

# Cabinet under Pressure: Survival Analysis of Peru's Prime Ministers Since 1980

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## Abstract

This study examines the political durability of Peru's Prime Ministers (Presidente del Consejo de Ministros, PCM) since the country's democratic return in 1980. Using survival analysis, we explore how political context, institutional conditions, and crisis dynamics shape the tenure of these key presidential appointees. Through a Cox proportional hazards model, we test the influence of presidential popularity, legislative fragmentation, cabinet reshuffles, and regime instability on the risk of early dismissal or resignation. The results illuminate how informal power-sharing and institutional fragility influence executive coordination in a hyper-presidential regime.

## Introduction

The median tenure of a Peruvian Prime Minister (PCM) since 1980 is 254 days (around 8 months), yet variation is striking. Ántero FloresAráoz lasted only six days in November 2020, whereas Manuel Ulloa served 864 days in the early 1980s and Jorge del Castillo survived 805 days during Alan

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García's second term. Dispersion persists even within a single presidential period: three PCMs held the post during Pedro Castillo's first five months, while Alberto Otárola remained in office for 440 days under Dina Boluarte. This inconsistency under ostensibly similar institutional rules raises a central puzzle: Which political, institutional, and situational factors condition the durability of Peru's Prime Ministers?

Although the Constitution describes the PCM merely as the president's first minister—responsible for countersigning decrees and coordinating the cabinet—practice since 1980 indicates that the office routinely performs head-of-government functions: drafting the policy agenda, negotiating confidence votes, and representing the executive in congressional interpellations. The PCM thus acts as the president's chief political shield. During normal times, the office facilitates legislative compromise and signals technocratic competence; in crises, it functions as a “circuit-breaker,” a high-visibility scapegoat whose dismissal absorbs congressional anger and preserves presidential tenure. Analysing the determinants of PCM survival therefore illuminates how Peru's hyper-presidential system manages accountability, blame assignment, and policy coordination in the absence of strong parties.

# 1 Background

## 1.1 Evolution of the Prime Minister's formal mandate

Peru's Prime Minister (PCM) has migrated from a cabinet chair of convenience in the 1979 Constitution to a multisector policy coordinator and modernisation czar under the post-2000 statutory framework. Four legal milestones define that trajectory:

- 1979 Constitution (arts.215–218). The PCM presides over the Council of Ministers only when the President is absent; all appointments and dismissals rest with the President, who may chair the Council at will. The PCM's core duty is to secure majority support inside the cabinet for bills, decree-laws, and matters of public interest. (Constitution 1979.)
- 1993 Constitution (arts. 122–127). Retains presidential discretion over appointments but upgrades the PCM: he/she convenes the Council, signs legislative decrees, and must present the government programme and request a vote of confidence from Congress. (Democratic Constituent Congress 1993.)

- Organic Law of the Executive Branch – LOPE 2007 (ch. II). Charges the PCM with proposing the government’s general objectives, coordinating multisectoral national policies—especially economic and social development—and supervising entities attached to the Presidency of the Council of Ministers. (Congress of the Republic 2007, LOPE.)
- Law 29158 (2007) on Modernisation of the State (art.19). Designates the PCM the President’s highest-trust agent, responsible for steering public-sector modernisation and decentralisation across all tiers of government. (Congress of the Republic 2007, Law 29158.)

Together these reforms turned the PCM from symbolic countersignatory into the President’s principal political shield and agenda gate-keeper. See Table 1.1 for details on this evolution.

## 1.2 Informal evolution: from symbolic coordinator to political operator

The Prime Minister’s day-to-day leverage has always depended less on parchment rules than on shifting presidential strategies and congressional configurations. Three sequential informal models can be distinguished:

- Symbolic coordinator (1980–1990). Under Belaunde and the first García administration the PCM remained a low-profile chair; party-fragmented congresses preferred dealing directly with sector ministers, and premiers changed whenever coalition arithmetic shifted. Average tenure was 405 days, but the post was still viewed as an honorific stepping-stone rather than a power centre.
- Gate-keeper in an autocratic presidency (1990 – 2000). Fujimori’s autogolpe (1992) sidelined Congress and broadened decree-law rule. The PCM became the sole bureaucratic filter for emergency economic decrees and IMF-negotiated reforms; loyalty trumped expertise (e.g., Hurtado Miller, Pandolfi). Although the decade’s mean tenure fell to  $\approx 302$  days, variance shrank because Fujimori kept loyalists long until a policy pivot required a full cabinet refresh.
- Floor-manager and lightning rod (2001 – present). With the 1993 Constitution’s confidence-vote mechanism now routinised, the PCM took on vote counting and crisis-absorption roles.
  - Coalition minority years (Toledo 2001-06): premiers (e.g., Carlos Ferrero) traded ministerial posts for legislative backing.

Table 1.1: Evolution of the PCM's formal mandate since 1979

Legal framework	Cabinet-chair role	Policy-coordination powers	Appointment & dismissal	Additional statutory duties	Citation
1979 Constitution	Chairs Council only when President absent; President may chair at will	Secures majority consent for bills and decree-laws within the cabinet	Exclusive presidential prerogative	None specified beyond cabinet deliberations	Const. 1979, arts. 215–218
1993 Constitution	Convenes Council; President may still chair	Countersigns decrees; presents programme and confidence motion to Congress	Exclusive presidential prerogative	Must seek confidence votes	Const. 1993, arts. 122–127
LOPE 2007	PCM rarely chairs Council (President rarely attends)	Proposes government objectives; coordinates multisector policies; supervises PCM-attached entities	Unchanged	Broad multi-sector supervision	LOPE 2007, ch. II
Law 29158 (2007)	As per LOPE	Leads State modernisation and decentralisation agenda	Unchanged	Strategic planning; inter-governmental coordination	Law 29158, art. 19

- Party-government years (García II 2006-11): Jorge del Castillo doubled as APRA whip, illustrating the PCM’s partisan link function.
- Confrontational years (PPK, Vizcarra, Castillo): Congress weaponised interpellations; presidents sacrificed PCMs (Zavala 2017; Villanueva 2018; Bellido→Vásquez→Torres 2021-22) to defuse censure threats or reset talks before the 28 July speech.
- Post-2022 caretaker presidency: Dina Boluarte retained Alberto Otárola for 440 days to project continuity amid unrest, showing the PCM as stability signal.

Across these phases, two informal prerogatives emerged:

- Negotiator-in-chief. Modern PCMs draft the annual Mensaje a la Nación, map votes for confidence motions, and lobby party spokespeople—tasks never spelled out in LOPE.
- High-visibility “circuit-breaker.” Presidents now time reshuffles to absorb blame for corruption scandals (e.g., Saavedra 2016 education dispute; Chávayry 2019 judicial scandal) or economic shocks, banking on a short-term boost in approval.

These unwritten practices explain why Prime-Ministerial exits cluster around scandals, protests, and the July speech window—patterns the survival analysis in Section 4 explicitly models.

### 1.3 Prime-Ministerial tenure across political periods

Peru’s Prime-Ministerial tenure remains volatile, but volatility itself is not uniform across eras. Using the verified dataset of 57 spells (1980–2025), Table 1.2 summarises the distribution by political period. The Fujimori decade exhibits the shortest average tenure (302 days) yet also the narrowest spread, reflecting the concentration of presidential power; the immediate post-transition years average roughly 405 days, while the post-2000 era shows the shortest median (232 days) and the widest range as presidents cycle through PCMs to manage fragmented congresses and serial crises.

## 2 Literature Review

The formal mandate outlined in Table 1.1 establishes the PCM as the president’s chief policy coordinator and political shield. The subsections that

Table 1.2: Duration in Days by era

Era	count	mean	min	max	range
A.Belaunde_Garcia	9	405.44	138	864	726
B.Fujimori	13	302.08	78	792	714
C.Paniagua_Boluarte	36	249.64	6	805	799

*Source:* author calculations from official appointment resolutions and El Peruano archives.

follow review comparative findings on the political, institutional, and situational determinants of ministerial tenure, providing the theoretical backdrop for our hypotheses.

## 2.1 Cabinet Volatility in Peru

Early comparative work portrays Peru as an extreme case of ministerial churn. Martínez-Gallardo (2012) reports an average cabinet duration of just 13 months (1980–2000), less than half the Latin-American mean and exceeded only by Brazil. Sector-specific studies corroborate the pattern: in the health ministry, average tenure was 13.7 months between 1935 and 2021 (Gozzer et al., 2021). Frequent reshuffles reset reform agendas—“policies are often returned to square one” Gozzer et al., 2021, 335 —and cascade through lower administrative layers. Yet the causes of this volatility remain under-specified.

## 2.2 Critical Events and Shocks

Extant research highlights critical events as proximate triggers of turnover. Dewan and Dowding (2005) show that UK prime ministers reshuffle after scandals to restore popularity; Camerlo and Pérez-Liñán (2015) find media scandals and social protests heighten rotation in twelve Latin-American democracies, with effects conditioned by the electoral calendar and re-election rules. Because Peruvian presidents cannot be re-elected, the country fits Camerlo and Pérez-Liñán’s scenario in which protests spike hazard early in the term, while scandals matter later Camerlo and Pérez-Liñán (2015, 616). Economic crises operate similarly: González-Bustamante and Olivares (2016) incorporate downturns into Chilean survival models, and Fischer, Dowding, and Dumont (2012, 515) argue that a minister’s post-shock fate hinges on formal removal rules, political weight, and net benefit to the government.

## 2.3 Institutional Determinants

Turning to institutional factors, the presidential–parliamentary divide looms large. From Fischer et al. (2012) we learned that Single-party cabinets generally stay in power longer than coalitions; within coalitions, minimum-winning cabinets outlive surplus (oversized) coalitions; Cabinets endure markedly longer in parliamentary systems<sup>1</sup>. If the regime were authoritarian, cabinets in communist regimes lived longer than the ones from military dictatorships; and finally, Cabinets with more veto-player parties are less durable.

Some of those findings complement the ones above. A sixty-year study of Colombia shows that multiparty coalition presidentialism lengthens tenure, whereas two-party periods display higher churn (Mejía, Barinas Forero, & Mora Oviedo, 2021). Uruguay’s above-average stability likewise hinges on durable coalitions; crises coincide with coalition breakdowns (Chasqueti, Buquet, & Cardarello, 2013).

## 2.4 Ministerial Profiles

Personal attributes cannot be ignored. Age effects are U-shaped, with the youngest and oldest ministers more likely to exit Fischer et al. (2012). Escobar-Lemmon and Taylor-Robinson (2010) find that being in the inaugural cabinet and holding the finance portfolio increase hazard, whereas constituency links reduce it. Prior political experience, however, has only marginal impact (Escobar-Lemmon & Taylor-Robinson, 2010). In Peru, outsider presidents such as Alberto Fujimori and Pedro Pablo Kuczynski have consistently favoured technocrats with scant partisan capital (Carreras, 2013; Nercesian & Cassaglia, 2019). Whether such technocratic cabinets enjoy longer—or shorter—survival remains an open empirical question.

## 2.5 Gaps in the Literature and Relevance to Peru

Existing studies converge on three explanatory families—critical events, institutional arrangements, and individual profiles—but seldom test them jointly inside a single presidential system. Moreover, most Latin-American research pools multiple countries, obscuring Peru’s idiosyncrasies: (i) constitutional hyper-presidentialism without the stabilising force of strong parties; (ii) the annual Mensaje a la Nación on 28 July, a focal point for reshuffles; and (iii) recurrent economic volatility. By integrating LOPE’s formal mandates with comparative findings on shocks, institutions, and minister profiles, the

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<sup>1</sup>Blondel’s cross-national data show presidential cabinets are the shorter-lived side of the divide (Blondel, 1985)

present study builds a tailored framework for explaining why some Peruvian PCMs become expendable “circuit-breakers” while others endure.

### 3 Data and Methods

#### 3.1 Dataset construction

The event history comprises all 57 Prime-Ministerial spells between 28 July 1980 and 8 May 2025. Each raw spell records a single start and end date (or censoring). However, because key covariates (e.g., regime membership and days-to-speech) may change mid-tenure, we split each spell at every annual July 28 following the Andersen–Gill (AG) counting-process framework<sup>2</sup>. This produces multiple risk intervals per PCM tenure—one per calendar year—so that time-varying covariates can update precisely as they cross each speech date or regime boundary, while preserving the Cox partial-likelihood and allowing robust standard errors clustered by PCM.

Start-dates are taken from swearing-in decrees in *El Peruano*; end-dates are either the dismissal decree or the acceptance-of-resignation decree. Because Gustavo Adrianzén is still in office, his final interval is right-censored at 8 May 2025.

All variables except Technocrat and Fujimori are time-varying. The speech dummy captures the reshuffle focal point.

#### 3.2 Model specification

The baseline estimation is a Cox proportional-hazards model with shared frailty by presidential administration. Ties are handled with the Efron method, and robust standard errors are clustered on presidencies to absorb unobserved style differences.

We express the hazard for PCM spell  $i$  under president  $j$  at time  $t$  as:

$$h_{ij}(t \mid X_i(t), u_j) = h_0(t) \exp(\beta^\top X_i(t) + u_j), \quad u_j \sim \mathcal{N}(0, \sigma^2),$$

#### Explanation of terms

- $h_{ij}(t \mid X_i(t), u_j)$ : the hazard rate for spell  $i$  under president  $j$  at time  $t$ , i.e., the instantaneous risk of exit.

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<sup>2</sup>If one instead fits models on the raw, unsplit spells, covariates like “days to speech” and Fujimori are fixed at the appointment date, failing to capture mid-tenure transitions. Splitting at July 28 ensures that the dummy for speech timing and the regime dummy reflect the correct interval-specific values.



Table 3.1: Variables, operationalisation, sources, and prior literature

Category	Variable	Operationalisation	Source	Previous work
Outcome	Duration	Days from appointment to exit or censoring	Author dataset	—
Congress	ENP	Quarterly effective number of parties (seat share)	JNE seat records	Huber & Martínez-Gallardo (2008); Martínez-Gallardo (2012)
	Censure motion	1 if an interpellation or censure motion is tabled in a quarter	Congressional Journal	Camerlo & Pérez-Liñán (2015); Dewan & Dowding (2005)
Presidency	Approval	Quarterly presidential approval (%)	Ipsos Perú surveys	Samuels & Shugart (2003); Fischer et al. (2012)
	Speech window	1 if within $\pm 45$ days of 28 July	Author calculation	This study (informal calendar logic)
Economy	GDP shock	1 if quarterly GDP growth $< 0$	BCRP	González-Bustamante & Olivares (2015)
Regime	Fujimori	1 for 5 Apr 1992 – 28 Jul 2000	Author coding	Pérez-Liñán (2007); Fischer et al. (2012)
Profile	Technocrat	1 if PCM has never held elected office	CVs & press	Carreras (2013); Escobar-Lemmon & Taylor-Robinson (2010)

- $h_0(t)$ : the baseline hazard function, representing the underlying risk when all covariates are zero.
- $X_i(t)$ : the vector of (possibly time-varying) covariates for spell  $i$ , including ENP, approval, GDP shocks, and the speech-window dummy.
- $\beta$ : the vector of regression coefficients quantifying each covariate's effect on the log-hazard.
- $\beta^\top X_i(t)$ : the linear predictor (log-relative hazard) combining covariates and coefficients.
- $u_j$ : the shared-frailty term (a random effect) for administration  $j$ , capturing unobserved presidency-level heterogeneity.
- $u_j \sim \mathcal{N}(0, \sigma^2)$ : indicates  $u_j$  follows a normal distribution with mean 0 and variance  $\sigma^2$ , where  $\sigma^2$  measures unexplained variance across presidencies.

## 4 Results

### 4.1 Initial model

Mixed effects coxme model

Formula: `Surv(interval_duration, event) ~ regime_fujimori + speech_window +`

Data: `intervals_AG`

events, n = 58, 73

Random effects:

	group	variable	sd	variance
1	presidentofExecutive	Intercept	0.01999358	0.0003997433
		Chisq	df	p
Integrated	loglik	1.40	3.00	0.7061
Penalized	loglik	1.43	2.02	0.4919
				AIC
				BIC
				-4.6
				-10.78
				-2.6
				-6.75

Fixed effects:

	coef	exp(coef)	se(coef)	z	p
regime_fujimori	-0.4169	0.6591	0.3900	-1.07	0.285
speech_window	-0.1571	0.8546	0.2768	-0.57	0.570

Neither regime membership nor proximity to the July 28 speech window is statistically significant in this minimal specification; point estimates suggest mildly lower exit risk ( $HR < 1$ ) but with wide confidence intervals.

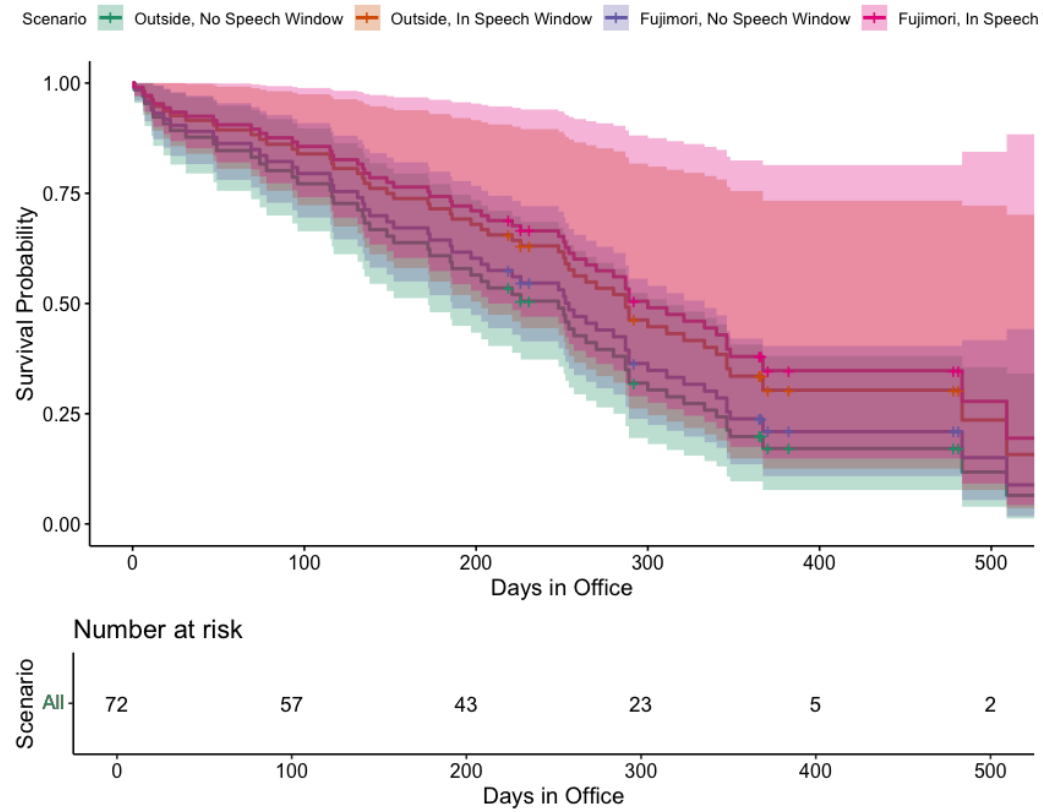


Figure 4.1: Estimated PCM survival curves under four scenarios: outside/in speech window and non-Fujimori/Fujimori periods.

This plot shows four estimated survival curves—each with 95 % confidence bands—derived from the simplified Cox model (no frailty) for combinations of the Fujimori regime dummy and the  $\pm 45$ -day speech window:

- Green (“Outside, No Speech Window”): PCM spells that start outside the speech window and outside the Fujimori period.
- Orange (“Outside, In Speech Window”): Spells that start within  $\pm 45$  days of July 28 but outside Fujimori.
- Blue (“Fujimori, No Speech Window”): Spells during Fujimori that start more than 45 days from the speech.
- Pink (“Fujimori, In Speech Window”): Spells during Fujimori that start within the speech window.

From this plot we can say that overall decline in survival. All curves drop from 1.0 toward 0 as days in office accumulate—by around 300 days only half of PCMs remain in office on average.

Regime effect (Fujimori vs. non-Fujimori): The two Fujimori curves (blue and pink) lie above their non-Fujimori counterparts, indicating longer average survival under Fujimori. For instance, at 200 days the survival probability is roughly 0.65 under Fujimori versus about 0.50 outside it.

Speech-window effect: Within each regime, the “in speech window” curve (orange and pink) tracks slightly above the “no speech window” curve (green and blue), suggesting a modest reduction in exit risk when a spell begins near the annual address date. This difference, however, is small relative to the CIs.

Precision declines over time: The shaded bands widen toward the right, reflecting increasing uncertainty as fewer spells survive into longer tenures. Beyond 400 days, the confidence intervals become very wide, so point-estimate differences at those durations are not very informative.

Number at risk: The table below shows how many intervals remain “at risk” at key time-points (0, 100, 200, ... days). You start with 72 intervals (57 spells split at speech cut-points), dropping to just 2 intervals by 500 days.

Although the point estimates hint at better survival during Fujimori and slightly lower exit risk for spells initiated near the speech, these contrasts fall well within the wide confidence bands. This visual underscores why the minimal two-covariate model didn’t yield statistically significant regime or speech-window effects—and why adding the institutional (ENP), approval, and economic covariates is essential to sharpen the estimated drivers of PCM durability.

## 5 Software and replication

Models are estimated in R 4.3 using packages *survival*, *coxme*, and *ggsurvfit*. All data and scripts are archived on Github

## 6 Conclusion

## 7 Apendixes

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