

A quantitative assessment of the agreement on Greece reached at the Eurogroup of 15 June 2017

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Summary of views & key findings

- ☐ This study attempts a quantitative assessment of the decisions made for Greece at the Eurogroup of 15 June 2017, with particular emphasis on the clarifications provided on the medium- and long-term framework for debt relief.
- The study attempts a replication of the most recently published debt sustainability analyses (DSA) presented in: a) the European Commission's Compliance Report for the First Review of the Third Economic Adjustment Programme for Greece (Jun. 2016); and b) the IMF's Article IV (Feb. 2017).
- □ Furthermore, it presents an assumed baseline scenario, which is based on the European Commission's DSA (Jun. 2016) adjusted to incorporate the new fiscal path agreed at the Eurogroup of 15 June 2017; namely, an annual general government primary surplus of 3.5%-of-GDP for the period 2018-22 and a primary surplus equal to or higher than 2.0%-of-GDP for the rest of the projection horizon (2023-60) see *page* # 5.

Baseline scenarios

- □ The analysis presents the evolution of Greece's general government funding needs (GFN) as a % of GDP under the aforementioned baseline scenarios see *page* # 6.
- □ In line with the baseline DSAs presented in the European Commission (Jun. 2016) and the IMF Article IV (FEB. 2017) reports, the GFN-to-GDP ratio is projected to evolve as follows:
- **Scenario I** European Commission (Jun. 2016): GNF ratio remains below the medium-term sustainability threshold of 15% over the period 2018-40, but exceeds the respective long-term threshold of 20% afterwards, reaching 23.3% in 2060.
- **Scenario II** *IMF Article IV (Feb. 2017):* GNF ratio crosses the 15% threshold already in 2024 and the 30% threshold by 2031, reaching around 62% by 2060.
- **Scenario III** European Commission (Jun. 2016), incorporating the new fiscal path agreed at the Eurogroup of 15 Jun 2017 (based on number of simplifying assumptions made by the Author): GNF ratio evolves broadly in line with what has been projected in the European Commission's Jun. 2016 DSA, reaching around 26% at the end of the forecasting horizon (2060), reflecting the agreed downward adjustment in the medium- & long-term primary surplus targets.

Debt relief scenarios

- □ The analysis also presents the evolution of Greece's general government funding needs (GFN) as a % of GDP under three theoretical debt relief scenarios; namely:
- **Scenario III with debt relief** (see *page* # 8) -- *Scenario III*, incorporating an assumed debt relief package which is deemed compatible with the clarifications for the medium-term relief framework provided at the Eurogroup of 15 June 2017; namely: a) maturity extension of all EFSF loans (2nd programme) by 15 years; b) further deferral of interest & principal payments on these loans by 15 years; c) abolishment of the step-up interest rate margin of the debt buyback tranche;



Summary of views & key findings (continued)

and d) return to Greece of profits accrued to the euro system's ANFA and SMP portfolios of Greek debt (2014 and from budget year 2017 onwards). Under this scenario, the GFN ratio remains broadly below the 15% to 20% sustainability threshold over the full projection horizon (2018-2060).

- **Scenario II with IMF-proposed debt relief** (see *page* # 9) -- Scenario II, incorporating an assumed debt relief package, which is broadly in line with an indicative proposal presented in the IMF's latest Article IV report. Under this scenario, which assumes much more substantial debt relief than that implied by the existing European medium-term framework, the GFN ratio remains broadly below the 15% to 20% sustainability threshold over the full projection horizon (2018-2060).
- Scenario II with EU framework-compatible debt relief (see page #10) -- Scenario II, incorporating an assumed debt relief package, which is deemed compatible with the clarifications for the medium-term relief framework provided at the Eurogroup of 15 June 2017; namely: a) maturity extension of all EFSF loans (2nd programme) by 15-years; b) further deferral of interest & principal payments on these loans by 15 years; c) abolishment of the step-up interest rate margin of the debt buyback tranche; and d) return to Greece of profits accrued to the euro system's ANFA and SMP portfolios of Greek debt (2014 and from budget year 2017 onwards). Under this scenario, which assumes much less substantial debt relief relative to that presented in the IMF's latest Article IV (Feb. 2017), the GFN ratio cross the 15% threshold already in 2024, reaching levels higher than 45% by 2060.

Contrasting the size debt relief implied by the aforementioned scenarios

□ Assuming that the macroeconomic scenario will evolve in line with that assumed in the IMF's latest Article IV report(Feb. 2017), the IMF's debt relief proposal implies an additional reduction in the GFN-to-GDP ratio (relative to that implied by the EU framework-compatible relief package specified above) to the tune of: 1.1% in 2018-20; 7% in 2021-30; 17% in 2031-40; 20.5% in 2041-50; and 25.5% 2051-60 (all in period average terms) – see *page # 11*.

Bottom line

- □ As we have noted in a number of earlier research pieces on Greek public debt, a significant part of debt relief implied by the existing European framework for medium-term debt relief is mainly projected to come from the targeted reprofiling (maturity & grace period extensions) of the EFSF loans disbursed to Greece in the context of the 2nd bailout; and this, without incurring any additional costs for former programme countries or to the EFSF.
- □ On the other hand, the existing framework does not envisage any interventions in/reprofiling of the remaining package of EU loans to Greece (GLF facility & ESM).
- □ However, the package of outstanding EFSF loans to Greece constitute c. 60% of all EU loans disbursed thus far and just c. 50% of all EU loans that are expected to be disbursed until the completion of the present programme (all in notional terms).



Summary of views & key findings (continued)

- □ The baseline of all these is that the scope of the existing medium- and long-term debt relief framework would probably need to further be extended and/or clarified if debt sustainability were to be accommodated under significantly more adverse macroeconomic scenarios, such as the one currently assumed by the IMF.
- □ The latter could be done by e.g. adjusting the existing framework to envisage a significant reprofiling of all EU loans disbursed to Greece under the three bailout programme, or, alternatively, by providing an explicit commitment on the part of the EU creditors to keep Greece's GFN ratio within the respective suitability range over the full-projection horizon.

Important notes

- i. We stress that most of the analysis presented in this document utilizes a number of simplifying, yet necessary assumptions made by the Author to account for some crucial information pieces that are missing from the published official documents. This effectively implies that the estimates and projections provided herein may deviate somewhat from these presented in the respective official documents. In any case, we believe that the analysis provides useful insides on a range of crucial issues and challenges related to the authorities' ongoing efforts to restore the medium- and long-term sustainability of Greece's fiscal position.
- ii. Due to the lack of adequate information, this document provides no analysis on the potential implications of either the operational growth adjustment mechanism or the long-term contingency mechanism for Greek debt cited in the formal statement released upon the completion of the June 15 Eurogroup.



Part I

Medium-term debt relief framework for Greece
A quantitative assessment of the agreement reached
at the Eurogroup of 15 June 2017

Public debt sustainability analysis (DSA) for Greece



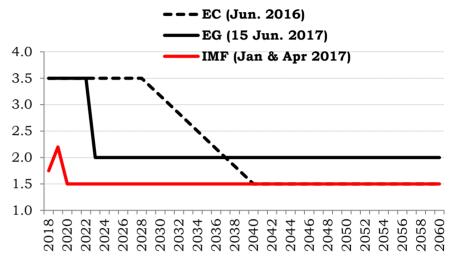
Underline assumptions of baseline scenarios (EU institutions & IMF staff)

Underlying macro assumptions

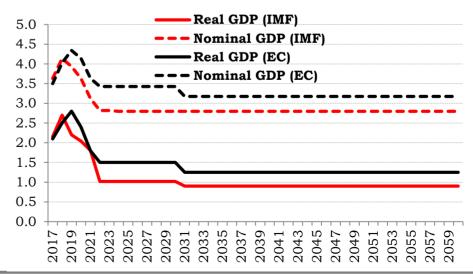
| | IMF, Article IV (Feb. 2017) | EC (Jun. 2016) & EG (Jun. 2017) |
|---|---|---|
| Average real GDP growth, % (long-term) | 0.95% | 1.25% |
| Average nominal GDP growth, % (long-term) | 2.8% | 3.2% |
| Primary suplus as % GDP (post-2018) | 1.5% | 3.5% until 2022 & c. 2.0% afterwards |
| Privatization revenue in € bn (full-projection horizon) | €10 bn | €18 bn |
| Set aside for bank recap needs in € bn (full-projection horizon) | €10 bn | none |
| Market refinancing rate (%) | 6.00% in 2019; +/-4bps afterwards per +/-1ppt change in debt ratio | 5.00% average in post- programme period (Eurobank Research) |

Assumed fiscal paths EU & IMF baseline scenarios

(primary surplus as % GDP)



Assumed GDP growth rates EU & IMF baseline scenarios



Baseline DSA scenarios



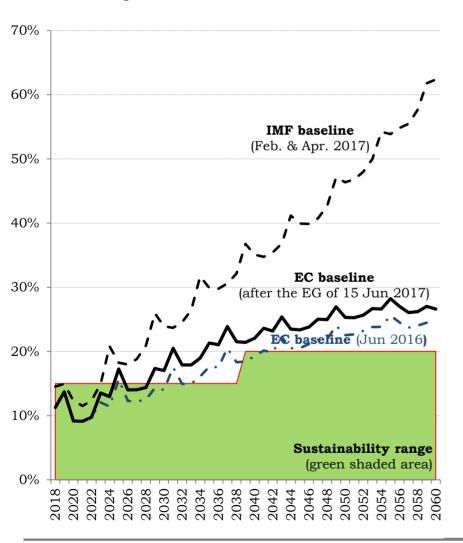
Before & after incorporating the fiscal path agreed at the 15 Jun. 2017 Eurogroup

Gross financing needs (GFN) as % of GDP

Eurobank Research estimates based on underlying macro assumptions of the EU institutions & the IMF staff

Gross financing needs as % of GDP (period average)

Eurobank Research estimates based on underlying macro assumptions of the EU institutions & the IMF staff



| period avrg / | IM F (Feb & Apr 2017) | EC (Jun 2016) | EC after the Eurogroup of 15 Jun 2017 | Sustainability threshold |
|---------------|-----------------------------|------------------|---|-----------------------------------|
| 2018-2020 | 13.9% | 11.4% | 11.4% | 15.0% |
| 2021-2030 | 18.5% | 12.3% | 13.9% | 15.0% |
| 2031-2040 | 30.1% | 17.5% | 20.7% | 15% in 2031-38; 20% in 2039-40 |
| 2041-2050 | 40.5% | 21.5% | 24.5% | 20.0% |
| 2051-2060 | 54.5% | 24.0% | 26.5% | 20.0% |

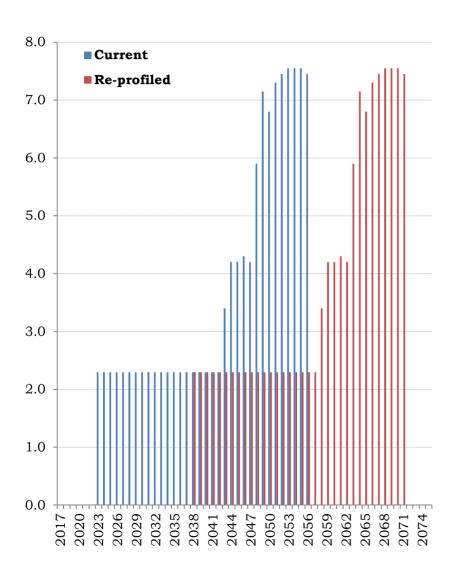
Public debt amortization payments (as of June 2017)





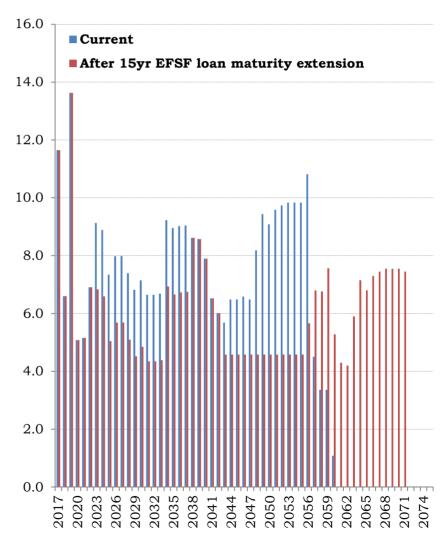
EFSF loan redemptions (€ bn)

Current & after extending loan maturity by 15 years



Total debt redemptions as of Jun. 2017 (€ bn)

Current & after extending EFSF loan maturities by 15 years (excl. T-bills)



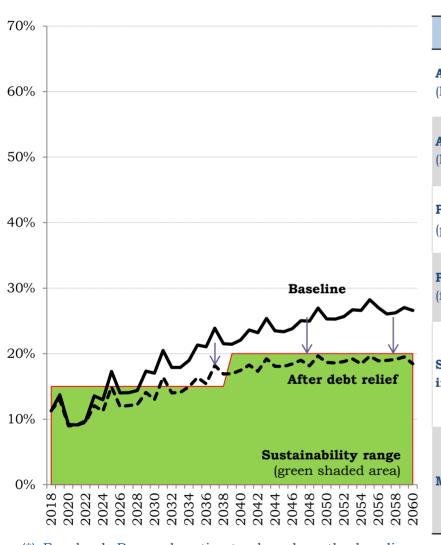
Sustainability analysis of Greek public debt





Gross financing needs as % of GDP (*)

Underlying macro & debt relief assumptions



| Baseline macro assu | ımptions | Debt relie | ef assumptions |
|--|--|---|--|
| Average real GDP growth (long-term) | 1.25% | EFSF loan maturities | extended by 15 years |
| Average <u>nominal</u> GDP growth (long-term) | 3.2% | EFSF principal & interest payments | deferred by 15 years |
| Primary suplus as % GDP (post-2018) | 3.5% until 2022 & c. 2.0% afterwards | Use of SMP profits from the ESM segregated account | budget year 2014 |
| Privatization revenue in € bn (full-projection horizon) | €18 bn | Return to Greece ANF & SMP profits | as of budget year 2017 |
| Set aside for bank recap needs in € bn (full-projection horizon) | none | Step-up IR margin of debt buy-back tranche of 2nd programme | fully abolished |
| Market refinancing rate | 5.00% average in post-programme period | Market refinancing of maturing debt | issuance of 6 yr fixed coupon bonds (Eurobank Research assumption) |

^(*) Eurobank Research estimates based on the baseline macro assumptions of the EC DSA (Jun. 2016) & the decisions made at the Eurogroup of 17 Jun. 2017

Greece public debt sustainability analysis





Gross financing needs as % of GDP (*)

70% 60% 50% **Baseline** 40% 30% 20% After debt relief 10% Sustainability range (green shaded area) 0% 2018 2020 2022 2024 2026 2028 2030 2032

(*) Eurobank Research estimates based on the baseline macro assumptions & the debt relief proposal presented in the IMF's Article IV report for Greece (Feb. 2017)

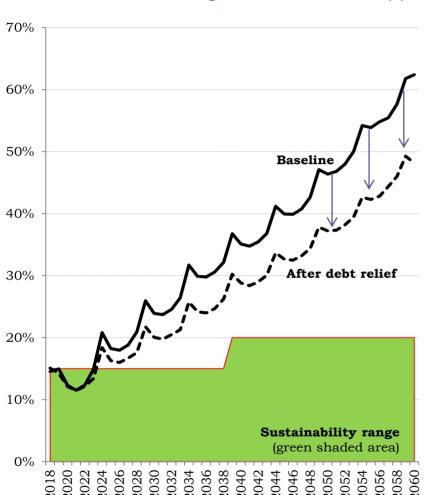
Underlying macro & debt relief assumptions

| Baseline macro as | sumptions | Debt 1 | relief assumptions |
|--|---|---|---|
| Average real GDP growth (long-term) | 0.95 | GLF loans (1st programme) | loan maturities extension (30yrs) & deferral of interest & principal payments (21 & 20 yrs, respectively) |
| Average <u>nominal</u> GDP growth (long-term) | 2.8% | EFSF loans (2nd programme) | loan maturities extension (14 yrs) & deferral of interest & principal payments (20 & 17 yrs, respectively) |
| Primary suplus as % GDP (post-2018) | 1.5% | ESM loans (3rd programme) | loan maturities extension (10 yrs) & deferral of interest and principal payments (19 & 6 yrs, respectively) |
| Privatization revenue, € bn (full-projection horizon) | €10 bn | Interest on deferred interest | 1.5% per year until 2040 & 3.8% afterwards |
| Set aside for bank recap, € bn (full-projection horizon) | €10 bn | Return of ANFA and SMP profits | €1.8bn pending from 2014 plus profits accrued from 2018 onwards |
| Market refinancing rate | 6.00% in 2019; +/-4bps afterwards per +/- 1ppt change in debt ratio | Market refinancing of maturing debt | issuance of 5yr fixed coupon bonds (Eurobank Research assumption) |

Greece public debt sustainability analysis

IMF baseline scenario incorporating medium debt relief compatible with the EU framework

Gross financing needs as % of GDP (*)



(*) Eurobank Research estimates based on the baseline macro assumptions presented in the IMF's Article IV report (Feb. 2017) & an assumed debt relief scenario compatible with the decisions made at 15 June 2017 Eurogroup

Underlying macro & debt relief assumptions

| Baseline macro assu (IMF Article IV, Feb | - | Debt relief assumptions (scenario compatible with the Europea medium-term framework, as specified the Eurogroup of 15 Jun 2017) | | | | | |
|--|---|---|--|--|--|--|--|
| Average <u>real</u> GDP growth (long-term) | 0.95% | EFSF loan maturities | extended by 15 years | | | | |
| Average <u>nominal</u> GDP growth (long-term) | 2.8% | EFSF principal & interest payments | deferred by 15 years | | | | |
| Primary suplus as % GDP (post-2018) | 1.5% | Use of SMP profits from the ESM segregated account | budget year 2014 | | | | |
| Privatization revenue, € bn (full-projection horizon) | €10 bn | Return to Greece ANF & SMP profits | as of budget year 2017 | | | | |
| Set aside for bank recap, € bn (full-projection horizon) | €10 bn | Step-up IR margin of debt buy-back tranche | fully abolished | | | | |
| Market refinancing rate | 6.00% in 2019; +/-4bps afterwards per +/-1ppt change in debt ratio | Market refinancing of maturing debt | issuance of 6 yr fixed coupon bonds (Eurobank Research assumption) | | | | |

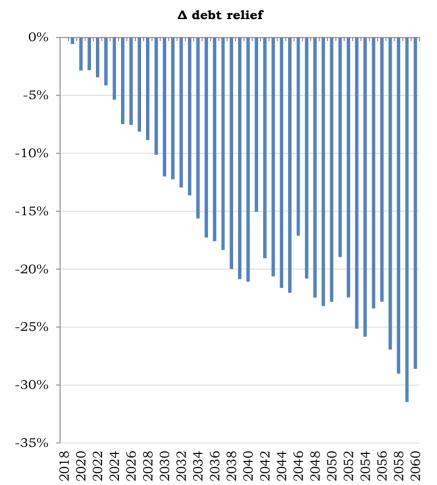
Comparative size of debt relief for Greece



IMF staff analysis (Feb 2017) vs. European medium-term framework (EG, Jun 2017)

Δ debt relief as % of GDP (*)

Assuming IMF's baseline macro scenario



(*) Eurobank Research estimates based on the baseline macro assumptions presented in the IMF's Article IV report (Feb. 2017) & an assumed debt relief scenario compatible with the decisions made at 15 June 2017 Eurogroup

Δ debt relief as % of GDP (*) Assuming IMF's baseline macro scenario

| period average (ppts of GDP) / | scenario A Implied by indicative debt relief package presented in IMF's Article IV (Feb. 2017) | Scenario B Implied by (assumed) debt relief package compatible with the 15 Jun 2017 EG decisions | Difference (B - A) |
|-----------------------------------|--|--|-----------------------|
| 2018-2020 | 1.5% | 0.3% | -1.1% |
| 2021-2030 | 9.2% | 2.2% | -7.0% |
| 2031-2040 | 22.5% | 5.5% | -17.0% |
| 2041-2050 | 28.1% | 7.6% | -20.5% |
| 2051-2060 | 36.9% | 11.5% | -25.5% |



Part II

Greece general government borrowing needs & funding sources; impact of short-term debt relief measures; and purchasing capacity of Greek eligible debt under ECB's PSPP (QE)

Greece: state borrowing needs & sources of funding (€ bn)



January 2017-August 2018

| | | | FY-2017 | | | | | FY-2018 | | |
|---|------|------|---------|------|---------|------|------|---------|--------|-----------------|
| | Q1 | Q2 | Q3 | Q4 | FY-2017 | Q1 | Q2 | July | August | Jan-Aug 2018 |
| State cash primary balance ¹ ("-" = surplus) | -1.0 | 1.7 | -4.5 | 0.0 | -3.8 | -1.1 | -1.1 | -0.4 | -0.4 | -3.0 |
| Interest payments | 2.4 | 1.1 | 1.3 | 0.7 | 5.6 | 2.3 | 0.7 | 0.6 | 1.1 | 4.7 |
| Amortization payments | 0.2 | 2.2 | 7.1 | 0.2 | 9.7 | 0.7 | 0.8 | 2.4 | 0.0 | 3.9 |
| Banking sector needs ² | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Partial unwinding of repo operations ³ | 0.0 | 0.0 | 0.0 | 2.0 | 2.0 | 0.0 | 0.0 | 2.0 | 0.0 | 2.0 |
| Clearance of arrears ⁴ | 1.7 | 0.0 | 1.8 | 0.0 | 3.5 | 1.0 | 1.0 | 0.0 | 0.0 | 2.0 |
| I. Gross financing need | 3.3 | 5.0 | 5.7 | 3.0 | 16.9 | 2.9 | 1.4 | 4.6 | 0.7 | 9.6 |
| II. Gross financing source | 0.8 | 0.5 | 0.5 | 0.5 | 2.3 | 1.1 | 0.8 | 0.0 | 0.0 | 1.9 |
| Privatisation revenue ⁵ | 0.5 | 0.5 | 0.5 | 0.5 | 2.0 | 0.8 | 0.8 | 0.0 | 0.0 | 1.6 |
| Return to Greece of ANFA and SMP profits | 0.3 | 0.0 | 0.0 | 0.0 | 0.3 | 0.3 | 0.0 | 0.0 | 0.0 | 0.3 |
| III. Net financing need (I-II) | 2.5 | 4.5 | 5.2 | 2.5 | 14.6 | 1.8 | 0.6 | 4.6 | 0.7 | 7.7 |
| Official loan disbursements ⁶ | 7.6 | 9.6 | 2.0 | 5.1 | 24.3 | 3.0 | 3.4 | 0.0 | 3.5 | 9.9 |
| State deposit financing | -5.1 | -5.1 | 3.2 | -2.6 | -9.7 | -1.2 | -2.8 | 4.6 | -2.8 | -2.2 |
| Use of subsector deposits (repos) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| IV. Financing gap | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memo items | | | | | | | | | | |
| Total State deposit stock e.o.p (assumed c. € 3bn at end-2016) | 8.1 | 13.2 | 10.0 | 12.7 | 12.7 | 13.9 | 16.7 | 12.1 | 14.9 | 14.9 |

^{1/} Assumptions for FY-2017 in line with 2017 Budget; assumptions for 2018 in line with EC compliance report (June 2016)

^{2/} Table assumes no need for any new bank recapitalisations

^{3/ &}amp; 4/ Eurobank Research assumptions

^{5/} Revenues assumed for FY-2017 in line with 2017 Budget; assumptions for 2018 in line with EC compliance report (June 2016)

^{6/} Timeline of official loan disbursements assumed to be in line with the EC compliance report (June 2016); €6.1bn loan tranche of 2nd programme review



Greece: monthly amortization payments on public debt in 2017 (€ bn)

| | NCBs (ANFA) | ECB (SMP) | Old GGBs (holdouts) | GGBs issued in 2014 | Bonds (total) | BoG loans | Special purpose & bilateral international loans (EIB) | Other loans | EFSF loans | GLF loans | IMF loans | ESM loans (3rd bailout) | Total |
|--------|---|--------------|---|---------------------------|------------------|-----------|--|----------------|---------------|--------------|-----------|-------------------------------|-------|
| Jan-17 | | | | | | | | | | | | | |
| Feb-17 | | | | 0.005 | 0.005 | | | | | | | | 0.00 |
| Mar-17 | | | | | | | 0.01 | | | | 0.15 | | 0.16 |
| Apr-17 | 0.17 | 1.23 | | | 1.40 | | | 0.21 | | | | | 1.61 |
| May-17 | | | *************************************** | | | | | | | | | | |
| Jun-17 | | | | | | 0.47 | 0.14 | | | | | | 0.61 |
| Jul-17 | 1.46 | 2.42 | 0.20 | 2.09 | 6.16 | | 0.11 | | | | 0.30 | | 6.57 |
| Aug-17 | | | 0.38 | | 0.38 | | | | | | | | 0.38 |
| Sep-17 | | | | | | | 0.004 | | | | 0.15 | | 0.15 |
| Oct-17 | | | | | | | | | | | | | |
| Nov-17 | *************************************** | | | | | | | | | | | | |
| Dec-17 | | | | | | | 0.03 | | | | 0.16 | | 0.19 |
| Total | 1.62 | 3.66 | 0.57 | 2.09 | 7.95 | 0.47 | 0.30 | 0.21 | | | 0.75 | | 9.67 |

^(*) Table excludes T-bill maturities (full rollover assumed) & partial unwinding of repo operations (inter-governmental borrowing)

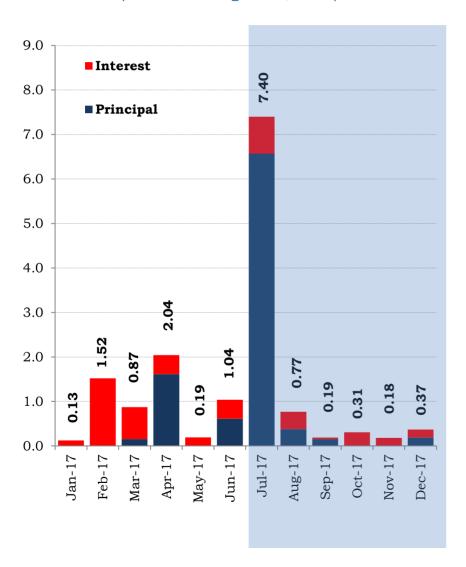
Greece: interest & amortization payments on public debt (€ bn)



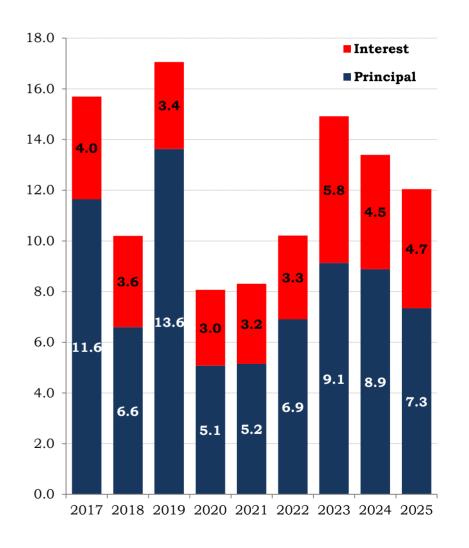


Monthly interest & amortization payments on Greek public debt

(Jan 2017-Aug 2018; € bn)



Annual interest & amortization payments on Greek public debt (2017- 2025)



Greece: central government amortization payments schedule





| | T-bills | NCBs (ANFA) | ECB (SMP) | Bonds | BoG loans | Special purpose & bilateral internatio nal loans (EIB) | Other internat ional loans | EFSF loans re- profiled | GLF loans (1st bailout) | IM F loans | Repos (EUR 11.9bn outstan ding) | ESM loans (assumed at €64.8bn by Aug. 2018) | Total excluding T- bills |
|-------|---------|----------------|--------------|-------|--------------|--|-------------------------------------|----------------------------------|----------------------------------|---------------|---|--|--------------------------------|
| 2017 | 15.0 | 1.6 | 3.7 | 2.7 | 0.5 | 0.3 | 0.2 | 0.0 | 0.0 | 0.7 | 2.0 | 0.0 | 11.6 |
| 2018 | 15.0 | 0.6 | 1.3 | 0.0 | 0.5 | 0.3 | 0.2 | 0.0 | 0.0 | 1.8 | 2.0 | 0.0 | 6.6 |
| 2019 | 15.0 | 1.0 | 4.8 | 4.8 | 0.5 | 0.3 | 0.2 | 0.0 | 0.0 | 2.0 | | 0.0 | 13.6 |
| 2020 | 15.0 | 0.2 | 1.1 | | 0.5 | 0.3 | 0.2 | 0.0 | 0.7 | 2.0 | | 0.0 | 5.1 |
| 2021 | 15.0 | | | | 0.5 | 0.4 | 0.2 | 0.0 | 2.1 | 2.0 | | 0.0 | 5.2 |
| 2022 | 15.0 | 0.8 | 0.5 | 0.0 | 0.5 | 0.4 | 0.2 | 0.0 | 2.6 | 1.9 | | 0.0 | 6.9 |
| 2023 | 15.0 | | | 1.8 | 0.5 | 0.4 | 0.2 | 2.3 | 2.6 | 1.3 | | 0.0 | 9.1 |
| 2024 | 15.0 | 0.2 | 1.1 | 1.8 | | 0.4 | 0.2 | 2.3 | 2.6 | 0.3 | | 0.0 | 8.9 |
| 2025 | 15.0 | 0.1 | | 1.7 | | 0.4 | 0.2 | 2.3 | 2.6 | | | 0.0 | 7.3 |
| Total | 135.0 | 4.5 | 12.5 | 12.9 | 3.3 | 3.2 | 1.6 | 6.9 | 13.4 | 12.1 | 4.0 | 0.0 | 74.4 |

Greece: central government interest payments schedule





| | T-bills (assumed IR 4.0%) | NCBs_ANFA (assumed avrg. IR 5.2%) | ECB_SMP (assumed avrg. IR 5.3%) | Bonds (assumed IR 3% up to 2020; 3.65% in 2021 & 4% afterwards) | BoG loans (assumed IR 4.0%) | Special purpose & bilateral intern. loans (assumed IR 3.5%) | Other international loans (assumed IR 3.0%) | EFSF (IR: funding cost + spread) | GLF (IR: 3m euribor+50bps) | IM F (assumed IR 3.4%) | Repos (assumed IR 3.7%) | ESM (IR: ESM funding + 10bps) | Total |
|-------|---------------------------------|---|---------------------------------------|--|-----------------------------------|--|---|--|-------------------------------|------------------------------|-------------------------------|--|-------|
| 2017 | 0.60 | 0.26 | 0.70 | 1.16 | 0.00 | 0.23 | 0.13 | 0.00 | 0.12 | 0.41 | 0.44 | 0.00 | 4.05 |
| 2018 | 0.60 | 0.17 | 0.51 | 1.08 | 0.01 | 0.22 | 0.13 | 0.00 | 0.12 | 0.39 | 0.38 | 0.00 | 3.60 |
| 2019 | 0.60 | 0.14 | 0.44 | 1.08 | 0.01 | 0.21 | 0.12 | 0.00 | 0.17 | 0.33 | 0.33 | 0.00 | 3.43 |
| 2020 | 0.60 | 0.09 | 0.18 | 0.94 | 0.01 | 0.19 | 0.12 | 0.00 | 0.27 | 0.26 | 0.33 | 0.00 | 2.99 |
| 2021 | 0.60 | 0.08 | 0.12 | 1.14 | 0.01 | 0.18 | 0.11 | 0.00 | 0.39 | 0.19 | 0.33 | 0.00 | 3.16 |
| 2022 | 0.60 | 0.08 | 0.12 | 1.25 | 0.01 | 0.17 | 0.11 | 0.00 | 0.52 | 0.12 | 0.33 | 0.00 | 3.31 |
| 2023 | 0.60 | 0.04 | 0.10 | 1.25 | 1.50 | 0.16 | 0.10 | 0.95 | 0.63 | 0.06 | 0.33 | 0.08 | 5.79 |
| 2024 | 0.60 | 0.04 | 0.10 | 1.18 | | 0.14 | 0.10 | 1.13 | 0.73 | 0.01 | 0.33 | 0.16 | 4.51 |
| 2025 | 0.60 | 0.03 | 0.04 | 1.11 | | 0.13 | 0.09 | 1.32 | 0.79 | | 0.33 | 0.27 | 4.70 |
| Total | 5.38 | 0.91 | 2.31 | 10.19 | 1.56 | 1.62 | 1.02 | 3.40 | 3.74 | 1.76 | 3.13 | 0.51 | 35.53 |

Greece: multi-year amortization payments on public debt (EUR bn)



Outstanding amounts as of January 2017

| 2018 1 2019 1 2020 1 2021 1 2022 1 2023 1 2024 1 2025 1 2026 1 2027 1 2028 1 2029 1 2030 1 2031 1 2032 1 2033 1 2034 1 2035 1 2036 1 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 | 1.6 0.6 1.0 0.2 0.8 0.2 0.1 0.2 0.1 | 3.7 1.3 4.8 1.1 0.5 1.1 0.7 | 2.7 0.0 4.8 0.0 1.8 1.8 1.7 1.5 1.5 1.7 1.5 1.7 1.4 1.4 1.4 1.4 | 0.5 0.5 0.5 0.5 0.5 0.5 0.5 | 0.3 0.3 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.5 0.2 0.4 0.1 0.1 0.0 | 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 | 0.0 0.0 0.0 0.0 0.0 0.0 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 | 0.0 0.0 0.0 0.7 2.1 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 | 0.7 1.8 2.0 2.0 2.0 1.9 1.3 0.3 | 2.0 2.0 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 9.6 4.6 13.6 5.1 5.2 6.9 9.1 8.9 7.3 8.0 8.0 7.4 6.8 |
|---|--|---|---|--|---|---|--|--|---|--|---------|--|--|
| 2019 1 2020 1 2021 1 2022 1 2023 1 2024 1 2025 1 2026 1 2027 1 2028 1 2029 1 2030 1 2031 2 2031 1 2032 1 2033 1 2034 1 2035 1 2036 1 2037 1 2038 1 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 | 0.8 0.2 0.2 0.1 0.2 | 4.8 1.1 0.5 1.1 0.7 | 4.8 0.0 1.8 1.8 1.7 1.5 1.5 1.7 1.5 1.7 1.5 1.4 1.4 1.5 1.7 1.4 | 0.5 0.5 0.5 0.5 | 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.5 0.2 0.4 0.1 0.1 | 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 | 0.0 0.0 0.0 0.0 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 | 0.0 0.7 2.1 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 | 2.0 2.0 2.0 1.9 1.3 | 2.0 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 13.6 5.1 5.2 6.9 9.1 8.9 7.3 8.0 8.0 7.4 6.8 |
| 2020 1 2021 1 2022 1 2023 1 2024 1 2025 1 2026 1 2027 1 2028 1 2029 1 2030 1 2031 2 2033 1 2034 1 2032 1 2033 1 2034 1 2035 1 2036 1 2037 1 2038 1 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 | 0.2 0.8 0.2 0.1 0.2 | 1.1 0.5 1.1 0.7 | 0.0 1.8 1.8 1.7 1.5 1.5 1.7 1.5 1.4 1.4 1.4 1.5 | 0.5 0.5 0.5 | 0.3 0.4 0.4 0.4 0.4 0.4 0.4 1.4 0.5 0.2 0.4 0.1 0.1 | 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 | 0.0 0.0 0.0 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 | 0.7 2.1 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 | 2.0 2.0 1.9 1.3 | | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 5.1 5.2 6.9 9.1 8.9 7.3 8.0 8.0 7.4 |
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| 2022 1 2023 1 2024 1 2025 1 2026 1 2027 1 2028 1 2029 1 2030 1 2032 1 2033 1 2034 1 2035 1 2036 1 2037 1 2038 1 2037 1 2038 1 2037 1 2038 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 | 0.2 0.1 0.2 | 0.7 | 1.8 1.8 1.7 1.5 1.5 1.7 1.5 1.4 1.4 1.4 1.5 1.7 1.5 1.7 | 0.5 | 0.4 0.4 0.4 0.4 0.4 1.4 0.5 0.2 0.4 0.1 | 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 | 0.0 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 | 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 | 1.9 1.3 | | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 6.9 9.1 8.9 7.3 8.0 8.0 7.4 6.8 |
| 2023 1 2024 1 2025 1 2026 1 2027 1 2028 1 2029 1 2030 1 2031 2 2033 1 2034 1 2035 1 2036 1 2037 1 2038 1 2039 1 2039 1 2040 1 2041 1 2042 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 | 0.2 0.1 0.2 | 0.7 | 1.8 1.8 1.7 1.5 1.5 1.7 1.5 1.4 1.4 1.4 1.5 1.7 1.5 1.7 | | 0.4 0.4 0.4 0.4 1.4 0.5 0.2 0.4 0.1 0.1 | 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 | 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 | 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 | 1.3 | | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 9.1 8.9 7.3 8.0 8.0 7.4 6.8 |
| 2024 1 2025 1 2026 1 2027 1 2028 1 2029 1 2030 1 2031 1 2032 1 2033 1 2035 1 2036 1 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 | 0.1 | 0.7 | 1.8 1.7 1.5 1.5 1.7 1.5 1.4 1.4 1.4 1.5 1.7 | 0.5 | 0.4 0.4 0.4 1.4 0.5 0.2 0.4 0.1 0.1 | 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 | 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 | 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 | | | 0.0 0.0 0.0 0.0 0.0 0.0 | 8.9 7.3 8.0 8.0 7.4 6.8 |
| 2025 1 2026 1 2027 1 2028 1 2029 1 2030 1 2031 1 2032 1 2033 1 2034 1 2035 1 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 | 0.1 | 0.7 | 1.7 1.5 1.5 1.7 1.5 1.4 1.4 1.4 1.5 1.7 | | 0.4 0.4 1.4 0.5 0.2 0.4 0.1 0.1 | 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 | 2.3 2.3 2.3 2.3 2.3 2.3 2.3 2.3 | 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 | 0.3 | | 0.0 0.0 0.0 0.0 0.0 | 7.3 8.0 8.0 7.4 6.8 |
| 2026 1 2027 1 2028 1 2029 1 2030 1 2031 1 2032 1 2033 1 2034 1 2035 1 2036 1 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 | 0.2 | | 1.5 1.5 1.7 1.5 1.4 1.4 1.4 1.5 1.7 | | 0.4 1.4 0.5 0.2 0.4 0.1 | 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 | 2.3 2.3 2.3 2.3 2.3 2.3 2.3 | 2.6 2.6 2.6 2.6 2.6 2.6 2.6 | | | 0.0 0.0 0.0 0.0 | 8.0 8.0 7.4 6.8 |
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| 2028 1 2029 1 2030 1 2031 1 2032 1 2033 1 2034 1 2035 1 2036 1 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 | 0.1 | 0.0 | 1.7 1.5 1.4 1.4 1.4 1.5 1.7 | | 0.5 0.2 0.4 0.1 | 0.2 0.2 0.2 0.2 0.2 | 2.3 2.3 2.3 2.3 | 2.6 2.6 2.6 2.6 | | | 0.0 | 7.4 6.8 |
| 2029 1 2030 1 2031 1 2032 1 2033 1 2034 1 2035 1 2036 1 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0 | 0.1 | 0.0 | 1.5 1.4 1.4 1.4 1.5 1.7 | | 0.2 0.4 0.1 0.1 | 0.2 0.2 0.2 0.2 | 2.3 2.3 2.3 | 2.6 2.6 2.6 | | | 0.0 | 6.8 |
| 2030 1 2031 1 2032 1 2033 1 2034 1 2035 1 2036 1 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 15.0 15.0 15.0 15.0 15.0 15.0 | 0.1 | 0.0 | 1.4 1.4 1.4 1.5 1.7 | | 0.4 0.1 0.1 | 0.2 0.2 0.2 | 2.3 2.3 | 2.6 2.6 | | | | |
| 2031 1 2032 1 2033 1 2034 1 2035 1 2036 1 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 15.0 15.0 15.0 15.0 15.0 | 0.1 | 0.0 | 1.4 1.4 1.5 1.7 1.4 | | 0.1 0.1 | 0.2 | 2.3 | 2.6 | | | 0.0 | 77 4 |
| 2032 1 2033 1 2034 1 2035 1 2036 1 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 15.0 15.0 15.0 15.0 | | | 1.4 1.5 1.7 1.4 | | 0.1 | 0.2 | | | | | | 7.1 |
| 2033 1 2034 1 2035 1 2036 1 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 15.0 15.0 15.0 | | | 1.5 1.7 1.4 | | | | 2.3 | | | | 0.0 | 6.6 |
| 2034 1 2035 1 2036 1 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 15.0 15.0 | | | 1.7 1.4 | | 0.0 | | | 2.6 | | | 0.0 | 6.6 |
| 2035 1 2036 1 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 15.0 | | | 1.4 | | | 0.2 | 2.3 | 2.6 | | | 0.0 | 6.7 |
| 2036 1 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 | | | | | 0.0 | 0.3 | 2.3 | 2.6 | | | 2.3 | 9.2 |
| 2037 1 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | | | | | | 0.0 | 0.3 | 2.3 | 2.6 | | | 2.3 | 9.0 |
| 2038 1 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 | | | 1.5 | | 0.0 | 0.3 | 2.3 | 2.6 | | | 2.3 | 9.0 |
| 2039 1 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | | 0.1 | 0.0 | 1.4 | | 0.0 | 0.3 | 2.3 | 2.6 | | | 2.3 | 9.0 |
| 2040 1 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 | | | 1.4 | | 0.0 | | 2.3 | 2.6 | | | 2.3 | 8.6 |
| 2041 1 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 | | | 1.3 | | 0.0 | | 2.3 | 2.6 | | | 2.3 | 8.6 |
| 2042 1 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 | | | 1.4 | | 0.0 | | 2.3 | 1.9 | | | 2.3 | 7.9 |
| 2043 1 2044 1 2045 1 2046 1 2047 1 | 15.0 | | | 1.4 | | 0.0 | | 2.3 | 0.6 | | | 2.3 | 6.5 |
| 2044 1 2045 1 2046 1 2047 1 | 15.0 | | | 1.4 | | | | 2.3 | | | | 2.3 | 6.0 |
| 2045 1 2046 1 2047 1 | 15.0 | | | | | | | 3.4 | | | | 2.3 | 5.7 |
| 2046 1 2047 1 | 15.0 | | | | | | | 4.2 | | | | 2.3 | 6.5 |
| 2047 1 | 15.0 | | | | | | | 4.2 | | | | 2.3 | 6.5 |
| | 15.0 | | | | | | | 4.3 | | | | 2.3 | 6.6 |
| | 15.0 | | | | | | | 4.2 | | | | 2.3 | 6.5 |
| | 15.0 | | | | ļ | | | 5.9 | | | | 2.3 | 8.2 |
| | 15.0 | | | | | | | 7.2 | | | | 2.3 | 9.4 |
| | 15.0 | | | | | | | 6.8 | | | | 2.3 | 9.1 |
| | 15.0 | | | | - | | | 7.3 | | | | 2.3 | 9.6 |
| | 15.0 | | | | | | | 7.5 | | | | 2.3 | 9.7 |
| | 15.0 | | | | | | | 7.6 | | | | 2.3 | 9.8 |
| | 15.0 | | | | 1 | | | 7.6 | | | | 2.3 | 9.8 |
| | 15.0 | | | | | | | 7.6 | | | | 2.3 | 9.8 |
| | 15.0 | | | | | | | 7.5 | | | | 3.4 | 10.8 |
| | | | | 1.1 | 1 | 1 | | 0.0 | | | | 3.4 | 4.5 |
| | 15.0 | | | | 1 | | | | | | | 3.4 | 3.4 |
| | 15.0 | i | | | | | | | | | | 3.4 | 3.4 |
| 2060 1 Total | | | | | 3.3 | 6.5 | 4.4 | 130.9 | 52.9 | 12.1 | 4.0 | 1.1 64.8 | 1.1 331.9 |

Source: PDMA, Greek budget 2017, EC (June 2016); Eurobank Economic Research

Greece: short-term debt relief package

Approved at the Eurogroup of December 5, 2016



I. Smoothening of the EFSF repayment profile

<u>Description</u>: 4-year extension in the weighted average maturity of EFSF loans provided to Greece in the context of the 2nd bailout programme.

<u>Objective</u>: reduce refinancing risks for the Greek state, by back-loading EFSF loan amortizations and creating a much lighter (and smoother) redemptions profile over the next two decades or so.

Impact (FY-2060): -3.6ppts and -0.8ppts respective reductions in public debt and GFN ratios.

II. Use of the EFSF/ESM funding strategy to reduce interest rate risk

Scheme 1 - Issuance of long-term fixed rate notes and bonds to the market with maturities up to 30 years, with a view to fund the repurchase of floating rate notes held by Greece's four systemic banks.

Impact (FY-2060): -7.1ppts and -1.6ppts respective reductions in public debt and GFN ratios.

Scheme 2 - Use of interest rate swaps to mitigate the risk of higher market rates, with the ensuing benefits to Greece from a sustainability standpoint varying with maturity, the rate and the size of the swap transactions that can be executed in the market.

Impact (FY-2060): -6.9ppts and -1.5ppts respective reductions in public debt and GFN ratios.

Scheme 3 - Use of matched funding, via ESM fixed rate long-term issuances with maturities up to 30 years, for part of future disbursements to Greece under the current programme (c. €30bn).

Impact (FY-2060): -1.3ppts and -0.3ppts respective reductions in public debt and GFN ratios.

III. Waiver of the step-up interest rate margin on the DBB tranche

<u>Description</u>: waiver of the step-up interest rate margin related to the debt buy-back tranche (€11.3bn) released in the context of the 2nd bailout programme.

<u>Impact (FY-2060)</u>: -0.3ppts and -0.1ppts respective reductions in public debt and GFN ratios.

<u>Total projected impact of measures I, II, & III (FY-2060)</u>: -21.8ppts and -4.9ppts respective reductions in public debt and GFN ratios.

Short-term debt relief package for Greece



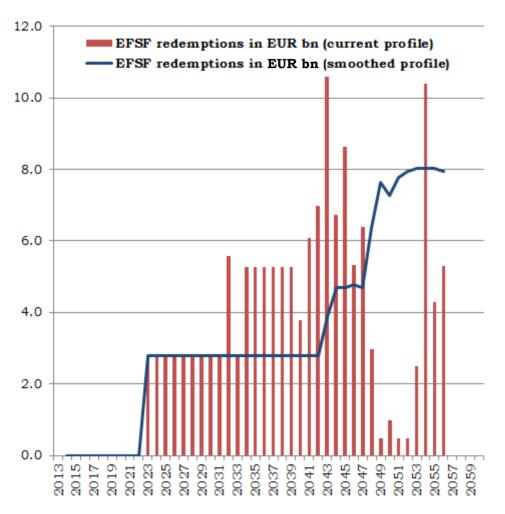


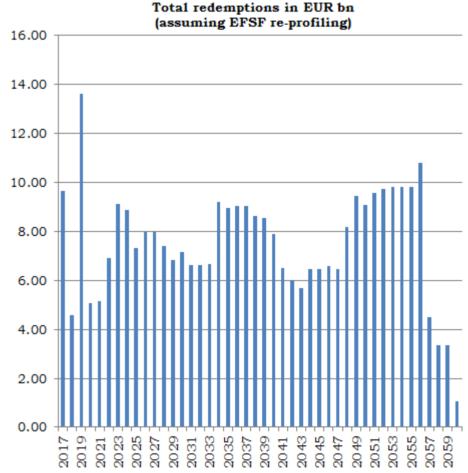
| | Table 1. Impact of short - term | relief meas | ures on Debt | -to-GDP and | l GFN - to - G | DP ratios uno | ler baseline s | scenario | | | |
|--------------|--|-------------|---------------|---------------|----------------|---------------|----------------|----------|------|------|------|
| | | C | Greece, DSA (| central scena | ario) | | | | | | |
| | | 2016 | 2017 | 2018 | 2019 | 2020 | 2022 | 2030 | 2040 | 2050 | 2060 |
| | 1. Smoothening the ESM repayment profile under the current WAM | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.4 | -1.0 | -2.4 | -3.6 |
| | 2. Use EFSF/ ESM diversified funding strategy i. BtB extension | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | -1.2 | -3.7 | -5.7 | -7.1 |
| Debt-to-GDP | ii. ESM, interest rate swap (IRS) | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | -0.4 | -2.9 | -5.1 | -6.9 |
| | iii. Split of the pool with matched funding (ESM) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.4 | -1.1 | -1.3 |
| | 3. Walver of the step-up in interest rate margin (DBB) , 2017 | 0.0 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.1 | -0.2 | -0.3 |
| | Second round effect on market rates | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | -0.1 | -0.4 | -1.0 | -1.8 | -2.6 |
| | | | | | | | | | | | |
| | 1. Smoothening the ESM repayment profile under the current WAM | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | -1.3 | -0.8 | -0.8 |
| | 2. Use EFSF/ ESM diversified funding strategy | | | | | | | | | | |
| | i. BtB extension | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.4 | -0.9 | -1.2 | -1.6 |
| GFN- to- GDP | ii. ESM, interest rate swap (IRS) | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | -0.2 | -0.7 | -1.2 | -1.5 |
| | iii. Split of the pool with matched funding (ESM) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.3 | -0.3 | -0.3 |
| | 3. Walver of the step-up in interest rate margin (DBB) , 2017 | 0.0 | -0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 |
| | Second round effect on market rates | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -0.1 | -0.1 | -0.3 | -0.4 | -0.6 |

Short-term debt relief package for Greece









ECB quantitative easing programme

Scope & modalities



European Central Bank Decision (EU) 2015/774

- ✓ For a euro area member state that is under a financial assistance program (and for which a waiver on the required credit quality threshold has been granted), eligibility for PSPP purchases should be suspended during a program review and resume only in the event of its successful completion
- ✓ The period of purchases under the PSPP is generally <u>limited to two months</u> following the successful completion of a review. That is, <u>unless there are exceptional circumstances</u> justifying a suspension of purchases before or a continuation of purchases after this period and until the start of the next review
- ✓ All other PSPP modalities as regards eligibility criteria, purchase eligibility limits and allocation of portfolios are the same for both program and non-program euro area countries
- ✓ Restrictions to be taken into account when estimating the potential size of marketable debt that can be purchased by the ECB and NCBs of the euro area:
 - o security-specific limit of 33% (notional terms)
 - o issuer-specific limit of 33% (notional terms)
 - o 1-yr ≤ eligible security tenor (remaining maturity) ≤ 30-yrs plus 364 days

Estimating the potential size of Greek debt that can be purchased by the Eurosystem

- the monthly notional amount of Greek debt that could be purchased (after Mar. 2017) should not exceed €1.57bn (=2.9055% x 90% x €60bn), or c. €2.24bn in prevailing market prices, where:
 - 2.9055% is Bank of Greece's subscription key in the ECB capital;
 - 90% is the share of PSPP purchases of securities issued by eligible central governments and recognized agencies;
 - €60 bn is the amount of combined (average) monthly purchases under PSPP
 - The maximum *cumulative* amount of Greek securities (in notional terms) that could be purchased is between €3bn and €4bn

Source: ECB, Eurobank Economic Research



Evolution of cumulative purchases of eligible Greek debt under PSPP (in EUR bn)

Maximum purchases limit could be attained over a period of at least two months

| | PSI & post- PSI bonds (eligible oustanding) | enterprises (eligible | SMP bonds (eligible oustanding) | ANFA bonds (eligible outstanding) | Total eligible | of which, ECB & NCB holdings | % owned by ECB & EA NCBs | Remaining to reach 33% issuer limit | Eurosystem purchases |
|--------|--|--------------------------|---------------------------------------|---|-------------------|---------------------------------------|--------------------------------|--|----------------------|
| Apr-17 | 34.9 | 0.0 | 9.6 | 3.2 | 47.7 | 12.81 | 26.8% | 6.2% | 2.9 |
| May-17 | 34.9 | 0.0 | 9.6 | 3.2 | 47.7 | 12.81 | 26.8% | 6.2% | 2.9 |
| Jun-17 | 34.9 | 0.0 | 9.6 | 3.2 | 47.7 | 12.81 | 26.8% | 6.2% | 2.9 |
| Jul-17 | 34.9 | 0.0 | 9.6 | 3.2 | 47.7 | 12.81 | 26.8% | 6.2% | 2.9 |
| Aug-17 | 34.9 | 0.0 | 8.4 | 2.6 | 45.9 | 10.95 | 23.9% | 9.1% | 4.2 |
| Sep-17 | 34.9 | 0.0 | 8.4 | 2.6 | 45.9 | 10.95 | 23.9% | 9.1% | 4.2 |
| Oct-17 | 34.9 | 0.0 | 8.4 | 2.6 | 45.9 | 10.95 | 23.9% | 9.1% | 4.2 |
| Nov-17 | 34.9 | 0.0 | 8.4 | 2.6 | 45.9 | 10.95 | 23.9% | 9.1% | 4.2 |
| Dec-17 | 34.9 | 0.0 | 8.4 | 2.6 | 45.9 | 10.95 | 23.9% | 9.1% | 4.2 |



Appendix

Eurogroup of 15 June 2017

Main elements of the agreement on Greece

Eurogroup of 15 June 2017

Main elements of agreement on Greece



Positive assessment on 2^{nd} review conditionality

Political agreement for release of next ESM loan disbursement (€8.5bn);

- > € 7.7bn (€ 6.9 for debt servicing + € 0.8 for arrears) in early July
- > € 0.8bn for clearing arrears (after summer)

Clarification of fiscal trajectory

Medium-term primary surplus target

- > 2018 2022: 3.5%-of-GDP per annum
- > 2023 2060: equal or higher than (but close to) 2.0%-of-GDP

More clarity on existing medium & long-term debt relief framework

Medium-term framework ("to the extent needed")

- > Consideration of further targeted EFSF loans re-profiling (maturity & extension of principal & interest payments, both up to 15 years);
- > EFSF re-profiling recalibration to be based on operational growth-adjustment mechanism

Long-term framework

> Conditional activation of additional contingency mechanism

Explicit commitment to support Greece's return to financial markets

Future disbursements to also cater for building up cash buffers on top of debt repayments & arrears clearance

Tentative agreement with the IMF

IMF management to recommend to the IMF's Executive Board an Agreement-in-Principle for Standby Arrangement; financial participation subject to more clarity on debt relief measures

Growth enhancing investment initiatives

Mobilization for full absorption of remaining 2017-2020 EU Funds & possible additional EIB/EBRD funds; creation of National Development Bank

June 15 Eurogroup: Conclusion of Greece's 2nd programme review

Main differentiations with prior Eurogroup agreements



| | June 15, 2017 Eurogroup | Previous Eurogroup meetings | | | |
|------------------------------------|--|--|--|--|--|
| Fiscal trajectory | Primary surplus of 3.5%-of-GDP from 2019 to 2022 & equal to or higher than (but close to) 2%-of-GDP from 2023 onwards | Primary surplus of 3.5%-of-GDP until 2028; gradual convergence thereafter to 1.5% of GDP by 2040 | | | |
| | Eurogroup stands ready to implement medium-term debt relief measures "to the extend needed" to meet the GFN objectives | Eurogroop stands ready to consider, " <i>if necessary</i> ", possible additional debt relief measures, aiming at ensuing that Greece's GFN remain at a sutsainable level | | | |
| Medium-term debt relief framework | Eurogroup stands ready to implement, extensions of the weighed average maturities and a further deferral of EFSF interest & amortization payments by between 0 and 15 years | some targeted EFSF re-profiling <i>to the extent needed</i> to keep GFN under the agreed benchmark | | | |
| | In order to take into account possible differences between growth assumptions in the DSA and actual growth developments over the post-programme period, the EFSF reprofiling would be recalibrated according to an <i>operational growth-adjustment mechanism</i> | X | | | |
| Long-term debt relief framework | In the case of an unexpectedly more adverse scenario, a contigency mechansim on debt could be activated entailing measures such as a further EFSF re-profiling and capping and deferall of interest payments | The Eurogroup is confident that the implementation of the agreement on the main features for debt measures, together with a successful implementation of the Greek ESM programme and the fulfilment of the primary surplus targets, will bring Greece's public debt back on a sustainable path over the medium to long run | | | |
| Return to financial markets | The Eurogroup <i>commits</i> to provide support for Greece's return to the market through future disbursements that will cater not only for the need to clear arrears but also to further build up cash buffers to support investors' confidence and facilitate market access. | and will faciliate a gradual return to market financing | | | |

Source: EG 15 June 2017, Eurobank Economic Research



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