

WARNING VOICES



Collected and edited by Prof. Frank Sander © 2011

© www.123rf.com

A project co-funded by the European Union and the German Federal Ministry for Economic Cooperation and Development

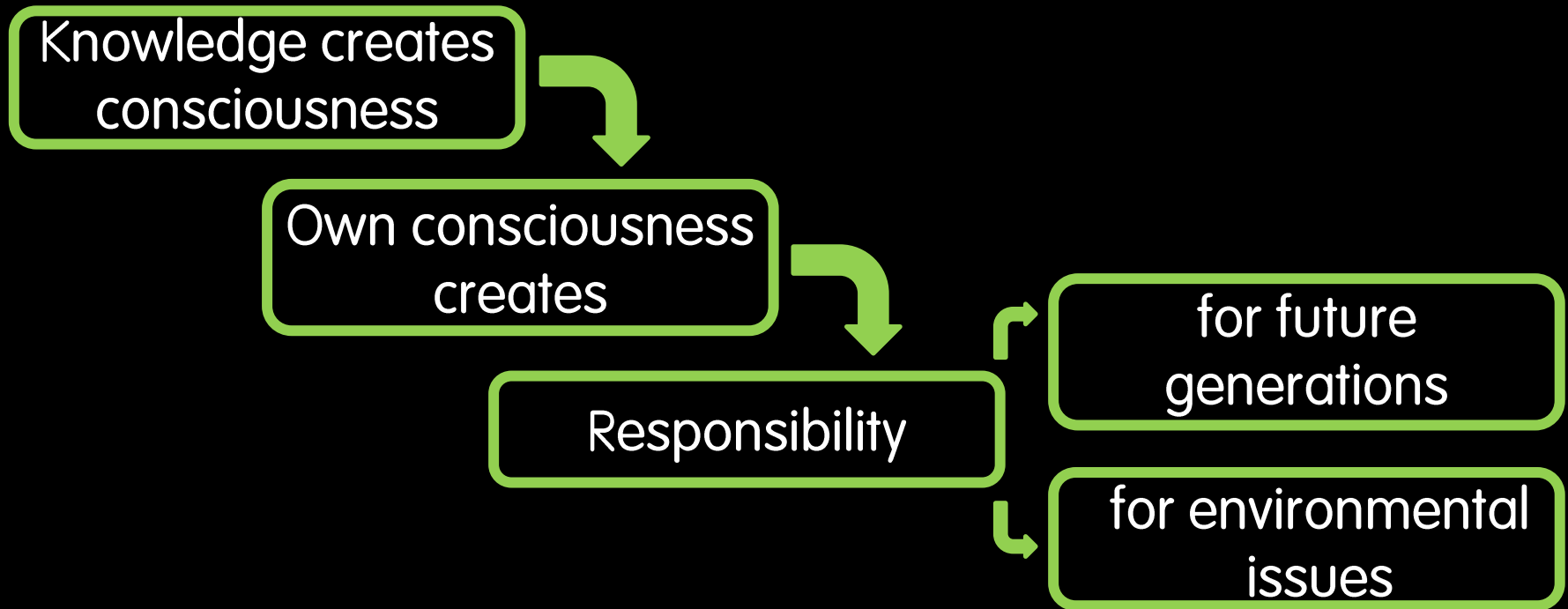


A project implemented by:

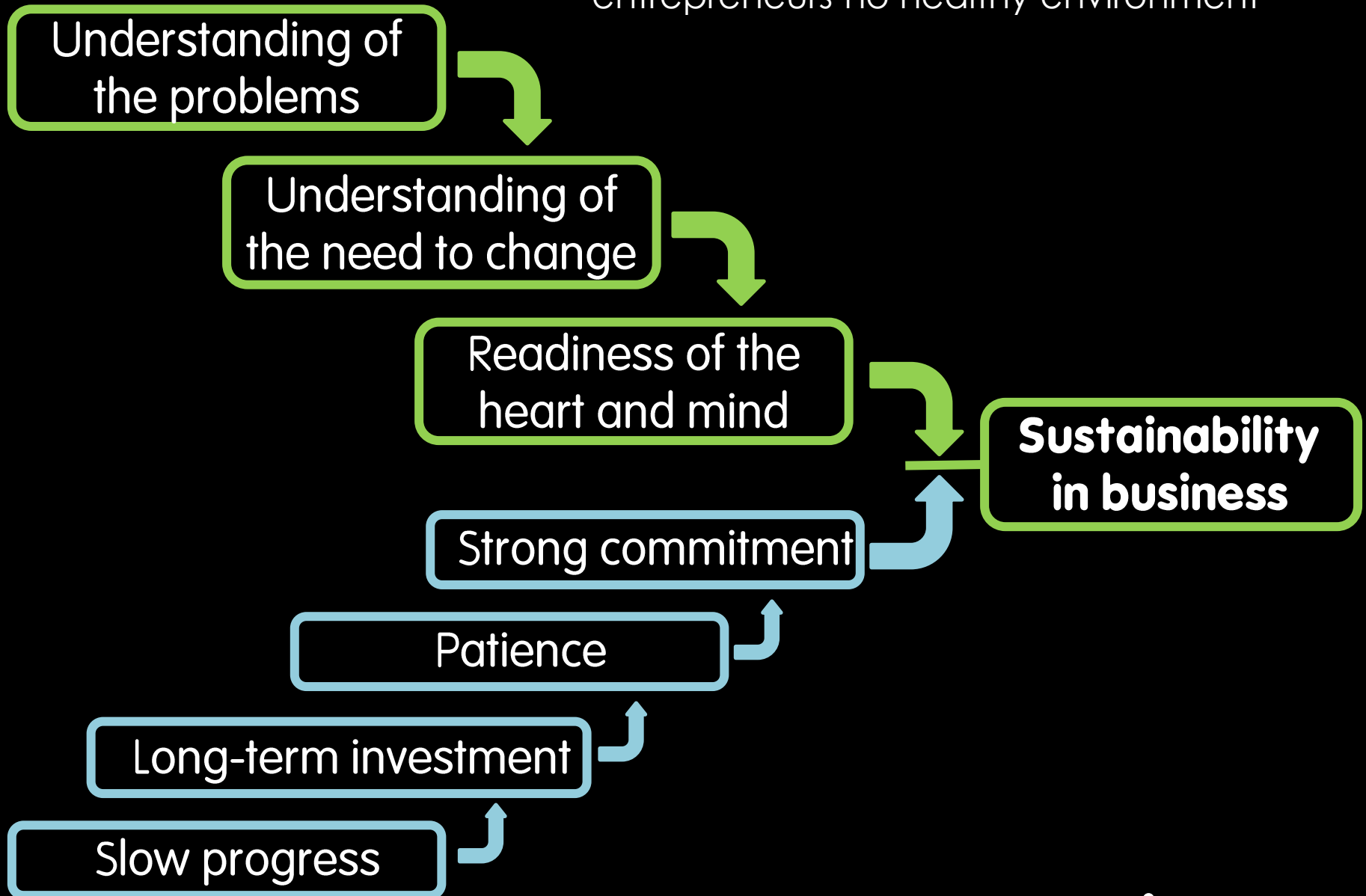


**“Man has lost the capacity to foresee and to forestall.
He will end by destroying the earth.”**

by Albert Schweitzer



Without the dedication of the entrepreneurs no healthy environment



The fast industrial growth after post-war II caused dramatic damages by the pollution of air, water, earth, and the depletion of our natural resources.

The topic of sustainability arose more than 100 years ago

The public was shaken by books in 60th and 70th

The industrialization of the 18th and 19th century caused a lot of damages especially to the forest

Silent Spring

The Limits to Growth

Cradle to Cradle

When you read *SILENT SPRING*, you will know why Justice William O. Douglas called it "THE MOST IMPORTANT CHRONICLE OF THIS CENTURY FOR THE HUMAN RACE."

"Not war, but a plethora of man-made things . . . is threatening to strangle us, suffocate us, bury us, in the debris and by-products of our technologically inventive and irresponsible age."

—MARGARET MEAD

"...The 1970s absolutely must be the years when America pays its debt to the past by reclaiming the purity of its air, its waters, and our living environment. It is literally now or never."

—RICHARD M. NIXON



A Fawcett Crest Book

SILENT SPRING

THE WORLD-FAMOUS
BESTSELLER ABOUT OUR
RAVAGED ENVIRONMENT
AND THE MAN-MADE
POLLUTION THAT IS
IMPERILING ALL
LIFE ON EARTH

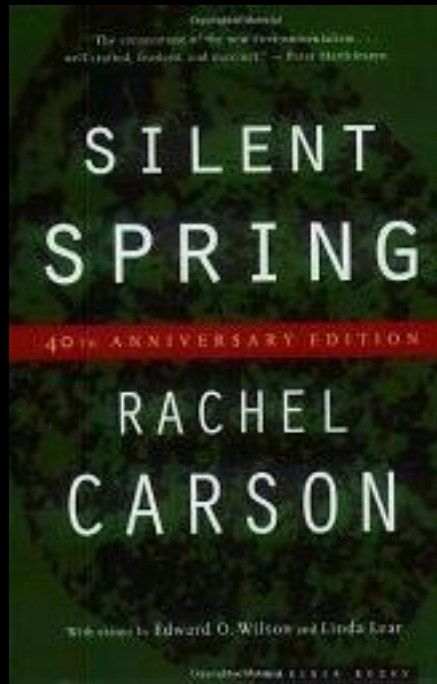


RACHEL CARSON

The book was written
by
Rachel Carson

Published
by Houghton Mifflin
on
September 17th, 1962

and it helped very
much to launch the
environmental
movement



One of the 25 greatest science books of all time!

Selection by the editors of the *Discover Magazine*

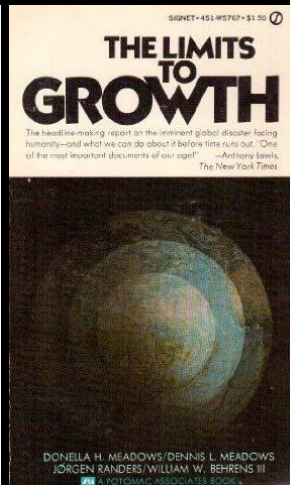
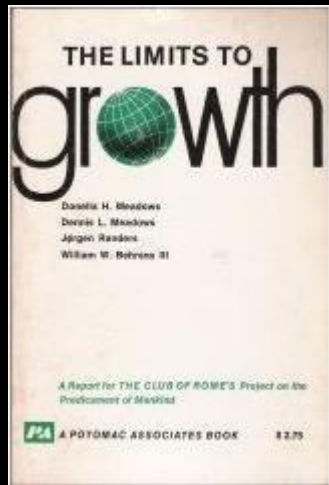


The book inspired widespread public concern with pesticides and pollution of the environment.

The book published detrimental effects of pesticides on the environment, particularly on birds. **Silent Spring** facilitated the ban of the pesticide DDT in 1972 in the USA.

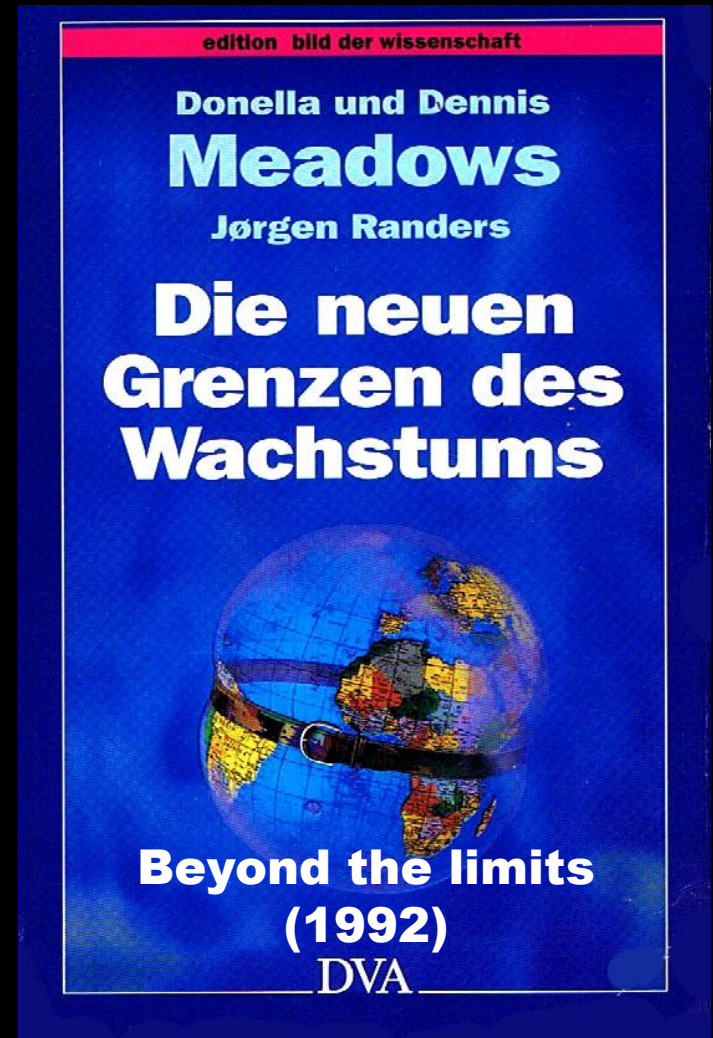
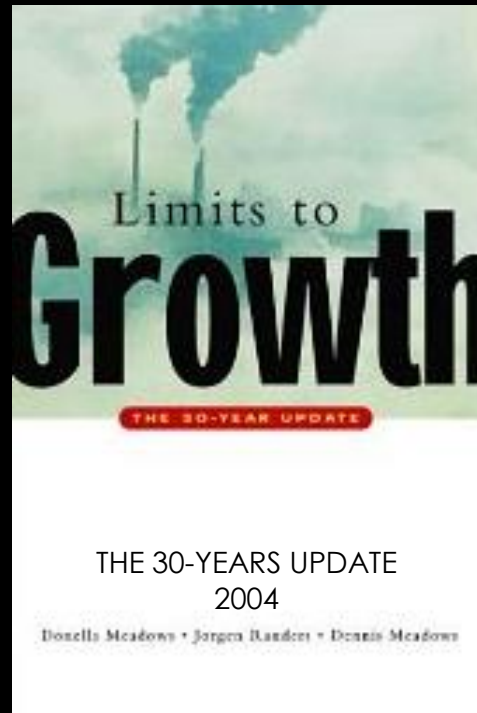
The book argued that uncontrolled and unexamined pesticide use was harming and even killing not only animals and birds, but also humans.

Carson accused the chemical industry of spreading disinformation, and public official of accepting industry claims uncritically.



Its authors were
Donella H. Meadows
Dennis L. Meadows
Joergen Randers
William W. Behrens III

The books was
commissioned by the
Club of Rome and
published 1972



The Club of Rome

The Limits to Growth is a book modeling the consequences of a rapidly growing world population and finite resource supplies. The book used the World3 model to simulate the consequence of interactions between the Earth's and human systems.



The **Club of Rome** is a global think tank that deals with a variety of international political issues.

Founded in 1968, the CoR describes itself as "**a group of world citizens, sharing a common concern for the future of humanity.**"

It consists of current and former Heads of State, UN bureaucrats, high-level politicians and government officials, diplomats, scientists, economists, and business leaders from around the globe.

The club states that its mission is "to act as a global catalyst for change through the identification and analysis of the crucial problems facing humanity and the communication of such problems to the most important public and private decision makers as well as to the general public."

The World3 Model

The **World3** model was a computer simulation of interactions between

**population,
limited resources,
industrial output,
food production, and
damage to the eco-system**

of the Earth.

These 5 variables were examined in the assumptions that **exponential growth** accurately described their pattern of increase, and the ability of technology to increase the availability of resources **grows only linearly**.

The authors intended to explore the possibility of a sustainable feedback pattern that would be achieved

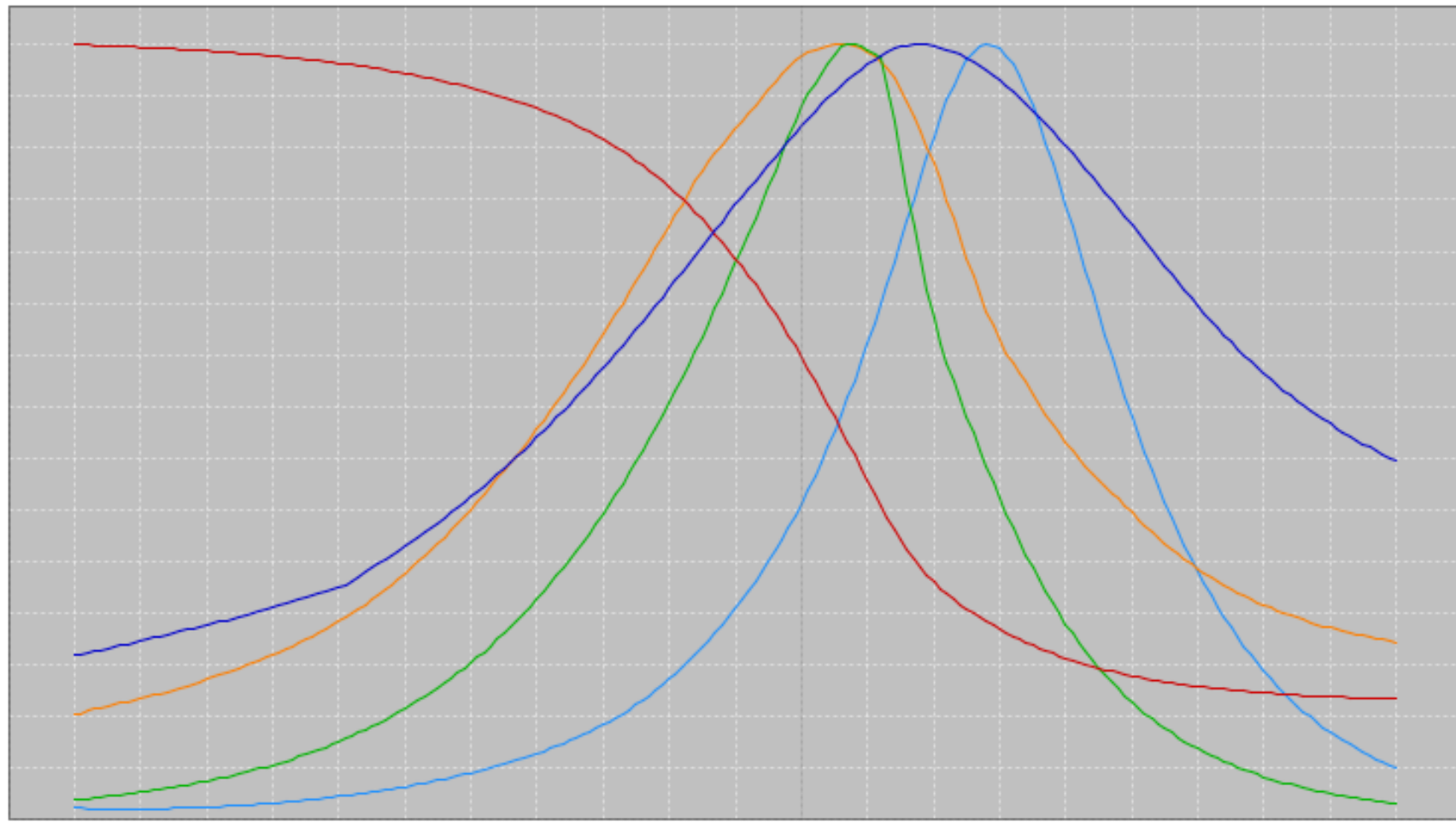
by altering growth trends

among the five variables.

In 2008 Graham Turner published a paper called "A Comparison of `The Limits to Growth` with Thirty Years of Reality". It examined the past thirty years with the predictions made in 1972 and found that changes in industrial production, food production and pollution are all in line with the book's predictions of **economic and societal collapse in the 21st century**.

The World3 Model

Standard Scenario of World3-03



— Population — Limited Resources — Industry Output — Food — Envir. Damage