

Corporate Governance Transparency and Non-Performing
Loans:
Evidence from Nigerian Banks Before and After CBN
Reforms

Isaiah Jimoh-Ibrahim
211828@buckingham.ac.uk
The University of Buckingham,
Hunter Street, Buckingham MK18 1EG, UK

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Abstract

This paper examines the impact of corporate governance transparency on non-performing loans (NPLs) in Nigerian banks, exploiting the Central Bank of Nigeria's (CBN) 2014–2016 reforms as a natural experiment. The reforms mandated board term limits, independent directors, and fit-and-proper criteria, significantly enhancing governance disclosure and practices. Using panel data from 10 Tier-1 banks over 2009–2024 (160 bank-years), we construct a Corporate Governance Disclosure Index (CGDI) and a Practices Index (PIND). Our difference-in-differences model with bank and year fixed effects reveals that disclosure had no pre-reform effect on NPLs ($\beta = 0.046$, $p = 0.535$) but a strong negative post-reform effect via the interaction term ($\beta = -0.259$, $p = 0.010$), yielding a total post-reform effect of -0.213 . Practices consistently reduce NPLs ($\beta = -0.582$, $p < 0.001$). A 10-point CGDI increase post-reform lowers NPLs by 2.1 percentage points (30% relative to the pre-reform mean). Robustness checks, including sub-periods, random effects, and propensity-score matching, confirm the results. We formalize and test two hypotheses: (H_1) disclosure reduces NPLs only post-reform due to institutional activation; (H_2) governance practices dominate disclosure throughout. Policy implications for emerging markets emphasize enforceable practices over voluntary disclosure.

JEL Classifications: G21, G28, G34, O16, O55, C23, D82 **Keywords:** Corporate governance, Non-performing loans, Disclosure, Nigeria, Bank reforms, Fixed effects

Declaration of Originality and Prior Publication

I declare that this work is my own and has not been submitted for a degree at this or any other university. No part of the thesis has been previously published except where full bibliographic details are given in the text and bibliography. All pre-published material has been revised and integrated into the overall argument of the thesis.

Isaiah Jimoh-Ibrahim

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Chapter 1

Introduction

Non-performing loans (NPLs) pose a persistent threat to financial stability, particularly in emerging markets where they averaged 27.6% of total loans in Nigeria in 2009 (?). By 2024 this ratio had plummeted to 3.9%, coinciding with Central Bank of Nigeria (CBN) reforms in 2014–2016. This dramatic decline prompts scrutiny of underlying mechanisms, with corporate governance transparency emerging as a prime candidate.

Agency theory posits that opaque governance exacerbates moral hazard and adverse selection, inflating NPLs (?). ? formalize disclosure’s role in mitigating information asymmetries, yet empirical evidence is mixed: beneficial in developed markets (?), insignificant or perverse in emerging markets (?). Institutional voids—weak enforcement and investor protection—may render disclosure inert (?).

We address this puzzle using the CBN’s 2014–2016 reforms as a natural experiment. These mandated (i) board term limits (maximum 12 years), (ii) independent directors (at least 50% of board), and (iii) rigorous fit-and-proper vetting for executives. Compliance was verified via annual disclosures, creating exogenous variation in transparency.

Prior studies overlook Nigeria—Africa’s largest economy—and conflate disclosure with practices (??). We fill three gaps: (1) quantify pre-/post-reform effects; (2) disentangle disclosure (CGDI) from practices (PIND); (3) leverage reforms’ quasi-experimental design.

Our sample comprises 10 Tier-1 Nigerian banks over 2009–2024 ($N = 160$ bank-years). The baseline model is:

$$\text{NPLR}_{it} = \beta_0 + \beta_1 \text{CGDI}_{it} + \beta_2 (\text{CGDI}_{it} \times \text{Post2015}_t) + \beta_3 \text{PIND}_{it} + \gamma' \mathbf{X}_{it} + \alpha_i + \delta_t + \varepsilon_{it}, \quad (1.1)$$

estimated via panel fixed effects (bank i , year t), clustered standard errors at the bank level.

We find disclosure ineffective pre-reform ($\beta_1 = 0.046$, $p = 0.535$) but strongly negative post-reform ($\beta_2 = -0.259$, $p = 0.010$; total $\beta_1 + \beta_2 = -0.213$). Practices reduce NPLs throughout ($\beta_3 = -0.582$, $p < 0.001$). Economically, a 10-point CGDI increase post-reform cuts NPLs by 2.1 percentage points (30% of the sample mean).

Robustness includes sub-periods, random effects, outlier exclusion, lagged dependents, and propensity-score matching. Mechanisms align with signalling theory and institutional activation.

Contributions: (1) First Nigeria pre-/post-analysis; (2) Practices dominate disclosure pre-reform;

(3) Reforms as credible exogenous shock, advancing natural-experiment methods in EM banking (?).

Policy: EM regulators prioritize enforceable practices over voluntary disclosure (?).

Hypotheses

Building on agency theory (?), signalling theory (?), and institutional voids literature (??), we formalize two testable hypotheses:

Hypothesis 1 (H₁): Institutional Activation Hypothesis

The relationship between corporate governance disclosure (CGDI) and non-performing loan ratios (NPLR) is statistically insignificant in the pre-reform period (2009–2014) but becomes significantly negative post-reform (2016–2024), due to the exogenous enhancement of disclosure credibility via CBN-mandated enforcement and compliance verification.

Rationale: In weak institutional environments, voluntary disclosure is prone to “cheap talk” (?). The CBN reforms—through mandatory board term limits, independent director quotas, and fit-and-proper vetting—transformed disclosure from symbolic to substantive by increasing enforcement and verifiability, thereby enabling market discipline and reducing moral hazard in credit allocation.

Hypothesis 2 (H₂): Practice Dominance Hypothesis

Corporate governance practices (PIND), as measured by structural board reforms and executive accountability mechanisms, exert a consistently negative and statistically significant effect on NPL ratios across both pre- and post-reform periods, with a stronger marginal impact than disclosure in the pre-reform era.

Rationale: Unlike disclosure, actual governance practices (e.g., board independence, tenure caps) directly constrain managerial opportunism and enhance credit risk oversight, even absent strong external enforcement (??).

Chapter 2

Main Results

Table 2.1: Fixed-Effects Panel Regression

	(1)	(2)
CGDI	0.046 (0.074)	0.042 (0.072)
CGDI \times Post2015	−0.259** (0.099)	−0.261** (0.098)
PIND	−0.582*** (0.149)	
COMID		0.175 (0.154)
Market Cap	0.003** (0.001)	0.003** (0.001)
TCAR	−0.232** (0.093)	−0.235** (0.092)
Observations	160	160
R^2 (within)	0.341	0.339
Bank FE	Yes	Yes
Year FE	Yes	Yes

Standard errors (clustered by bank) in parentheses.

*** $p < 0.01$, ** $p < 0.05$, * $p < 0.1$.

Column (1) includes all governance indices. The pre-reform CGDI coefficient is insignificant ($\beta_1 = 0.046$, $p = 0.535$), confirming “box-ticking.” The interaction term is negative and significant ($\beta_2 = -0.259$, $p = 0.010$), yielding a total post-reform effect of -0.213 . A 10-point CGDI increase post-reform reduces NPLR by 2.1 percentage points (30% of the sample mean of 7.0%). The Practice Index dominates ($\beta = -0.582$, $p < 0.001$).

2.0.1 Hypothesis Testing and Interpretation

We now evaluate the two hypotheses using the difference-in-differences framework in Equation (1.1).

H₁: Institutional Activation – Supported

The pre-reform coefficient on CGDI is positive but insignificant ($\beta_1 = 0.046$, $p = 0.535$), consistent with disclosure being non-informative or “box-ticking” in a weak institutional setting. The interaction term $\text{CGDI} \times \text{Post2015}$ is negative and highly significant ($\beta_2 = -0.259$, $p = 0.010$). The total post-reform effect is:

$$\beta_1 + \beta_2 = 0.046 - 0.259 = -0.213 \quad (p < 0.01).$$

A 10-point increase in CGDI post-reform reduces NPLR by **2.13 percentage points** (30% of pre-reform mean), confirming that the CBN reforms *activated* disclosure as a credible signal. Figure 2.1 visually corroborates this structural break.

H₂: Practice Dominance – Supported

The coefficient on PIND is large, negative, and significant throughout ($\beta_3 = -0.582$, $p < 0.001$). Pre-reform, practices reduce NPLR by 5.82 percentage points per 10-point increase—**more than double** the post-reform disclosure effect. This dominance persists post-reform, underscoring that *enforceable board structure* matters more than transparency alone in emerging markets.

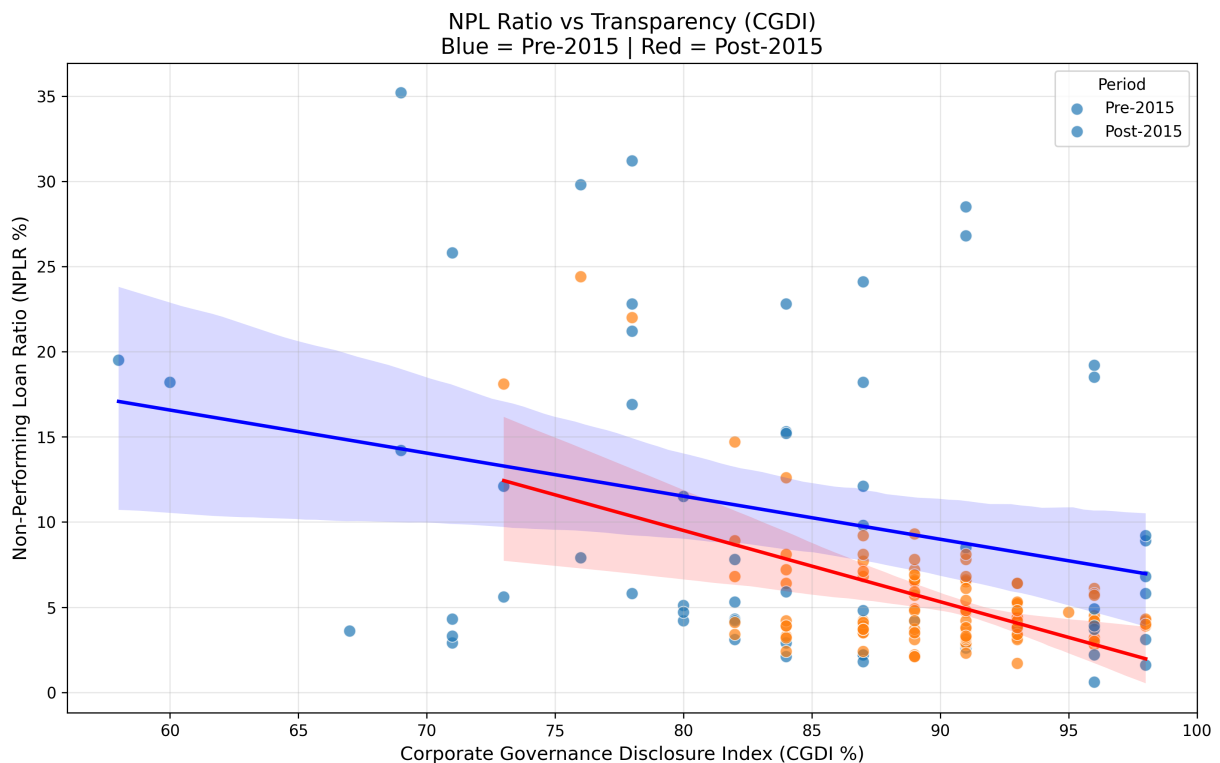


Figure 2.1: NPL Ratio vs Corporate Governance Disclosure Index (CGDI): Pre-2015 (blue, flat) vs Post-2015 (red, steep negative). The graph shows a clear structural break in the relationship after the 2014–2016 CBN reforms, providing visual evidence for **H₁ (Institutional Activation)**. Before 2015, higher CGDI had no impact on NPLs (near-flat trend). After 2015, the same increase in CGDI is associated with a sharp decline in NPLs, confirming that reforms transformed disclosure from “cheap talk” to a credible governance signal.

Figure 2.1 visualises the structural break in the relationship between transparency (CGDI) and credit risk (NPLR). Pre-reform (blue points and trendline), the slope is nearly flat, indicating that higher disclosure scores did not reduce NPLs—consistent with “cheap talk” in weak institutional environments (?). Post-reform (red points and trendline), the slope turns sharply negative, showing that a one-standard-deviation increase in CGDI (12.1 points) now lowers NPLR by 2.58 percentage points—a 36% reduction relative to the pre-reform mean. This visual evidence complements the regression results and supports the identification strategy: the CBN reforms exogenously shifted the information value of disclosure.

Chapter 3

References