

The Segmented World Book Series Model

2000 to 2050

Graphs and commentary

Introduction

Figure 1 shows how the *Segmented World Book Series* tracks across the GC-FI Matrix, first, toward the Lite Segmented but then, in the late thirties, backtracking toward the darker, Fully Segmented World. The same track is also shown on the 'real' Segmented World version of the matrix.

This history of the Book Series is recorded in the graphs of the 26 parameters. Each graph contains three components:

- the past 20 years of the particular parameter
- the Emergent World outcome
- the composite Segmented World Book Series outcome.

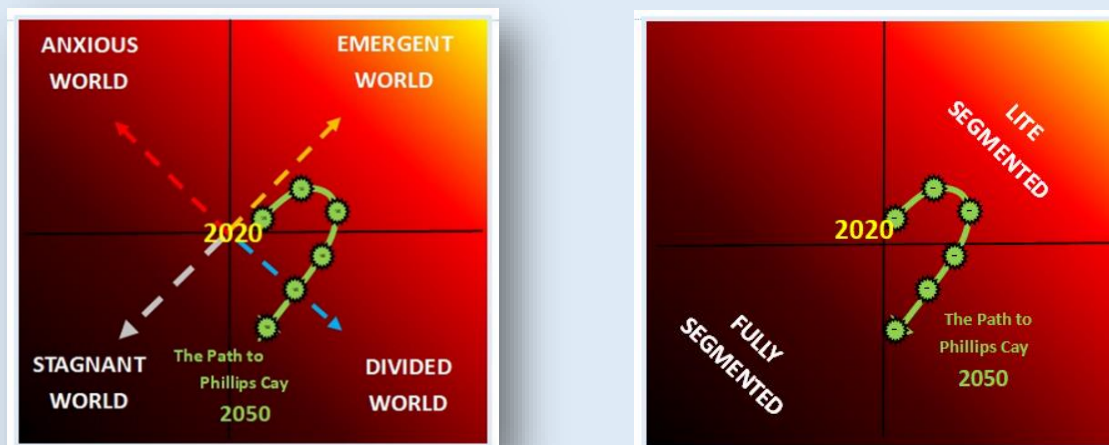
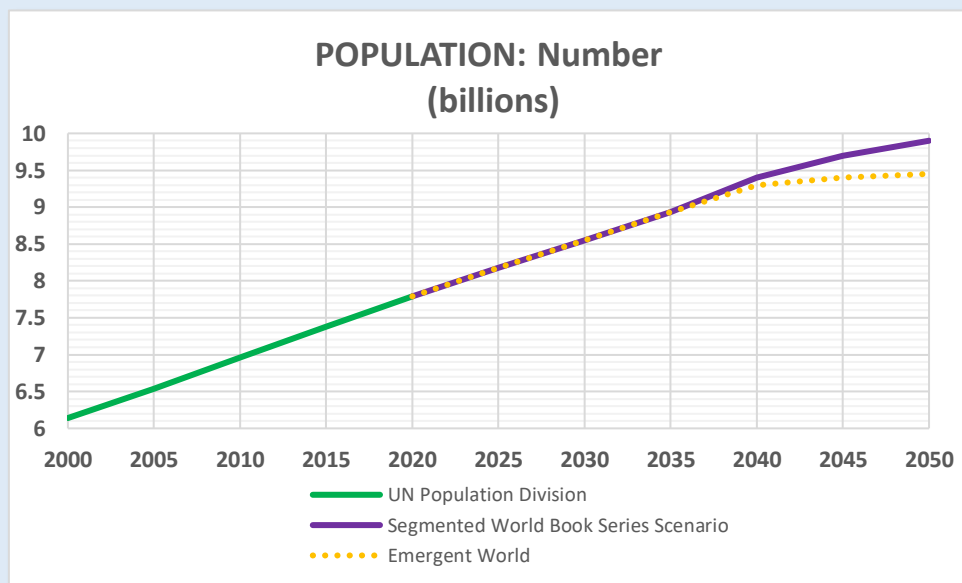


Figure 1: Present Day and the track of the fictional segmented world

POPULATION

Numbers

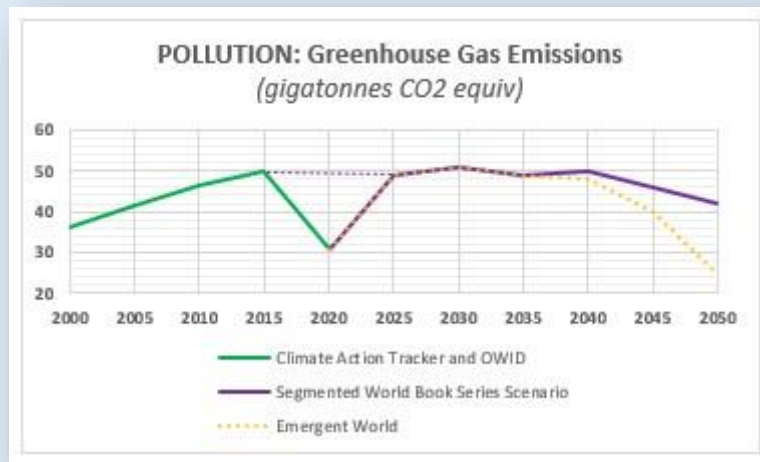


Explanation

The UN Population mid-Variant prediction of 9.74bn by 2050 is slightly exceeded in the Book scenario. As social conditions deteriorate through the 30's and funding from multilateral programmes falls away, impoverishment increases invoking the traditional response of rising child birth.

POLLUTION

Greenhouse Gas Emissions

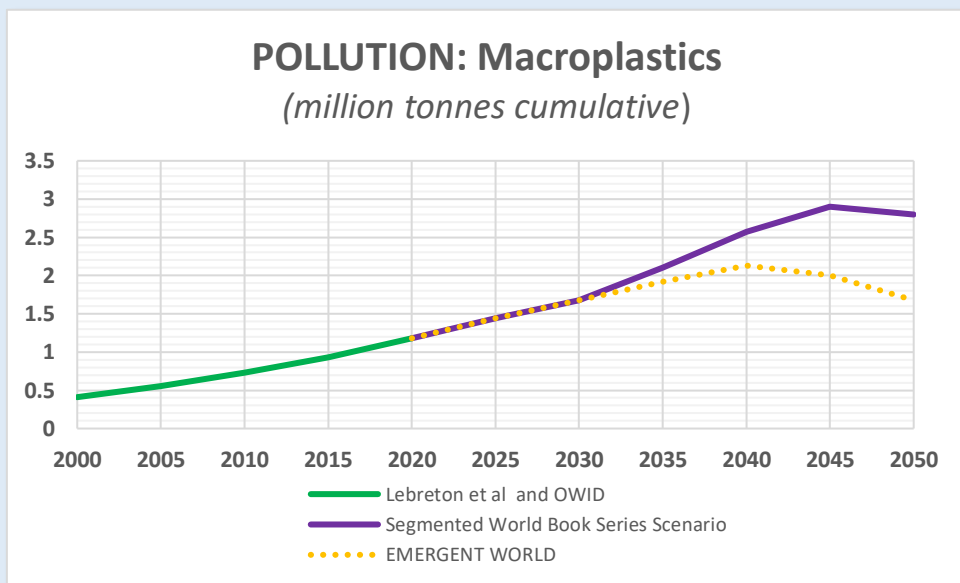


Explanation

By 2025 GHGE have returned to pre-Covid levels but plateau for the next 15 years and then fall away as a combination of fossil fuel depletion and replacement technologies kick in. In the Emergent World this decline is global, but in the Divided is restricted to the Powerblocks, giving a 2.5° world

POLLUTION

Macroplastics

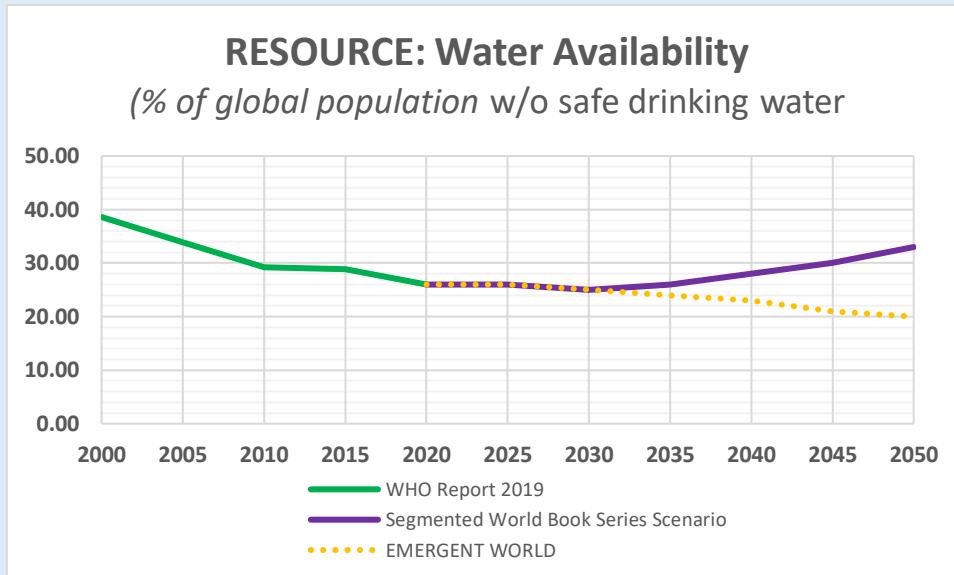


Explanation

A globally organised world controls pollution. In 2035 as economic conditions worsen adherence to global rules begin to fade, the progress of the past twenty years begins to be lost. The world outside the Powerblocks becomes their rubbish heap.

RESOURCE (Inanimate)

Water Availability

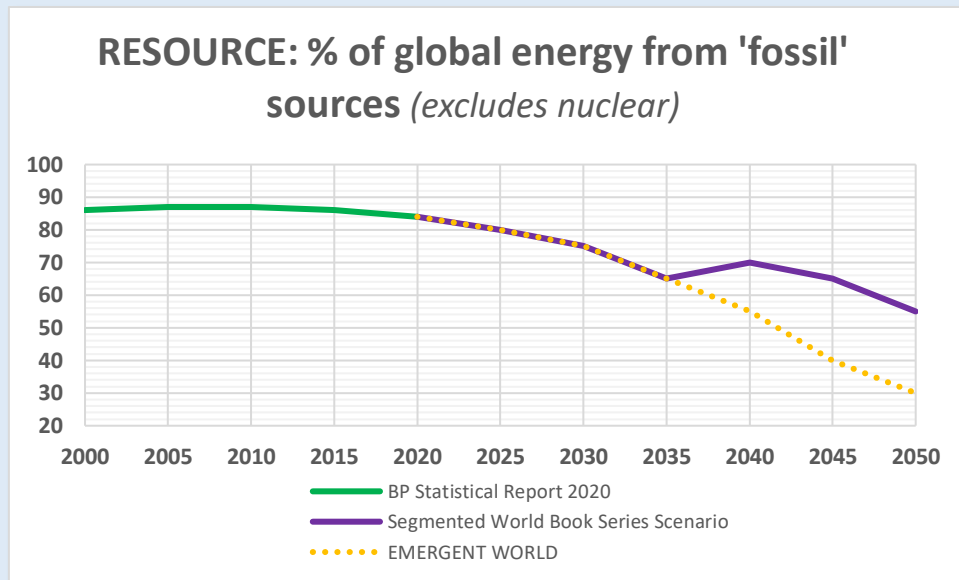


Explanation

A large percentage of the additional global population after 2020 add to the numbers without a secure source of drinking water. The problems are overwhelmingly confined to Low Utility StaticLands suffering climate-change induced drought conditions and conflict

RESOURCE (Inanimate)

Fossil Fuels as % of total energy consumption

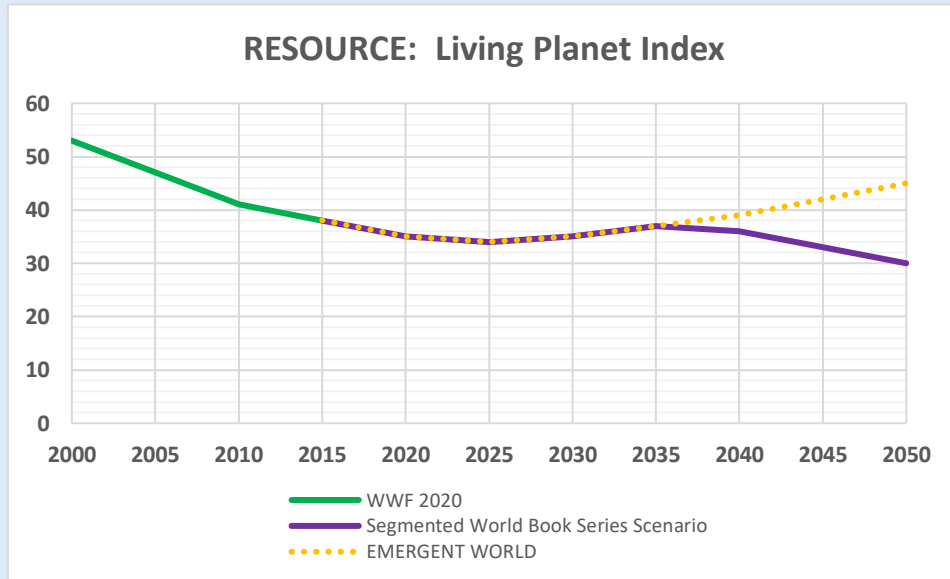


Explanation

The use of fossil fuels as an energy source decreased from 94% in 1970 to 84% in 2020 - 0.2% a year. Over the next thirty years the rate of decrease depended on the degree of Focused Innovation (non-fossil sources); economic conditions and the scale of the rollout of new technologies. In the Fifth Decade the 'absolute depletion' of commercially viable fossil fuels becomes another factor reducing the use of fossil fuels.

RESOURCE (Animate)

Living Planet Index

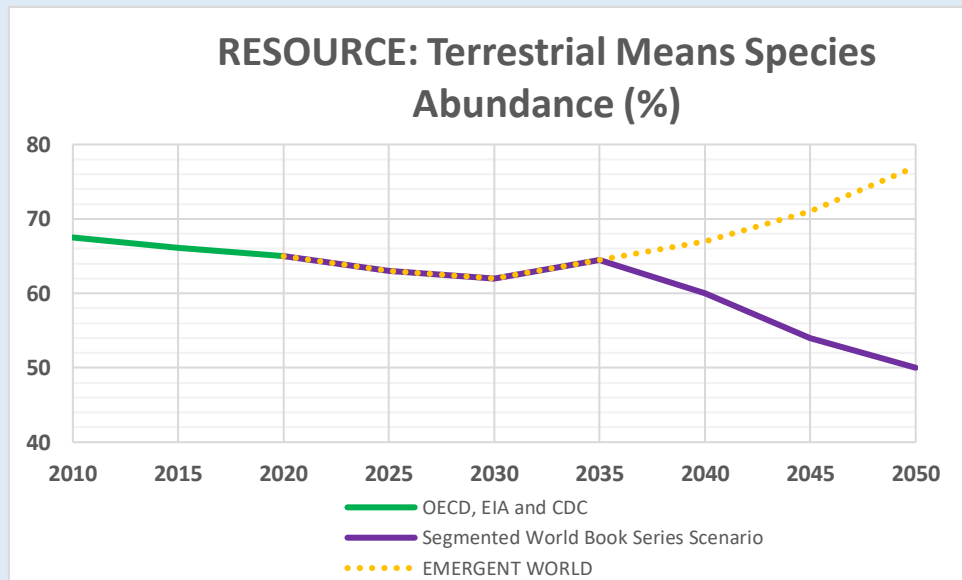


Explanation

The polarisation of global society into Powerblocks and StaticLands corresponds geographically to a northern- southern hemisphere split with tropical areas containing the highest biodiversity lying mainly in the exploited southern areas. After global cooperation begins to breakdown in the mid-Thirties, subsidies and foreign aid to support sustainable management of the biosphere, begins to crumble- not as fast as the pure Divided World, but sufficient within ten years to undo all the positive benefits of the accrued in the 2020's

RESOURCE (Animate)

Terrestrial Mean Species Index (%)

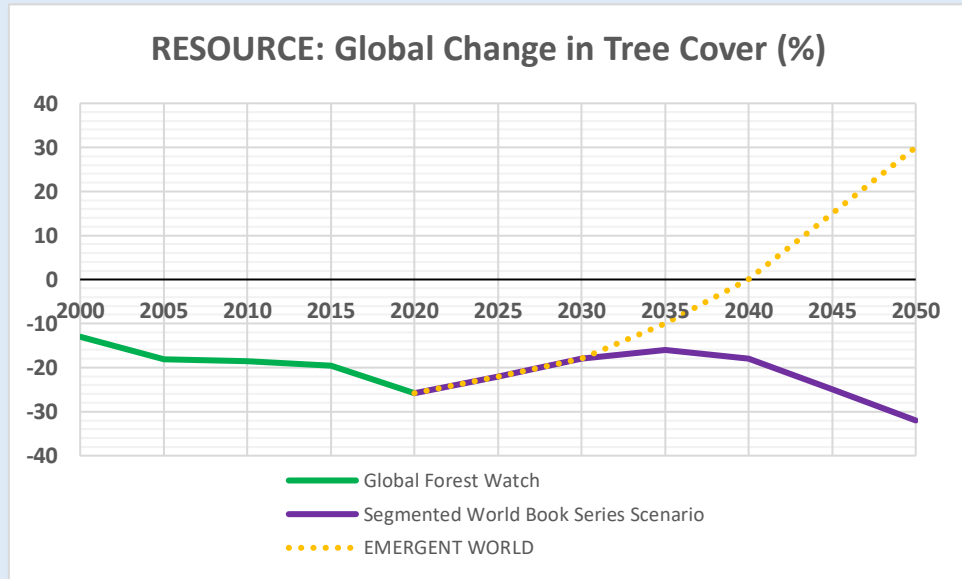


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RESOURCE (Animate)

Global Tree Change

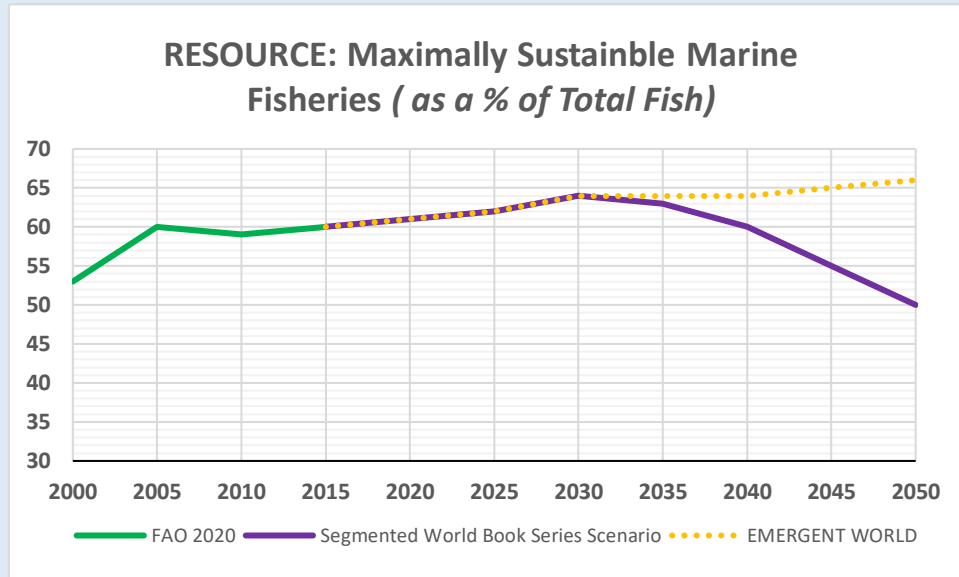


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RESOURCE (Animate)

Sustainable Marine Fisheries

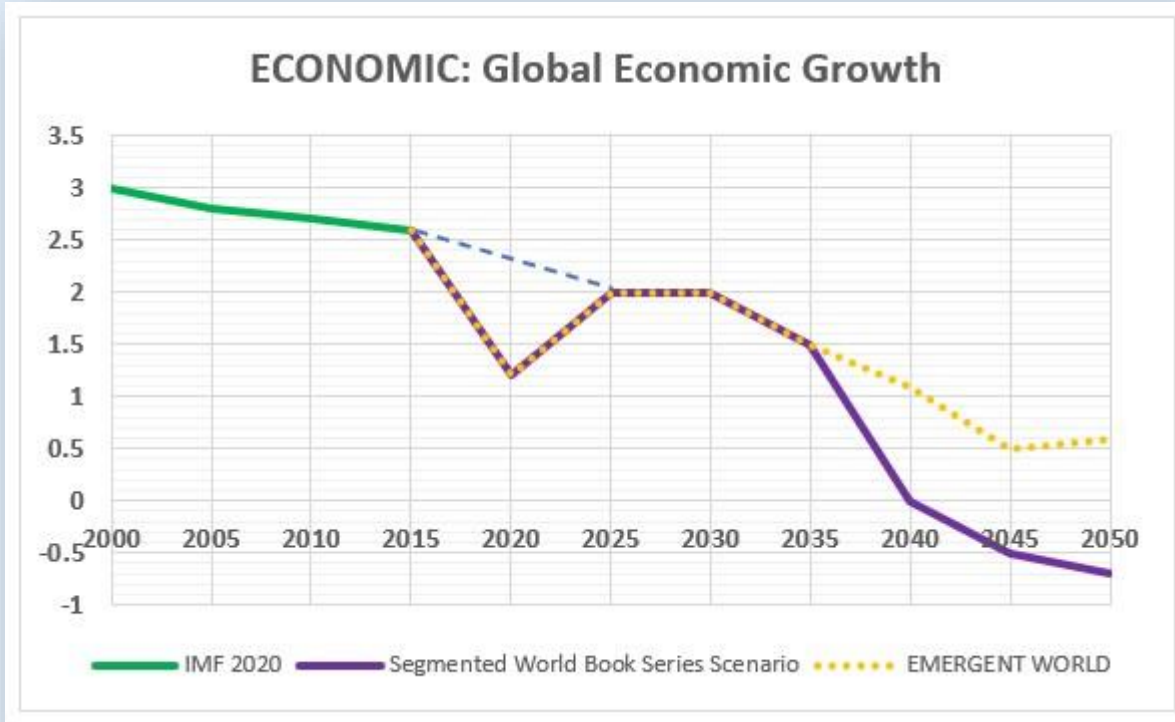


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ECONOMIC

Economic Growth

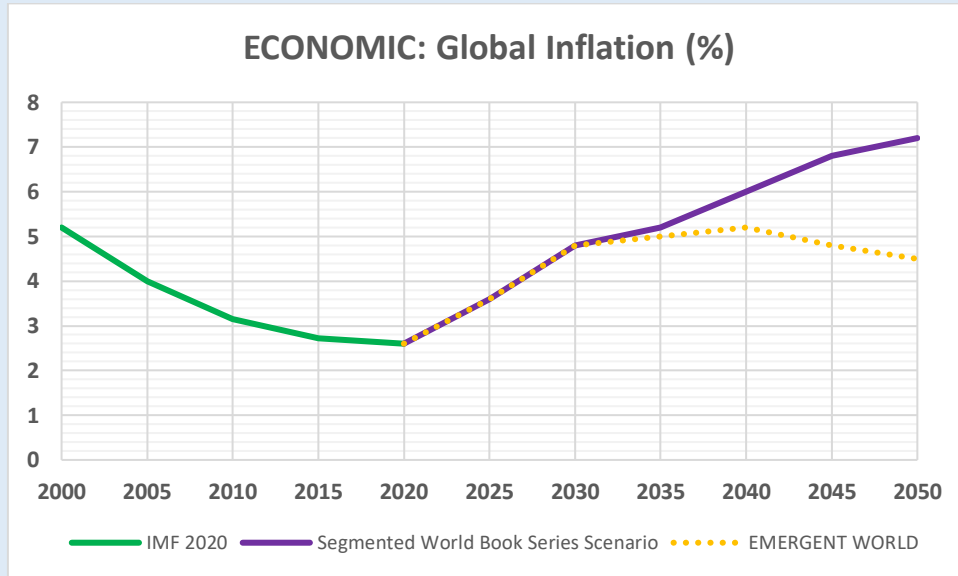


Explanation

The slow decline in global economic growth seen in the 2nd Decade continues but then accelerates driven, among other things by the raw material crisis and the soaring cost of borrowing. As the negative impact of the Global Drivers combine in the '40's world economic growth turns negative.

ECONOMIC

Global Inflation

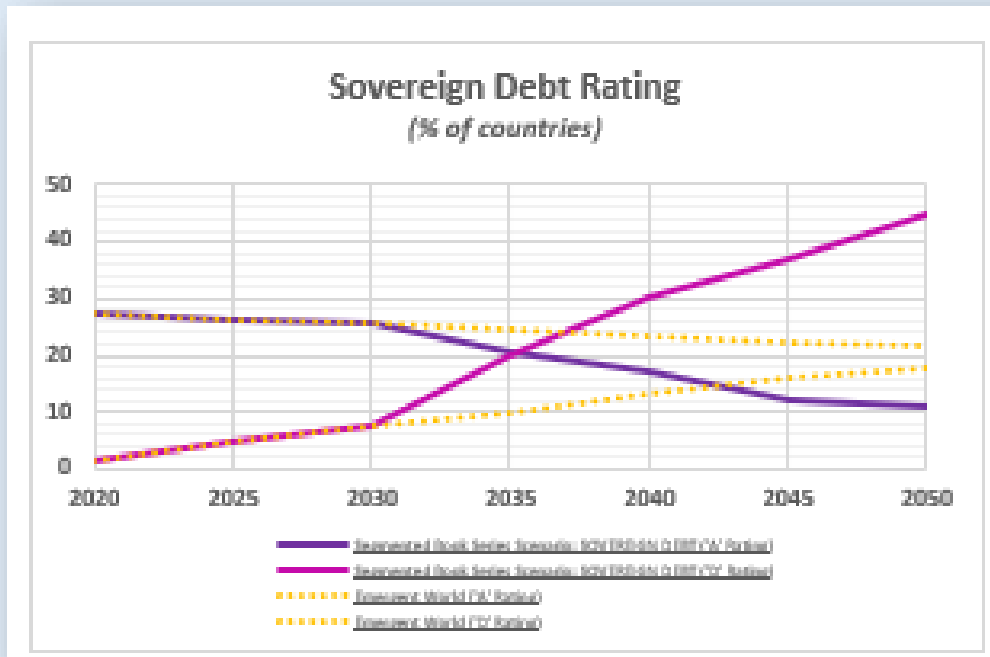


Explanation

Inflation dominates the next thirty years driven primarily by resource shortages. Where Focused Innovation begins to find substitutes for depleting resources, there is some slackening of the increase but the Segmented World of the Book Series, this is unevenly distributed and the emergence of secular stagflation (Book 1: page 120), with prices consistently rising faster than incomes becomes the norm in most areas.

ECONOMIC

Sovereign Debt

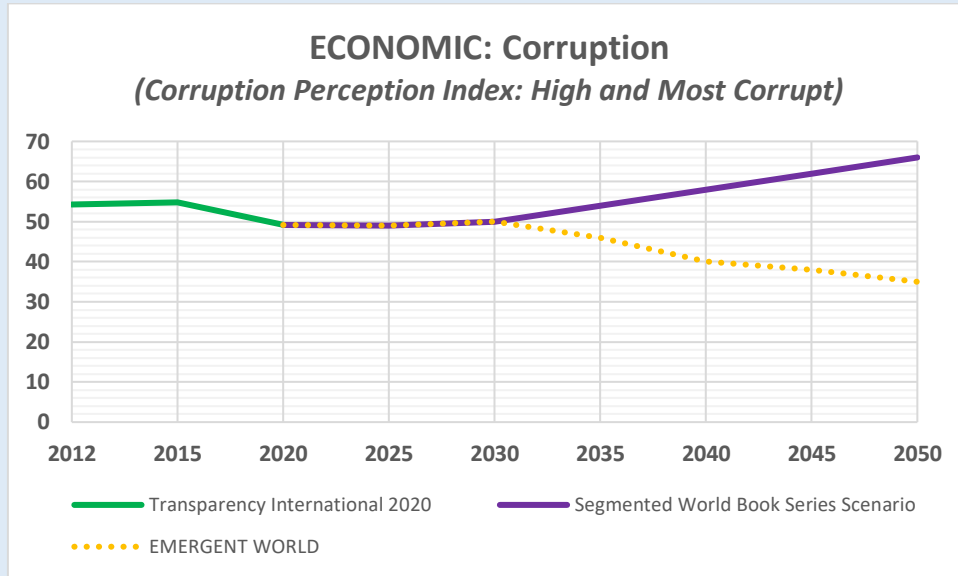


Explanation

As global inflation rises so do lending rates - limiting further borrowing – and the net interest payments on existing debt. As economic growth declines financial capability falls and, in the late thirties The Great Defaulting (Book 1: page 64) begins

ECONOMIC

Corruption

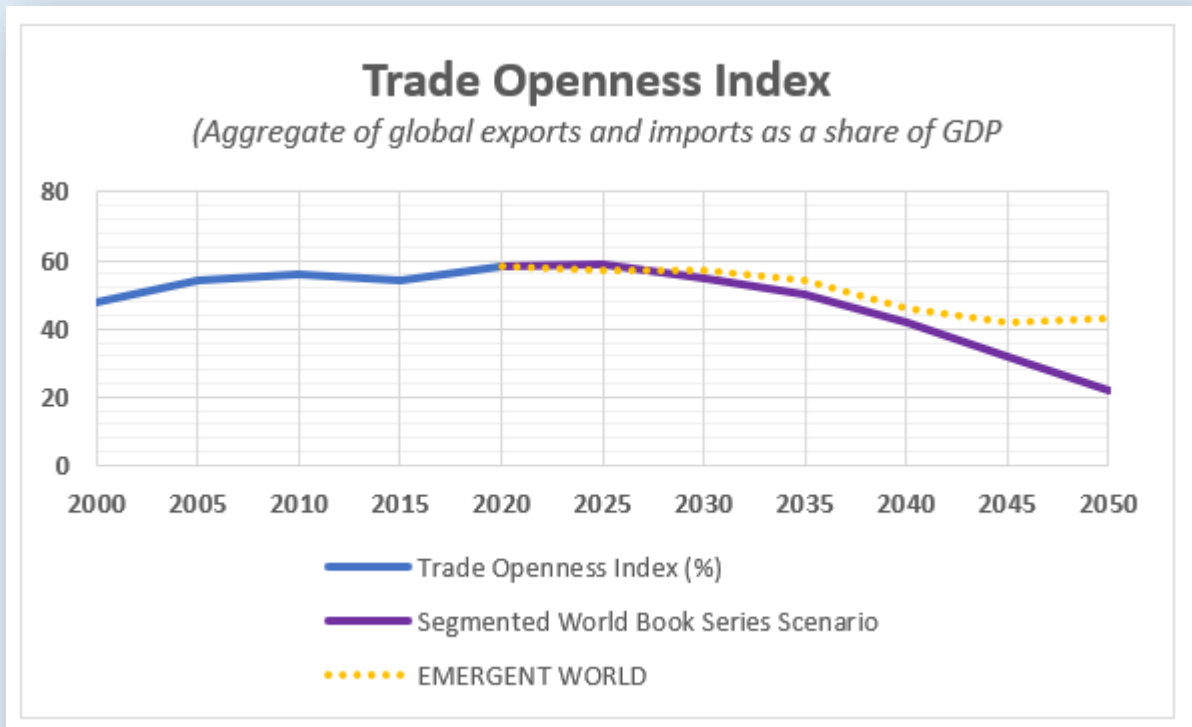


Explanation

With deteriorating economic conditions and the increase in authoritarian governance, corruption increases throughout global society (Book 1: page 289)

ECONOMIC

Trade Openness

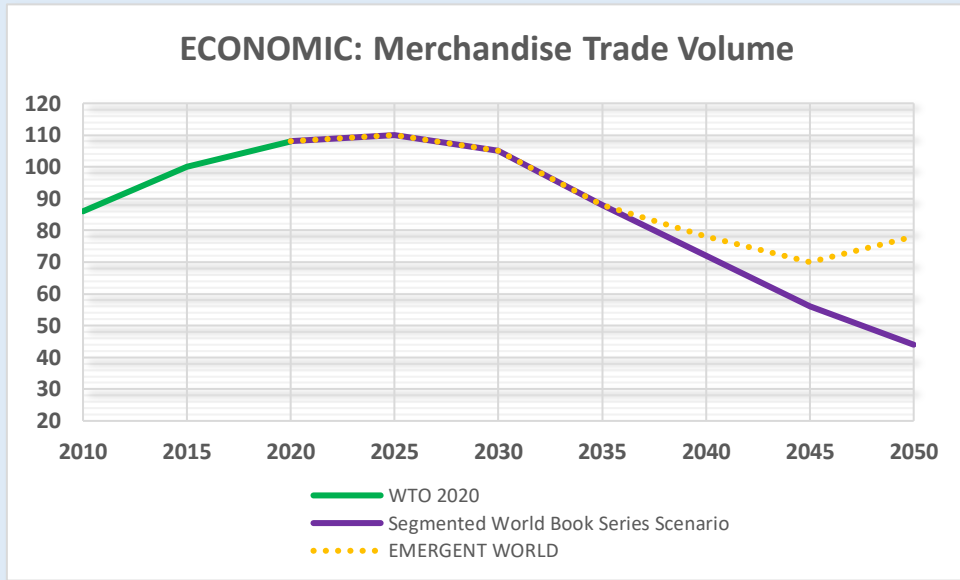


Explanation

Geopolitical polarisation into Powerblocks and StaticLands (Low and High) erodes open international trade. Bilateral trade arrangements become increasingly tied to the degree of political alignment. Globalisation has become Regionalisation.

ECONOMIC

Trade Volume

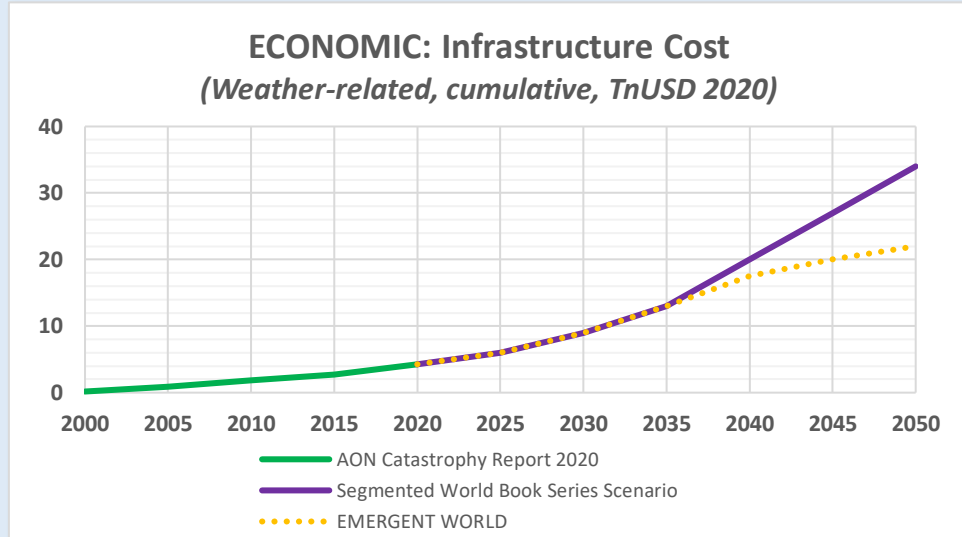


Explanation

Absolute volume decreases in response to falling economic growth and growing obligation for national self-efficiency (i.e. no more asparagus from Peru).

ECONOMIC

Infrastructure Cost

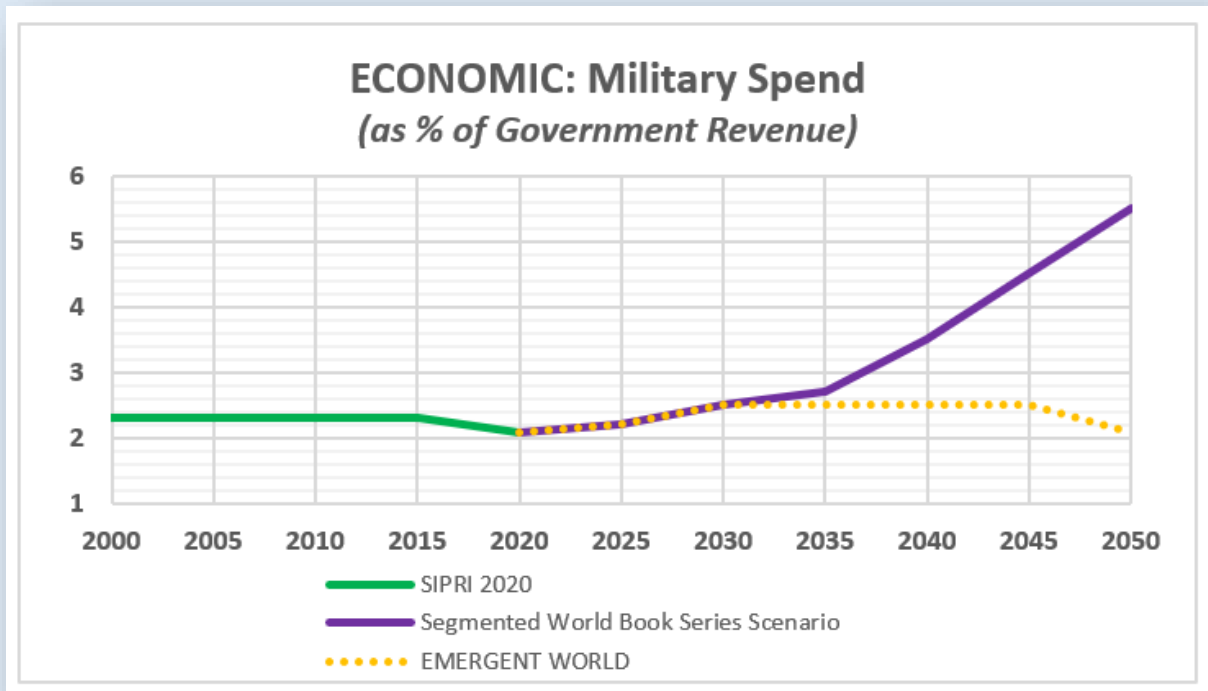


Explanation

Cumulative cost of essential repair and replacement rises sharply as increasingly disruptive – climate change-related – weather events degrade existing infrastructure and divert more funding from Government Support spending in the late 2030’s.

ECONOMIC

Military Spending

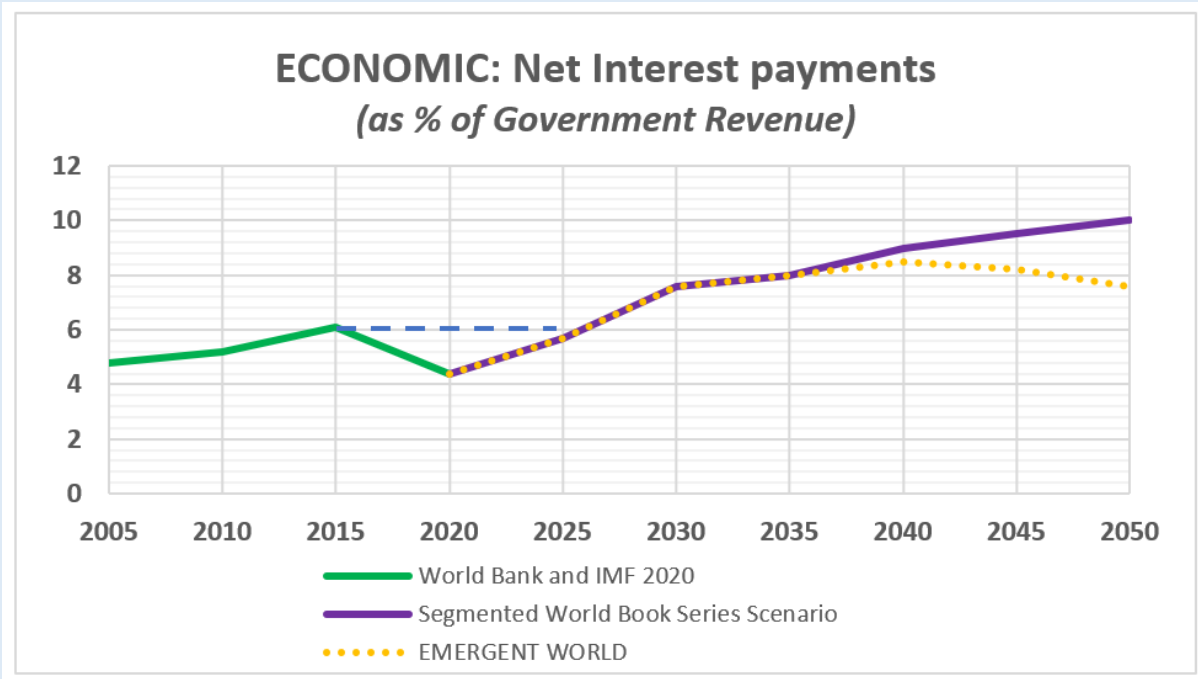


Explanation

Military Spending remains flat as a % of GDP until the late thirties when the breakdown of global cooperation increases political tensions resulting in an increase in weapons expenditure.

ECONOMIC

Net Interest Payments

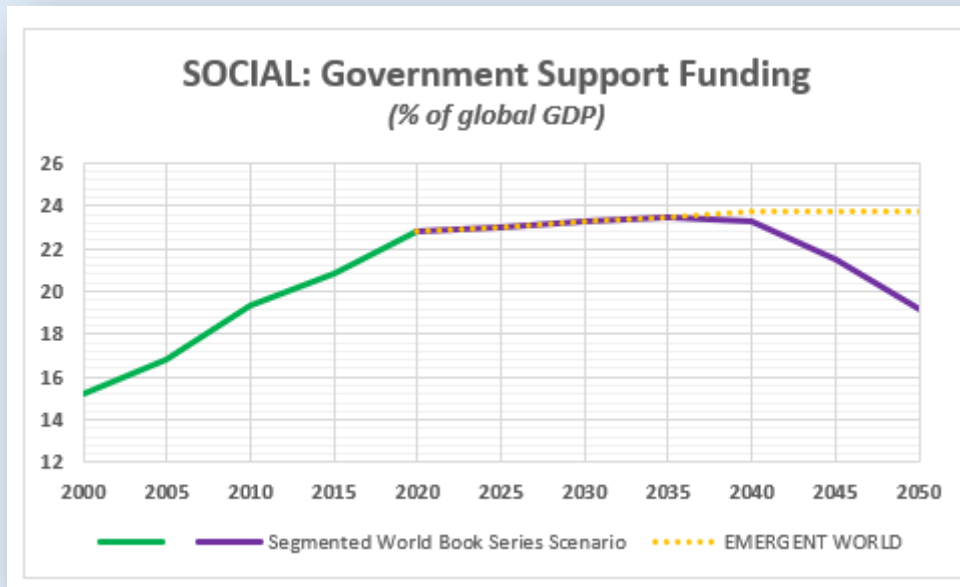


Explanation

Net interest on borrowing increases in response to rising inflation restricts the funding available for Government Support Spending (i.e. education, health, social care). As global financial debt management is lost in the late 2030's the choice is pay the higher charges or default.

ECONOMIC

Government Support Funding

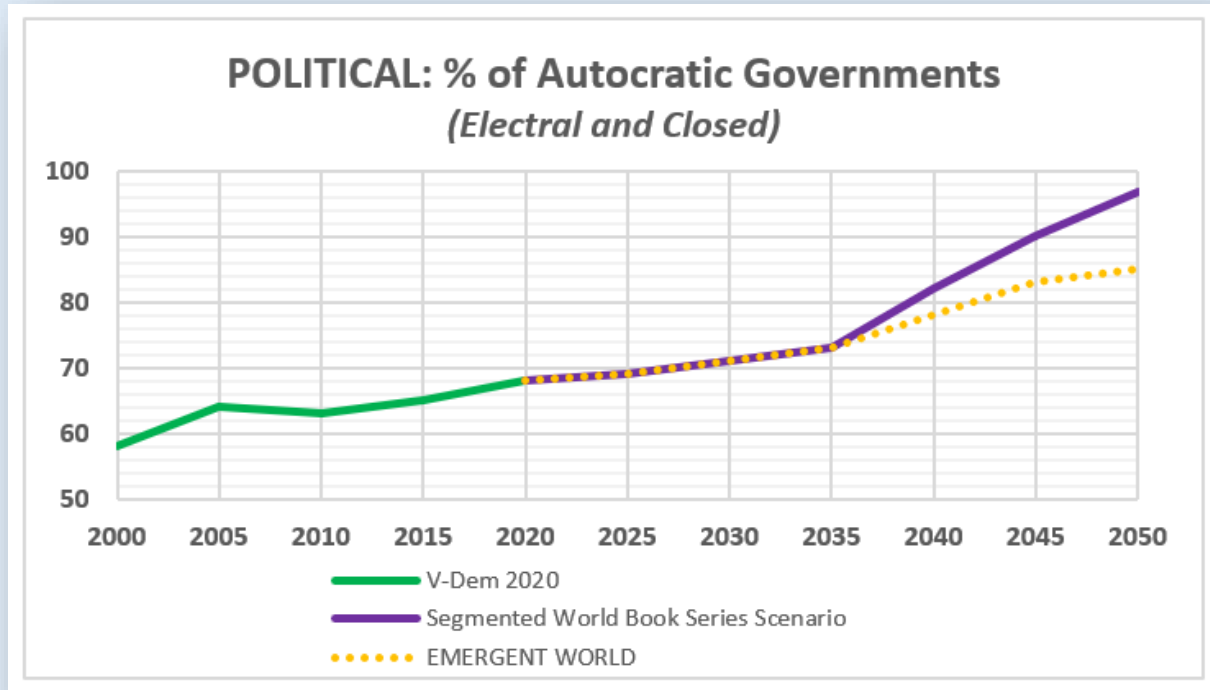


Explanation

Rising proportion of government funds spent on social support (education, health and social care) flatten off and then sharply decline as falling economic growth combine with increasing infrastructure, debt repayment and military costs to squeeze the level of government support for populous.

POLITICAL

Governance Style

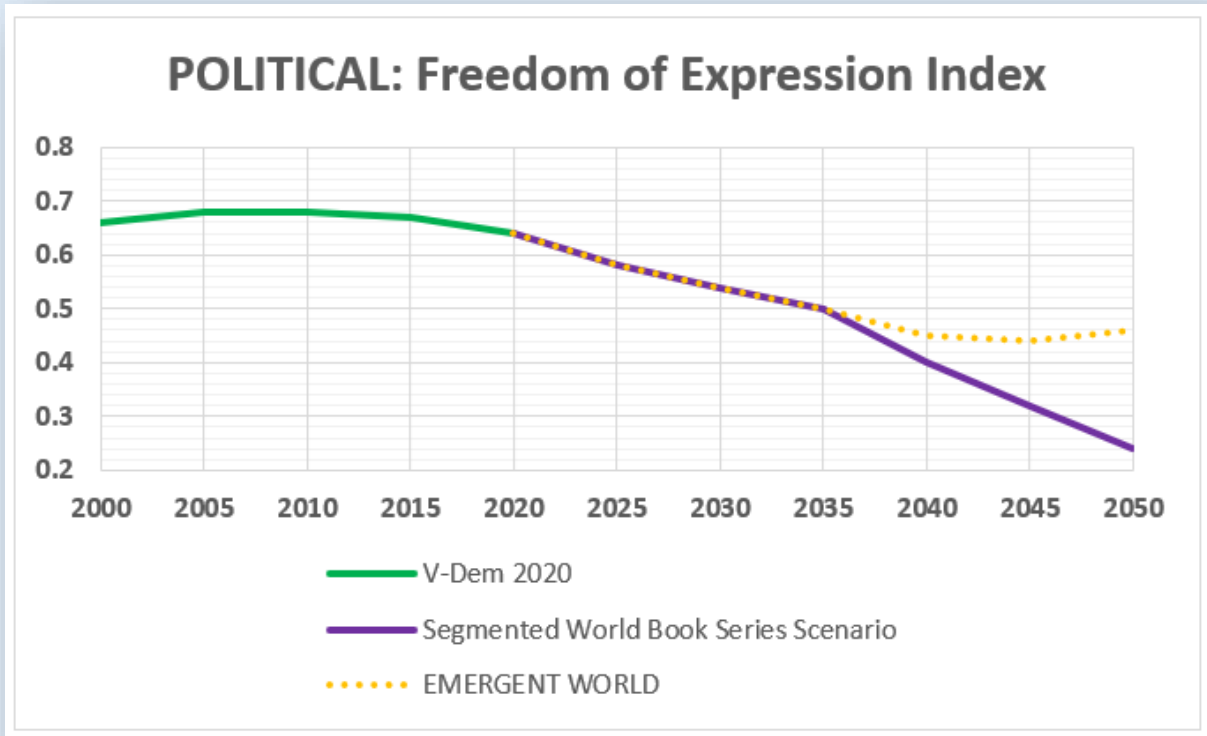


Explanation

With economic collapse looming, liberal-minded governments become more proscriptive. The EuroState, for example, overwhelmed by immigrant pressures undergoes a dramatic change in leadership with a more directive style often led by former military figures.

POLITICAL

Freedom of Expression

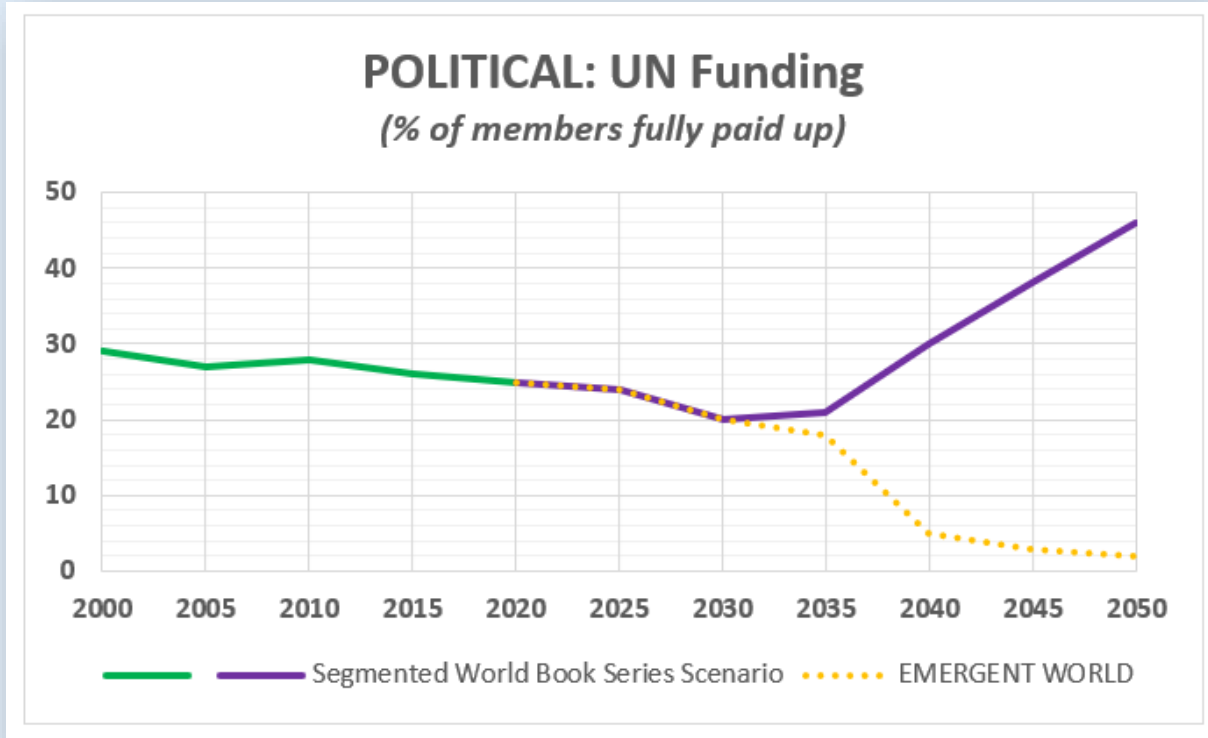


Explanation

Governments respect for press, media and academic freedom sharply decline as governments become more autocratic in the light of increasingly difficult economic conditions.

POLITICAL

Funding of the UN

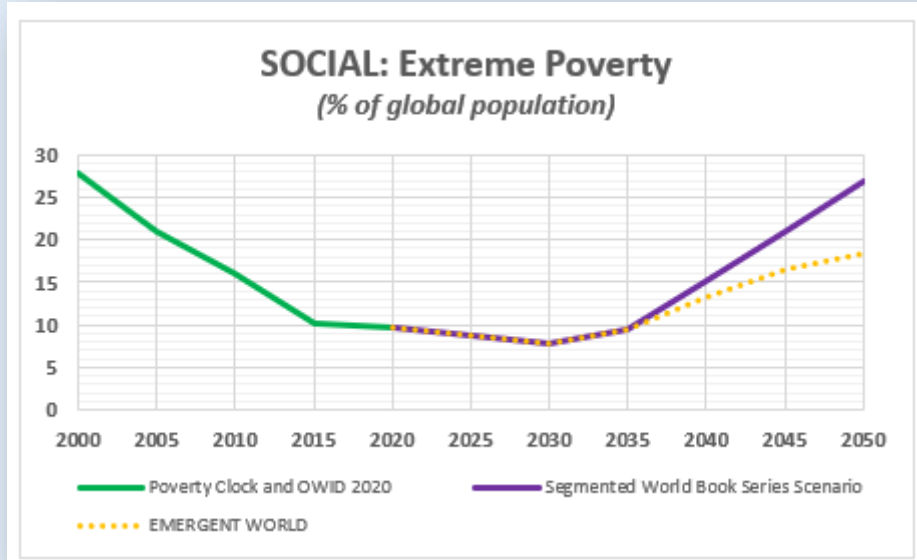


Explanation

With Government budgets squeezed and the influence of multilateral agencies waning, support for funding the UN dramatically declines

SOCIAL

Extreme Poverty

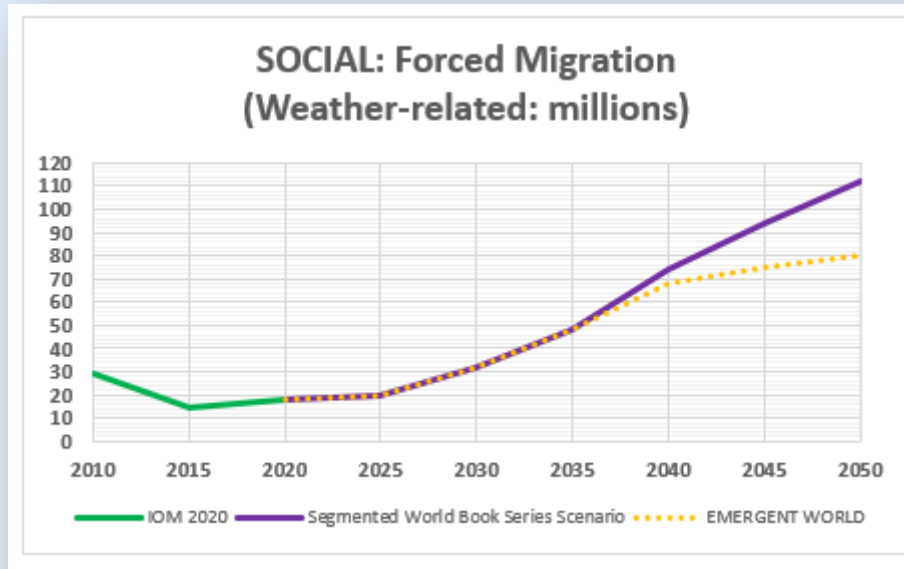


Explanation

With foreign aid and support from multilateral agencies falling, hundreds of millions descend into abject poverty - 20% additional peoples enter into extreme poverty in 30 years.

SOCIAL

Forced Migration (Weather-related)

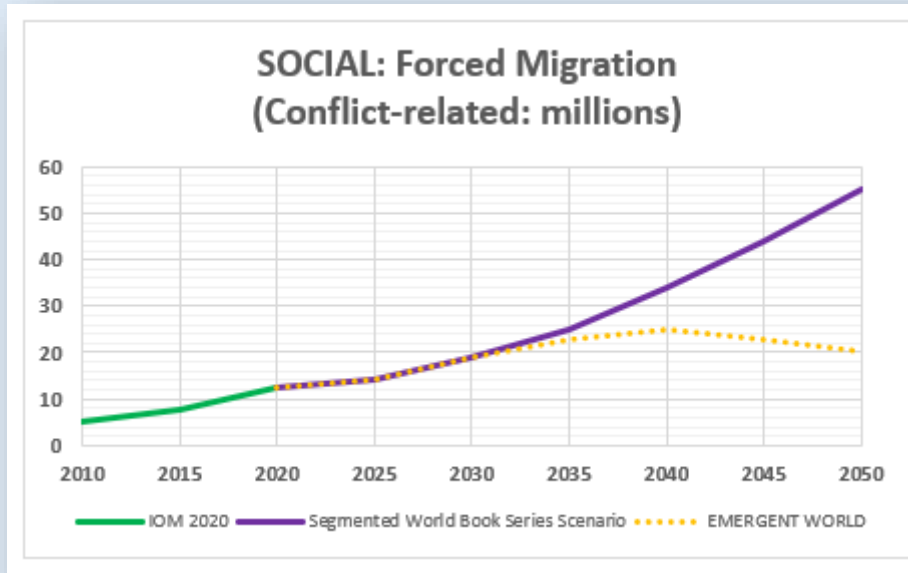


Explanation

Climate change, irrespective of global scenario forces many to migrate. Migration is least where investment in protection has been rolled out globally.

SOCIAL

Forced Migration (Conflict-related)

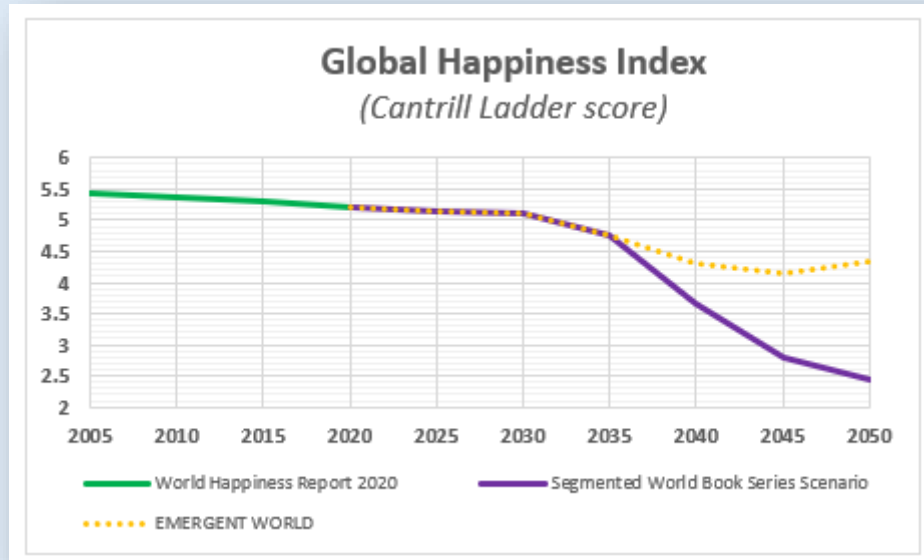


Explanation

As global control is lost in the second half of the 2030's, civil unrest grows in many Low Utility StaticLand as Foreign Aid decreases and while across disturbances flare up in the main Resource Conflict Zones (Book 1: page 200)

SOCIAL

Happiness



Explanation

With foreign aid and support from multilateral agencies falling, hundreds of millions descend into abject poverty