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Economia italiana

Fondata da Mario Arcelli

numero 3/2025

Pubblicazione quadrimestrale

Roma

ECONOMIA ITALIANA

Rivista quadrimestrale fondata nel 1979 da Mario Arcelli

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Autorizzazione Tribunale di Roma n. 43/1991

ISSN: 0392-775X

Gli articoli firmati o siglati rispecchiano soltanto il pensiero dell'Autore e non impegnano la Direzione della Rivista.

I *saggi* della parte monografica sono a invito o pervengono a seguito di call for papers e sono valutati dall'editor del numero.

I *contributi* vengono valutati anonimamente da due referee individuati dagli editor o dalla direzione e redazione con il supporto dei membri del Comitato Scientifico.

Le *rubriche* sono sottoposte al vaglio della direzione/redazione.

Finito di stampare nel mese di aprile 2025

www.economiaitaliana.org

Editrice Minerva Bancaria srl

DIREZIONE E REDAZIONE Largo Luigi Antonelli, 27 – 00145 Roma
redazione@economiaitaliana.org

AMMINISTRAZIONE EDITRICE MINERVA BANCARIA S.r.l.
presso Ptsclas, Viale di Villa Massimo, 29
00161 - Roma
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ESG factors and sovereign debt

Samantha Ajovalasit *
Andrea Consiglio *

Abstract

We analyse how political stability, an ageing population and climate change affect Italy's ability to manage its public debt. These three factors, which fall within the Environmental, Social, and Governance (ESG) scope, pose specific challenges for our country that require careful and strategic management.

The paper examines three policy briefs to show how Italy addresses these issues. It highlights that improving political stability can help Italy manage its debt better. It also points out the need to deal with an ageing population's economic effects and take action against climate change to support economic growth. The findings stress the importance of including ESG factors in debt management and offer lessons for other countries facing similar challenges.

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Sintesi - Fattori ESG e debito pubblico

Questo studio analizza l'impatto dei fattori Ambientali, Sociali e di Governance (ESG) – in particolare rischio politico, invecchiamento demografico e cambiamento climatico – sulla sostenibilità del debito pubblico italiano. Attraverso l'esame di tre policy brief dedicati, l'analisi evidenzia come ciascun fattore ESG rappresenti una sfida specifica e significativa che richiede risposte politiche mirate e strategie gestionali efficaci. La stabilità politica influenza fortemente la gestione del debito poiché incide sulla fiducia degli investitori, sui costi di finanziamento e sulla crescita economica. Parallelamente, l'invecchiamento della popolazione genera pressioni crescenti sui sistemi di welfare, incrementando significativamente le spese per pensioni e sanità. Infine, il cambiamento climatico porta con sé rischi ambientali ed economici rilevanti, richiedendo ingenti investimenti in misure di adattamento e resilienza. I risultati sottolineano pertanto la necessità di integrare sistematicamente i fattori ESG nelle politiche di gestione del debito, con indicazioni utili anche per altri paesi che affrontano sfide analoghe.

JEL Classification: C61; C63; H63; J11; Q54.

Parole chiave: Gestione del debito sovrano; Analisi della sostenibilità del debito pubblico; Rischio politico; Invecchiamento demografico; Cambiamento climatico; Simulazione e ottimizzazione.

Keywords: Sovereign debt management; Debt sustainability analysis; Political risk; Demographic ageing; Climate change; Simulation and optimization.

1. Introduction

In an increasingly interconnected world, the influence of **Environmental, Social, and Governance** (ESG) factors on public debt sustainability has become a focal point of economic policy and research. The critical ESG components—political risk, demographic shifts from an ageing population, and climate change—create unique and compounded challenges to fiscal stability. Political instability can raise borrowing costs and slow economic growth because unpredictable governments negatively affect market stability (Bekaert *et al.*, 2014). Demographic trends, particularly the growing number of older people in developed countries, put much pressure on public finances. This leads to higher healthcare and pension costs (European Commission, 2023). Meanwhile, the impacts of climate change, such as extreme weather events and rising sea levels, pose a risk of undermining economic output and budget constraints, calling for large-scale adaptation investments (Bolton *et al.*, 2022).

The three policy briefs discussed in this article offer a clear overview of how Italy, representative of many advanced economies, addresses these challenges. The first brief, “*Mitigating the Fiscal Risks of Political Instability: Policy Insights for Sovereign Debt Sustainability*”, illustrates how political reforms can improve debt sustainability by stabilizing governance structures and, in turn, reducing the fiscal risks associated with political volatility. The second brief, “*Securing Italy’s Economic Stability in the Era of Population Ageing*”, focuses on Italy’s demographic challenges. It emphasizes the fiscal pressures that arise from an ageing population and outlines strategies to mitigate these effects through policy reforms to increase productivity and manage healthcare costs. Finally, the third brief, “*Sovereigns on Thinning Ice. Navigating Debt Sustainability Under*

Climate Change”, discusses integrating climate risk into debt sustainability analyses. It emphasizes the need for proactive measures to address the fiscal impacts of climate change through adaptation and international cooperation.

These briefs emphasize the need for a complete and proactive method to handle political, demographic, and environmental risks. Italy’s experience is a useful example for other countries facing similar ESG challenges. It shows the benefits of including detailed risk assessments in public debt management to achieve long-term financial and economic stability

2. Mitigating the Fiscal Risks of Political Instability: Policy Insights for Sovereign Debt Sustainability

2.1. The Role of Political Stability in Public Debt Management

Political risk is a critical factor influencing sovereign debt sustainability, particularly in high-debt economies where fiscal margins are constrained. The interplay between governance quality, market confidence, and borrowing costs has been widely studied, with empirical evidence showing that political instability leads to higher sovereign risk premiums, reduced economic growth, and deteriorating fiscal conditions (Bekaert *et al.*, 2014; Eichler, 2014). Political risk encompasses various dimensions, including government instability, policy uncertainty, social unrest, and electoral volatility, affecting a nation’s ability to manage and sustain its debt.

The impact of political risk on sovereign debt is particularly pronounced in economies with already high debt-to-GDP ratios, as investors demand

higher yields to compensate for uncertainty (Ajovalasit *et al.*, 2024). This creates a feedback loop: heightened political instability increases borrowing costs, exacerbating fiscal stress and further destabilizing economic conditions. Conversely, strong governance frameworks and policy consistency can help mitigate these risks by fostering investor confidence, stabilizing debt markets, and reducing refinancing pressures.

2.2. Empirical Evidence: Case Studies from Italy and France

Ajovalasit *et al.* (2024) integrate International Country Risk Guide (ICRG) ratings into sovereign debt models to quantify how governance quality influences fiscal outcomes. Two case studies—Italy’s governance reforms from 2014 to 2019 and France’s 2024 snap elections—illustrate the stark contrast between stable and volatile political environments.

I. Italy (2014–2019): Political Reforms and Debt Stability

Italy implemented structural reforms to improve governance and economic stability during this period. Political ratings improved, and this reduced perceived political risk, which led to stabilising debt trajectories. As shown in Figure 1, Panel (a), the fan charts with political DSA projections indicate a much narrower debt-to-GDP range compared to the counterfactual scenario, where political ratings remained static. The reforms allowed Italy to achieve lower realised debt ratios than initially anticipated, highlighting the fiscal benefits of governance improvements.

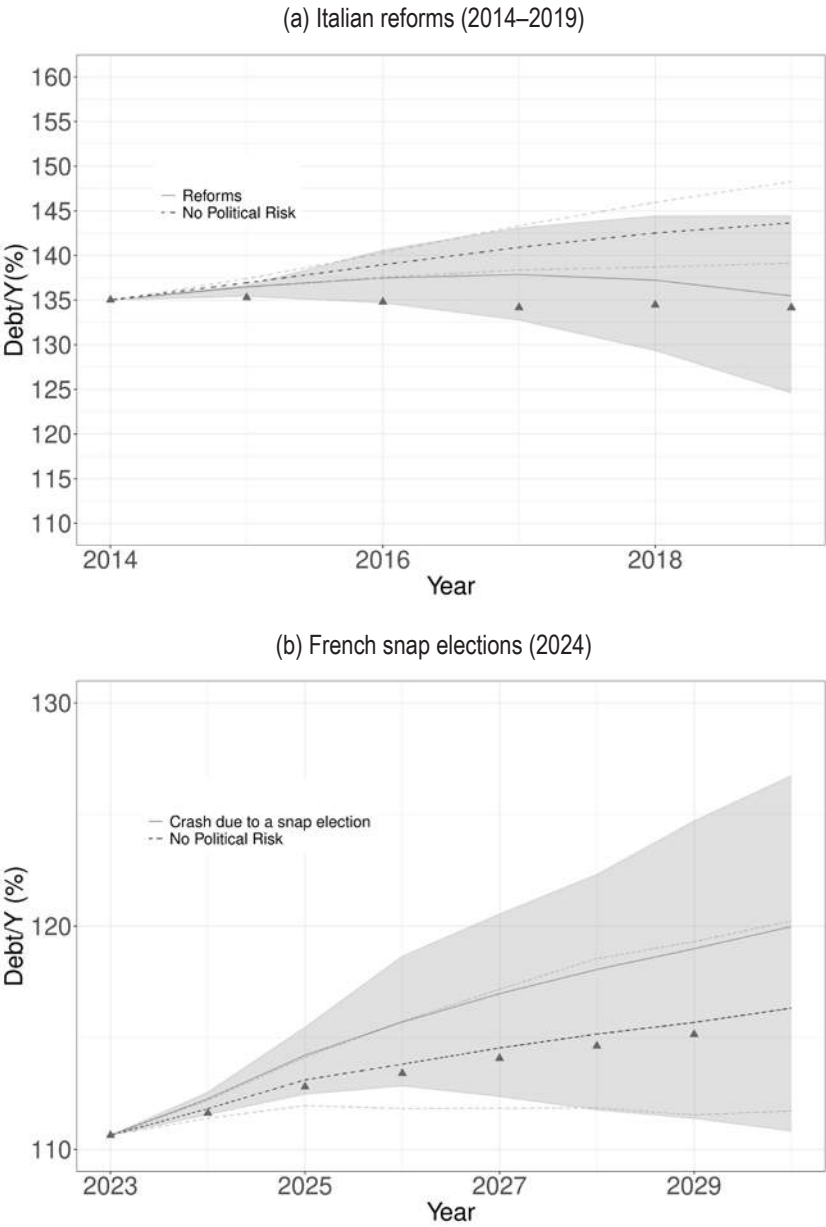
II. France (2024): Snap Elections and Fiscal Volatility

In contrast, the snap elections in France during the summer of 2024

created a sudden drop in political ratings, increasing perceived risk among investors. Figure 1, Panel (b), illustrates how this shock significantly widened the debt-to-GDP trajectory compared to a counterfactual scenario in which France maintained political stability. The fan charts display a higher and more volatile debt range, emphasising the destabilising impact of political shocks on fiscal outcomes. Projections from the 2024 World Economic Outlook reinforce this assessment, showing raised debt ratios due to heightened political uncertainty.

Informed by the Italian and French experiences, policymakers must act firmly to manage political risk and its fiscal implications. Even small improvements in governance quality can yield significant budgetary benefits. Policymakers can stabilise debt trajectories and foster economic resilience by prioritising political stability and incorporating political risk into debt management strategies. This is particularly urgent in a global environment characterised by rising interest rates and increasing geopolitical tensions, exacerbating high-debt economies' vulnerabilities.

Figure 1 **Debt-to-GDP trajectories with and without political DSA for (a) Italian reforms (2014–2019) and (b) French snap elections (2024).** Fan charts show projections with political risk, while solid lines represent counterfactual scenarios without changes in political ratings. Triangles indicate realised debt ratios for Italy and France’s 2024 World Economic Outlook projections (Source: Ajovalasit et al. 2024).



2.3. Integrating Political Risk into Debt Sustainability Frameworks

Traditional debt sustainability models often exclude political risk from fiscal projections, leading to an incomplete assessment of sovereign creditworthiness. However, recent advancements in risk-based DSA methodologies incorporate governance indicators into debt forecasting models, allowing for more accurate fiscal planning. Ajovalasit et al. (2024) suggest that a 10-point deterioration in ICRG ratings correlates with an average increase of 106 basis points in sovereign spreads and a two-p.p. reduction in GDP growth, demonstrating the significant economic consequences of political instability.

To address these challenges, policymakers should incorporate governance risk metrics into their sovereign debt management frameworks. The following strategies can help mitigate the fiscal risks associated with political instability:

I. Integrate Political Risk into Debt Sustainability Frameworks:

- Governments and international institutions should adopt debt sustainability analysis (DSA) frameworks that include political risk metrics, such as those proposed by Ajovalasit et al. (2024).
- Use reliable data sources like the International Country Risk Guide to track governance-related vulnerabilities that affect debt dynamics.

II. Implement Structural Reforms to Mitigate Political Risk:

- Focus on reducing corruption, improving bureaucratic efficiency, and enhancing the rule of law to improve political stability and lower borrowing costs.
- Develop mechanisms to ensure consistency in policy implementation across political cycles to build investor confidence.

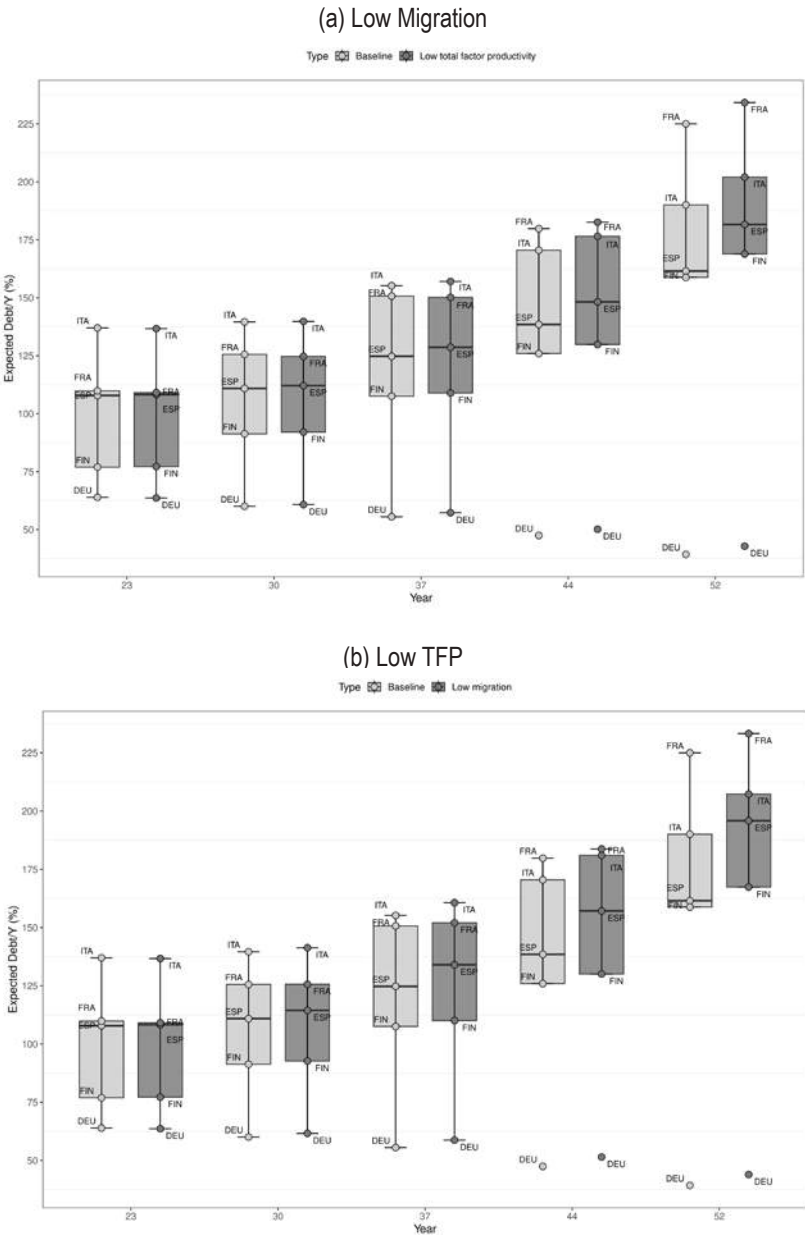
3. Securing Italy's Economic Stability in the Era of Population Ageing

3.1. Impact of Ageing Populations on Debt Dynamics

As outlined in Ajovalasit, Consiglio and Provenzano (2024), ageing populations exert substantial pressure on public finances through increased expenditures on pensions and healthcare. This demographic trend is exacerbated in countries like Italy, where a rapidly ageing population, low fertility rates, and slow economic growth pose a severe challenge to fiscal stability.

The European Commission's 2024 Ageing Report (European Commission, 2023) predicts a decline in the EU's population from 449 million in 2022 to 432 million by 2070, with public spending on ageing-related costs projected to rise significantly. In Italy, these demographic shifts are expected to push debt-to-GDP ratios potentially above 150% by mid-century unless significant policy interventions are made. We use a stochastic modelling approach to assess these risks, utilizing data from Italy and other EU countries such as Finland, France, Germany, and Spain. We also propose risk management strategies aimed at mitigating the impact of ageing on public debt.

Figure 2 **Snapshots of the debt-to-GDP ratio over time under various demographic scenarios compared to the baseline.** Each point represents the expected debt-to-GDP ratio at a given time, with box plots illustrating the range of impacts across countries in the panel. (Source: Ajovalasit, Consiglio and Provenzano 2024)



3.2. Strategies for Managing Demographic Risks

The authors emphasize several policy options to address the fiscal implications of demographic ageing:

- I. **Mitigating the Impact of Low Migration:** A low migration scenario significantly impacts debt sustainability, as reduced labour force growth directly affects economic output and fiscal revenues. In Figure 2, Panel (a), we show that in a low migration scenario, the debt-to-GDP ratio begins to increase visibly from 2037, reaching a worsening of 20 percentage points by 2052 compared to baseline projections (Ajovalasit, Consiglio and Provenzano, 2024).

Policies to enhance labour force growth through targeted immigration reforms can help compensate for the declining birth rates. Such measures include simplifying immigration procedures and improving integration programs.

- II. **Addressing Productivity Decline in Low TFP Scenarios:** A low Total Factor Productivity (TFP) scenario exacerbates debt sustainability challenges by reducing GDP growth. In Figure 2, Panel (b), we show that the debt-to-GDP ratio worsens under low productivity conditions from 2045, with a cumulative negative impact of 15 percentage points by 2052 (Ajovalasit, Consiglio and Provenzano, 2024).

A policy action Investing in R&D, digital transformation, and education to boost productivity is critical. These investments support economic growth and can offset the negative impacts of a shrinking workforce.

- III. **Fighting Low Fertility Rates:** A low fertility scenario has a smaller but still noticeable effect on the debt-to-GDP ratio. While its impact is less severe than low migration or TFP scenarios, it still contributes to fiscal stress by shrinking the future labour force. We find that this scenario

increases the debt-to-GDP ratio over the long term, even though not dramatically (4 percentage points. Figure not shown).

Implementing family support policies, such as parental leave incentives and childcare subsidies, to encourage higher birth rates, thereby stabilizing the labour force in the long term.

4. Sovereigns on Thinning Ice: Navigating Debt Sustainability Under Climate Change

4.1. Challenges Posed by Climate Change to Sovereign Debt

Climate change poses severe risks to public debt sustainability, especially for countries prone to extreme weather events and rising adaptation costs. The report “Sovereigns on Thinning Ice: Debt Sustainability, Climate Impacts, and Adaptation” (Calcaterra *et al.*, 2025) details how these environmental risks, if not proactively managed, can significantly elevate debt-to-GDP ratios, pushing them to unsustainable levels. Countries with high exposure to climatic disruptions face increased fiscal vulnerabilities that can destabilize their economic frameworks over both the short and long term.

Italy’s geographic and economic characteristics make it particularly susceptible to the impacts of climate change, which pose a significant risk to its debt sustainability. As highlighted in the policy brief, Italy, being a Mediterranean country, faces heightened risks from increased frequency and intensity of droughts, heat waves, and flooding. These climatic events directly affect agriculture, tourism, and overall economic productivity, sectors critical

to the Italian economy.

The paper also introduces a novel integration of Debt Sustainability Analysis (DSA) with Integrated Assessment Models (IAMs), utilizing the RICE50+ model. This model blends regional socio-economic pathways (SSPs) and climate scenarios (Representative Concentration Pathways, RCPs) to predict economic and fiscal effects. Such integration allows for a nuanced understanding of how different climate scenarios could affect national economies. For instance, under moderate scenarios like SSP2-RCP4.5, countries might need to adjust their fiscal policies minimally, while severe scenarios like SSP3-RCP7.0 could necessitate major adjustments, particularly in vulnerable nations like Italy where up to 1% of GDP annually might be required for debt stabilization (see Table 1).

Table 1 Fiscal adjustments under different climate scenarios

Scenario	Advanced Economies (Italy, EU)	Emerging Markets (Brazil, India)	Highly Vulnerable Economies
SSP2-RCP4.5 (Moderate Climate Impact)	0.2% of GDP annually	0.5% of GDP annually	1.0% of GDP annually
SSP3-RCP7.0 (Severe Climate Impact)	1% of GDP annually	1.5% of GDP annually	2.6% of GDP annually

4.2. Empirical Evidence and Policy Implications

The study by Calcaterra *et al.*, (2025) provides crucial insights into the fiscal implications of climate change. Due to its extensive coastline and

dependence on agriculture and tourism, Italy faces severe immediate effects from climate events. The study highlights that such events can diminish GDP growth by an average of 0.5% annually. This reduction can escalate debt-to-GDP ratios significantly—by up to 10 percentage points over two decades. This is a substantial increase, given Italy's already high public debt levels, and underscores the urgent need for effective fiscal management and disaster preparedness to mitigate these short-term impacts.

Over the long term, the absence of adequate adaptation measures could lead to a doubling of fiscal pressures by 2050. This scenario poses a significant risk for Italy, potentially exacerbating the challenges of an ageing population and stagnant economic growth (see Section above). The cumulative effect of these pressures could strain Italy's fiscal resources, pushing public debt to even more unsustainable levels and limiting the country's economic recovery and growth potential.

The empirical evidence aligns with broader academic research linking climate risks with macroeconomic instability and increased borrowing costs, which are particularly pertinent for Italy. Studies by Batten (2018) investment and productivity, and understanding the economic consequences of climate change is becoming a necessity not just for climate economists but also for a wider range of economic professionals involved in modelling and forecasting macroeconomic variables. The focus of this review is on the key theoretical and empirical modelling issues in the analysis of the macroeconomic risks deriving from climate change. The paper develops the taxonomy introduced by a number of previous Bank of England studies, which distinguish between physical and transition risks of climate change. The paper then identifies the different channels through which these risks are transmitted to the macro-economy, either through (unpredictable and Bolton *et al.*, (2022) suggest that

heightened climate risks lead to macroeconomic instability and erode investor confidence, resulting in higher borrowing costs. This relationship is critical for Italy, where fiscal stability is already under pressure from various economic and demographic factors.

4.3. Strategic Adaptation and Financing Options

Adaptation investments can help mitigate the negative fiscal impacts of climate change, especially under severe scenarios. However, the effectiveness of these measures depends on their financing sources and the extent of climate damage.

The study analyses three financing strategies:

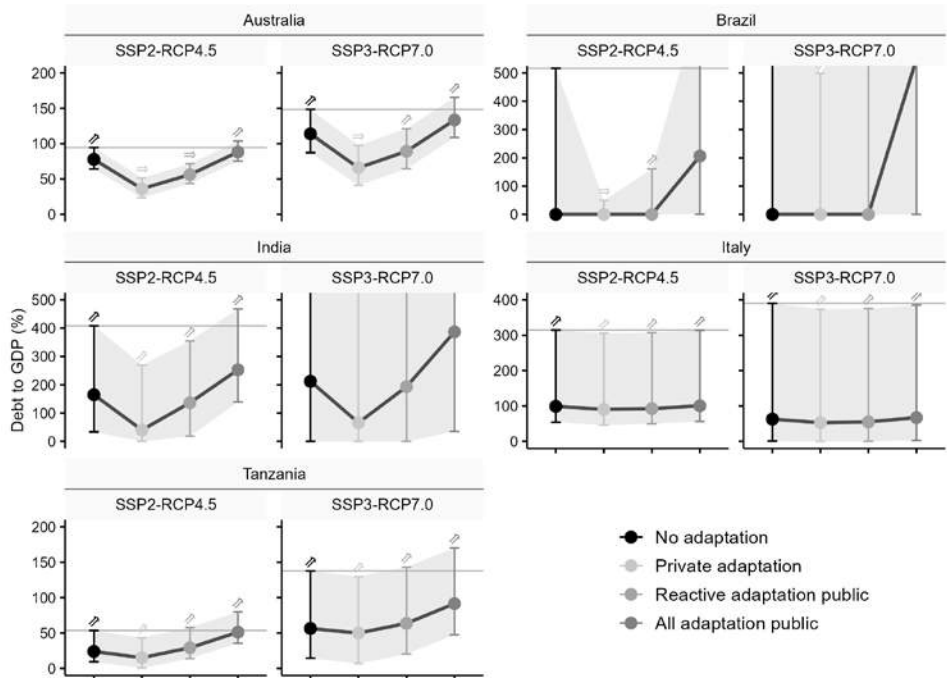
1. full private-sector funding, which yields the best debt outcomes but is mainly unrealistic, as currently, private-sector contributions account for less than 2% of global adaptation investments (Tall *et al.*, 2021);
2. a mixed approach with governments only funding reactive adaptation (like disaster relief);
3. full government financing, which can worsen debt sustainability due to increased sovereign borrowing.

Figure 3 illustrates the impact of climate adaptation on debt ratios by the end of the century under scenarios of high climate damage. The results show a U-shaped relationship across various policies: fully private adaptation consistently reduces debt burdens, although its effects may be limited in some countries. Public spending on reactive adaptation can enhance debt sustainability, but fully government-funded adaptation is expensive and may exceed its benefits.

Despite some reductions in debt, no adaptation strategy completely mitigates the fiscal risks associated with climate change, as evidenced by the upward arrows indicating unsustainable debt trajectories.

The mixed strategy—where the public sector manages reactive measures while the private sector funds proactive ones—appears to be the most viable option. This approach has the potential to prevent further deterioration of debt levels. Policymakers should aim to balance adaptation spending with long-term debt sustainability to prevent imposing excessive financial burdens.

Figure 3 Effect of climate change adaptation on end-of-century debt ratios under high climate damages. The figure illustrates median values and the inter-quartile range for different adaptation policies. The double arrow above each whisker indicates debt trajectory stability: horizontal arrows signify stable debt dynamics, while upward-pointing arrows indicate unsustainable debt increases. (Calcaterra, M. et al. (2025).



4.4. Strategic Responses to Climate-Induced Fiscal Risks

Italy's vulnerabilities to climate change necessitate specific, targeted policy actions to integrate climate risks effectively into its national debt management frameworks and broader fiscal policies.

I. Developing Comprehensive Climate Risk Management Frameworks:

- **Italy-specific DSA Models:** Develop Debt Sustainability Analysis models that are tailored to Italy's specific climate risks and economic context. These models should include projections for various climate scenarios, assessing impacts on critical sectors such as agriculture, tourism, and manufacturing.
- **Scenario Analysis for Fiscal Planning:** Implement scenario planning to explore different climate futures and their potential impacts on Italy's economy. This approach should guide the development of flexible fiscal policies that can adapt to varying climate conditions.

II. Enhancing Funding for Climate Adaptation:

- **Public-Private Partnerships:** Utilize public-private partnerships to improve infrastructure resilience, especially in high-risk areas such as coastal regions and agriculture. Promote private investments in green infrastructure by offering incentives like tax breaks or matching public funding.
- **Utilization of EU Funds:** Look for funding from European Union programs, such as the European Structural and Investment Funds, for climate adaptation projects. These funds can help pay for large infrastructure upgrades and new sustainable technologies.

III. Strengthening International and Regional Cooperation:

- **European Union Collaboration:** Work together more effective-

ly within the EU to create common strategies for assessing and managing climate risks. Italy should push for joint funding options and agreements to share technology in order to address the challenges of climate change.

- **Global Climate Agreements:** Take an active role in international climate agreements by supporting stronger funding for climate-related projects and helping countries hit hard by climate change with their debt. Italy can lead efforts to promote climate resilience as a key part of global financial stability.

5. Conclusion

This paper looks at how environmental, social, and governance (ESG) factors—like political risk, an ageing population, and climate change—affect Italy's ability to manage its debt. Each policy brief highlights the importance of taking a holistic and proactive approach to deal with these risks to ensure enduring financial and economic stability. Italy's experience serves as a valuable example of why it's important to consider various risks when managing public debt. The country's efforts in political reform, managing its ageing population, and adapting to climate change show the need for combined policy strategies that address the impacts of political stability, demographic changes, and environmental issues. These approaches are crucial for keeping the economy stable and ensuring that a country can withstand global challenges.

Acknowledgement

This study was funded by the European Union - NextGenerationEU, Mission 4, Component 2, in the framework of the GRINS -Growing Resilient, INclusive and Sustainable project (GRINS PE00000018 – CUP B73C22001260006). The views and opinions expressed are solely those of the authors and do not necessarily reflect those of the European Union, nor can the European Union be held responsible for them.

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Pubblicità

1 pagina **€ 1.000,00** - 1/2 pagina **€ 600,00**

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ECONOMIA ITALIANA 2024/3

Il public procurement in Italia: opportunità e questioni aperte

La spesa pubblica per appalti pubblici rappresenta il 15% del PIL e, oltre alla dimensione economica, ha un impatto significativo su vari aspetti della vita quotidiana. Questo numero, editor il prof. **Gustavo Piga**, dell'Università di Roma Tor Vergata, esplora le sfide che i policy-makers devono affrontare nel bilanciare esigenze ecologiche, sociali e locali e la difficoltà di tradurre la crescente consapevolezza dell'importanza della spesa pubblica in impatti concreti per il tramite di acquisti e appalti.

Le direttive UE del 2014 non hanno raggiunto gli obiettivi di aumentare la trasparenza degli appalti, semplificarne le procedure e favorire le PMI. A questi fini, sottolinea l'editor, il ruolo delle istituzioni democratiche assume una rilevanza strategica per bilanciare obiettivi locali, nazionali e transnazionali. La centralizzazione delle procedure di acquisto se da un lato potrebbe garantire maggiore celerità e un accesso alle grandi imprese europee, dall'altro penalizza le imprese locali. Sono necessari in particolare una maggiore professionalizzazione delle competenze nel settore della spesa pubblica per appalti e specifici investimenti in questo ambito da parte delle istituzioni europee e degli Stati membri.

Il volume raccoglie le evidenze sugli appalti pubblici italiani e fornisce indicazioni utili per una futura direttiva europea che possa migliorare l'efficacia delle procedure. **Stéphane Sausier**, nel saggio *Contract Modifications: Good in Practice, Bad in Theory? Exploring New Data Concerning Italy*, analizza la rinegoziazione degli appalti. **Andrea Bafundi, Riccardo Camboni e Paola Valbonesi**, nell'articolo *Recent Regulatory Reforms in Italian Public Procurement: an Empirical Analysis on their Impact*, esaminano le due recenti riforme degli appalti in Italia e se e come queste abbiano accelerato le procedure. L'articolo *La concorrenza e gli appalti pubblici* di **Andrea Pezzoli e Alessandra Schiavina** riesamina il ruolo in materia dell'Autorità Garante della Concorrenza. Il saggio di **Nicola Dimitri**, *Public Procurement of Innovation: a Focus on Italy*, esamina come gli appalti possano stimolare l'innovazione.

Completano il volume, al di fuori del tema monografico, l'*Intervento* di **Samantha Ajovalasit** e **Andrea Consiglio**: *ESG Factors and Sovereign Debt*, sulle relazioni fra debito pubblico e rischi politici, invecchiamento della popolazione e cambiamento climatico. Numerose le *Rubriche*. **Mariano Bella** tratta dell'importanza del ruolo dei servizi in Italia. Due rubriche sono poi dedicate ai recentissimi e importanti cambiamenti nel mondo delle assicurazioni. Si tratta della polizza obbligatoria per le imprese sui rischi catastrofali, di cui tratta **Marco Brachini** e del varo dell'Arbitro assicurativo, analizzato da **Luigi Baccaro**. Chiude il numero l'analisi di **Marco Vulpiani** su ristrutturazione produttiva, investimenti e crescita: le sfide per l'economia italiana.

ECONOMIA ITALIANA nasce nel 1979 per approfondire e allargare il dibattito sui nodi strutturali e i problemi dell'economia italiana, anche al fine di elaborare adeguate proposte strategiche e di *policy*. L'Editrice Minerva Bancaria è impegnata a portare avanti questa sfida e a fare di Economia Italiana il più vivace e aperto strumento di dialogo e riflessione tra accademici, *policy makers* ed esponenti di rilievo dei diversi settori produttivi del Paese.