilitate/ Simplify	NO
102	CSA: Companion Policy 51-101CP	X Asymmetric Information/Market Abuse	X Transparency/Protection	NO
103	CSA: Companion Policy 52-107CP	X Asymmetric Information/Market Abuse	X Transparency/Protection	NO
104	CSA: Companion Policy 51-102CP	X Asymmetric Information	X Transparency/Protection	NO
105	CSA: Companion Policy 52-110CP	X Market Abuse/ Asymmetric Information	X Transparency/ Confidence	NO
106	CSA: Companion Policy 52-112CP	X Asymmetric Information/ Market Abuse	X Transparency	NO
107	CSA: Companion Policy 54-101CP	X Asymmetric Information	X Transparency/ Consumer Protection	NO
108	CSA: Companion Policy 61-101CP	X Market Abuse/ Market Integrity/ Asymmetric Information	X Transparency/Protection/ Fairness	NO
109	CSA: Companion Policy 71-101CP	X Regulatory Burden	X Facilitate/ Simplify	N/A
110	CSA: Companion Policy 71-102CP	X Regulatory Burden	X Facilitate/ Simplify	N/A
111	CSA: Companion Policy 72-503CP	X Regulatory Burden	X Facilitate/ Simplify	N/A
112	CSA: Companion Policy 81-101CP	X Asymmetric Information/ Market Abuse	X Transparency/ Consumer Protection	NO
113	CSA: Companion Policy 81-102CP	X Asymmetric Information/Market Abuse/Liquidity/ Market Integrity	X Protection/Transparency	NO

114	CSA: Companion Policy 81-105CP	X Market Abuse/ Market Integrity	X Protection	NO
115	CSA: Companion Policy 81-106CP	X Asymmetric Information	X Transparency	NO
116	CSA: Companion Policy 91-102CP	X Market Abuse	X Protection	NO
117	CSA: Companion Policy 91-501CP	X Asymmetric Information	X Transparency/Protection	NO
118	CSA: Companion Policy 91-506CP	X Market Abuse	X Protection/ Efficiency	NO
119	CSA: Companion Policy 91-507CP	X Asymmetric Information / Systemic Risk	X Transparency / Market Stability / Market Integrity	NO
120	CSA: Companion Policy 93-101CP	X Market Abuse / Asymmetric Information/ Market Integrity	X Transparency/Protection	NO
121	CSA: Companion Policy 94-101CP	X Market Abuse/ Contagion	X Protection/Stability	NO
122	CSA: Companion Policy 94-102CP	X Market Abuse	X Protection	NO

APPENDIX B: THE MODEL

B.1 Economic environment

This appendix provides the full formal derivation of the model presented in “A Simple Model of the Stability-Growth Trade-Off” of the main paper. Readers seeking the underlying economic intuition are referred to that section. Aggregate output is given by:

$$Y_t = A k_t (1)$$

where $A > 0$ is total factor productivity, and k_t , total capital, is given by:

$$k_t = N_t + D_t, (2)$$

where:

- N_t is the intermediary's net worth (equity)
- D_t is debt (deposits and other liabilities).

Financial intermediaries, who provide capital, are subject to a borrowing constraint:

$$D_t \leq \lambda_t N_t, (3)$$

where λ_t is the leverage ratio. Combining (2) and (3) gives the upper bound on the capital stock, where intermediaries operate:

$$k_t = (1 + \lambda_t) N_t (4)$$

Substituting (4) into (1) gives:

$$Y_t = A(1 + \lambda_t) N_t (5)$$

B.2 Returns, balance sheets, and net worth dynamics

Intermediaries' net worth law of motion:

$$N_{t+1} = R_{t+1} (k_t - R_D D_t) (6)$$

Substituting in (5) and (3) gives:

$$N_{t+1} = N_t [R_{t+1} (1 + \lambda_t) - R_D \lambda_t] = N_t [R_{t+1} + \lambda_t (R_{t+1} - R_D)] (7)$$

Limited liability implies that net worth cannot be negative, so realized net worth evolves as:

$$N_{t+1} = \max\{0, N_t\} = \max\{0, N_t[R_{t+1} + \lambda_t(R_{t+1} - R_D)]\}.$$

B.3 Financial distress and the role of leverage

“Financial distress” is defined as the event in which net worth is wiped out, i.e., $N_{t+1} = 0$. This occurs whenever the gross return on assets is sufficiently low such that:

$$R_{t+1}(1 + \lambda_t) < R_D \lambda_t$$

Solving for the critical return threshold:

$$R_{t+1} < R^*(\lambda_t) = R_D \lambda_t / (1 + \lambda_t)$$

The threshold $R^*(\lambda_t)$ is strictly increasing in λ_t . Higher leverage raises the return level below which net worth is wiped out and thus magnifies the impact of negative shocks. In this sense, leverage is a shock-amplification parameter: holding the distribution of R_{t+1} fixed, higher λ_t increases the probability of financial distress.

B.4 Stability-oriented regulation, leverage, and return exposure

A reduced-form “stability effort” variable $s_t \geq 0$ captures the overall stance of stability-oriented regulation, spanning both prudential tools (capital requirements, leverage ratios, liquidity buffers) and market conduct tools (disclosure, suitability, conduct-related requirements). Regulatory intensity affects the economy through two margins that jointly determine how exposed net worth is to a shock.

First, as in the standard framework, tighter regulation constrains leverage:

$$\lambda_t = \lambda(s_t), \lambda'(s_t) < 0$$

Higher stability effort corresponds to tighter regulatory constraints and therefore lower leverage. This is the channel emphasized in much of the macroprudential literature: by reducing leverage, higher s_t reduces the amplification of bad shocks and, all else equal, lowers the probability of distress.

Second, stability effort also shapes the distribution of the return intermediaries actually earn, capturing the market conduct margin introduced in the section, “Leverage and Market Conduct Channels.” We write:

$$R_{t+1}(s_t) = \bar{R} - \gamma(s_t)\xi_{t+1}, \quad \gamma'(s_t) < 0$$

where $\bar{R}$ is the return realized absent a market-confidence shock, $\xi_{t+1} \geq 0$ is a shock to market conditions (a disruption to liquidity, confidence, or trading conditions), and $\gamma(s_t)$ governs how much of that shock is transmitted into realized returns. Higher stability effort narrows the exposure of realized returns to a market-confidence shock, independently of leverage.

In the absence of other frictions, these two margins generate the textbook trade-off: higher s_t lowers leverage and narrows return exposure, reducing the amplification and likelihood of losses, but also restrains credit and output in normal times through lower leverage alone.

B.5 Adding compliance costs as a third channel

We model the resource cost of regulatory compliance with a cost function $C(s_t)$ that is:

- measured in the same units as net worth (a dollar amount that must be paid each period),
- strictly increasing in stability effort: $C'(s_t) > 0$.

Combining all three channels, the net-worth law of motion becomes:

$$N_{t+1} = \max\{0, N_t[R_{t+1}(s_t) + \lambda(s_t)(R_{t+1}(s_t) - R_D)] - C(s_t)\}.$$

Unlike the leverage and return channels, which affect the size and likelihood of losses, compliance costs are subtracted regardless of the realization of $R_{t+1}(s_t)$: they are paid in good states and bad states alike.

B.6 Effects of stability effort on net worth

To understand the effect of stability effort s_t on net worth, consider a given realization of the market-confidence shock ξ_{t+1} and linear functional forms for tractability:

$$\lambda(s_t) = \lambda - \alpha s_t, \alpha > 0, \quad \gamma(s_t) = \gamma - \delta s_t, \delta > 0, \quad C(s_t) = C + \beta s_t, \beta > 0$$

Ignoring the $\max\{0, \cdot\}$ operator for the moment, and treating the case where net worth remains positive, the partial derivative of next-period net worth with respect to stability effort is:

$$\frac{\partial N_{t+1}}{\partial s_t} = -\alpha N_t(R_{t+1}(s_t) - R_D) + N_t(1 + \lambda_t)\delta \xi_{t+1} - \beta$$

Two cases are particularly informative:

1. Good state ($R_{t+1}(s_t) > R_D$), no market-confidence shock, $\xi_{t+1} = 0$). The second term vanishes, and:

$$\frac{\partial N_{t+1}}{\partial s_t} = -\alpha N_t(R_{t+1}(s_t) - R_D) - \beta < 0$$

Higher stability effort unambiguously reduces net worth in good times: lower leverage reduces the upside from high returns, and compliance costs further subtract from profits.

2. Bad state, market-confidence shock realized ($R_{t+1}(s_t) < R_D$, $\xi_{t+1} > 0$). The leverage term flips sign, and the return-protection term is active:

$$\frac{\partial N_{t+1}}{\partial s_t} = \alpha N_t(R_D - R_{t+1}(s_t)) + N_t(1 + \lambda_t)\delta \xi_{t+1} - \beta$$

The first two terms are positive: reducing leverage dampens losses, and narrowing exposure to the market-confidence shock protects returns (both stabilizing effects). The third term, $-\beta$, is negative and captures the direct drain from compliance costs (destabilizing effect). The net effect is ambiguous. If the first two terms together exceed β , stability effort increases net worth even in bad states (the classic stabilizing case). If instead β dominates, the compliance drain outweighs both stabilizing effects, and higher stability effort actually reduces net worth even in bad states, leaving the system closer to the default boundary. This trade-off is the key mechanism we use to interpret the empirical results.

B.7 Financial distress and crisis probability

A financial “crisis” in this framework corresponds to the event $N_{t+1} = 0$, i.e., the intermediary’s net worth is wiped out, and its balance sheet collapses. Given an initial net worth $N_t > 0$, stability effort s_t , and a realization of $R_{t+1}(s_t)$, distress occurs when:

$$N_t [R_{t+1}(s_t) + \lambda(s_t)R_{t+1}(s_t) - R_D] - C(s_t) < 0$$

Define the distress threshold $\theta(s_t, N_t)$, and let $F_R(\cdot)$ denote the cumulative distribution function of $R_{t+1}(s_t)$. Then, for given N_t and s_t , the probability of financial distress is:

$$p(s_t, N_t) = P(N_{t+1} = 0 \mid N_t, s_t) = F_R(\theta(s_t, N_t))$$

The sign of $\partial p / \partial s_t$ is ambiguous, because $\theta(s_t, N_t)$ is jointly affected by changes in $\lambda(s_t)$, changes in $\gamma(s_t)$, and changes in $C(s_t)$. The leverage and return-protection channels both tend to reduce θ (and thus reduce p), while the compliance channel tends to increase θ (and thus increase p). When compliance is sufficiently sensitive to stability effort, the net effect can be flat or even positive: more regulation can increase the probability of distress.

APPENDIX C: EMPIRICAL EVIDENCE

We test the model's implications using quarterly datasets for Canada over the 2000Q1-2025Q3 period. Stability effort S_t proxies regulatory intensity via IMF iMaPP tightening actions across macroprudential instruments (capital buffers, LTV/DTI limits, reserve requirements). Higher S_t maps directly to model parameter s .

Growth specification: $g_t = \alpha + \beta S_{\{t-1\}} + X'_{\{t-1\}}\delta + \varepsilon_t$

Recession probit: $Pr(R_t = 1) = A(\gamma S_{\{t-1\}} + X'_{\{t-1\}}\theta)$

Controls $X_{\{t-1\}}$: VIX (global risk), policy rate, EPU, credit gap, Z-score, lagged growth/recession. HAC standard errors. Lags avoid reverse causality.

Results, reported as Tables 1 and 2 in “Illustrating the Model” within the main paper, show clear growth costs but no stability gains – consistent with medium/high-cost regimes.