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Ελληνική Οικονομία: Όταν το «αισιόδοξο» μετατρέπεται σε «βασικό»

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Economic Research & Investment Strategy

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Όταν το «αισιόδοξο» μετατρέπεται σε «βασικό»

- Όταν, στα τέλη του 2020 και αρχές του 2021, είχαμε αναθεωρήσει ριζικά προς το θετικότερο τις προβλέψεις μας αναφορικά με την ελληνική οικονομία, η αναθεώρηση αυτή είχε τότε θεωρηθεί από υπεραισιόδοξη έως ανεδαφική. Το πιο χαρακτηριστικό σχόλιο που είχα δεχθεί σε μια από τις παρουσιάσεις των προβλέψεων μας σε επενδυτές ήταν ότι το αναθεωρημένο μας σενάριο ήταν για τους επενδυτές πάρα πολύ χρήσιμο και ενδιαφέρον καθώς αυτοί το χρησιμοποιούσαν ως το αισιόδοξο σενάριο στα δικά τους υποδείγματα. Έχοντας φτάσει στα μέσα του 2021 και ιδιαίτερα μετά την ανακοίνωση από την ΕΛΣΤΑΤ των στοιχείων του ΑΕΠ του 1^{ου} τριμήνου 2021, η πρόβλεψη μας για ανάπτυξη στην περιοχή του 6% για το 2021-2022 έχει υιοθετηθεί πλέον ως το βασικό σενάριο της πλειοψηφίας των αναλυτών της ελληνικής οικονομίας.
- Το σκεπτικό βάσει του οποίου είχαμε αναθεωρήσει τις προβλέψεις μας στις αρχές του έτους και για το οποίο τώρα αισθανόμαστε δικαιωμένοι ήταν διττό:
 - **Ο** Καταρχήν αξιολογήσαμε την επίδραση στις αναπτυξιακές προοπτικές της ελληνικής οικονομίας τριών πολύ σημαντικών παραγόντων:
 - της βελτίωσης στους όρους χρηματοδότησης και ρευστότητας της οικονομίας μετά την ένταξη των ελληνικών κρατικών ομολόγων στο πρόγραμμα PEPP έκτακτης ποσοτικής χαλάρωσης της ΕΚΤ,
 - 2. της επερχόμενης δημοσιονομικής χαλάρωσης και
 - 3. τέλος αλλά περισσότερο σημαντικό, τις επιπτώσεις του Ταμείου Ανάκαμψης και Ανθεκτικότητας ύψους €30 δισεκ.
 - Ταυτόχρονα όμως αξιολογήσαμε το γεγονός ότι οι τρείς αυτοί πολύ θετικοί παράγοντες έρχονταν με τρόπο παντελώς απρόβλεπτο να ικανοποιήσουν σε υπερθετικό μάλιστα βαθμό τις δύο αναγκαίες αναπτυξιακές προϋποθέσεις όπως τις είχαμε διατυπώσει σε ανύποπτο

Όταν το «αισιόδοξο» μετατρέπεται σε «βασικό»

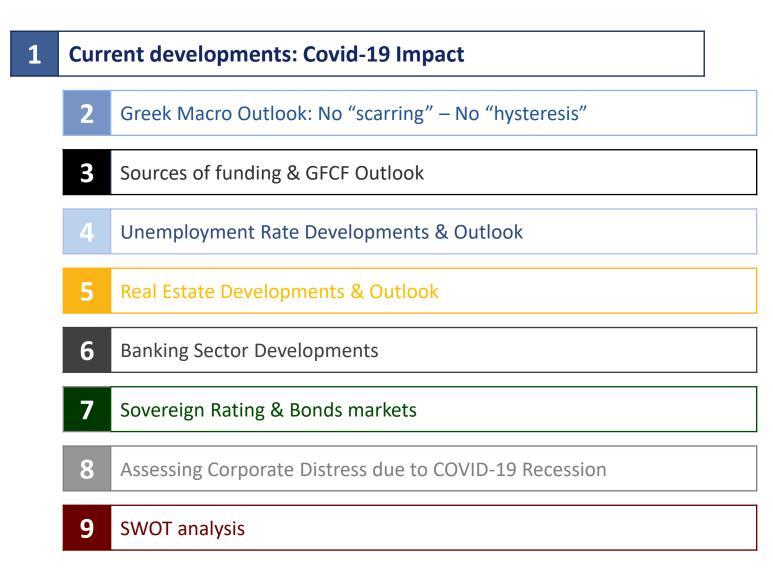
χρόνο, δηλαδή την ανάγκη για «αναπτυξιακό προσανατολισμό των πρωτογενών πλεονασμάτων» καθώς και την ανάγκη «αναπτυξιακής ποσοτικής χαλάρωσης». Καταρχήν το οικονομικό επιτελείο κατάφερε, παράλληλα με τα πρόσκαιρα μέτρα οικονομικής στήριξης, να χρησιμοποιήσει μέρος της μείωσης των πρωτογενών πλεονασμάτων για να υλοποιήσει και πιο μόνιμα μέτρα όπως η μείωση ασφαλιστικών εισφορών και συντελεστών φορολογίας εισοδημάτων και κερδών, κατάργηση της εισφοράς αλληλεγγύης για τους εργαζόμενους του ιδιωτικού τομέα ενώ πολλά περισσότερα είναι στη φάση της επεξεργασίας και του σχεδιασμού. Ταυτόχρονα και το Πρόγραμμα Ανάκαμψης και Ανθεκτικότητας το οποίο θα χρηματοδοτηθεί μέσω ομολόγων που θα εκδοθούν από πλευράς Ευρωπαϊκής Ένωσης και θα αγορασθούν - εν μέρη - από την ΕΚΤ μέσω προγραμμάτων ποσοτικής χαλάρωσης, έχει όλα εκείνα τα χαρακτηριστικά της «αναπτυξιακής ποσοτικής χαλάρωσης» δηλαδή της διαδικασίας εκείνης όπου η αγορά ομολόγων από πλευράς κεντρικής τράπεζας δημιουργεί τον απαραίτητο δημοσιονομικό χώρο έτσι ώστε τα κράτη-μέλη της Ευρωζώνης να προωθήσουν μακρόπνοα σχέδια επενδύσεων υποδομών, βιώσιμης ανάπτυξης και αναδιάρθρωσης των οικονομιών τους. Καθώς δε η ελληνική οικονομία ξεκινά από ένα πολύ χαμηλό επίπεδο οικονομικής δραστηριότητας και ταυτόχρονα θα είναι από τις πιο ωφελημένες οικονομίες σε όρους χρηματοδότησης προς ΑΕΠ, οι προοπτικές της προδιαγράφονται ιδιαίτερα θετικές.

Τώρα λοιπόν που το αισιόδοξο σενάριο έχει γίνει βασικό, υπάρχει κάτι που διαφοροποιεί τον τρόπο που «διαβάζουμε» εμείς την ελληνική οικονομία έναντι των υπολοίπων; Κατά την άποψη μας αυτό που δεν έχουν ακόμα ενστερνισθεί και προεξοφλήσει πλήρως οι αγορές είναι οι μακροχρόνιες επιπτώσεις των παραγόντων αυτών. Ενώ λοιπόν η πλειοψηφία των αναλυτών εξακολουθεί να θεωρεί ότι μετά την αρχική ανάκαμψη, η ελληνική οικονομία από το 2023 και ύστερα θα επανέλθει σε ρυθμούς μεγέθυνσης περί το 2%, η δική μας τοποθέτηση είναι ότι το ελληνικό ΑΕΠ μπορεί να συνεχίσει να αυξάνεται με ρυθμούς 3,5%-4% σε μεσοπρόθεσμο ορίζοντα, βάζοντας την ελληνική οικονομία σε μια αισθητά υψηλότερη αναπτυξιακή τροχιά σε σχέση με τα προ-COVID επίπεδα.

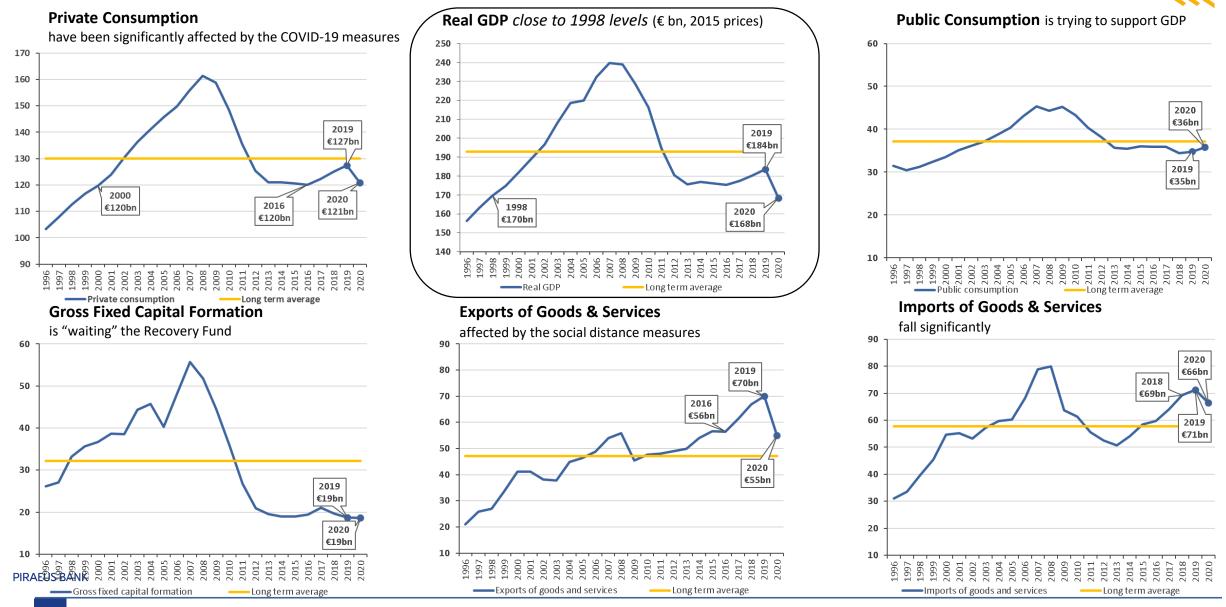
(as of Jun. 21)	i.	Economic	Economic Outlook, Baseline Scenario		
	2020 (a)	2021	2022	2023	2024
Real GDP (% change) ¹	-7.8	6.6	6.1	4.1	3.8
Unemployment rate (% of labour force)	16.3	16.3	15.2	12.5	11.0
Non-residential real estate prices (% change) ²	1.2	4.5	6.1	6.0	5.7
Residential real estate prices (% change)	4.3	5.7	6.4	5.7	5.0
General Government Primary Balance (% of GDP, ESA 2010)	-6.7	- 7.2	0.0	1.5 up to 2.0	1.5 up to 2.0

Note: 1) 2020 Real GDP (% change) is based on the average of the quarterly annual seasonally adjusted growth rates. 2) Bank of Greece Office Price Index



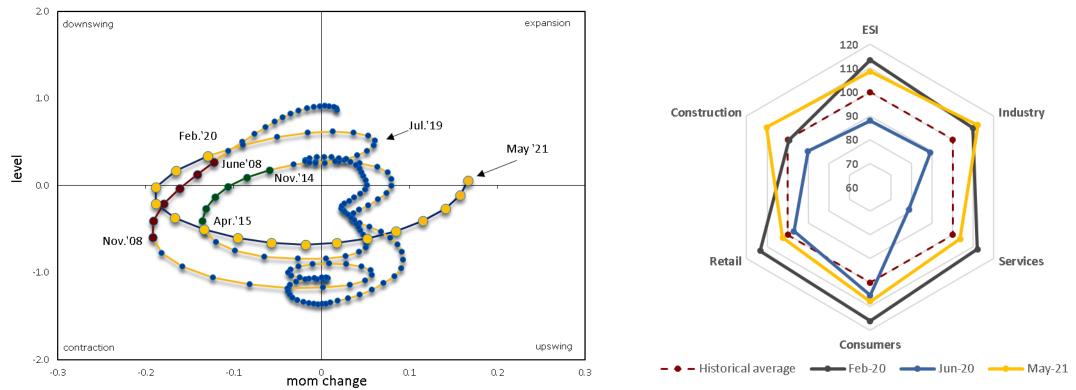


A Bird's Eye View of Greek GDP: Real GDP falls to €168bn due to the pandemic shock



Covid-19 Impact on Sentiment Indicators: We have already been here 2 times before since 2008. So we are a tough bunch of guys!

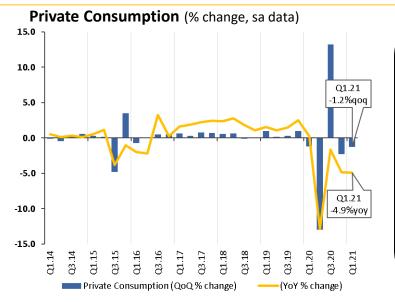
Radar Chart - Confidence Indicators (sa data)^{1.}



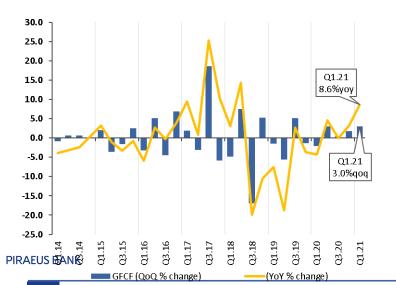
Economic Sentiment Tracer

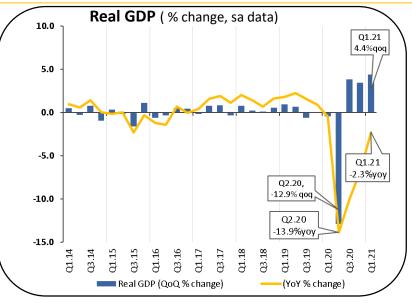
PIRAEUS BANK Note: 1. In the radar chart, a development away from the center reflects improvement in a given indicator. The ESI is computed with the following sector weights: industry, 40%; services, 30%; consumers, 20%; construction, 5%; and retail trade, 5%. All confidence indicators are normalised to a mean of 100 and a standard deviation of 10, similar ESI (Jan 2000 – Dec 2020 = 100).

GDP components: Private consumption and the external sector have been affected the most

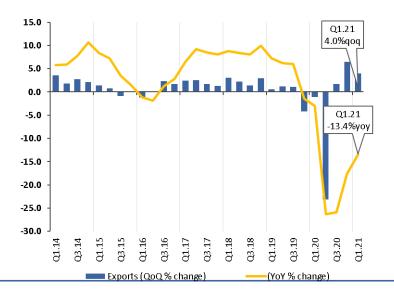


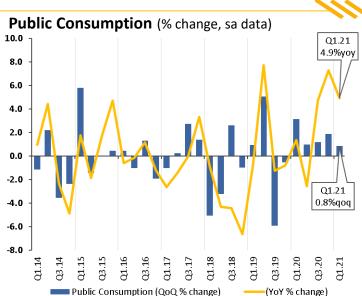
Gross Fixed Capital Formation (% change, sa data)



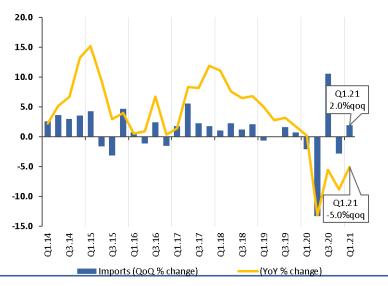


Exports of Goods & Services (% change, sa data)





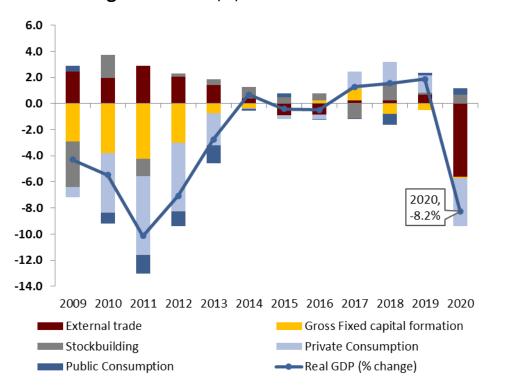
Imports of Goods & Services (% change, sa data)



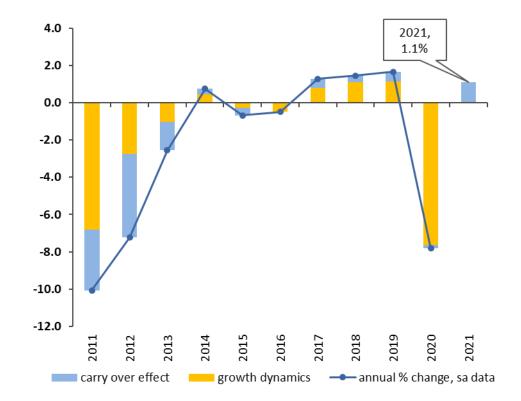
The impact of GDP components & 2021 carry over effect



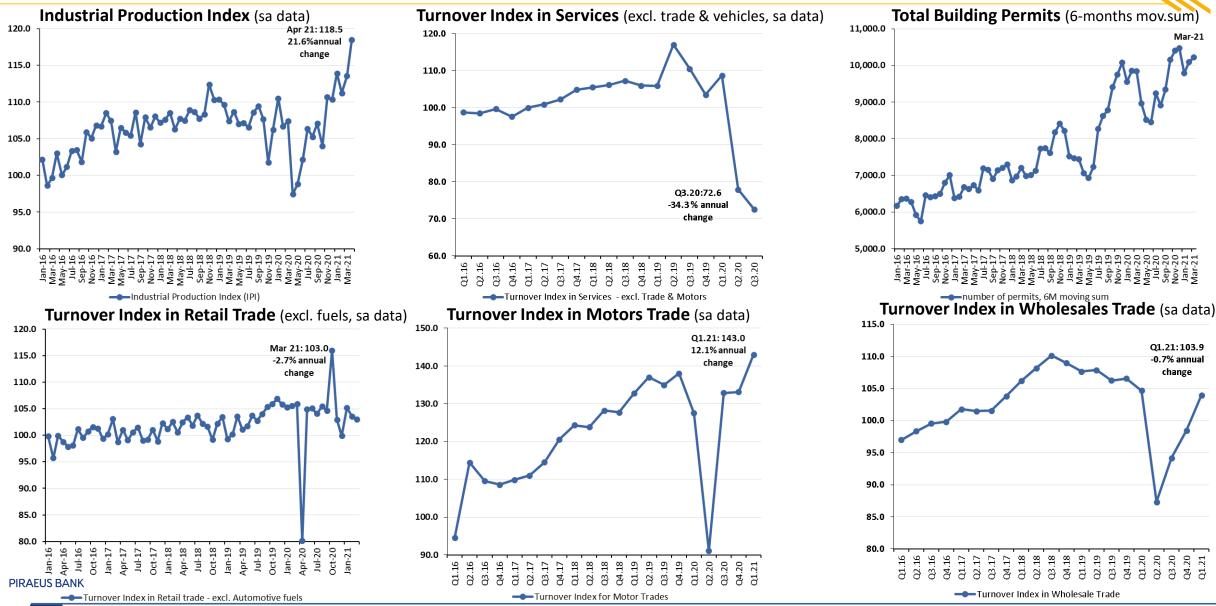
Contribution of GDP components to annual growth rate (%)

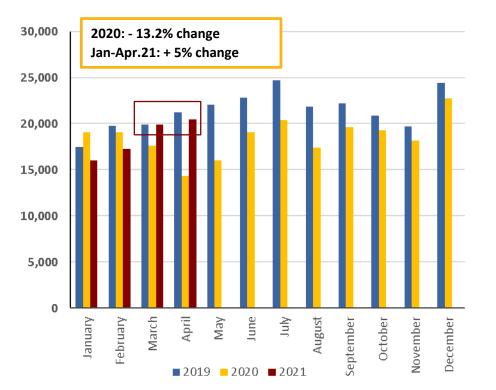


Carry over effect & growth dynamics (%)



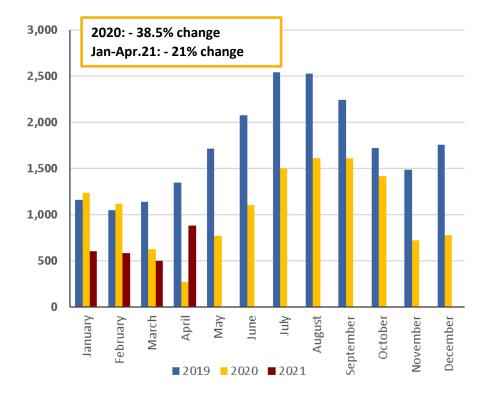
Short-term economic indicators: A significant asymmetry between Manufacturing & Services





Turnover of Enterprises ^{1,2} (€ mn)

Turnover of Enterprises under Suspension of Operation^{1,2} (€ mn)



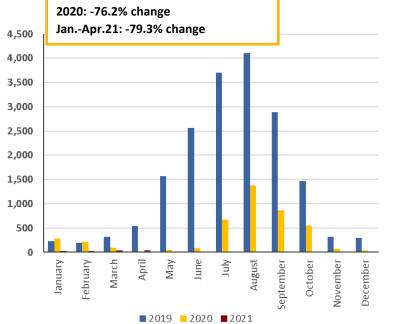
Note: 1) Only double-entry accounting bookkeeping. Enterprises with single-entry accounting bookkeeping are obliged to submit data to tax authorities on a quarterly basis, while enterprises with double-entry accounting bookkeeping are obliged to submit data respectively on a monthly basis. Therefore, for the total of enterprises, data are available only on a quarterly basis.

2) The enterprises that were under suspension of operation, on the basis of state order, due to covid-19 were classified in the following economic activity classes: **47** Retail trade (exc. motor vehicles & motorcycles), **55** Accommodation, **56** Food & beverage service activities, **59** Motion picture, video, television programme production etc., **71** Architectural & engineering activities etc, **77** Rental & leasing activities, **82** Office administrative & support etc, **85** Education, **88** Social work activities without accommodation, **90** Creative, arts & entertainment, **91** Libraries, archives, museums etc, **92** Gambling & betting activities, **93** Sports activities, amusement etc, **94** Activities of membership organisations, **96** Other personal service activities

Covid-19 Impact on Tourism: Tourism is beginning to show sings of a pick-up, but we are still way-off normal levels

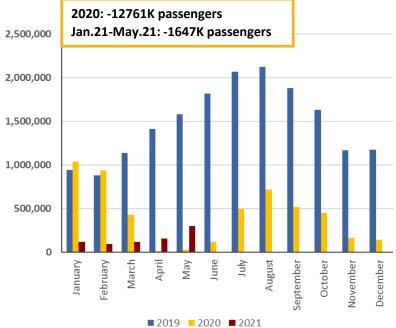
Travel Receipts

(€ mn)



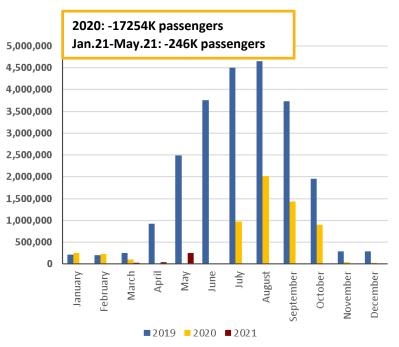
International Athens Airport

(traffic --international passengers)



14 Regional Airports ^{1.}

(traffic - international passengers)



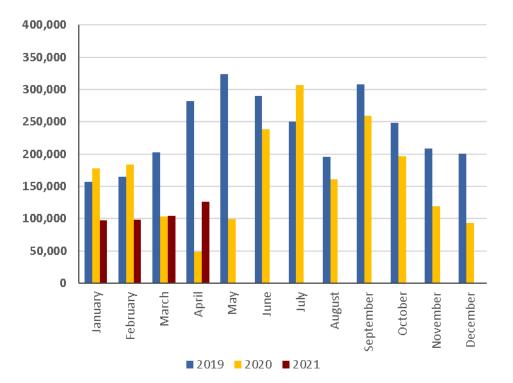
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Note: 1. Fraport manages the following regional airports: Aktion, Chania, Kerkira, Kavala, Kefallinia, Thessaloniki, Zakinthos, Kos, Mitilini, Mikonos, Rodos, Samos, Santorini and Skiathos.

Covid-19 Impact on new hirings of private sector employees: year-on-year comparisons are still unfavorable for the labour market

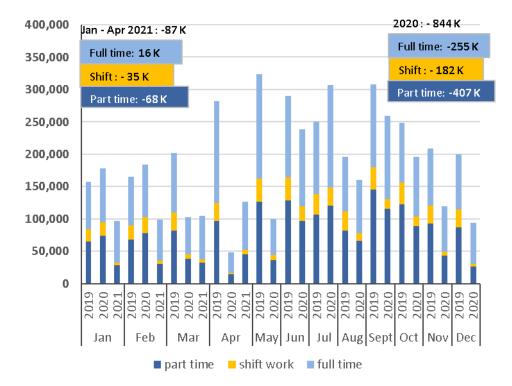
New hirings

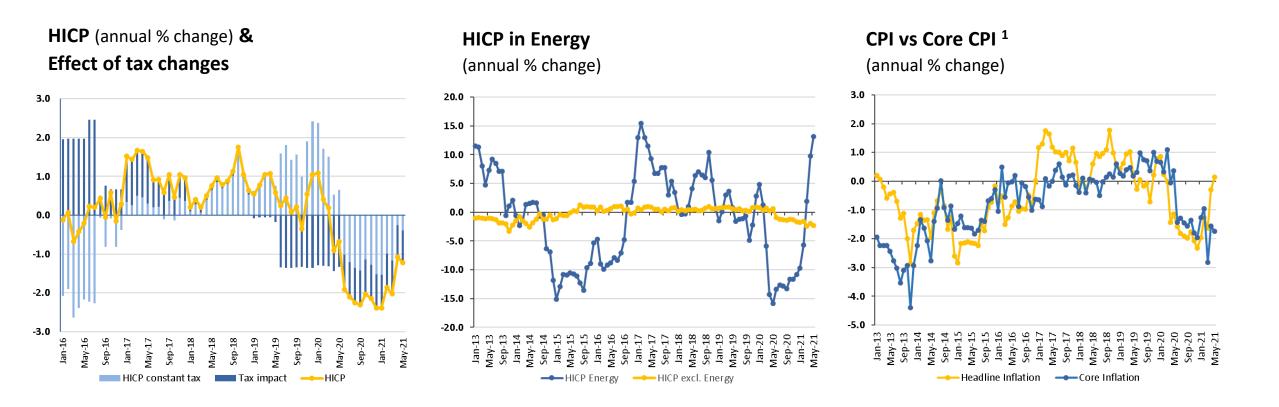
(private sector employees)



New hirings per type of employment

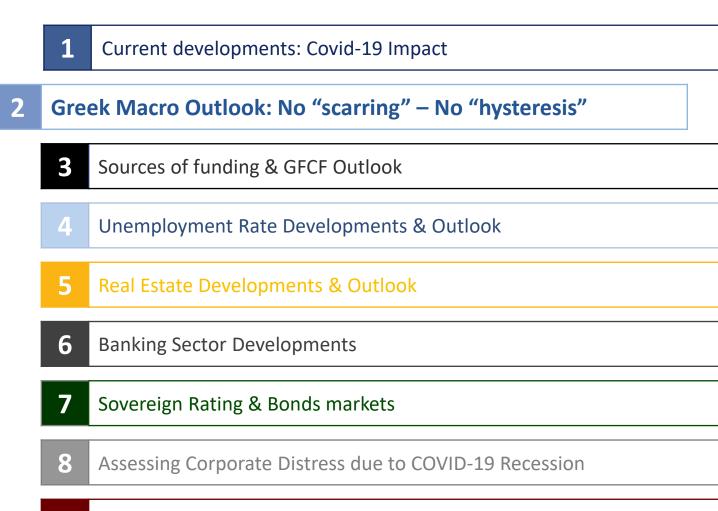
(private sector employees)





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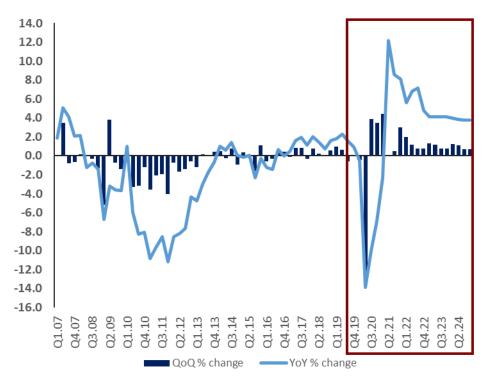
Note: 1) Core Inflation Index is calculated from the Overall Consumer Price Index excluding "Food and non-alcoholic beverages", "Alcoholic beverages and tobacco" and "Energy Prices"



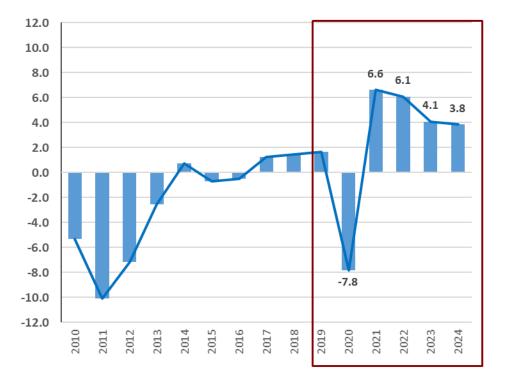
SWOT analysis



Real GDP (sa data, 2015 prices, % change) ¹: the second lockdown creates a "V" shape in quarterly data

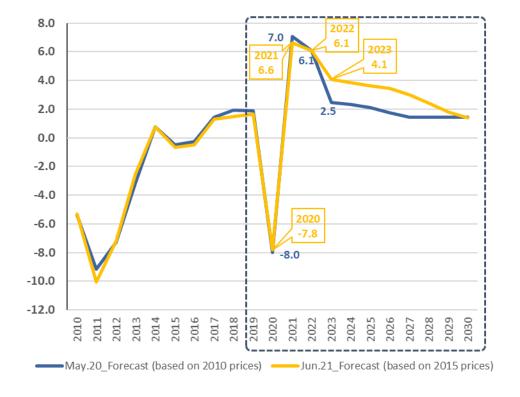


Real GDP (sa data, 2015 prices, annual % change):and a "V" shape in annual frequency



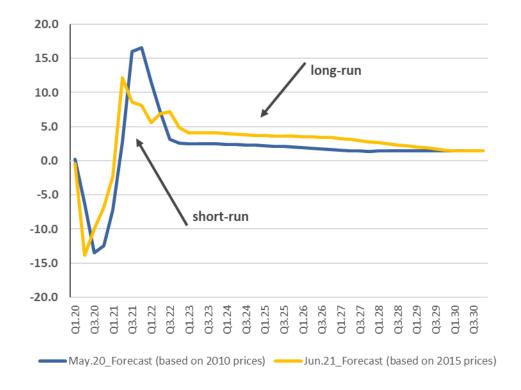
Note: 1) the 1996-2009 quarterly sa GDP data are based on ECO calculations

GDP Outlook: While everyone is focused on the short-term, the "game changer" comes from higher long-term growth forecasts



Annual Real GDP (sa data, constant prices, YoY % change)¹

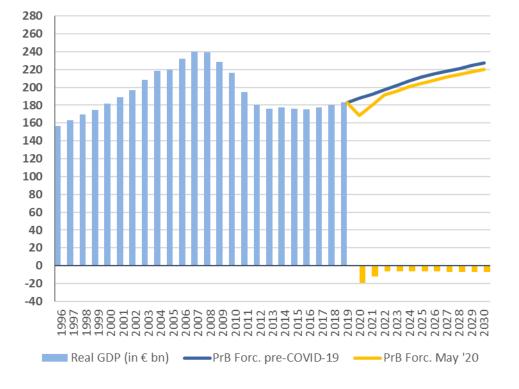
Quarterly Real GDP (sa data, constant prices, YoY % change)



PIRAEUS BANK Note: 1) 2020 Real GDP (% change) is based on the average of the quarterly annual seasonally adjusted growth rates.

No "Scarring" & No "Hysteresis" – Only "Goldilocks"

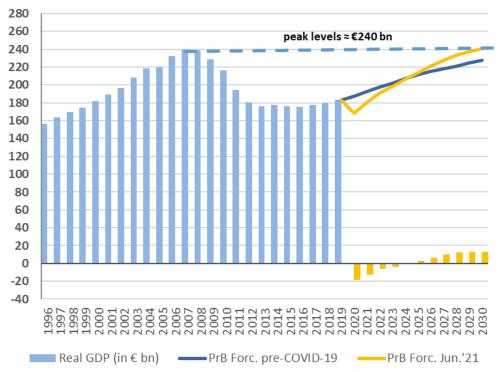
✓ Our latest projections imply that the Greek economy will not only avoid "scarring" or "hysteresis" recovering all lost output by 2025 but it will enter a "Goldilocks" period with growth rates strong enough to allow the Greek economy to transition into a higher economic trajectory.



Real GDP: First Estimate vs Pre - Covid forecasts (€ bn)

GDP (in value terms) never returns to its pre-COVID trajectory

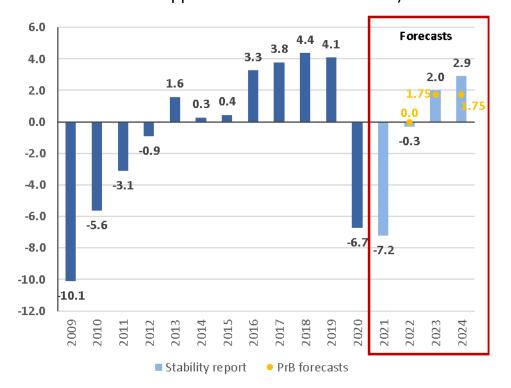
Real GDP: Final Estimate vs Pre - Covid forecasts (€ bn)



GDP will exceed its pre-COVID trajectory by 2025

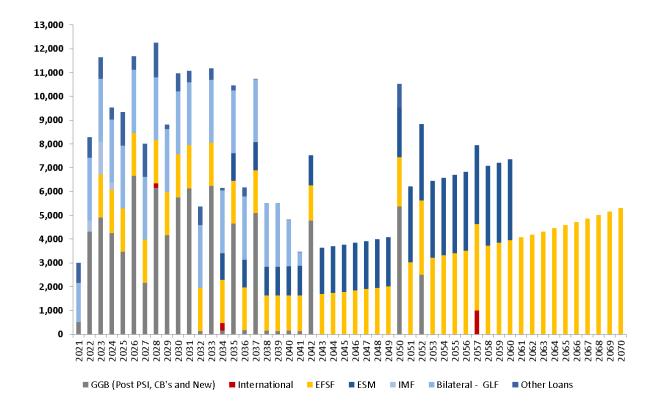
General Government Primary Balance

(ESA definition, % of GDP 2009 – 2020 excl. support for financial institutions)



Bonds & Loans Maturities¹

(as of 15 June2021, € mn)



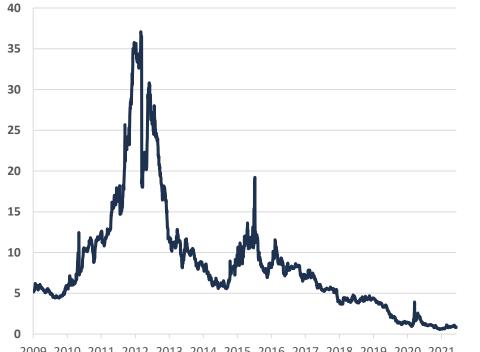
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Note: 1) figures do not include T bills and repos.

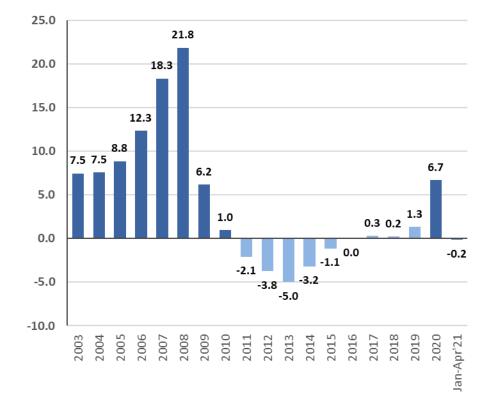
Drivers of Optimism: (II) Lower funding costs & Credit expansion



10 - year yield (Generic bond yield in %)



Credit to domestic Non financial Corporations ^{1,2} (net flows in € bn)



 $2009 \ 2010 \ 2011 \ 2012 \ 2013 \ 2014 \ 2015 \ 2016 \ 2017 \ 2018 \ 2019 \ 2020 \ 2021$

Notes: 1) Including securitised loans and corporate bonds that have been derecognised from the balance sheet and serviced by credit institutions. As of June 2010 non traded corporate bonds are included in 'loans' rather than 'debt securities'. As of December 2016, loans of the Consignment Deposits and Loan Fund are excluded from the domestic credit as the institution has been reclassified from the financial sector to the general government sector. As of March 2019, loans to shipping companies which have their registered office abroad, are no longer included in credit to the domestic economy, as they were reclassified to Other Countries. 2) Flows are derived from changes in outstanding amounts corrected for foreign exchange valuations write-offs/write-downs and reclassifications adjustments.

Total amount of €87bn of funding for the period 2021 - 2027 \checkmark

NATIONAL DEVELOPMENT PROGRAMME [NDP, 2021-2025] (€ bn)					
Sectoral Programmes (68.35%), of which: 6.8					
Ministry of Infras	tructure and Transport	2.6			
Ministry of Maritime Af	fairs and Insular Policy	0.9			
Mi	nistry of Development	0.9			
	Ministry of Education	0.6			
	Ministry of Interior	0.5			
Ministry	of Digital Governance	0.4			
Ministry of En	vironment and Energy	0.3			
	Ministry of Health	0.2			
Minis	try of Culture & Sports	0.2			
Ministry of La	bour and Social Affairs	0.1			
	Ministry of Justice	0.0			
	Ministry of Tourism	0.1			
Other	Sectoral Programmes	0.2			
Regional Programmes (22.5%)					
Continuance of specific programmes 0.2					
(North & South Aegean, Athens Municipality)					
Technical assistance programme 0.0					
Reserve		0.8			
TOTAL		10			

"Next Generation EU" – Greece 2.0 plan: Recovery & Resilience Facility, 2021 - 2026 (bn €)						
Main Pillar	Grants	% of total	Loans	Т	otal Grants & Loans	
1. Green Transition	6.2	34%				
2. Digital Transformation	2.2	12%				
3. Employment skills and social cohesion	5.2	28%				
4. Private investment & transformation of the economy	4.9	26%				
TOTAL	18.4 ⁽¹⁾	100%	12.7		31.2	[

NATIONAL STRATEGIC REFERENCE FRAMEWORK, 2021-2027 (bn €)

European Regional Development Fund		10.8
European Social Fund		5.6
Just Transition Fund		1.4
Cohesion Fund		3.0
European Maritime, Fisheries and Aquaculture F	0.4	
Total amounts from European Funds	21.2	
+ National contribution		5.5
TOTAL FUNDS	TOTAL FUNDS	

COMMON AGRICULTURAL POLICY [2021 - 2027] (€ bn, resource allocation estimates)			
Direct payments 14.5			
Rural development	4.4		
Market measures	0.4		
TOTAL	19.3		

Note: (1) "The total amount of resources inc 30.5 bn € up to 2026, out of which grants are estimated at EUR 17.8 bn € and loans up to 12.7 bn €. of 18.4 bn € have been budgeted so as to ensure the absorption of grants." MinFin, Satbility Progr

"The cost of all projects in the plan amounts R 17.770 billion is foreseen to be financed from nonrepayable financial support and EUR 12.728 billion from loans up to 2026." Commission Staff Working Document 17.6.2021 https://ec.europa.eu/info/system/files/com 328 6 swd en.pdf

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Source: European Commission, Ministry of Development, Ministry of Rural Development & Food, Ministry of Finance, Ministry of Finance : Greek National Recover and Resilience Plan 21 https://www.minfin.gr/web/guest/tameio-anakampses, Piraeus Bank Research

cluded in Greece 2.0 amount to EUR
Note that investments and reforms of
gramme 2021, April 2021 p.27.
s to EUR 31.164 billion, of which EUR



2 Greek Macro Outlook: No "scarring" – No "hysteresis"

- **3** Sources of funding & GFCF Outlook
 - Unemployment Rate Developments & Outlook
 - 5 Real Estate Developments & Outlook
 - 6 Banking Sector Developments
 - 7 Sovereign Rating & Bonds markets
 - 8 Assessing Corporate Distress due to COVID-19 Recession

9 SWOT analysis

"Next Generation EU" – Greece 2.0 plan: Total investment resources

	Recovery & Resilience	Mobilised investmer
	Facility - RRF Budget (mn €)	Resources (mn €)
Green Transition		
1.1 Power up	1200	2348
1.2 Renovate	2711	5203
1.3 Recharge and Refuel	520	1305
1.4 Sustainable use of resources, climate resilience and environmental protection	1763	2726
Pillar 1	6194	11582
Digital Transformation		
2.1 Connect	522	582
2.1 Modernise	1281	1303
2.1 Digitalisation of businesses	375	475
Pillar 2	2178	2360
Employment skills and social cohesion (Health, Education, Social protection)		
3.1 Increasing job creation and participation in the labour market	776	776
3.2 Education, vocational education, training and skills	2311	2395
3.3 Improve resilience, accessibility and sustainability of healthcare	1486	1486
3.4 Increase access to effective and inclusive social policies	611	611
Pillar 3	5184	5268
Private investment and transformation of the economy		
4.1 Making taxes more growth friendly and improving tax administration and tax collection	187	215
4.2 Modernise the public administration, incl. through speeding up the implementation of public investments		
^{4.2} improving the public procurement framework, capacity building measures & fighting corruption	189	189
4.3 Improve the efficiency of the justice system	251	464
4.4 Strengthen the financial sector and capital markets	21	20
4.5 Promote research and innovation	444	612
4.6 Modernise and improve resilience of key economic sectors	3743	7233
4.7 Improve competitiveness and promote private investment and exports	5	5
Technical Assistance	40	40
Pillar 4	4880	8778
Grants	18436	27988
Loans	12728	31819
Total Investment Resources	31164	59807

Note: "The total amount of resources included in Greece 2.0 amount to EUR 30.5 bn \in up to 2026, out of which grants are estimated at EUR 17.8 bn \in and loans up to 12.7 bn \in . Note that investments and reforms of 18.4 bn \in have been budgeted so as to ensure the absorption of grants." MinFin, Satbility Programme 2021, April 2021 p.27.

"The cost of all projects in the plan amounts to EUR 31.164 billion, of which EUR 17.770 billion is foreseen to be financed from non-repayable financial support and EUR 12.728 billion from loans up to 2026." Commission Staff Working Document 17.6.2021 <u>https://ec.europa.eu/info/system/files/com_32</u> <u>8_6_swd_en.pdf</u>

- Upgrading energy efficiency of buildings for households, firms & the public sector
- ✓ Investments in energy storage, electric charge points, batteries, electric vehicles
- ✓ Improving electric interconnectivity of islands
- ✓ National reforestation plan, biodiversity & strengthening of civil protection
- ✓ Urban plans & strategic urban regeneration
- ✓ 5G infrastructure, fast broadband connections, fiber optic infrastructure in buildings, submarine fiber cables
- Digitisation of the public sector with emphasis on archives, interoperability of IT systems & quality service to firms & citizens
- Revenue-enhancing digitilisation of tax authorities & real-time interconnection with firms
- Strong incentives for private investment (green, digital transformation, innovation, extroversion, economies of scale)
- ✓ Public-Private Partnerships in new, large infrastructure projects (irrigation, railways)
- ✓ Investments in culture, tourism & the agri-food sector as drivers of growth
- Training, upskilling & reskilling of the workforce (with emphasis on digital skills)
- Large investments in health, education & social inclusion of vulnerable groups

- $\checkmark\,$ Reform of the licensing procedure for renewable energy sources
- ✓ Promotion of e-mobility through a modern institutional framework
- Preparation of urban plans, establishment of new spatial planning for renewables, industry, tourism & aquaculture, & marine spatial planning
- Action plan for the provision of "customer-centric" digital services by the public administration
- ✓ 5G technology & development of innovative digital services
- ✓ Transition to fast broadband
- ✓ Digital transformation of SMEs
- ✓ Reforms to promote basic & applied research
- ✓ Reforms to simplify the business environment & licensing, improve the ease of doing business, support investment & trade facilitation
- ✓ Improve the efficiency of the justice system, including digitalisation & administration reform
- ✓ Incentivizing economies of scale through increasing the size of enterprises
- ✓ Artificial intelligence & big data deployed against tax evasion
- ✓ Modernising & upgrading Greece's upskilling & reskilling system
- ✓ Labour law reform
- Reform of active & passive labour market policies, incl. to increase female labour force participation
- ✓ Digitisation of education, both equipment & curricula
- ✓ Primary health care reform & digital telemedicine service
- ✓ Training against discrimination in the public & private sector

PST

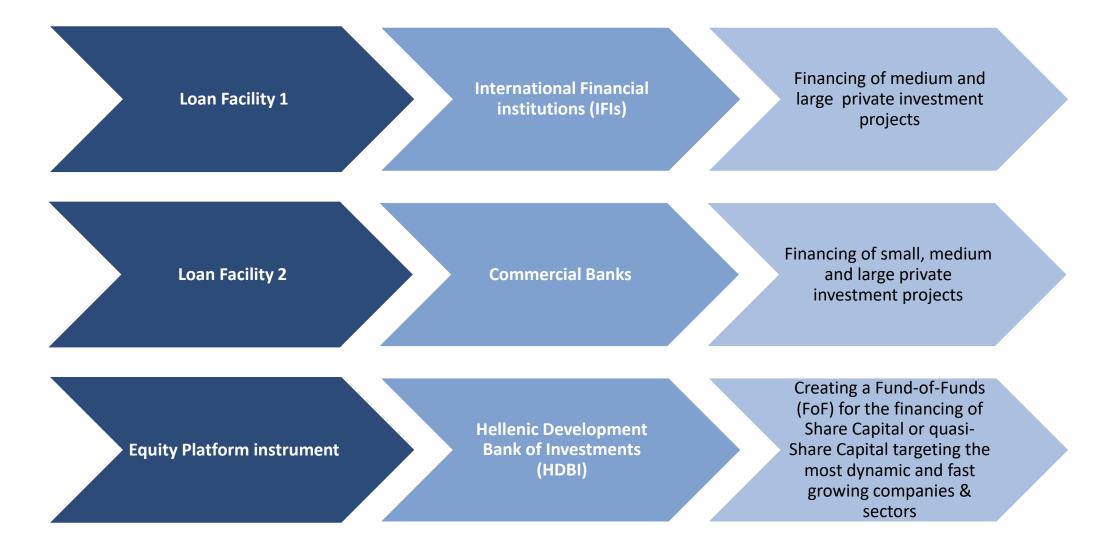
Retorms

✓ € 12.7 bn financed from RRF loan envelope

- ✓ Loans to be provided through International Financial Institutions (IFIs) and the banking system
- Exclusively for private sector, based entirely on market criteria, with no state involvement
- ✓ Maximum RRF funding set at 50% of project value
- ✓ Co-financing, no state guarantees
- ✓ Participation of banks and investors (at least 30% and 20% respectively)
- ✓ Funding only projects under five eligibility criteria, based on Pissarides
 Committee priorities







The plan aims to enhance growth, productivity, job creation and economic and social resilience

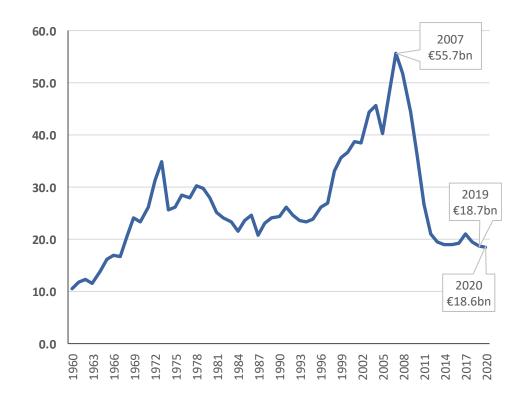
Study by Bank of Greece concludes that Greece 2.0 will lead to:

- ✓ Increase in real GDP by 7% by 2026, 30pp cumulatively in 2021 2026
- ✓ Creation of 180,000 new job
- ✓ In 2021 -2026, the positive economic impact derives mainly from increased private investment financed by loans.
 Increased public investment, financed by grants also makes a significant contribution.
- ✓ Investment by private sector is estimated to grow by 20%
- ✓ GDP and employment gains permanent over the long term, driven primarily by reforms and higher productivity



From a Peak of €55.7bn to a Trough of €18.7bn in 2019...and €18.6bn in 2020, despite the Shock

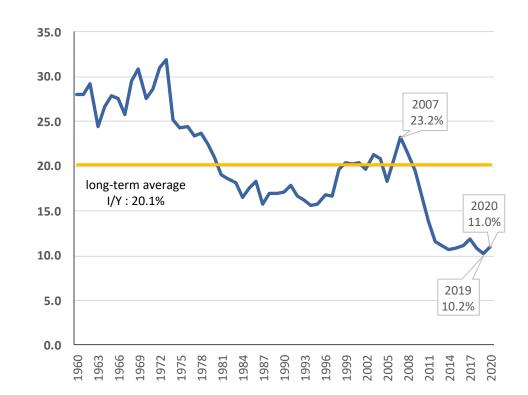
Gross Fixed Capital Formation



(€bn, constant prices 2015, nsa data)

Investments as a Share of GDP (I/Y)

(%, constant prices 2015, nsa data)



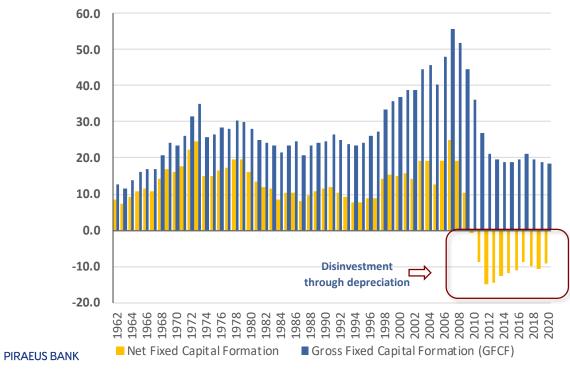
The Fundamentals of Capital Accumulation

The evolution of net Capital Stock (K) is a function of new Investments (I) and the level of Depreciation (δ) of the Capital Stock:

$$K_{(t)} = K_{(t-1)} + I_{(t)} - \delta K_{(t)}$$
 eq.1

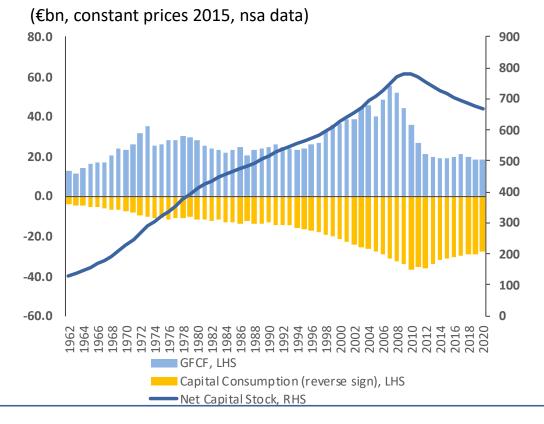
Since 2010 a net disinvestment has taken place in the Greek economy, as a result of the negative balance between new investment and depreciation rates, causing the net capital stock to fall

Net vs Gross Fixed Capital Formation



(€bn, constant prices 2015, nsa data)

Capital Stock, Investment Flow & Consumption of Fixed Capital



The dynamics of capital formation are driven by:

$$K_{(t)} = K_{(t-1)} + I_{(t)} - \delta K_{(t)}$$
eq.1

From the above the equilibrium level of Investments as % of GDP is given by:

$$\frac{I}{Y} = (\delta + g)\frac{K}{Y}$$
 where, δ = 4.18% and $\frac{K}{Y}$ = 3.53
eq.2

(I) : Gross fixed capital formation at 2015 prices

(Y): Real Gross Domestic Product,

(g): Potential real GDP growth rate,

(K): Net capital stock at 2015 prices,

(δ): Depreciation rate of net capital stock to the fixed capital consumption at 2015 prices

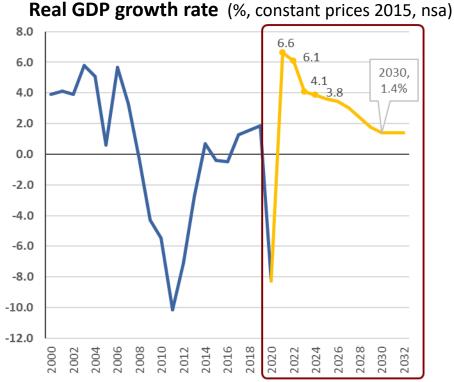
Fenz et. al. (2015), Causes of declining investment activity in Austria. ONB, Quarterly review of economic policy Q3/15 Gros, D. (2014) Investment as the key to recovery in the euro area. CEPS Policy Brief No 326

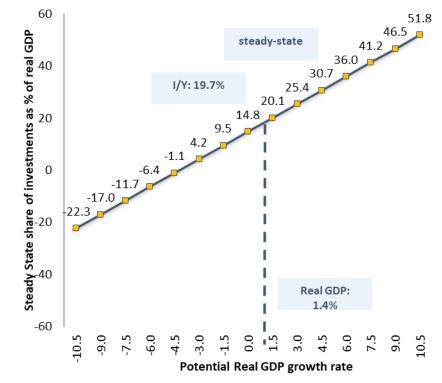


The EU Funding Boost Towards a Steady State I/Y in 2030: The I/Y Steady State estimate

After the Real GDP shock effect in 2020-2022 growth rates, the Greek economy is assumed to achieve an average growth rate of 3.2% in 2023-2029 before settling down to a long-term trend growth around 1.4%. Investments as a share of GDP (I/Y) in 2021-2026, are based on assumptions incorporating the boost of the unprecedented levels of EU funding during this period.

Based on eq.2, the Steady-state investment share after 2030 is estimated at 19.7% of GDP.



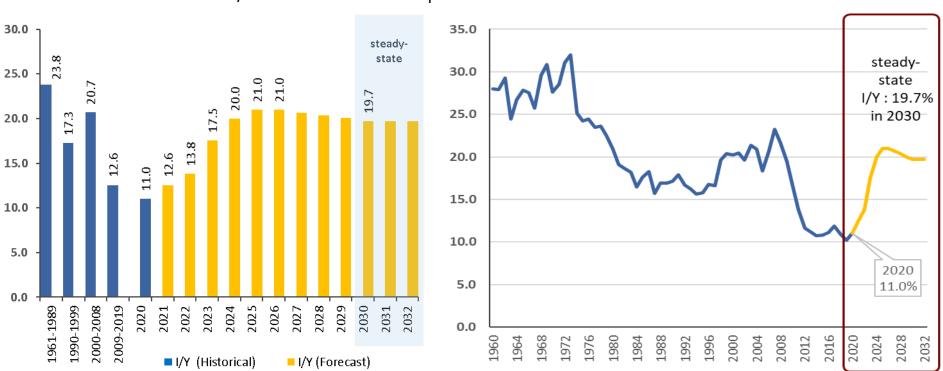


Steady state investment rate (I/Y) vs GDP growth rate

The EU Funding Boost Towards a Steady State I/Y in 2030: The I/Y medium term estimate

In 2020, the investment environment remains stable despite the shock. In 2021-2026, the unprecedented levels of EU funding is expected to boost investment in Greece (different assumptions in each year based accordingly on the historical performance of I/Y and the impact of EU funding). In 2027-2030, a linear convergence to steady-state I/Y is assumed.

Investments as a Share of GDP (%, constant prices 2015, nsa data)



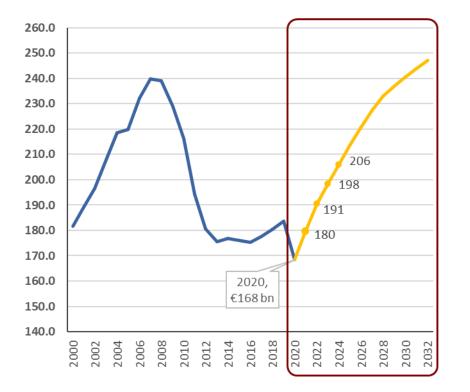
the I/Y ratio creates a "U" shape

From a Trough of €18.6 bn in 2020 to an average of c. €46 bn after 2023

By having estimated the I/Y ratio and by taking into account our forecasts of Real GDP levels, the Gross Fixed Capital formation (I) levels are calculated.

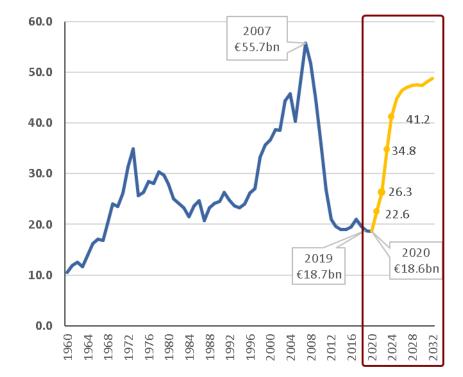
Real GDP level

(€bn, constant prices 2015, nsa data)



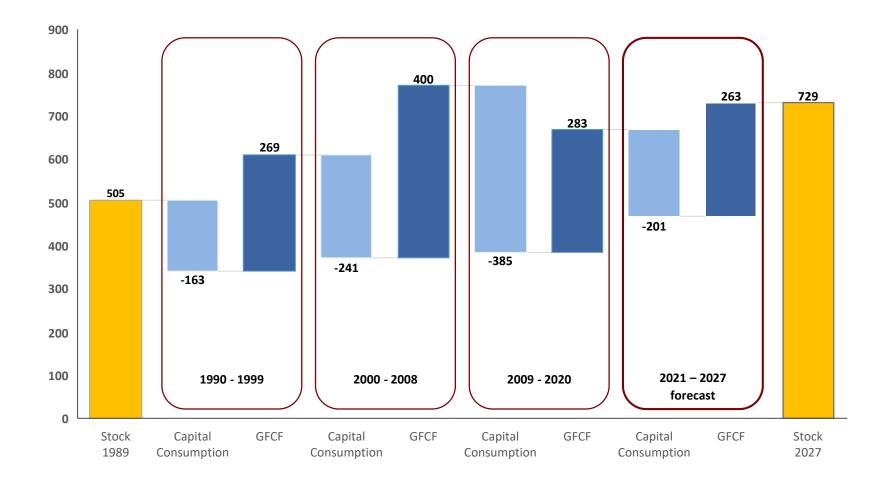
Gross Fixed Capital Formation

(€bn, constant prices 2015, nsa data)





Investments & Net capital stock (€bn ,constant prices 2015, nsa data)

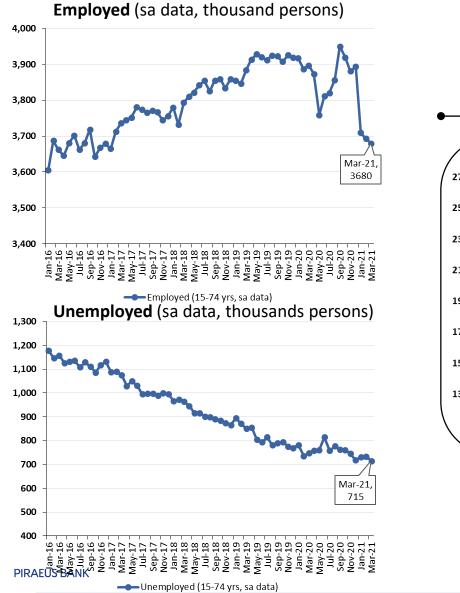


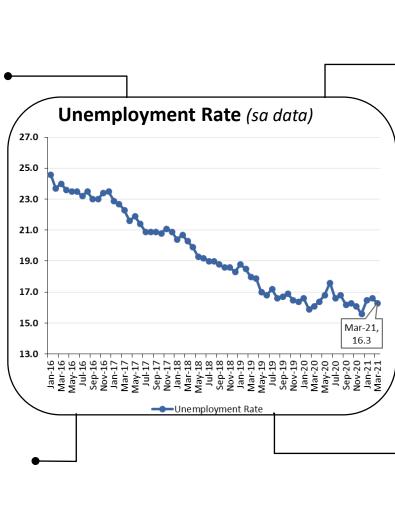


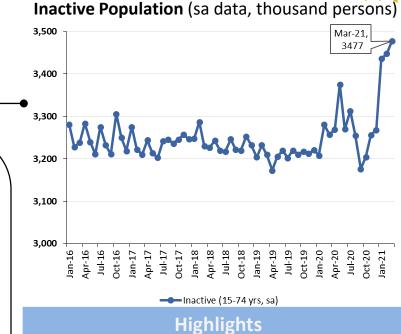
- 2 Greek Macro Outlook: No "scarring" No "hysteresis"
- **3** Sources of funding & GFCF Outlook
- Unemployment Rate Developments & Outlook
 - 5 Real Estate Developments & Outlook
 - 6 Banking Sector Developments
 - 7 Sovereign Rating & Bonds markets
 - 8 Assessing Corporate Distress due to COVID-19 Recession

9 SWOT analysis

Unemployment Rate: Policy support has kept unemployment on a declining track







- ✓ According to Eurostat guidelines, in the light of the COVID-19 pandemic, persons in lay-off are still considered employed persons if the duration of their contract suspension is less than three months or if they receive more than 50% of their salary.
- Due to the COVID-19 pandemic, several job seekers reported that they were not immediately available to work and therefore, according to the definitions, were classified as economically inactive.

Source: ELSTAT, Piraeus Bank Research

Unemployment rate Outlook: 16.3% in 2021, 15.2% in 2022

30.0

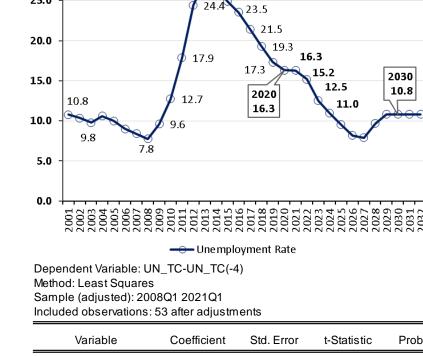


Main Assumptions

- ✓ GDP contracted by -7.8%* in 2020
- ✓ Unemployment rate improved at 16.3% in 2020
- ✓ Convergence to a steady state level of 10.8% by 2030

Note: Our analysis is based on seasonal adjusted data after having isolated the irregular component (i.e UN_tc). We use U.S Census Bureau X-12 ARIMA procedure, in order to produce the trend-cycle time series, which represent the underlying behavior and direction of the series and capture the long-term behavior and the medium-term cycles.

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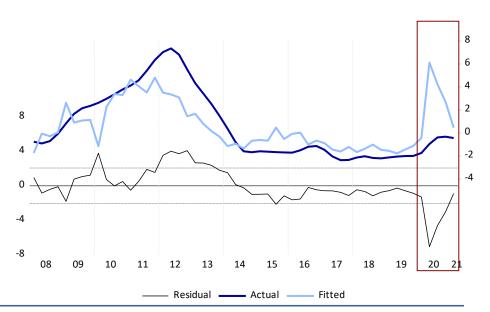
27.5

26.5 24.9

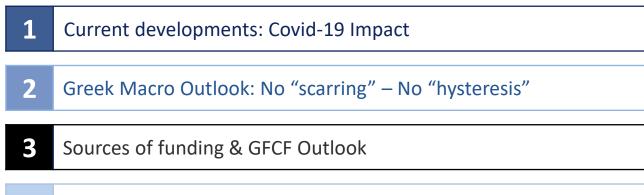
Vallable	Coenicient	Siu. Liitti i-Statis		FIUD.		
C RGDP_GRWTH_BL	-0.661854 -0.489100					0.0514 0.0000
Root MSE Mean dependent var S.D. dependent var Akaike info criterion Schwarz criterion Hannan-Quinn criter. Durbin-Watson stat	2.025788 0.598525 2.931135 4.325266 4.399617 4.353858 0.439731	R-squared Adjusted R-sq S.E. of regress Sum squared Log likelihood F-statistic Prob(F-statisti	sion resid	0.513157 0.503611 2.065128 217.5023 -112.6196 53.75658 0.000000		

	Unemployment rate	Real GDP growth rate
2020	16.3%	-7.8%*
2021	16.3%	6.6%
2022	15.2%	6.1%
2023	12.5%	4.1%
2024	11.0%	3.8%

* Based on the average of the quarterly annual seasonally adjusted growth rates



Unemployment Rate (%)



4 Unemployment Rate Developments & Outlook

5 Real Estate Developments & Outlook

6 Banking Sector Developments

7 Sovereign Rating & Bonds markets

8 Assessing Corporate Distress due to COVID-19 Recession

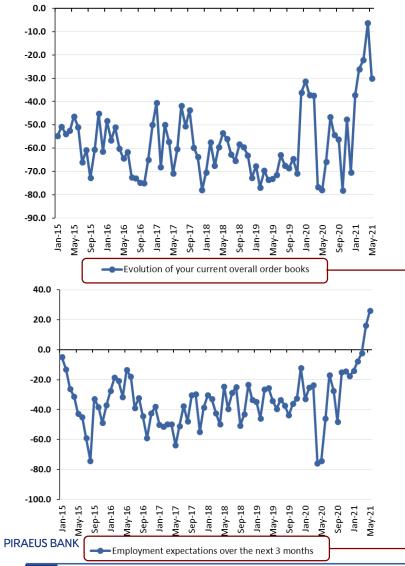
9 SWOT analysis



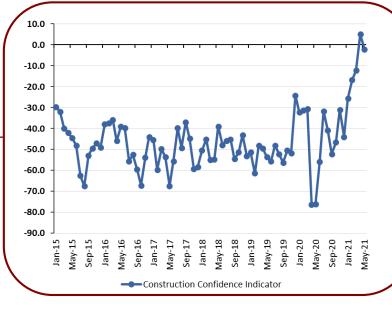
Note: 1) Office Price Index 2) Net Foreign Direct Investment in Greece: Real Estate

Construction Sector: Confidence Indicator affected by COVID only for the duration of the 1st

lockdown

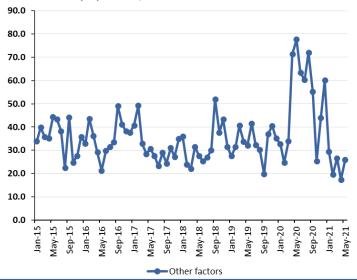


Construction Confidence Indicator



Other factors currently limiting building activity

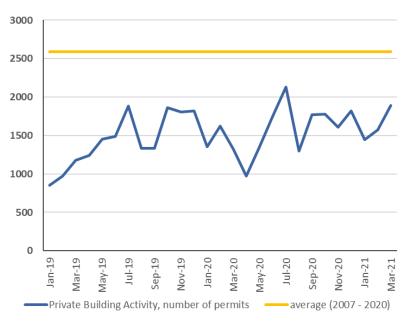
(excl. Insufficient demand, Weather conditions, Shortage of labour force, Shortage of material and/or equipment)





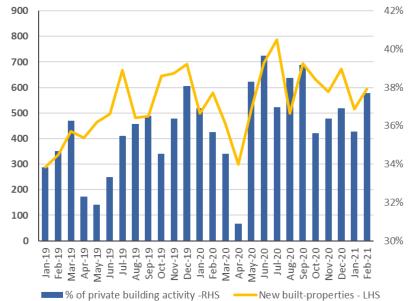
Private Building Activity

(number of permits, nsa data)



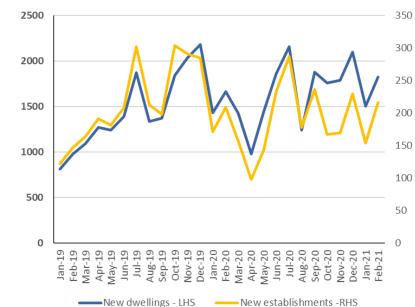
New Built-Properties

(number, % of private permits, nsa data)



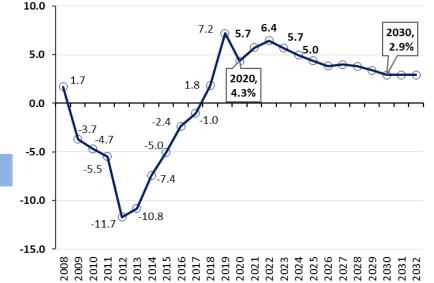
New Dwellings & New Establishments

(number, nsa data)





Residential Real Estate (annual % change)



----- Residen. Real Estate

Prob.

0.0000

0.0000

0.752642

0.747792

2.790079

397.0116

-128.5661

0.435234

Main Assumptions

- ✓ GDP to increase by 6.6% in 2021
- ✓ Convergence to a steady state level by 2030.

Dependent Variable: RRE GRWTH Method: Least Squares Sample (adjusted): 2008Q1 2021Q1 Included observations: 53 after adjustments Variable Coefficient Std. Error t-Statistic RGDP_GRWTH_BL 0.077900 0.462869 5.941835 RRE_GRWTH(-4) 0.739929 0.061214 12.08760 Root MSE R-squared 2.736930 Mean dependent var -2.747380 Adjusted R-squared

5.555680

4.927022

5.001373

S.E. of regression

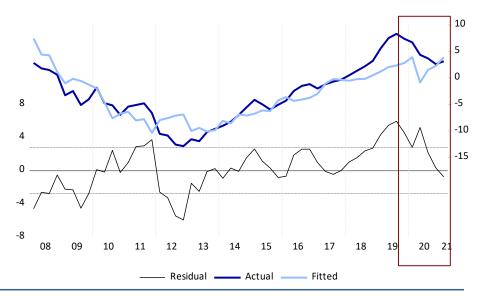
Log likelihood

4.955614 Durbin-Watson stat

Sum squared resid

	RRE growth	Real GDP growth rate
2020	4.3%	-7.8%*
2021	5.7%	6.6%
2022	6.4%	6.1%
2023	5.7%	4.1%
2024	5.0%	3.8%

* Based on the average of the quarterly annual seasonally adjusted growth rates



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S.D. dependent var

Akaike info criterion

Hannan-Quinn criter.

Schwarz criterion

Non-Residential Real Estate Outlook: +4.5% in 2021, +6.1% in 2022

Non Residential Real Estate (annual % change)

0.596018

3.630788

2.535217 7.216198

5.583443

5.681614

5.609488

0.136547

Adjusted R-squared

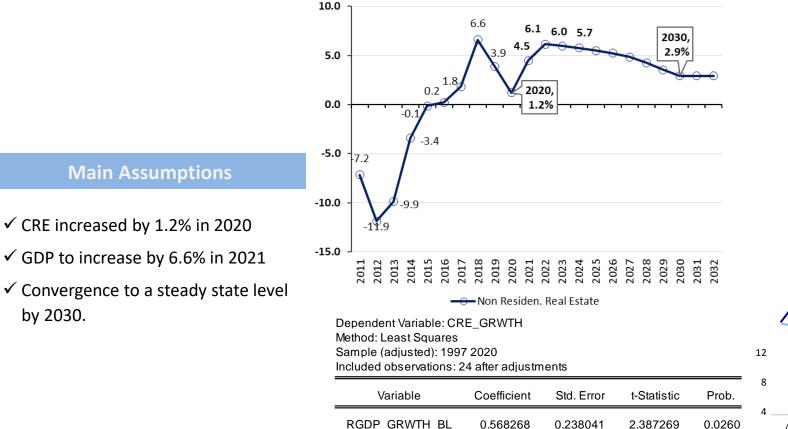
Sum squared resid

Durbin-Watson stat

S.E. of regression

Log likelihood

R-squared



CRE GRWTH(-1)

Mean dependent var

S.D. dependent var

Akaike info criterion

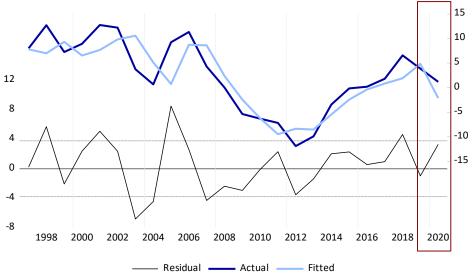
Hannan-Quinn criter.

Schwarz criterion

Root MSE

	CRE growth	Real GDP growth rate
2020	1.2%	-7.8%*
2021	4.5%	6.6%
2022	6.1%	6.1%
2023	6.0%	4.1%
2024	5.7%	3.8%

* Based on the average of the quarterly annual seasonally adjusted growth rates



0.0002

0.735839

0.723832

3.792234

316.3829

-65.00132

1.900030

4.364934



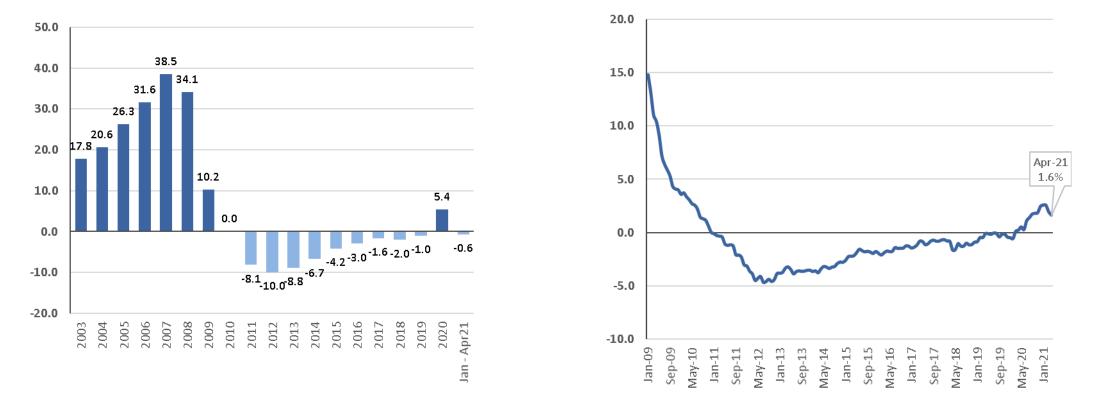
7 Sovereign Rating & Bonds markets

8 Assessing Corporate Distress due to COVID-19 Recession

9 SWOT analysis

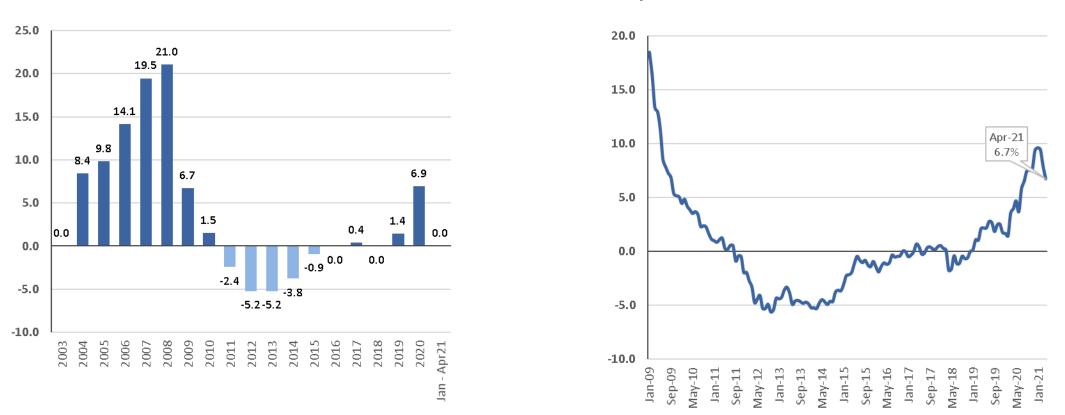
Private sector credit: Record net credit flows in 2020, have been marginally reversed at the beginning of 2021

Private Sector Credit^{1,2} (net flows, €bn)



Notes: 1) Including securitised loans and corporate bonds that have been derecognised from the balance sheet and serviced by credit institutions. As of June 2010 non traded corporate bonds are included in 'loans' rather than 'debt securities'. As of December 2016, loans of the Consignment Deposits and Loan Fund are excluded from the domestic credit as the institution has been reclassified from the financial sector to the general government sector. As of March 2019, loans to shipping companies which have their registered office abroad, are no longer included in credit to the domestic economy, as they were reclassified to Other Countries. 2) Flows are derived from changes in outstanding amounts corrected for foreign exchange valuations write-offs/write-downs and reclassifications adjustments.

Private Sector Credit^{1,2} (annual % change)

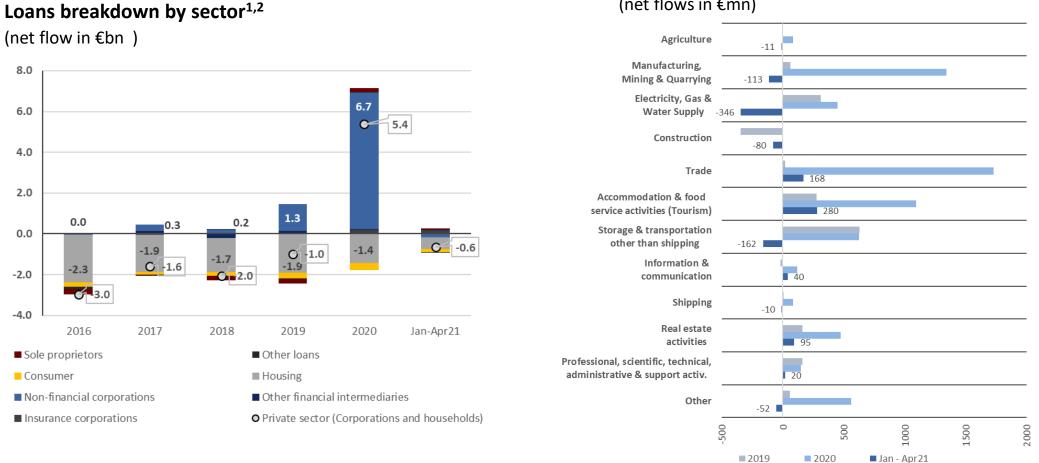


Corporate Loans^{1,2} (annual % change)

Corporate Loans^{1,2} (net flows, €bn)

Notes: 1) Including securitised loans and corporate bonds that have been derecognised from the balance sheet and serviced by credit institutions. As of June 2010 non traded corporate bonds are included in 'loans' rather than 'debt securities'. As of December 2016, loans of the Consignment Deposits and Loan Fund are excluded from the domestic credit as the institution has been reclassified from the financial sector to the general government sector. As of March 2019, loans to shipping companies which have their registered office abroad, are no longer included in credit to the domestic economy, as they were reclassified to Other Countries. 2) Flows are derived from changes in outstanding amounts corrected for foreign exchange valuations write-offs/write-downs and reclassifications adjustments.

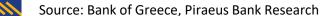
Government intervention has pushed credit to sectors most affected by the recession



Notes: 1) Including securitised loans and corporate bonds that have been derecognised from the balance sheet and serviced by credit institutions. As of June 2010 non traded corporate bonds are included in 'loans' rather than 'debt securities'. As of December 2016, loans of the Consignment Deposits and Loan Fund are excluded from the domestic credit as the institution has been reclassified from the financial sector to the general government sector. As of March 2019, loans to shipping companies which have their registered office abroad, are no longer included in credit to the domestic economy, as they were reclassified to Other Countries. 2) Flows are derived from changes in outstanding amounts corrected for foreign exchange valuations write-offs/write-downs and reclassifications adjustments.

Credit to domestic non financial corporations

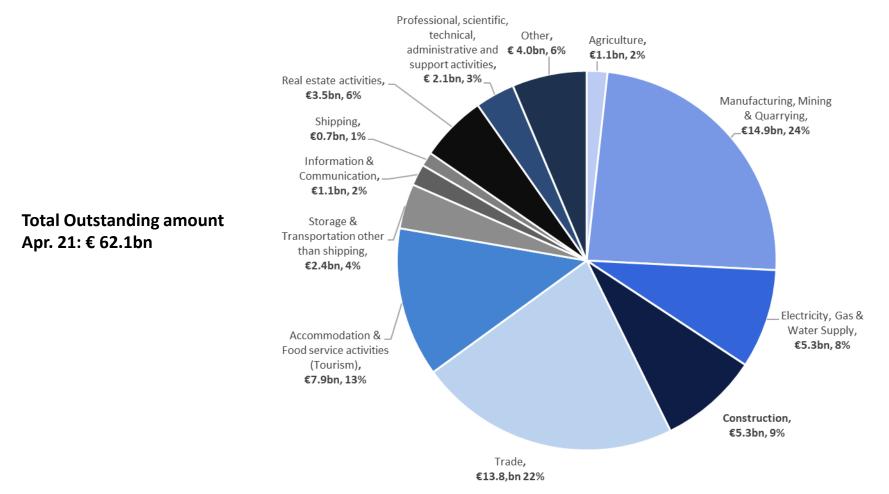
(net flows in €mn)



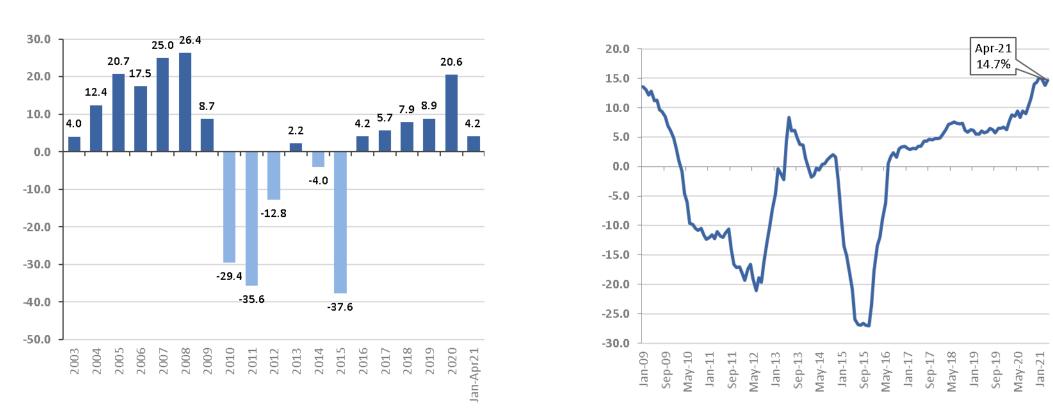
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Credit to domestic non financial corporations breakdown by type of activity



Notes: 1) Including securitised loans and corporate bonds that have been derecognised from the balance sheet and serviced by credit institutions. As of June 2010 non traded corporate bonds are included in 'loans' rather than 'debt securities'. As of December 2016, loans of the Consignment Deposits and Loan Fund are excluded from the domestic credit as the institution has been reclassified from the financial sector to the general government sector. As of March 2019, loans to shipping companies which have their registered office abroad, are no longer included in credit to the domestic economy, as they were reclassified to Other Countries



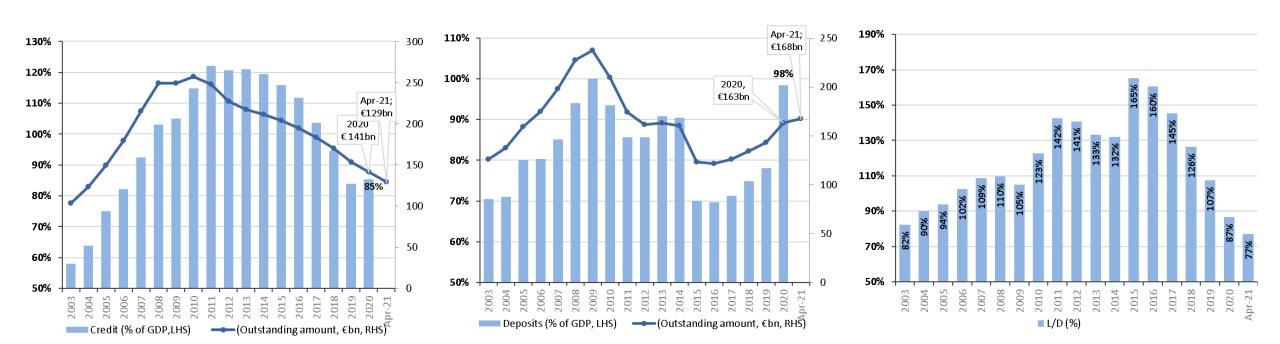
Private Sector Deposits^{1,2} (net flows, €bn)

Notes: 1) Excluding the Bank of Greece. As of December 2016, deposits of the Consignment Deposits and Loan Fund are excluded from the domestic deposits as the institution has been reclassified from the financial sector to the general government sector. As of March 2019, deposits and repos of shipping companies which have their registered office abroad, are no longer included in the deposits of the domestic economy, as they were reclassified to Other Countries. 2) Flows and growth rates are derived from changes in outstanding amounts corrected for foreign exchange valuations and reclassifications adjustments. The flow of deposits does not include the accounting increase in deposits that is related to securitisation operations and represent liabilities of credit institutions to Special Purpose Vehicles.

Private Sector Deposits^{1,2} (annual % change)

Credit vs Deposits





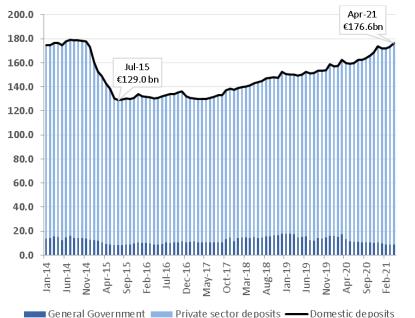
Private Sector Loans¹ (% of GDP & € bn)

Private Sector Deposits² (% of GDP & € bn)

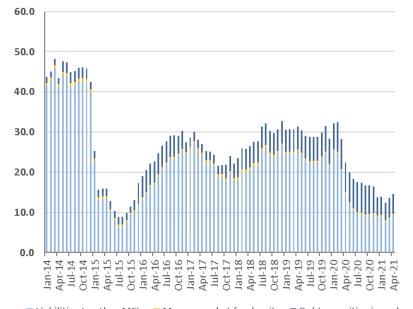
Private Sector Loans to Deposits Ratio (%)

Notes: 1) Including securitised loans and corporate bonds that have been derecognised from the balance sheet and serviced by credit institutions. As of June 2010 non traded corporate bonds are included in 'loans' rather than 'debt securities'. As of December 2016, loans of the Consignment Deposits and Loan Fund are excluded from the domestic credit as the institution has been reclassified from the financial sector to the general government sector. As of March 2019, loans to shipping companies which have their registered office abroad, are no longer included in credit to the domestic economy, as they were reclassified to Other Countries. Flows are derived from changes in outstanding amounts corrected for foreign exchange valuations write-offs/write-downs and reclassifications adjustments. 2) Excluding the Bank of Greece. As of December 2016, deposits of the Consignment Deposits and Loan Fund are excluded from the domestic deposits as the institution has been reclassified from the financial sector to the general government sector. As of March 2019, deposits and reposits and Loan Fund are excluded from the domestic deposits as the institution has been reclassified from the financial sector to the general government sector. As of March 2019, deposits and repos of shipping companies which have their registered office abroad, are no longer included in the deposits of the domestic deposits of the Countries. Flows and growth rates are derived from changes in outstanding amounts corrected for foreign exchange valuations and represent liabilities of credit in the deposits that is related to securitisation operations and represent liabilities of credit institutions to Special Purpose Vehicles.



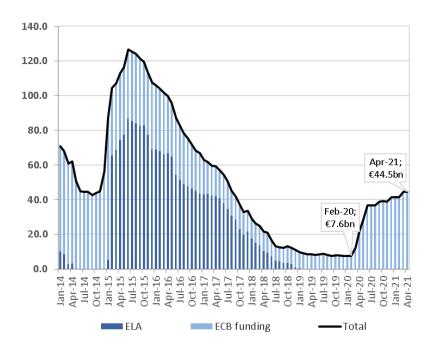


Other Sources of Funding (€ bn)



Liabilities to other MFIs Money market fund units Debt securities issued

Eurosystem Funding (€ bn)

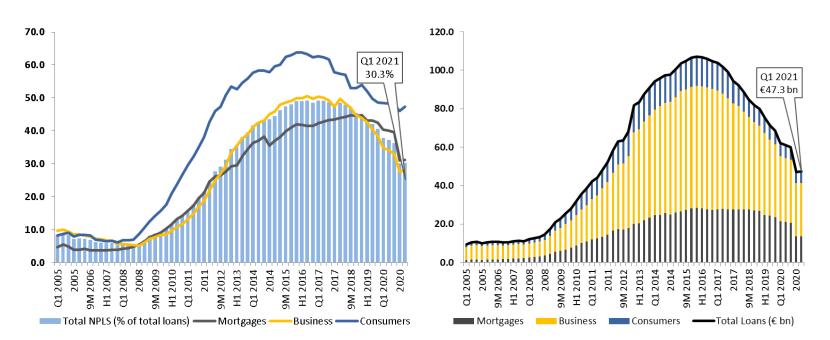


Evolution of Non-Performing Loans

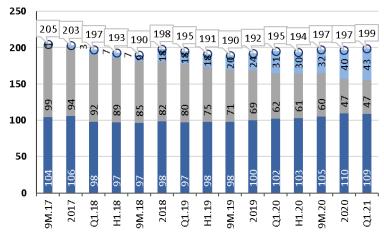
Non-Performing Loans ratio on balance sheet gross loans ^{1,2,3,4,5} (%)

Non-Performing Loans,

on balance sheet gross loans ^{1,2,3,4,5} (€ bn)



Total Loans, on balance sheet gross loans ^{1,2,3,4,5} & transferred to foreign specialised financial institutions & that are serviced by the domestic CSFs⁶. (€ bn)



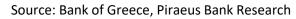
NPLs (serviced by Loan Servicing Firms)

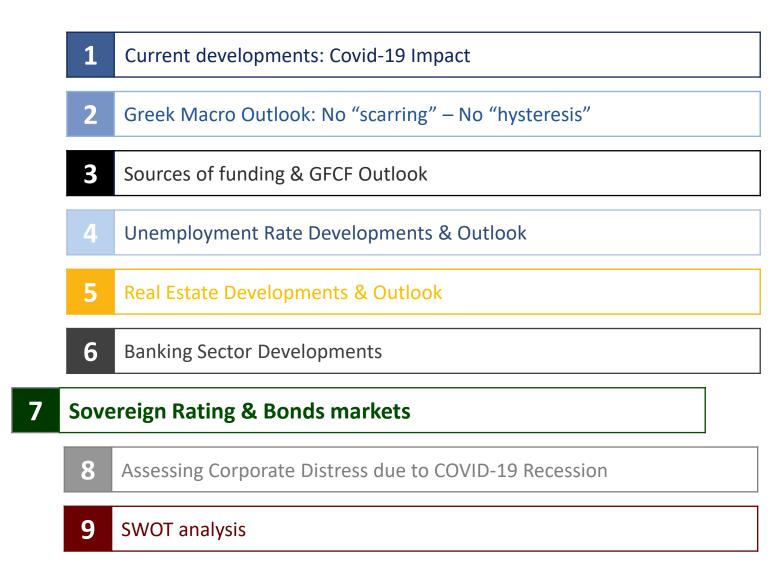
■ NPLs (on-balance sheet of Greek commercial & cooperative banks)

Performing Loans (on-balance sheet of Greek commercial & cooperative banks)
 O Total Loans

Notes: (1) All items are on solo basis and refer to on-balance sheet gross loans and advances of Greek commercial and cooperative banks. (2) For 2014 onwards, the source is data from bank's submissions according to Act 42/2014 (as applicable) and European Banking Authority (EBA) rules and definitions (3) For 2002 - 9M 2014, the source is data from banks' submissions according to Act 2442/1999 with the following assumption: Non-performing loans include also loans that have been restructured over the past 12 months. (4) Balance changes between some quarters may be affected by the restructuring of the Greek banking system (resolution of banks, sale of foreign branches e.t.c.) (5) All items refer to on-balance sheet loans and advances, in consinstency with the operational targets for the reduction of non-performing loans. For that reason, balances and indicators may differ from previously published figures, where off-balance sheet items were also included in the perimeter.

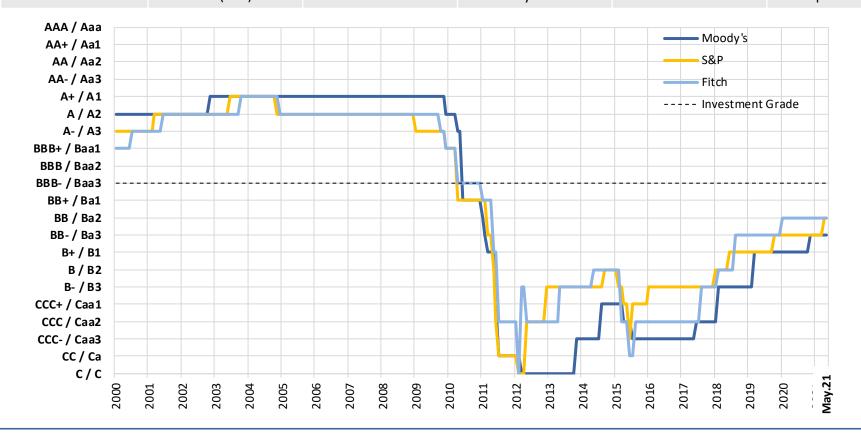
(6) Concern loans that have been transferred by domestic credit institutions to foreign specialised financial institutions and that are serviced by the domestic CSFs. Included in these loans are loans that have been written off by credit institutions and were thus not reported on their balance sheet





Greek sovereign rating history: Moodys rating unchanged at Ba3 and stable outlook

	Current LT Rating	Outlook	Last Rating Up/ Down grade	Latest Review	Next Scheduled Review		
Fitch	BB	Stable	January 2020	January 2021	16 July 2021		
Moody's	Ba3	Stable	November 2020	November 2020	19 November 2021		
Standard & Poor's	BB	Positive	May 2021	May 2021	22 October 2021		
DBRS	BB (low)	Stable	May 2019	March 2021	17 September 2021		



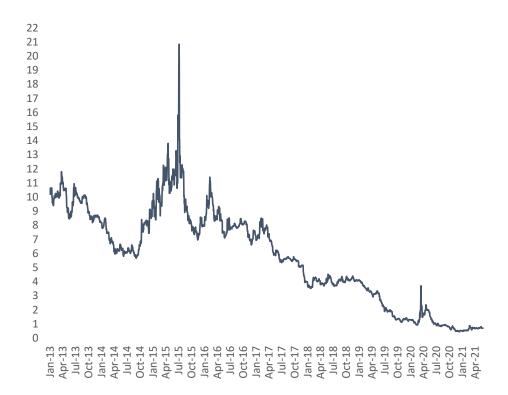
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Piraeus Bank Sovereign Bond Index (YtM): Piraeus

Bank Government Bond Index yield remained low at 0.59%



BLOOMBERG TICKERS

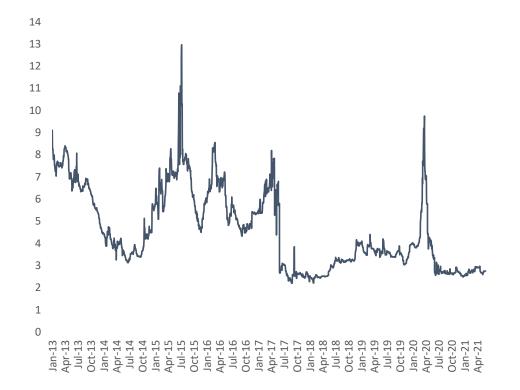
Piraeus Bank Government Bond Index: {PBGGGSBI Index<GO>}

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Weighted Average Yield: {PBGGGWAY Index<GO>}

Piraeus Bank Corporate ex-Financials Bond Index(YtM):

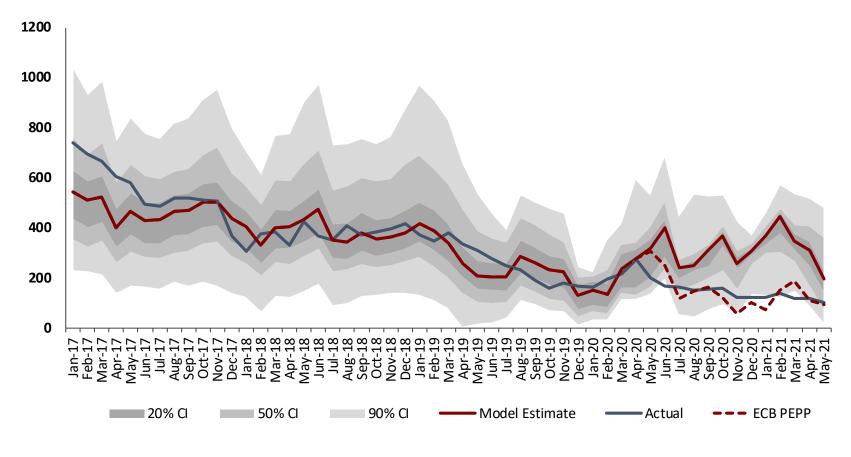
The Corporate Bond Index YtM declined in May by 9 bps at 2.57%.



BLOOMBERG TICKERS

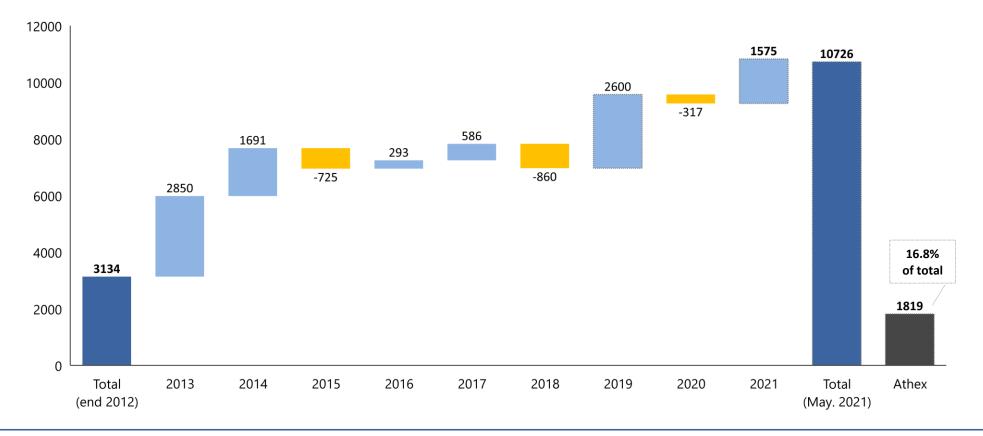
Piraeus Bank Corporate Bond Index : {PBGGGCBI Index<GO>} Weighted Average Yield : {PBGGIWAY Index<GO>}





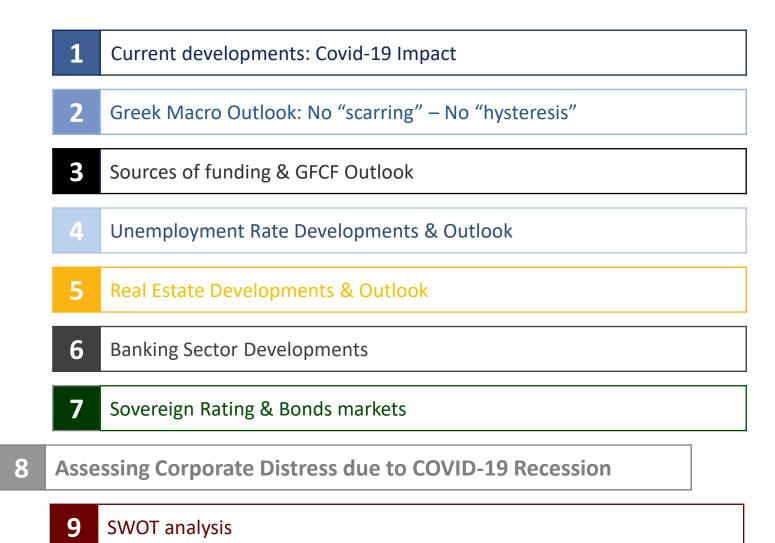
Piraeus Bank Greek Corporate Bond Index: €100 mn Costamare bond increases net issuance in May

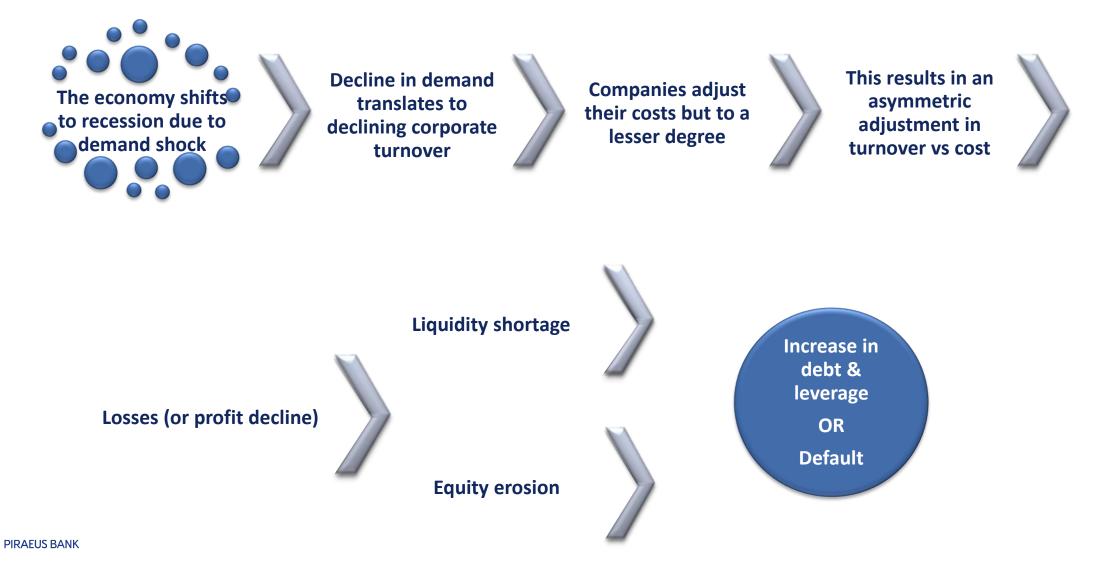




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Final Framework

✓ All of these so-called adjustments introduced above form a system of equations that allows us to demonstrate how a macroeconomic demand shock reverberates across the Greek corporate balance sheet:

Revenue Adjustment_{i,t} = $(1 - d_s) \times S_{si,t-1}$

Cost Adjustment_{i,t} = $(1 - x\% \times d_s) \times C_{si,t-1}$, with x = 50%

 $\begin{aligned} &Profit/Loss \ Adjustment_{i,t} \\ &= Revenue \ Adjustment_{i,t} - Cost \ Adjustment_{i,t} - (Interest \ Expenses_{i,t} + Taxes_{i,t} + Other_{i,t}) \end{aligned}$

 $Equity Adjustment_{i,t} = Equity_{i,t-i} + Profit/Loss Adjustment_{i,t}$

Liquidity (Cash or Working Capital) Adjustment_{i,t} = $\max[Cash (or Working Capital)_{i,t-i} + Profit/Loss Adjustment (excl. depreciation and amortisation)_{i,t},0]$

Liquidity (Cash or Working Capital) Shortfall_{*i*,*t*} = Loss Adjustment (excl. depreciation and amortisation)_{*i*,*t*} > Liquidity_{*i*,*t*-1}

```
Liabilities_{i,t} = Liabilities_{i,t-1} + Cash Shortfall_{i,t}
```

```
Current Liabilities<sub>i,t</sub> = Current Liabilities<sub>i,t-1</sub> + 50% × Cash Shortfall<sub>i,t</sub>
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```



Estimating the Impact of the COVID-19 Recession on Greek Corporate Balance Sheets*:

Enterprise Sample Description

Main Assumptions

- ✓ We examine all non-financial sectors of economic activity according to the NACE rev. 2 classification.
- ✓ For our analysis, we used the sample of selected enterprises described in the methodological framework of our ERS, published in our September 2019 report**. The data reference year is 2018. We assume that in 2019, financial conditions were not drastically different from 2018.

Firms by Sector

		12,259	Total 100.0%
4,3	79		Trade 35.7%
2,482			Manufacturing excl petroleum 20.2%
1,3 46			Accommodation & food services 11.0%
672			Construction 5.5%
648			Professional activities etc. 5.3%
475			Administrative activities etc. 3.9%
462			Transport & storage 3.8%
441			Information & communication [3.6%
325			Electricity, gas supply etc. 2.7%
283			Health services 2.3%
263			Real estate activities 2.1%
126			Agriculture sector 1.0%
111			Education 0.9%
74			Arts, entertainment and recreation 0.6%
66			Water supply, sewerage, recycling etc. 0.5%
43			Mining & quarrying 0.4%
40			Other service activities 0.3%
23			Manufacture of petroleum products etc 0.2%
0	5,000	10,000	15,000 0.0% 25.0% 50.0% 75.0% 100.0%

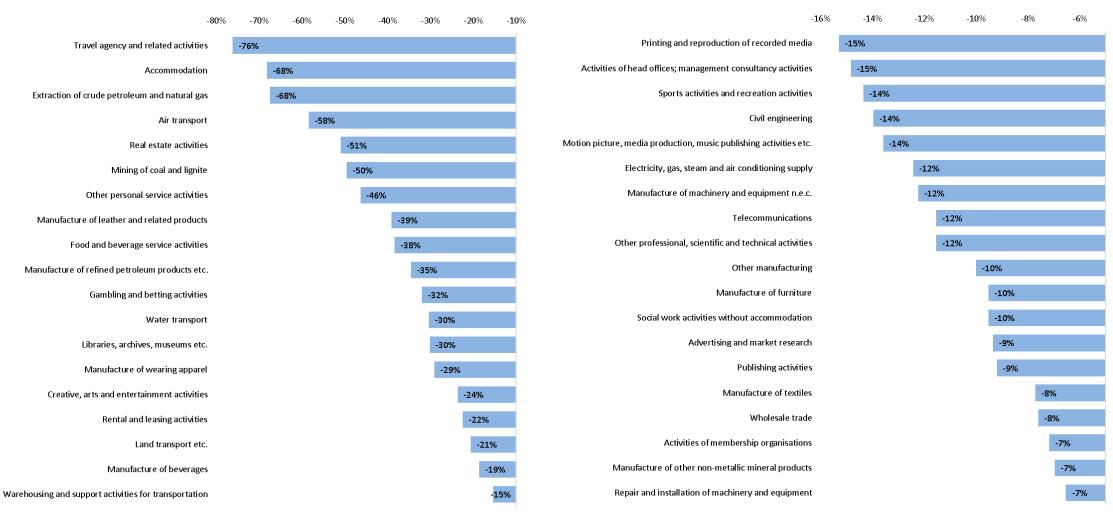
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* For more: Lekkos I., Vlachou P., Estimating the Impact of the COVID-19 Recession on Greek Corporate Balance Sheets: Results from a Highly Stylized Model, Piraeus Bank, Aug. 2020 ** For more: Lekkos I., Vlachou P., Enterprise Rating System (ERS): Separating wheat from chaff – increased percentage of underperformers versus medium performers, Piraeus Bank, Sept. 2019

Share of Firms by Sector

Demand Shock on 2020 Sectoral Sales (I)`

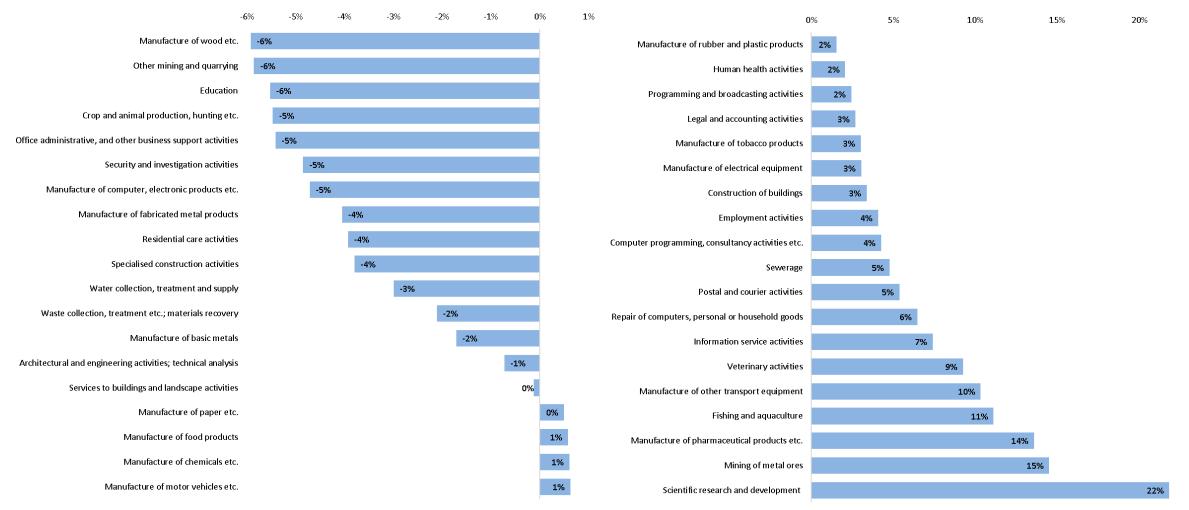
✓ Based on January – December 2020 yoy changes, we have defined the per–sector demand trends as follows:



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 Our analysis is based on enterprises with available financial statements. For consistency reasons, we used the turnover of entities with double-entry bookkeeping by ELSTAT per two-digit NACE rev. 2 analysis, expect for 45 (trade and repair of vehicles) and 47 (retail trade).

Demand Shock on 2020 Sectoral Sales (II)

✓ Based on January – December 2020 yoy changes, we have defined the per–sector demand trends as follows:

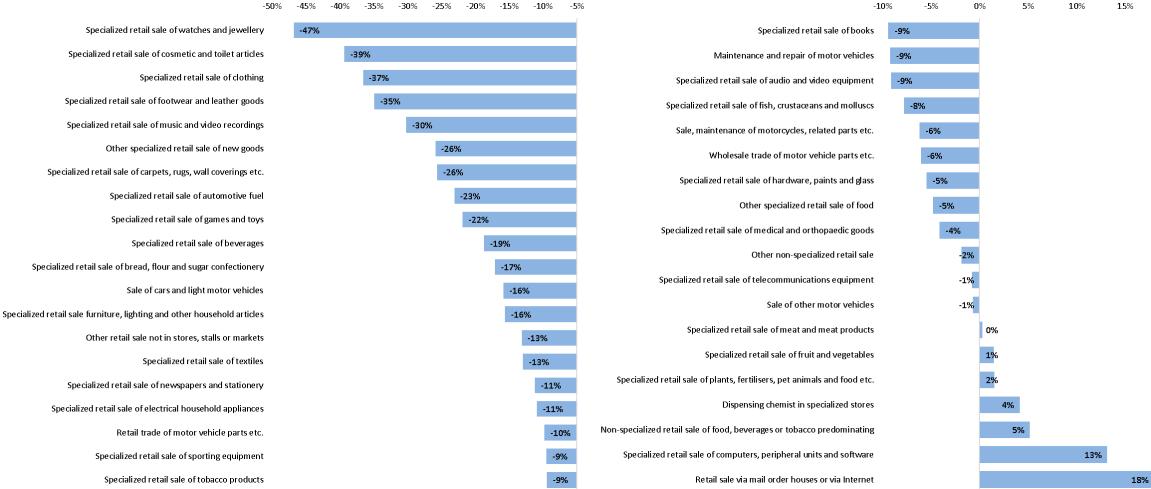


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 Our analysis is based on enterprises with available financial statements. For consistency reasons, we used the turnover of entities with double-entry bookkeeping by ELSTAT per two-digit NACE rev. 2
 analysis, expect for 45 (trade and repair of vehicles) and 47 (retail trade).

Demand Shock on 2020 Sectoral Sales (III): A Deep Dive in Autos' and Retail Trade

 Based on Q1-Q4 2020 yoy changes, for trade and repair of vehicles and retail trade we have defined the per-sector demand trends as follows:



- The turnover trends of the subsectors of the retail trade were mixed, depending on the health crisis measurements.
- ELSTAT has available further details for the turnover of trade and repair of vehicles (45) and the retail trade (47) per four-digit NACE rev. 2 analysis. However, the turnover of entities with double-entry bookkeeping is not available for all months of 2020.
- Since we wanted to examine the impact of the COVID-19 pandemic for the whole 2020, for sectors 45 and 47 we used the turnover data for the total of enterprises, available in quarters.

The impact of our methodology on the b/s of our 12,259 rated Greek corporations is as follows: **Turnover Adjustment** is estimated at €17.2bn, or 14.1% of pre-COVID-19 sales.

€-17.2bn turnover decline due to COVID-19 (figures in €mn)

% Turnover decline due to COVID-19

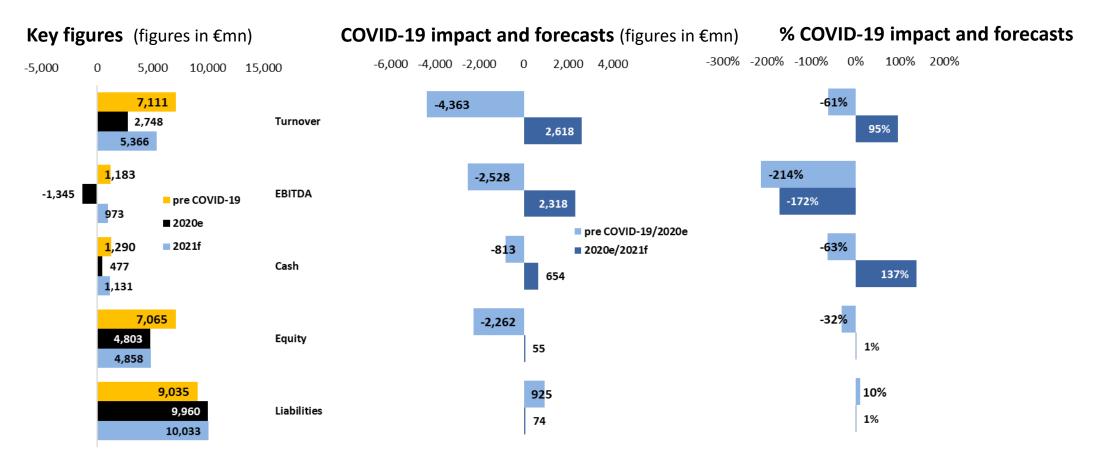
-17	7,241		Total	-14.1%
	-5,765		Manufacture of petroleum products etc.	-34.6%
	-3,433		Trade	-7.7 <mark>%</mark>
	-2,5 <mark>09</mark>		Accommodation & food services	-64.4%
	-1,78 <mark>3</mark>		Transport & storage	-25.7%
	-871		Administrative activities etc.	-37.1%
	-515	(Information & communication	-8.9 <mark>%</mark>
	-514	1	Arts, entertainment and recreation	-30.2%
	-475	(Manufacturing excl petroleum	-1.7%
	-459	1	Electricity, gas supply etc.	-12. <mark>4%</mark>
	-424	1	Construction	-9.6 <mark>%</mark>
	-329	1	Real estate activities	-50.9%
	-89		Professional activities etc.	-8.2 <mark>%</mark>
	-61		Mining & quarrying	- <mark>21.6%</mark>
	-15		Water supply, sewerage, recycling etc.	-2.2%
	-11		Other service activities	-22.5%
	-11		Education	-5.5% <mark>-</mark>
	0		Agriculture sector	0.0%
		23	Health services	1
-22,500 -15,0)00 -7,500	0	7,500	-80.0% -60.0% -40.0% -20.0% 0.0%

Tourism 2021 Forecast: Under the assumption that 2021 turnover will recover 60% of 2020e

turnover loss

PIRAEUS BANK

✓ The tourism sector will regain a part of its lost "glory" in terms of profitability and liquidity, but with an additional credit burden.



- ✓ **Tourism definition**: water transport, air transport, accommodation, beverage and food services, travel agencies.
- ✓ Under the assumption that 2021 operating revenue to operating expenses ratio is the same with the pre COVID-19 relevant ratio.

1

✓ 85.4% of equity erosion is recorded in just three sectors: manufacturing of petroleum products, trade and accommodation and food services.

						55.044		-	700		
Total		60,793				55,010		-5,	783		
Manufacture of petroleum products etc.				- E	924					-2,273	
Trade	10,080				8,713					- <mark>1,368</mark>	
Accommodation & food services	5,936				4,636					-1,300	
Transport & storage	5,447				4,765					-6 <mark>83</mark>	
Administrative activities etc.	678				270					-408	
Construction	2,518				2,125					-394	
Arts, entertainment and recreation	891			- I-	682					-210	
Real estate activities	4,151				4,073					-78	1
Mining & quarrying	339				299					-40	
Agriculture sector	391				352					-39	
Professional activities etc.	454				429					-25	
Education	134			:	125					-9	
Other service activities	20				14					-6	
Health services	860				879						19
Water supply, sewerage, recycling etc.	1,123				1,171						48
Electricity, gas supply etc.	4,011				4,229						217
Information & communication					6,9 <mark>99</mark>						351
Manufacturing excl petroleum					14,326						414
	0	50,000	100,000	0	20,000	40,000	60,000	-6,000	-4,000	-2,000	0
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Equity before COVID-19 (figures in €mn) Estimated equity 2020 (figures in €mn)

Equity change due to COVID-19 (figures in €mn)

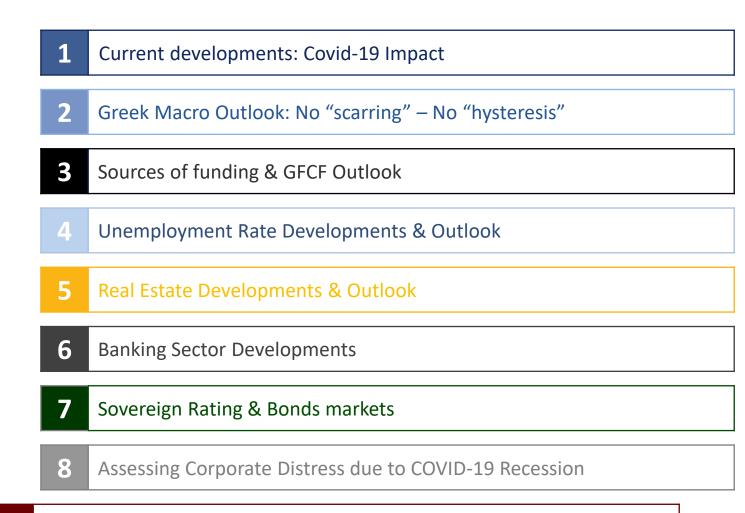
Source: ICAP DATA.Prisma, ELSTAT, Piraeus Bank Research

✓ 60% of additional need for credit support stems from trade, manufacturing of petroleum products and accommodation and food services.

	1										
Total		93	3,767			96,524				2,75	57
Trade	19,13 6			19,91	.9			7	783		
Manufacture of petroleum products etc.	5,591			6,054	Ļ			462			
Accommodation & food services	<mark>7</mark> ,164			7,574	Ļ			410			
Administrative activities etc.	1,713			2,024	Ļ			31 1			
Transport & storage	<mark>8</mark> ,389			<mark>8</mark> ,684	L I			29 <mark>4</mark>			
Manufacturing excl petroleum	21,745			21,93	0			1 85			
Information & communication	7 ,912			<mark>8</mark> ,019)			108			
Construction	5,934			6,013	3			79			
Real estate activities	3,025			3,056	5			31			
Agriculture sector	1,088			1,111	L			23			
Arts, entertainment and recreation	1,357			1,378	3			21			
Professional activities etc.	884			904				20			
Electricity, gas supply etc.	<mark>6</mark> ,693			6,707	,			14			
Health services	1,623			1,631	L			8			
Other service activities	31			34				3			
Education	225			227				2			
Mining & quarrying	398			400				2			
Water supply, sewerage, recycling etc.	859			860				1			
	0	50,000	100,000	0	40,000	80,000	120,000	0	1,000	2,000	3,000
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Liabilities before COVID-19 (figures in €mn) Estimated labilities 2020 (figures in €mn)

Additional liabilities (figures in €mn)



9 SWOT analysis

SWOT analysis

- Priority in key development areas (i.e., green economy, digital transformation, infrastructure etc).
- The banking sector can boost investment activity. by exploiting ECB's liquidity facilities.
- Continuing the reforms that have taken place in recent years.
- Capitalizing on the country's key geographic location.
- Emphasizing sectors with a comparative advantage.



- Low efficiency of the state mechanism in the management of financial resources based on previous experiences with EU financial programs.
- High NPE burden for Greek banks.
- High public debt.
- The comparatively small size of most Greek companies.
- A tax system that create disincentives for foreign investors.
- Occasionally, low acceptance of reform frameworks on the political and social levels.

- Available funding sources of €87bn in 2021-2027
- Dynamic restart of the economy to change the economic paradigm.
- Mitigation of fiscal stability rules.
- Rapid removal of NPEs from banks.
- Distribution of funds to dynamic businesses and industries aimed at extroversion and innovation.
- Exclusion of unsustainable 'zombies' and non-productive companies.

- Shallow recovery of the Greek economy, along with persistently high unemployment.
 - Lack of ownership in and commitment to structural reforms.
 - Delays in disbursements from the Recovery Fund.
 - Return to the regime of primary surpluses.
 - The competitive nature of the Recovery Fund in conjunction with the time constraints for the submission of investment projects.

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