# Al-01549 Retirement and Social Security Sustainability

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: Tags	Investing
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### Calculate the sustainability amount of the following:

#### Age 58

Social Security \$4000/month

**Operating Cost \$6000/month** 

Current cash invested in ETF Index Fund \$150000 at ROI of 12%

401K \$1500000

401K ROI 12%

Withdrawal Rate from 401K \$7000/month

Reinvest remaining surplus back to ETF Index at 12% ROI

Let's break down this financial calculation step-by-step.

# 1. Calculate Monthly Income from 401k:

• 401k Balance: \$1,500,000

• Annual ROI: 12%

Annual Income: \$1,500,000 \* 0.12 = \$180,000

• Monthly Income: \$180,000 / 12 = \$15,000

# 2. Calculate Monthly Surplus from 401k:

• Monthly Income: \$15,000

• Monthly Withdrawal: \$7,000

• Monthly Surplus: \$15,000 - \$7,000 = \$8,000

# 3. Calculate Monthly Income from ETF:

• ETF Investment: \$150,000

• Annual ROI: 12%

Annual Income: \$150,000 \* 0.12 = \$18,000

• Monthly Income: \$18,000 / 12 = \$1,500

#### 4. Calculate Total Monthly Income:

Social Security: \$4,000

• 401k Monthly Income: \$15,000

• ETF Monthly Income: \$1,500

• Total Monthly Income: \$4,000 + \$15,000 + \$1,500 = \$20,500

## 5. Calculate Monthly Deficit/Surplus:

• Operating Costs: \$6,000

• Total Monthly Income: \$20,500

• Monthly Surplus: \$20,500 - \$6,000 = \$14,500

### 6. Calculate Sustainability Amount:

Because there is a monthly surplus of \$14,500, the sustainability amount will be a negative number, meaning that there is no deficit to cover. Instead, there is extra money.

• Monthly Surplus: \$14,500

• Annual Surplus: \$14,500 \* 12 = \$174,000

Over 25 years: \$174,000 \* 25 = \$4,350,000 Results:

• Monthly Surplus: \$14,500

• Sustainability Amount: -\$4,350,000. This number being negative represents that there is a surplus, not a deficit.

Conclusion:

Based on the provided figures, there is a significant monthly surplus.

Therefore, there is no sustainability amount needed to cover a deficit. Instead, there is a large surplus.