

Comment on the lecture

Suvi Kangasrääsiö

Senior Economist

Fiscal policy monitoring function

Independent fiscal institution

National Audit Office of Finland

Suvi.kangasraasio@vtv.fi

The views expressed in this presentation are those of the author's and do not necessarily represent the views of the NAOF, its IFI function, or management.



Debt accumulation equation

$$\Delta d_t = \frac{r_t - g_t}{1 + g_t} d_{t-1} - p_t + sfa_t$$

Where

d = debt

r = nominal interest expenditures

g = nominal GDP growth rate

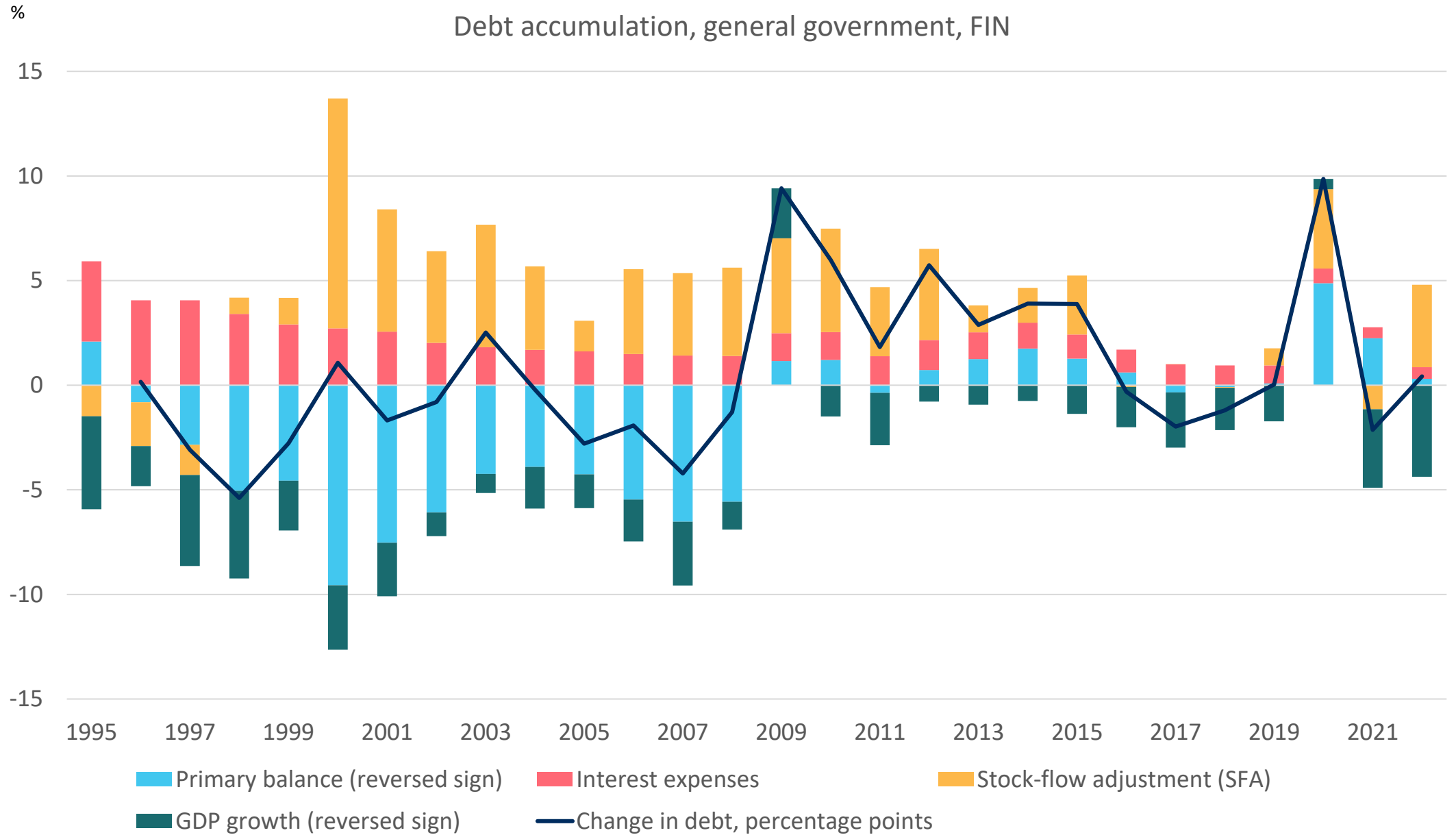
p = primary balance

sfa = stock flow adjustment

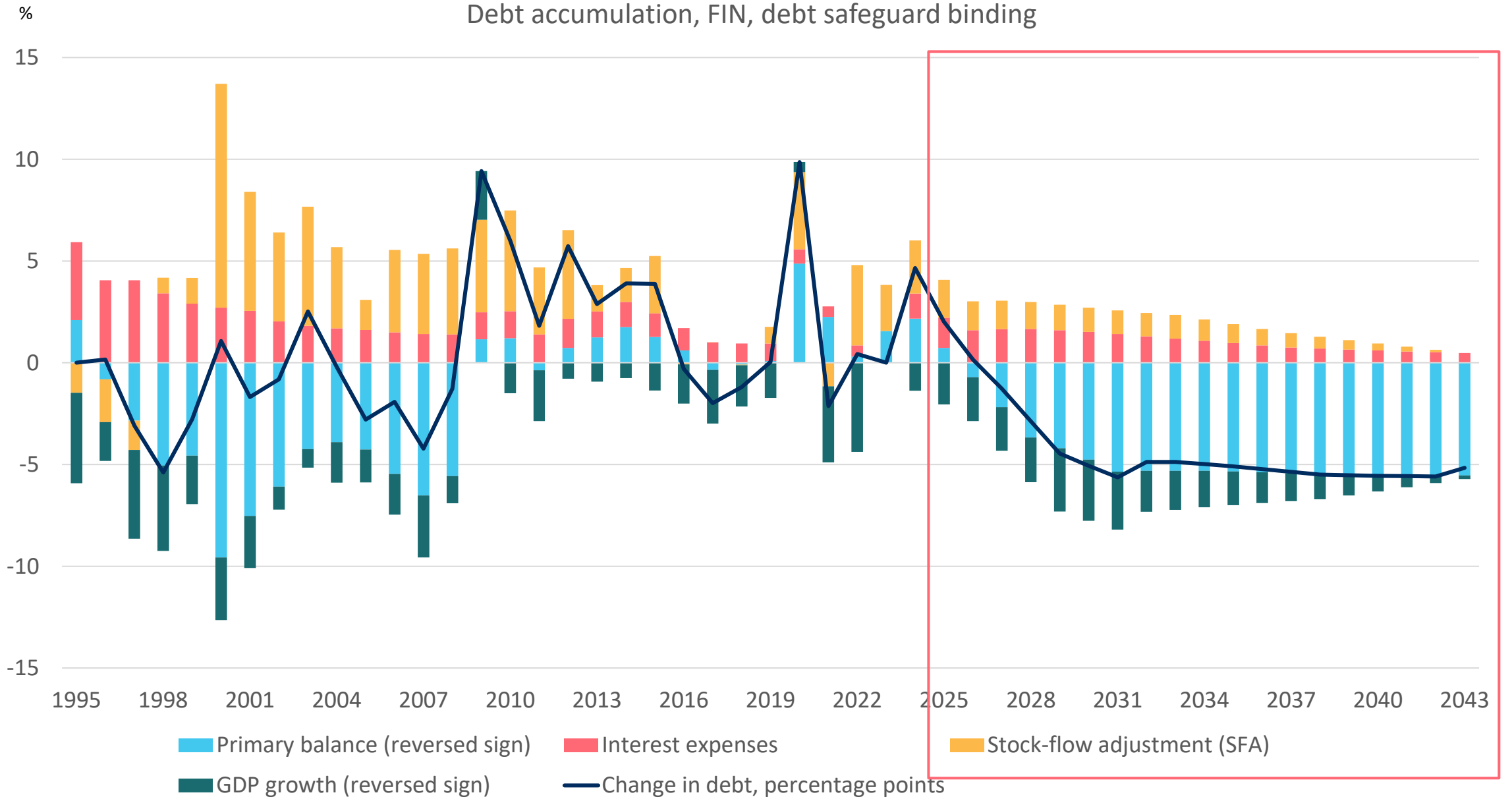
All terms are divided by nominal GDP.

The equation can be expressed likewise in real terms.

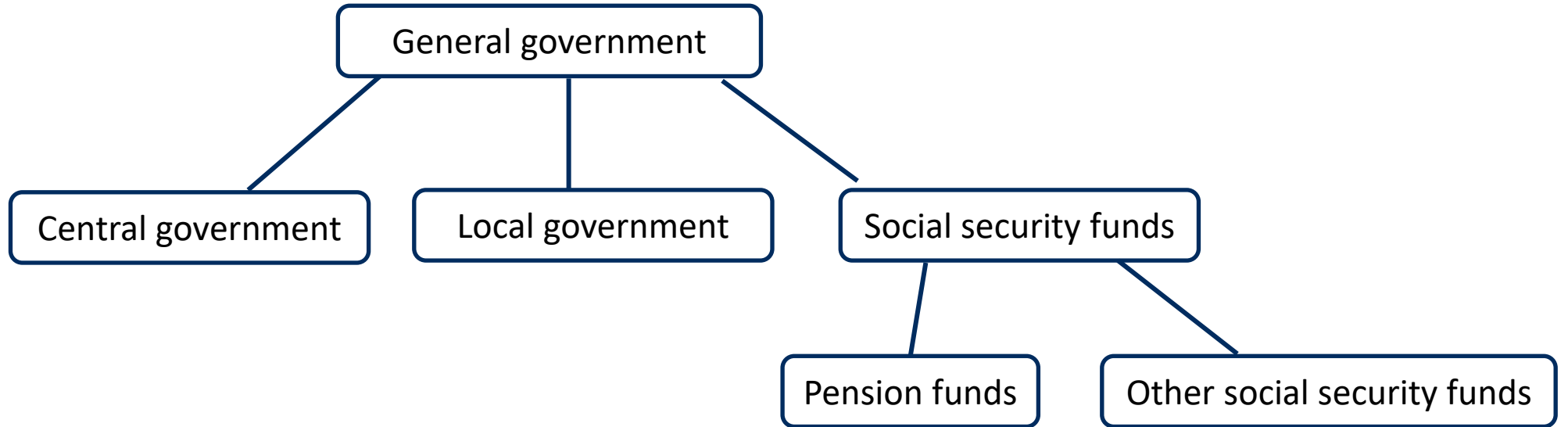
Debt accumulation, general government, FIN



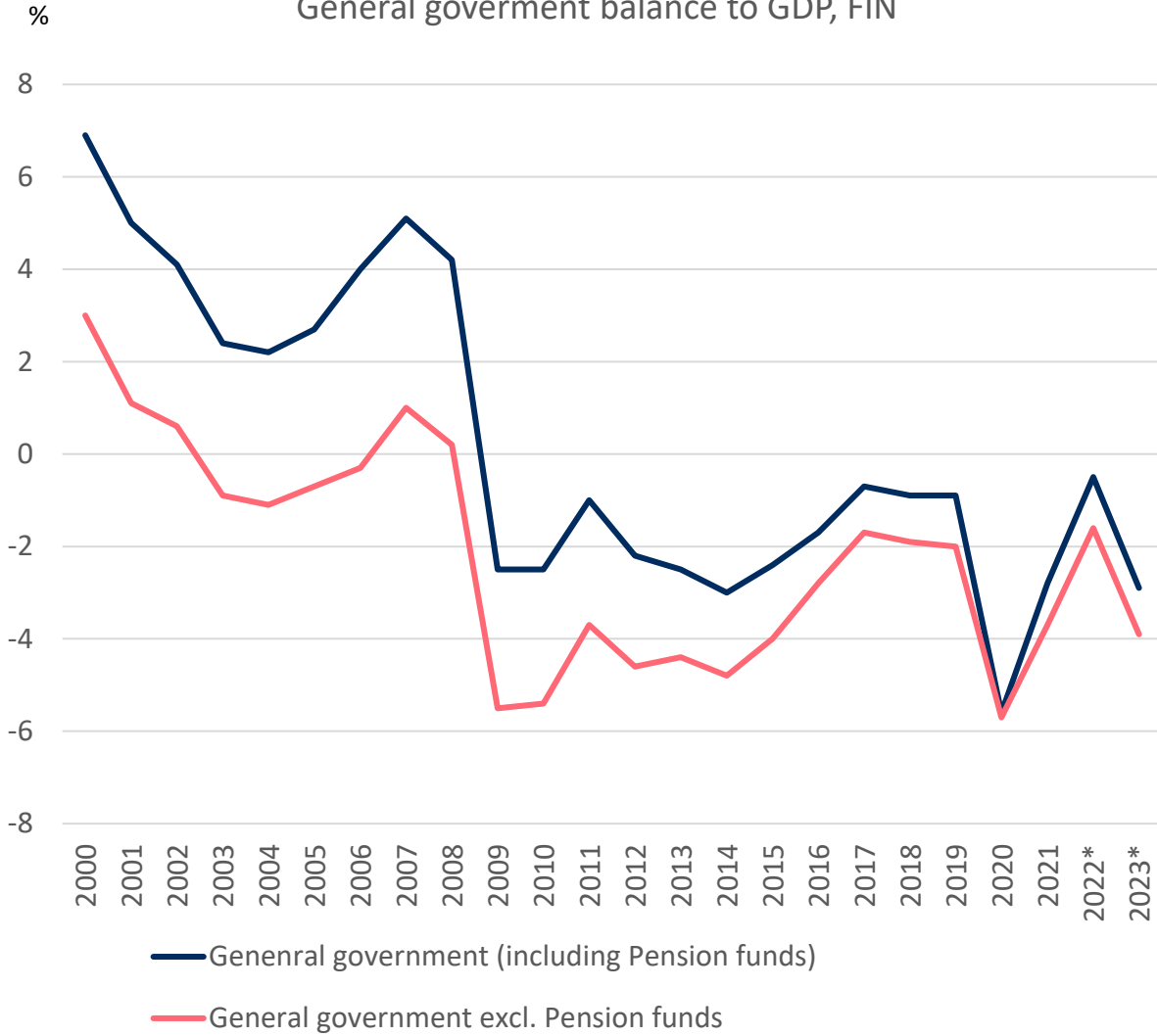
Debt accumulation, FIN, debt safeguard binding



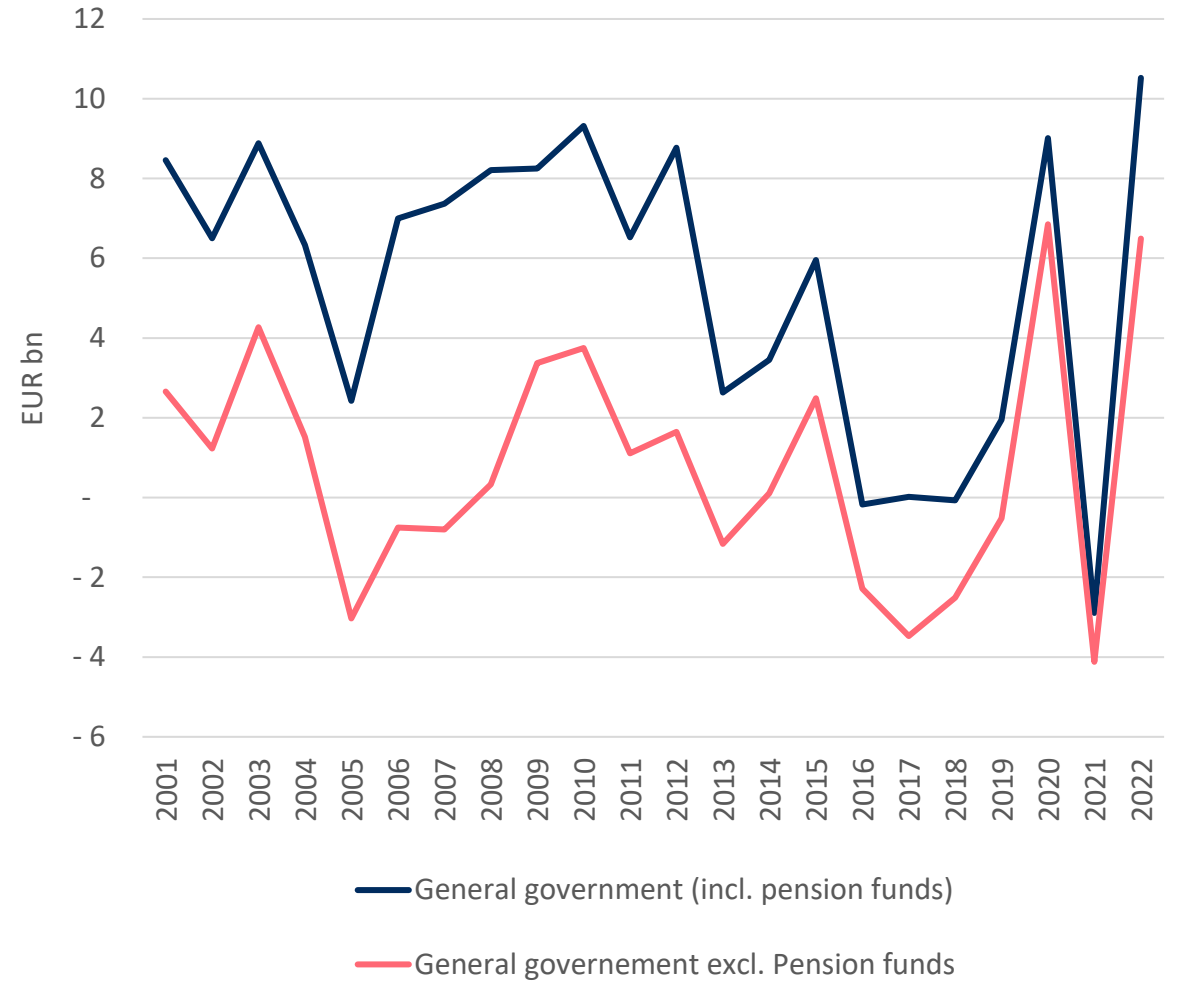
Source: Ameco online, Darvas et al. (2024) and own calculations. General government (S13). Nominal terms.



General government balance to GDP, FIN



Stock flow adjustment (SFA), Finnish general government



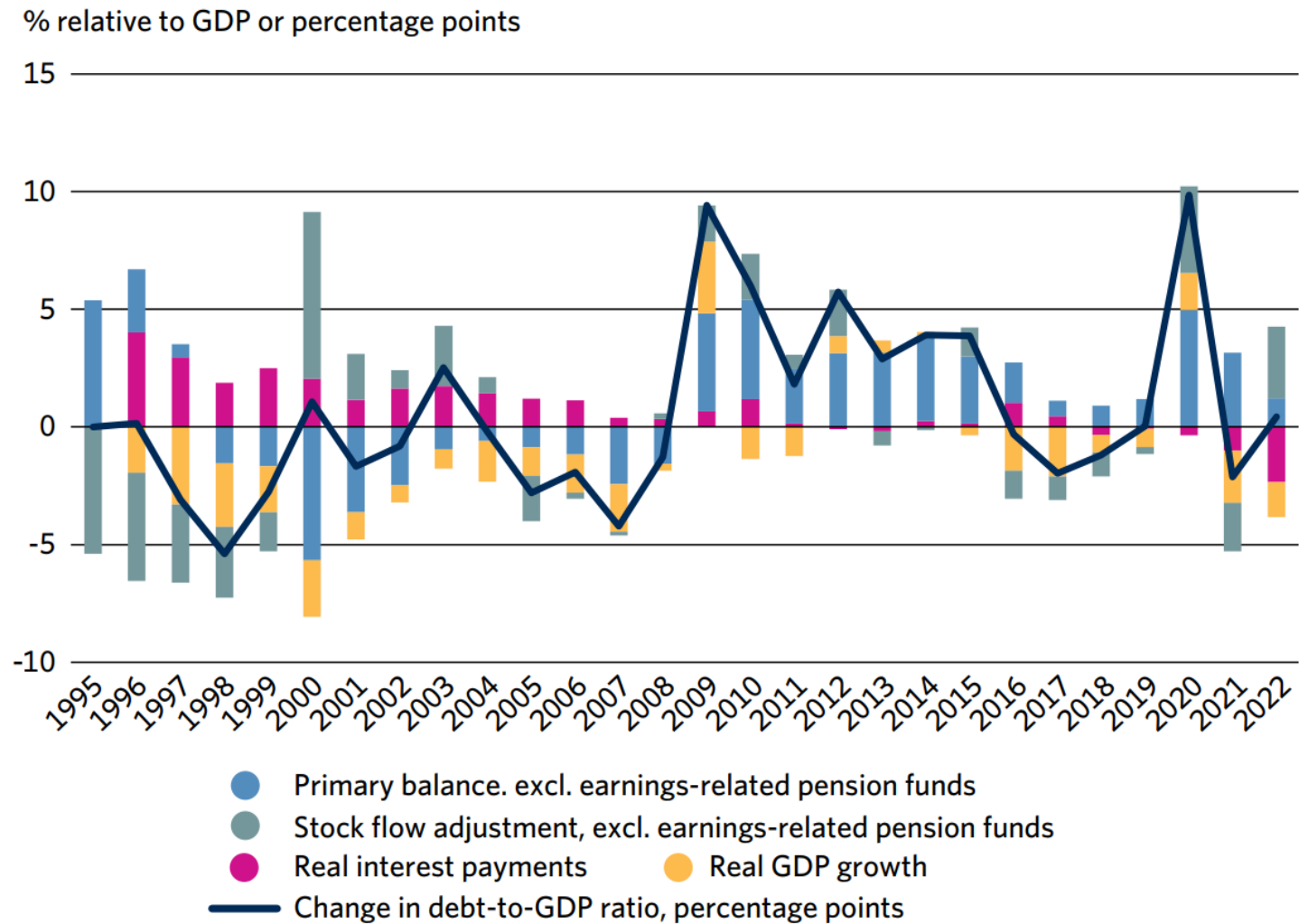
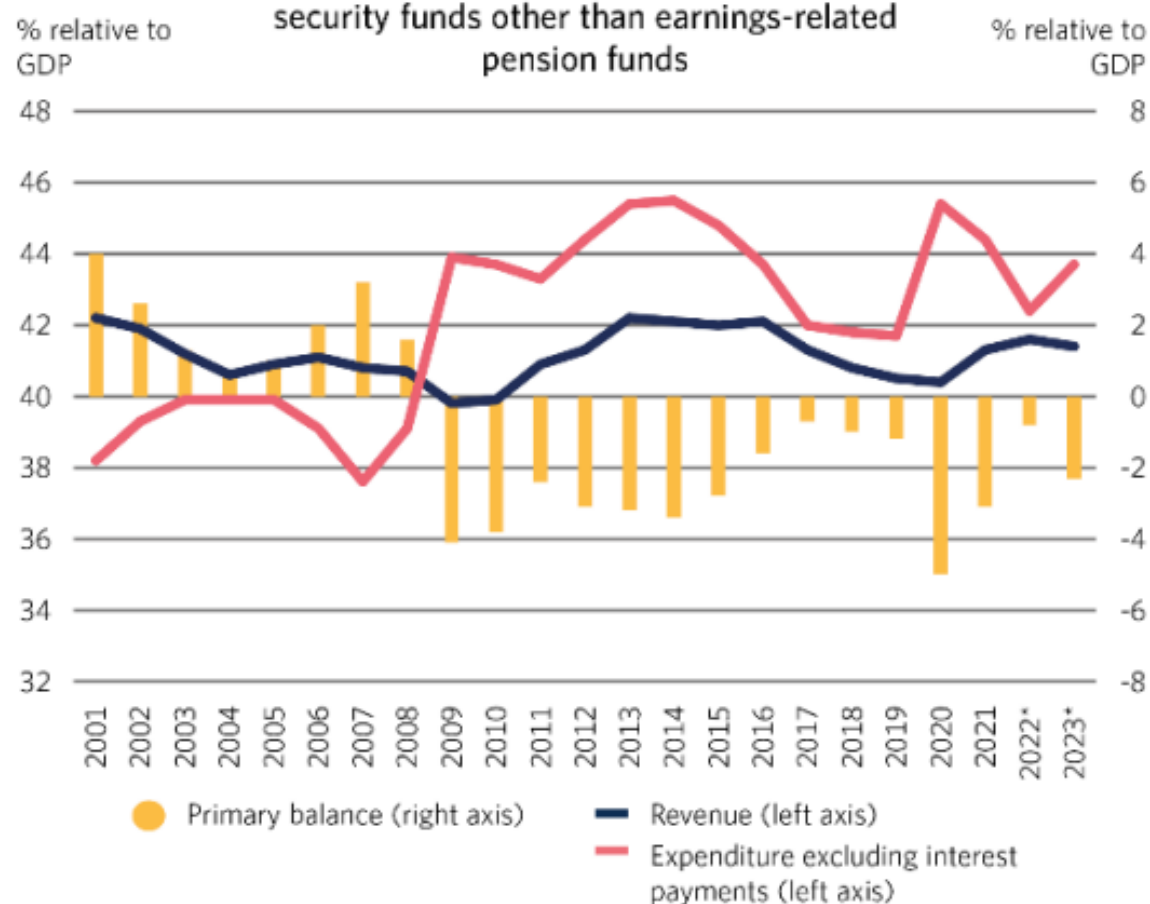
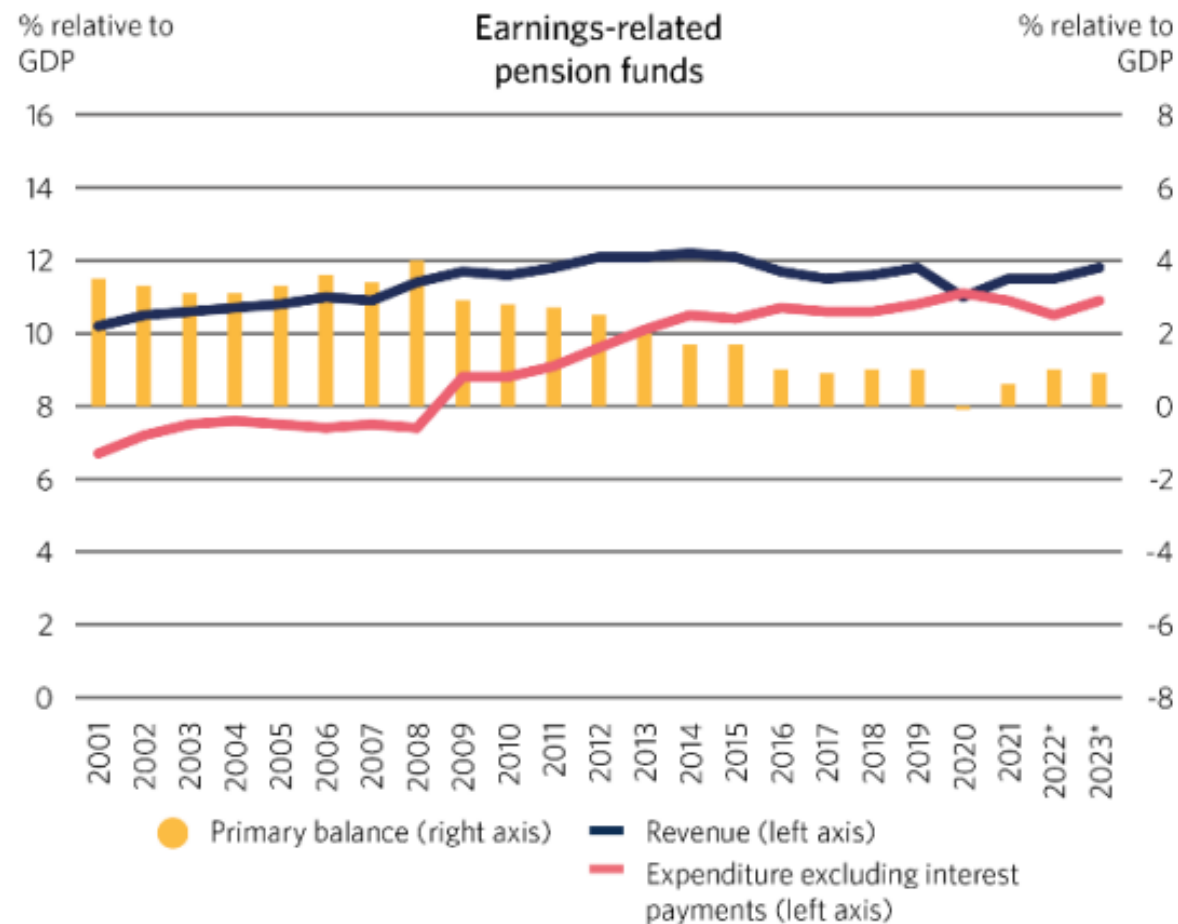


Figure 7: Factors affecting the development of the debt ratio in the general government (excluding earnings-related pension funds), presented in accordance with equation (2). Sources: European Commission (2023a), Eurostat (2023), Statistics Finland (2023c), fiscal policy monitoring function.

Central government, local government, social security funds other than earnings-related pension funds



Earnings-related pension funds



- Stock-flow adjustment is non-zero also in many other countries
- See our autumn report: ([Separate report R 21/2023 vp: Fiscal policy monitoring report 2023](#))

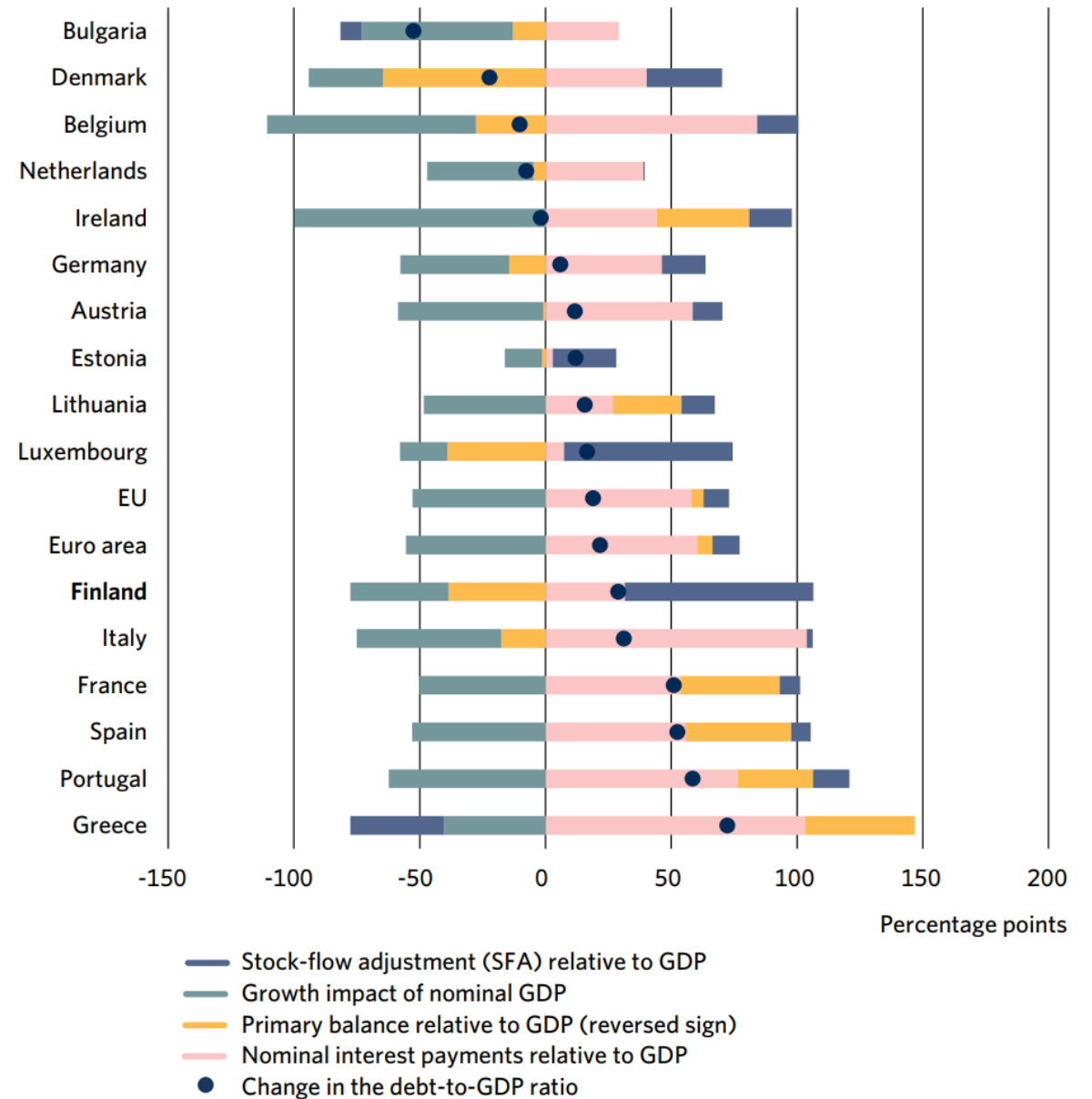
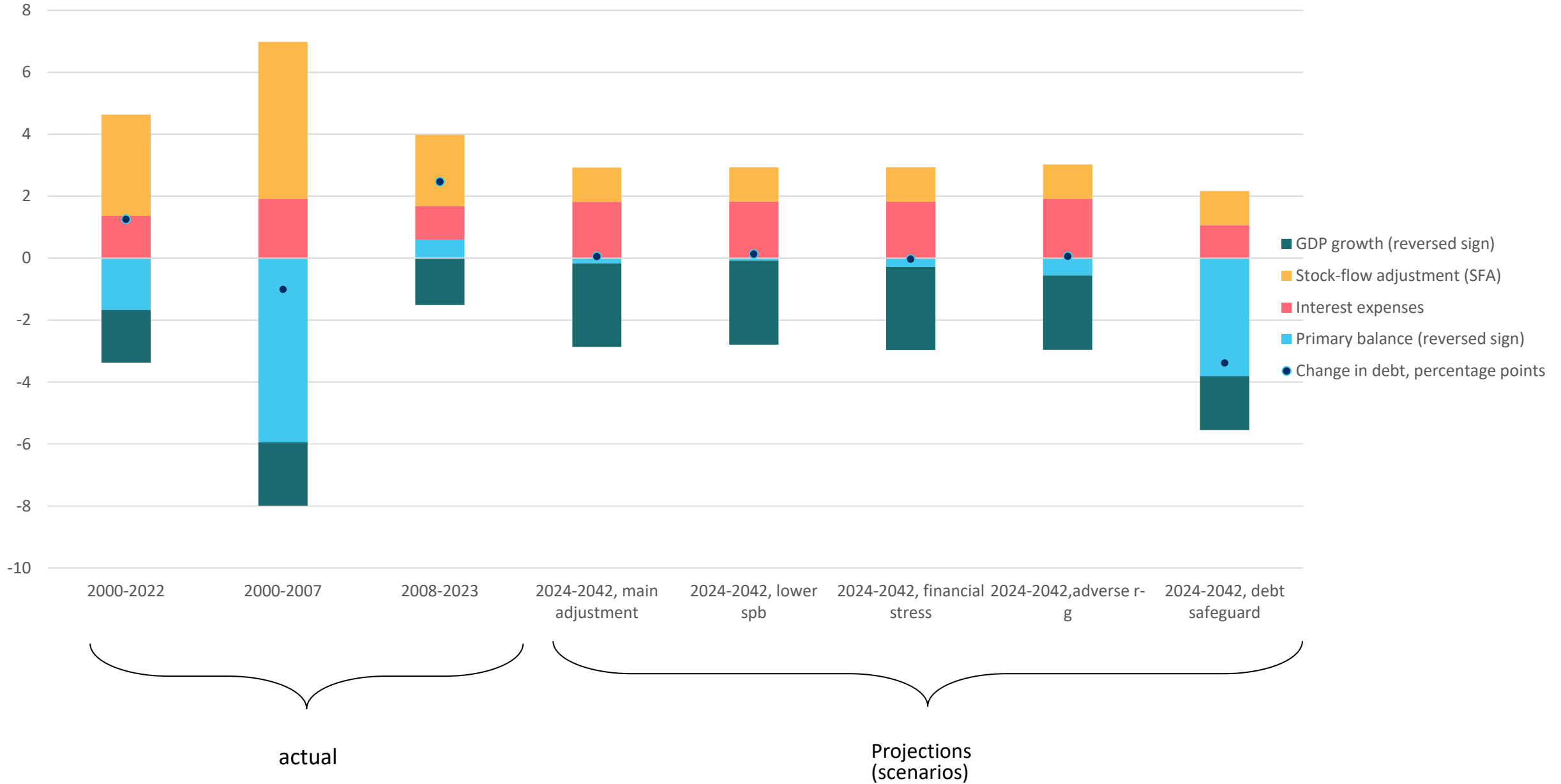


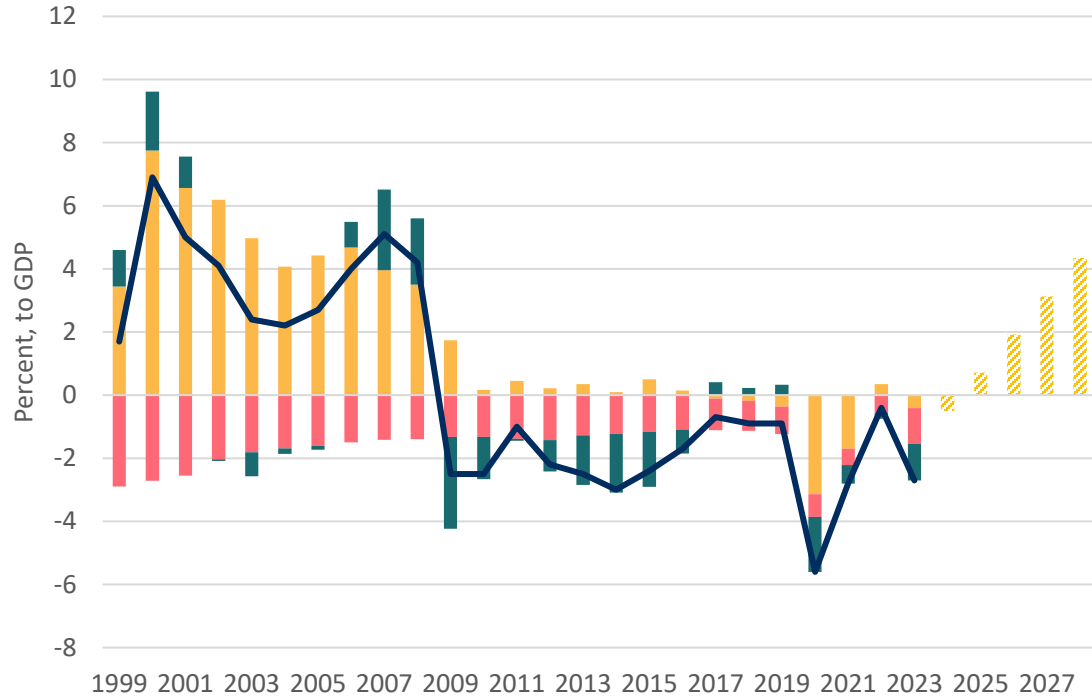
Figure 5: The change in the debt-to-GDP ratio in certain EU Member States between 2000 and 2022. Source: Eurostat (2023), European Commission (2023a), calculations by the fiscal policy monitoring function.

Finland, Average contribution to debt accumulation per year



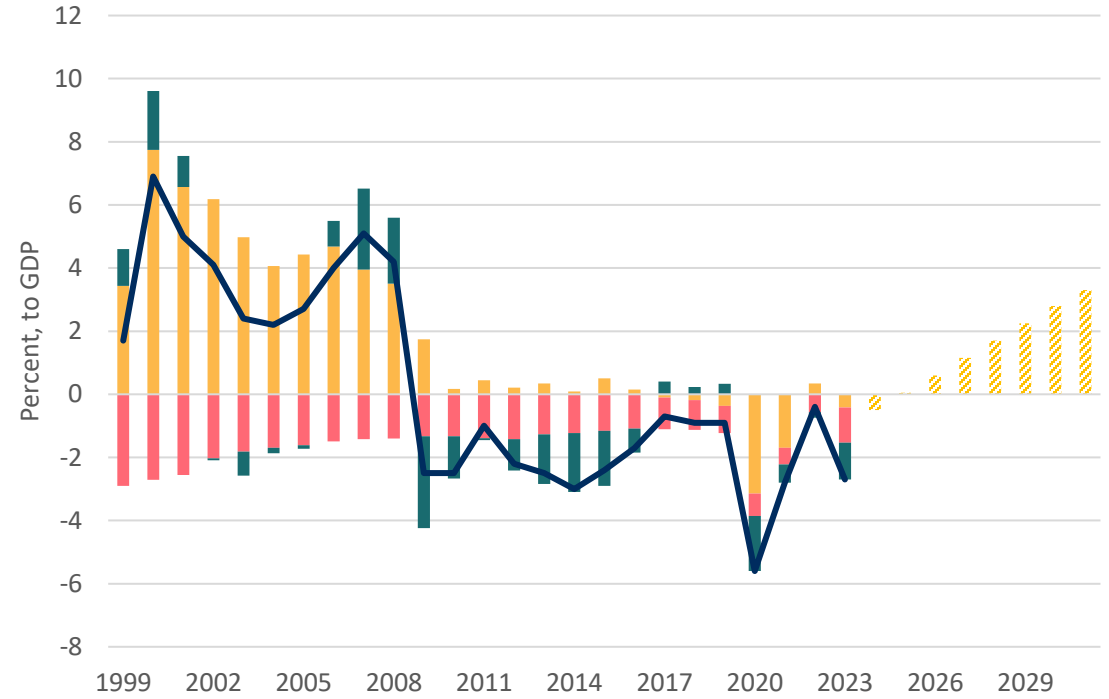
Scale of the adjustment for Finland (Darvas et al., 2024)

Finland, general government balance to GDP,
4 year adjustment



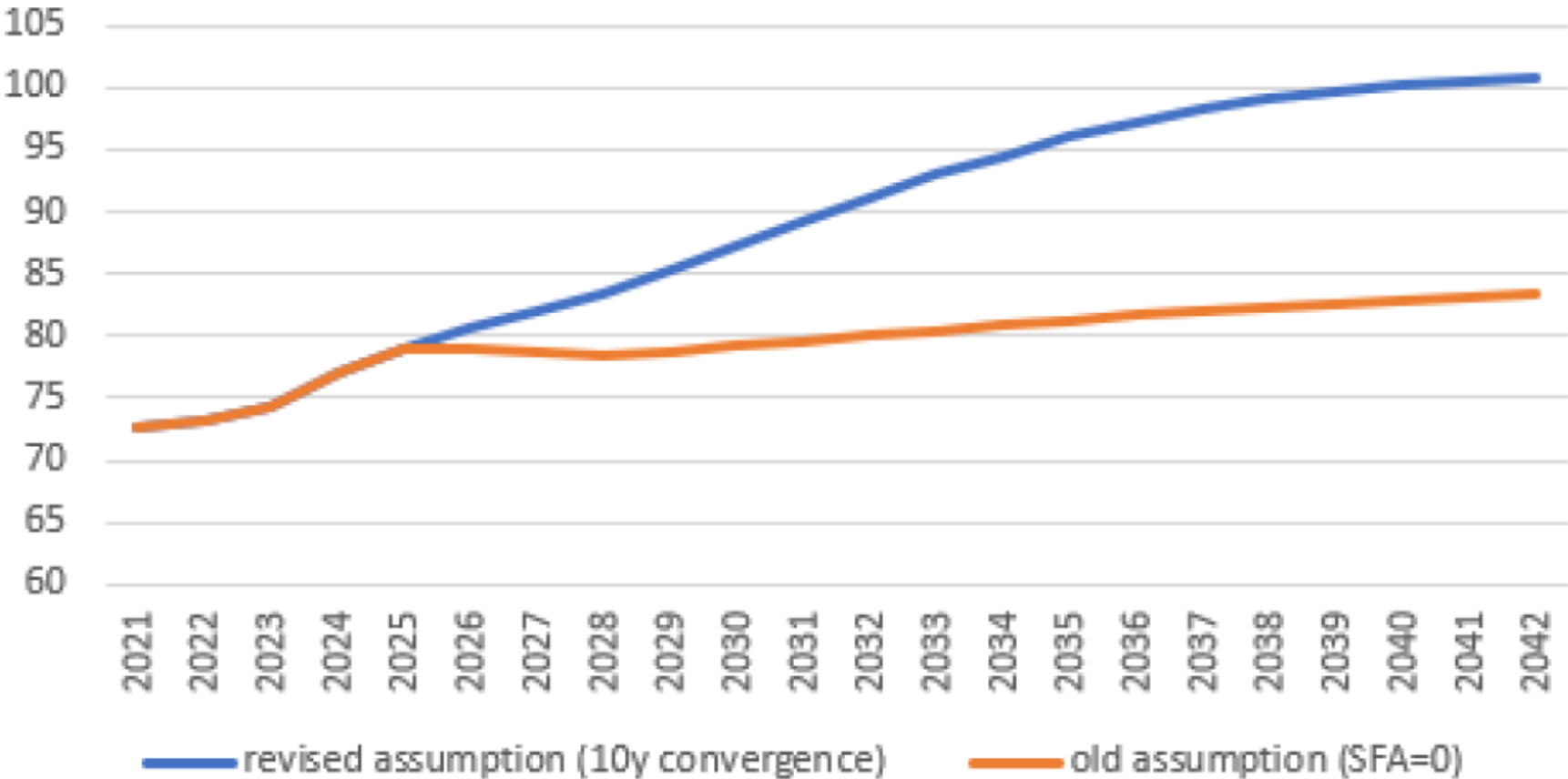
- ▨ SPB, Darvas (2024), 4 year adjustment
- Business cycle component of primary balance
- Interest expenditures (reversed sign)
- Structural component of Primary balance (SPB)
- Nominal balance

Finland, general government balance to GDP,
7 year adjustment



- ▨ SPB, Darvas (2024), 7 year adjustment
- Business cycle component of primary balance
- Interest expenditures (reversed sign)
- Structural component of Primary balance (SPB)
- Nominal balance

Debt projection (% of GDP) - Finland



Source: European Commission (2024). Debt Sustainability Monitor. Institutional Paper 271.

Thank



You!