

Uncertain Worlds Economics, Banking & Finance

THE FINANCIAL
CRASH OF 2007-08
SHOCKED
THE WORLD.

BANKERS HAD BECOME TOO RELIANT
ON COMPLEX ALGORITHMS AND MODELS

HI! I'M ALGORITHM.
I'M YOUR FRIEND.

I LOVE YOU
AL.

SOME ECONOMIC MODELS HAD
ASSUMED SUCH A CRISIS WAS
IMPOSSIBLE. TRADES WERE BEING
MADE IN NANoseconds, AND
VOLATILITY SPREAD VERY FAST.

TRA-LA-LA!

BANKERS THOUGHT THEY UNDERSTOOD
THE RISKS, BUT THEY WEREN'T
READY FOR UNCERTAINTY AND
'UNKNOWN UNKNOWN'S!'

ECONOMISTS HAD FORGOTTEN THAT
THERE WAS AN IMPORTANT
DISTINCTION BETWEEN RISK, WHERE
YOU CAN PREDICT
AND PLAN, AND
UNCERTAINTY...

...WHERE YOU DON'T
KNOW WHAT THE
FUTURE HOLDS.

YET IN THE PAST, UNCERTAINTY WAS AT THE CORE OF ECONOMIC THINKING.

FRANK KNIGHT

RISK IS DIFFERENT
TO UNCERTAINTY

FRIEDRICH
VON
HAYEK

THE PRETENCE
OF KNOWLEDGE

JOHN
MAYNARD
KEYNES

WE SIMPLY DO
NOT KNOW

AFTER THE CRASH ECONOMISTS NEED
TO RECLAIM OLDER IDEAS, MAKING
UNCERTAINTY CENTRAL AGAIN.

WHO CAN THEY LEARN FROM?
PASTORALISTS ARE USED TO LIVING
WITH UNCERTAINTY.

THEY DON'T TRY TO ELIMINATE
VARIABILITY -
THEY MAKE USE OF IT.

KNOWLEDGE

THIS REQUIRES EXPERIMENTATION,
IMPROVISATION, LEARNING-BY-DOING
AND PRACTICAL PROBLEM SOLVING.

MUNCH!

HOW CAN
BANKING,
FINANCE AND
ECONOMICS
CHANGE?

ACKNOWLEDGE THAT
SURPRISES CAN HAPPEN.

TREAT OPAQUE AND COMPLEX
RISK-BASED MODELS AND
ALGORITHMS WITH CAUTION.

ALLOW SPACE FOR DELIBERATION
AMONG OPTIONS, WHEN INFORMATION
IS INCOMPLETE.

ENCOURAGE MORE HUMAN
INTERACTIONS WITHIN FINANCIAL
NETWORKS.

AND MAKE UNCERTAINTY
CENTRAL TO ECONOMIC
ANALYSIS AGAIN.