

Securing the Critical National Infrastructure

Framing devices for thinking about threats



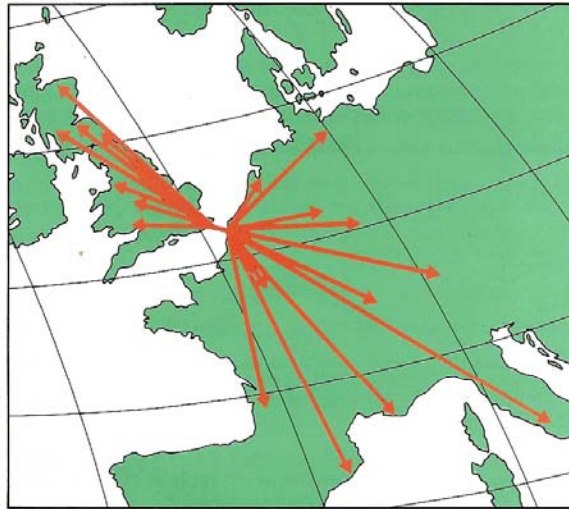
Presentation for RUSI Conference
London

25 – 26 April, 2007

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MINI PROSPECTUS



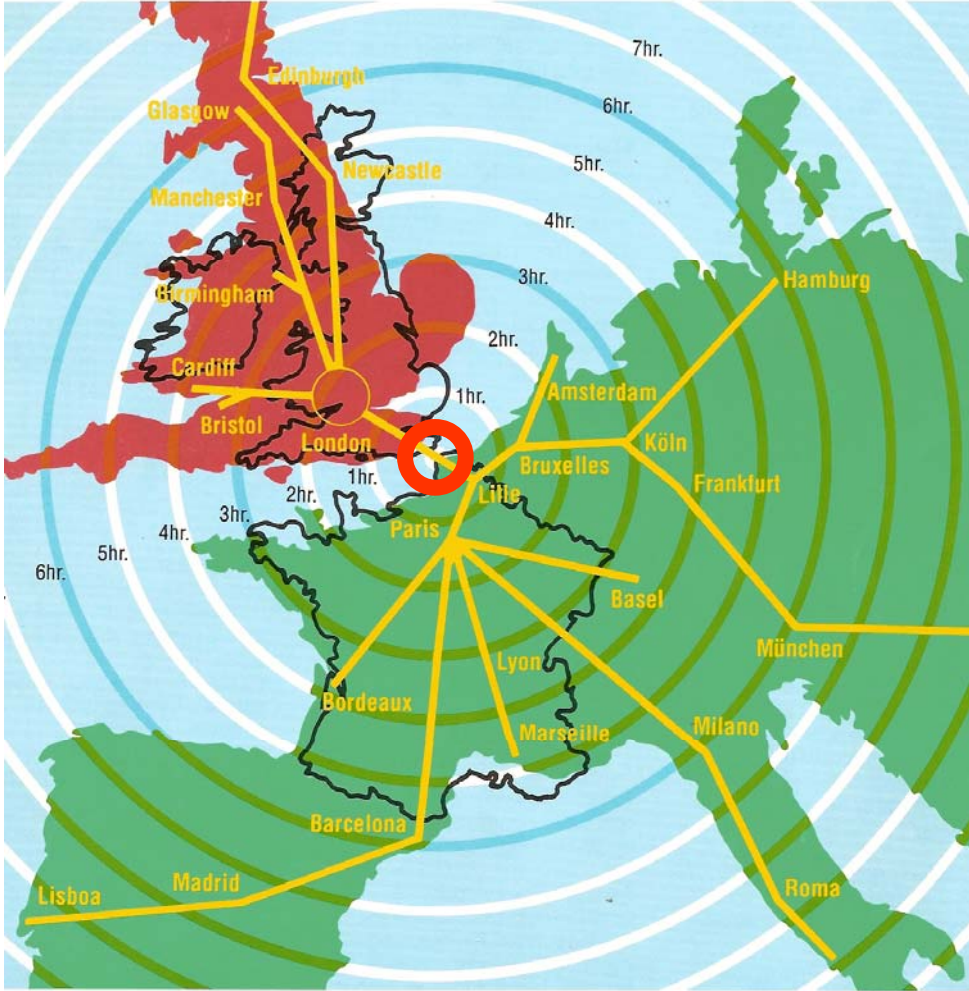
Offer for Sale

by

Robert Fleming & Co. Limited Morgan Grenfell & Co. Limited S.G. Warburg & Co. Ltd.

16th November, 1987

CAN YOU REACH THE CHANNEL TUNNEL IN 1993?



1. Different kinds of Risk

e.g. cholera: need
a microscope to
see it and a
scientific
training to
understand

Terrorism

Events dear boy!

through
science

Scientists don't
know or cannot
e.g.
BSE/vCJD,
global

warming,
low-level
pesticide

The legal environment

directly

risk

residues,
HRT, mobile

e.g. climbing
a tree, riding
a bike, driving, car

phones,
passive smoking,
stock market



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The New Yorker March 21, 1988

terrorism

HELP US DEPRAT IT



Life Savers

If you know or see anything that leads you to suspect that someone may be a terrorist or is involved in helping terrorists... or anything that leads you to suspect terrorist activity... DON'T HESITATE... CALL:

0800 789 321

CONFIDENTIAL
**ANTI-TERRORIST
HOTLINE**



Working for a safer London

GCHQ





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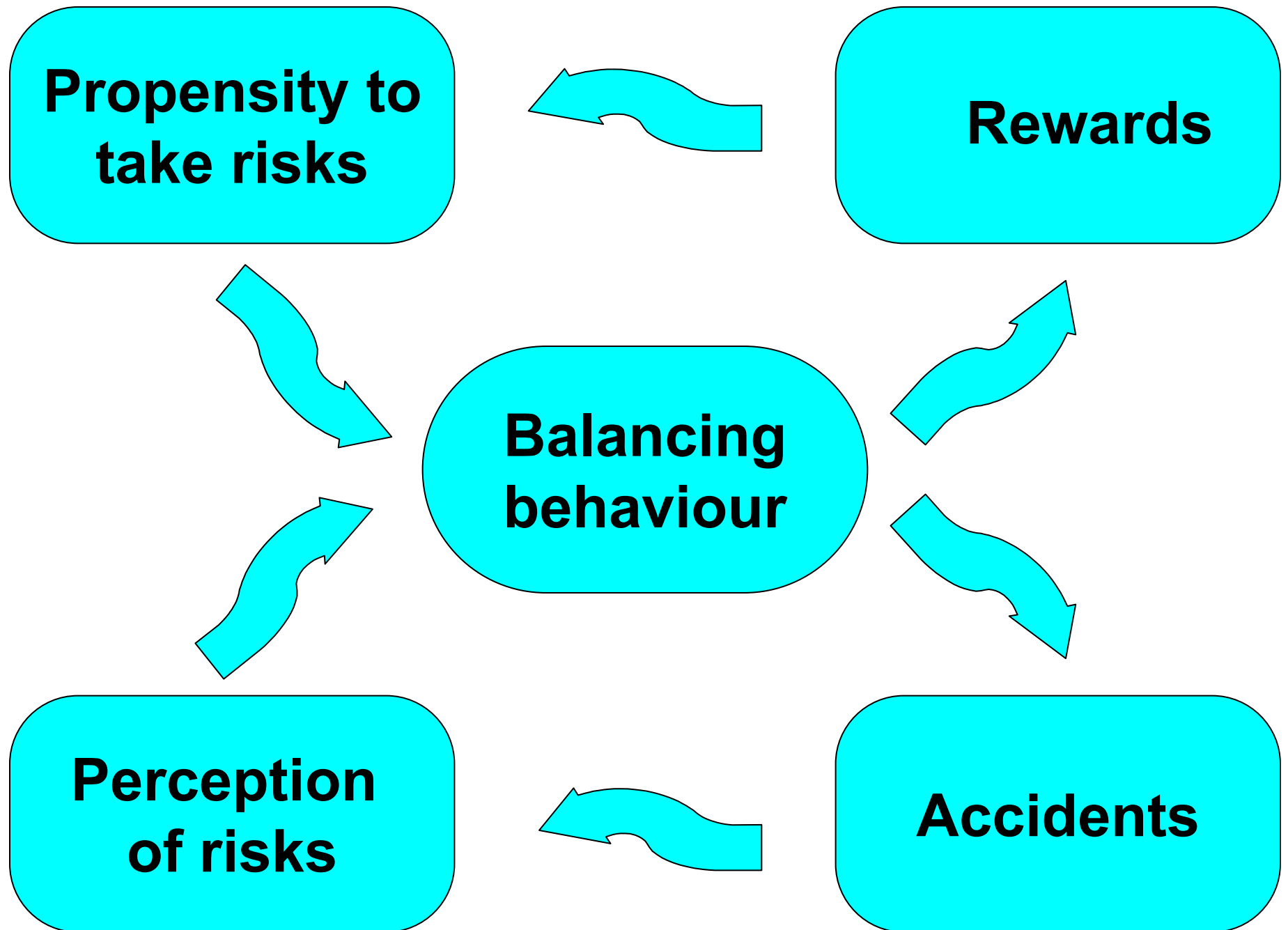
The New Yorker March 21, 1988

2. A successful risk manager



Risk management
is

- a balancing act
- instinctive
- intuitive
- influenced by experience
- modified by culture



**Propensity to
take risks**

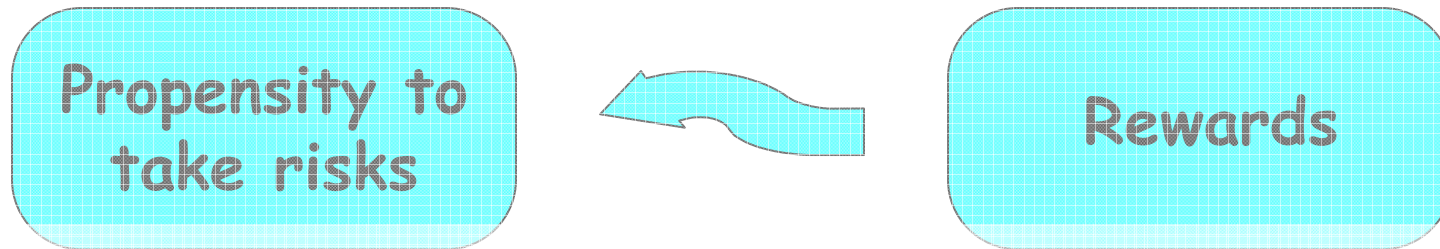
Rewards

**Balancing
behaviour**

**Perception
of risks**

Accidents

Bottom loop bias



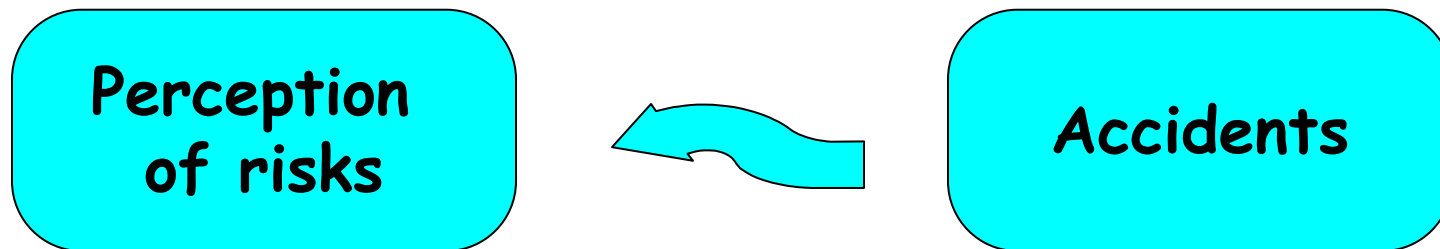
**Reducing risks, protecting people
Exercising a powerful influence
for accident prevention**

Balancing Behaviour

Perception of risks

Accidents

A light blue rounded rectangular box on the left contains the text "Perception of risks". A light blue rounded rectangular box on the right contains the text "Accidents". A light blue arrow points from the "Accidents" box to the "Perception of risks" box.



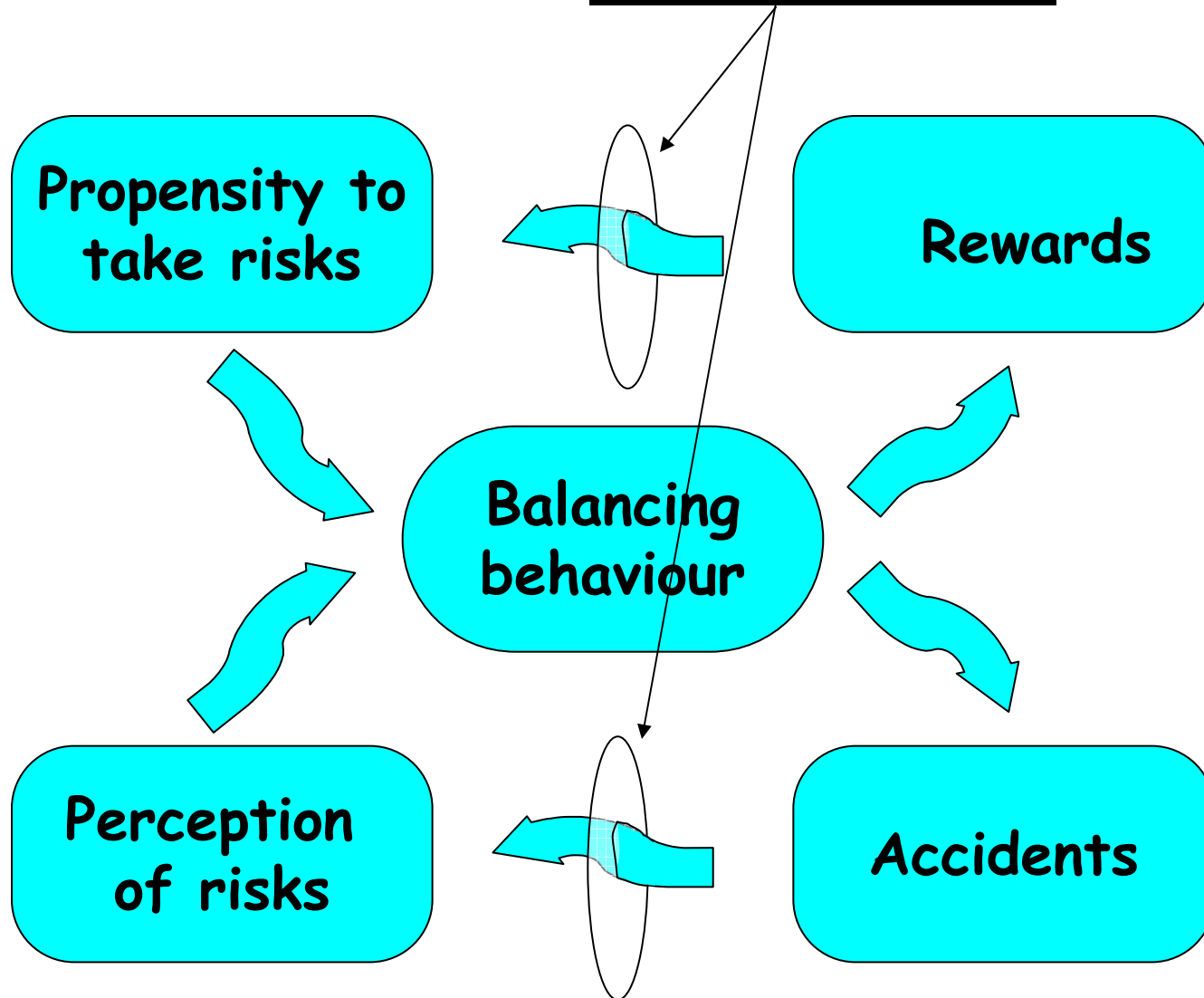
A virtual risk: vCJD from BSE?

“I have worked in this field for 25 years ... did I go out and eat lamb chops, did I go out and eat lamb brain, sheep brain? The answer was ‘no’, but it was not based on scientific criteria, it was based on just emotion. ... At a scientific level I cannot give you a scientific basis for choosing or not choosing beef, because we do not know the answers.”

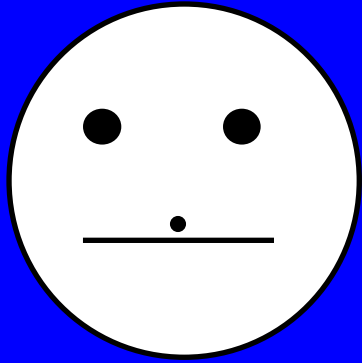
Nobel Laureate Stanley Prusiner

BSE Inquiry, 6 June 1998

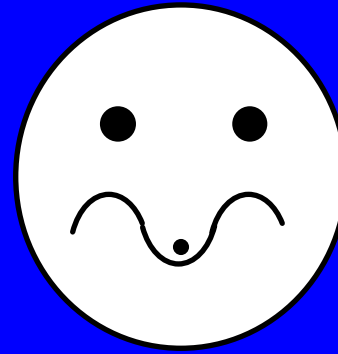
Risk thermostat with perceptual filters



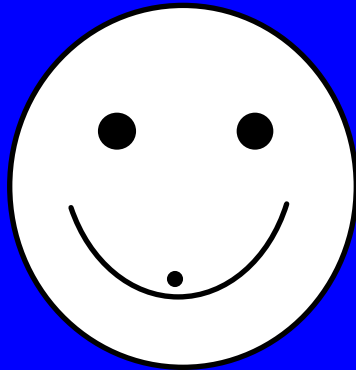
3. The Public



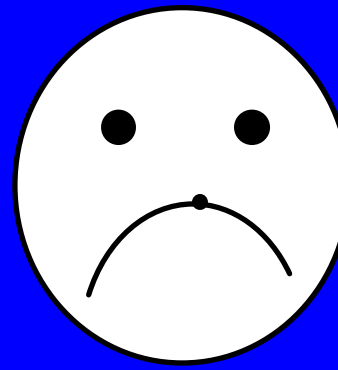
Fatalist



Hierarchist



Individualist



Egalitarian

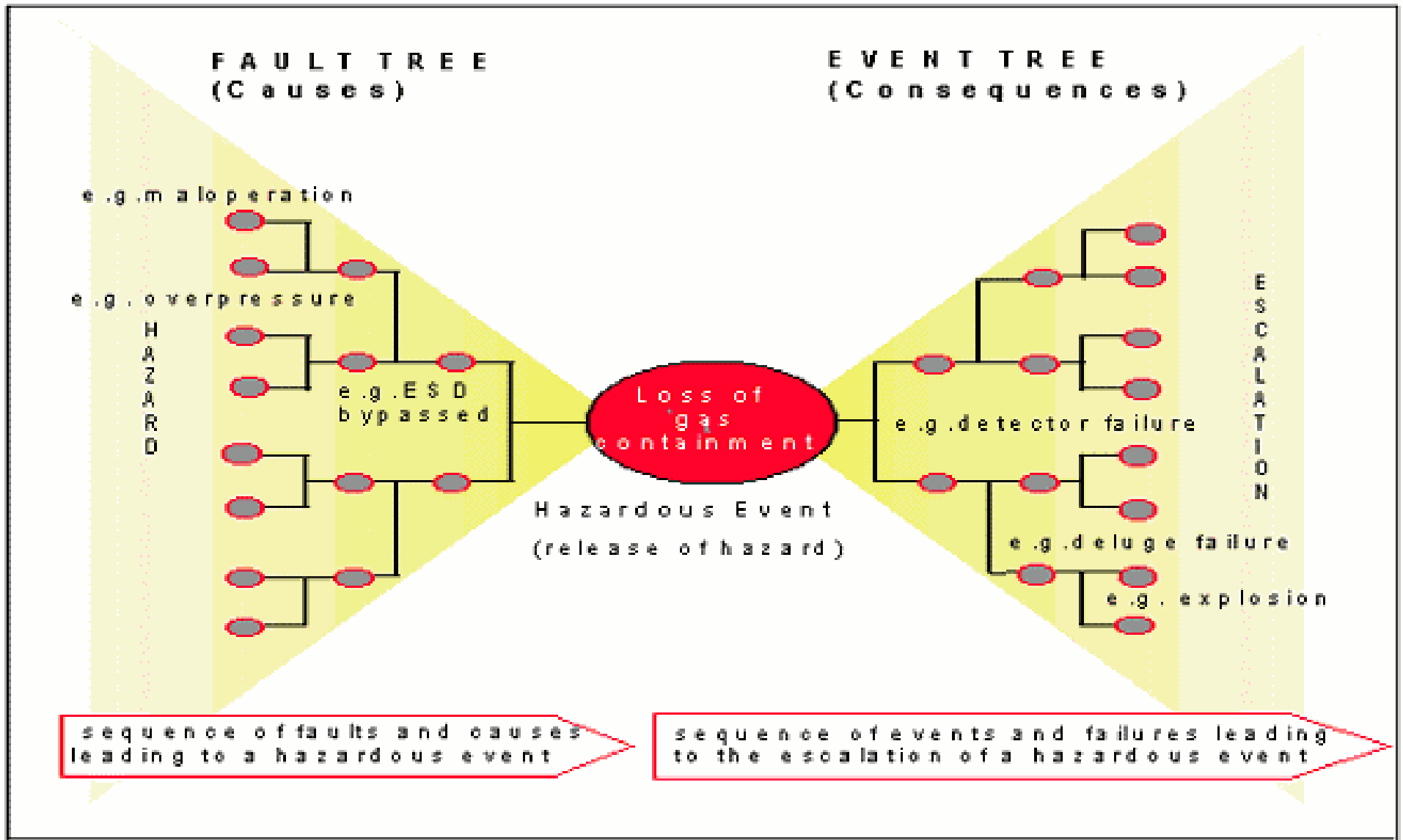
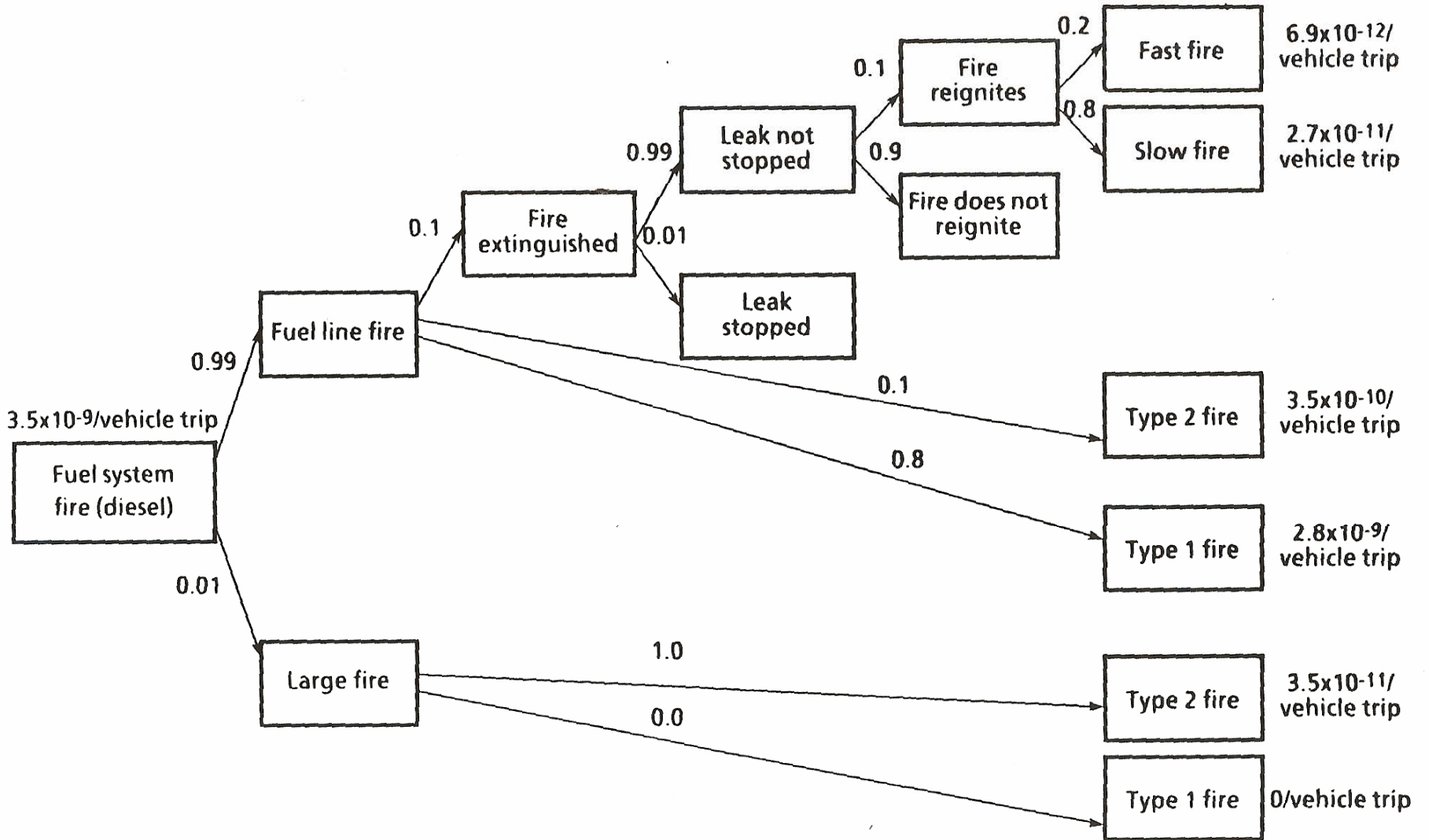
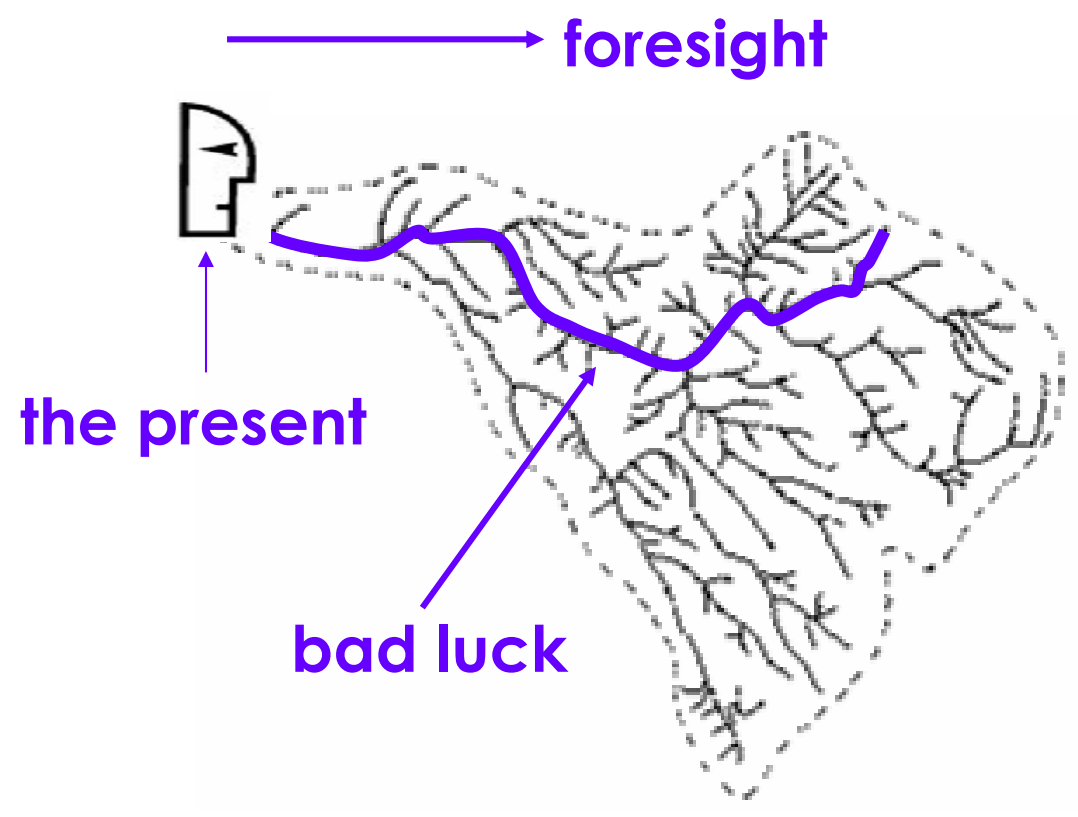


Figure 5.2.3B

Fuel System Fire (Diesel Fuel)



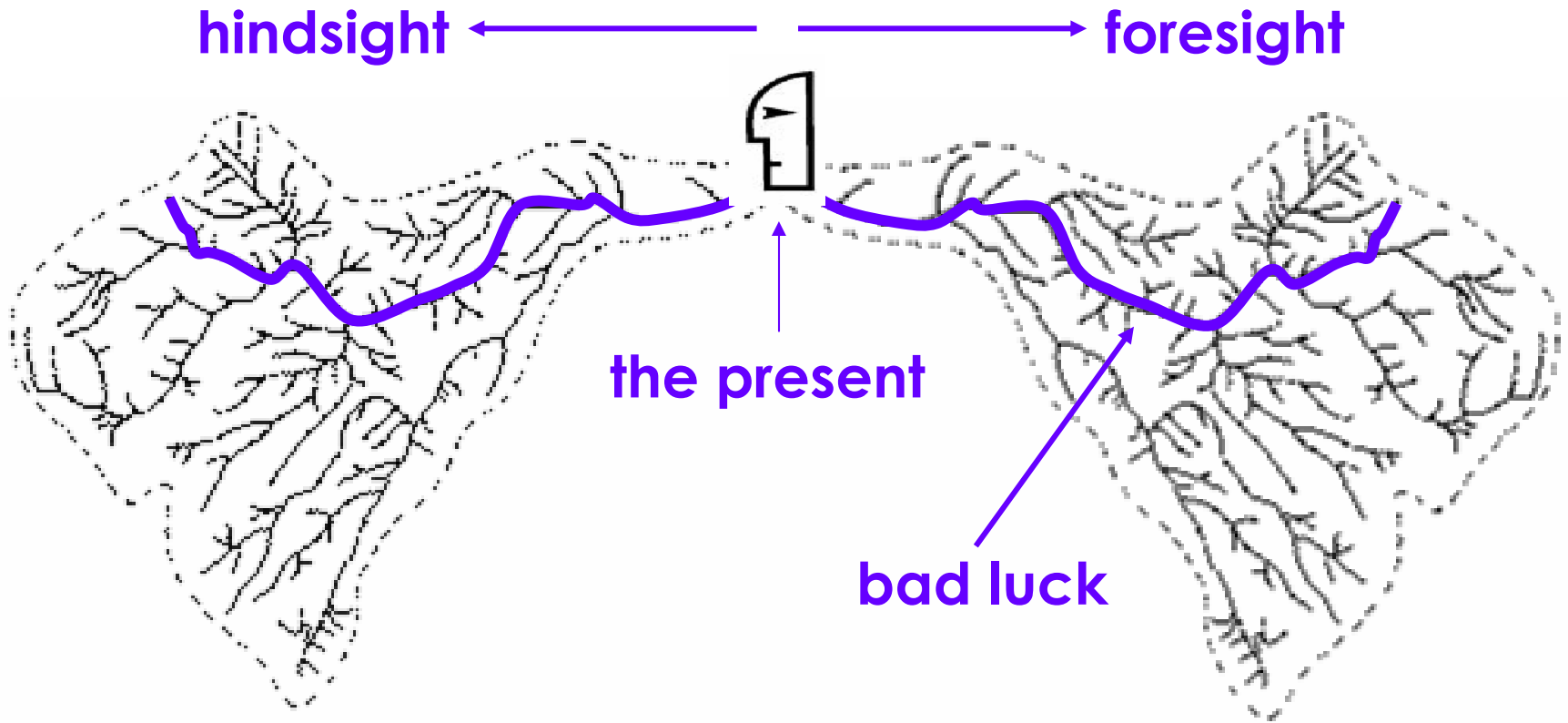


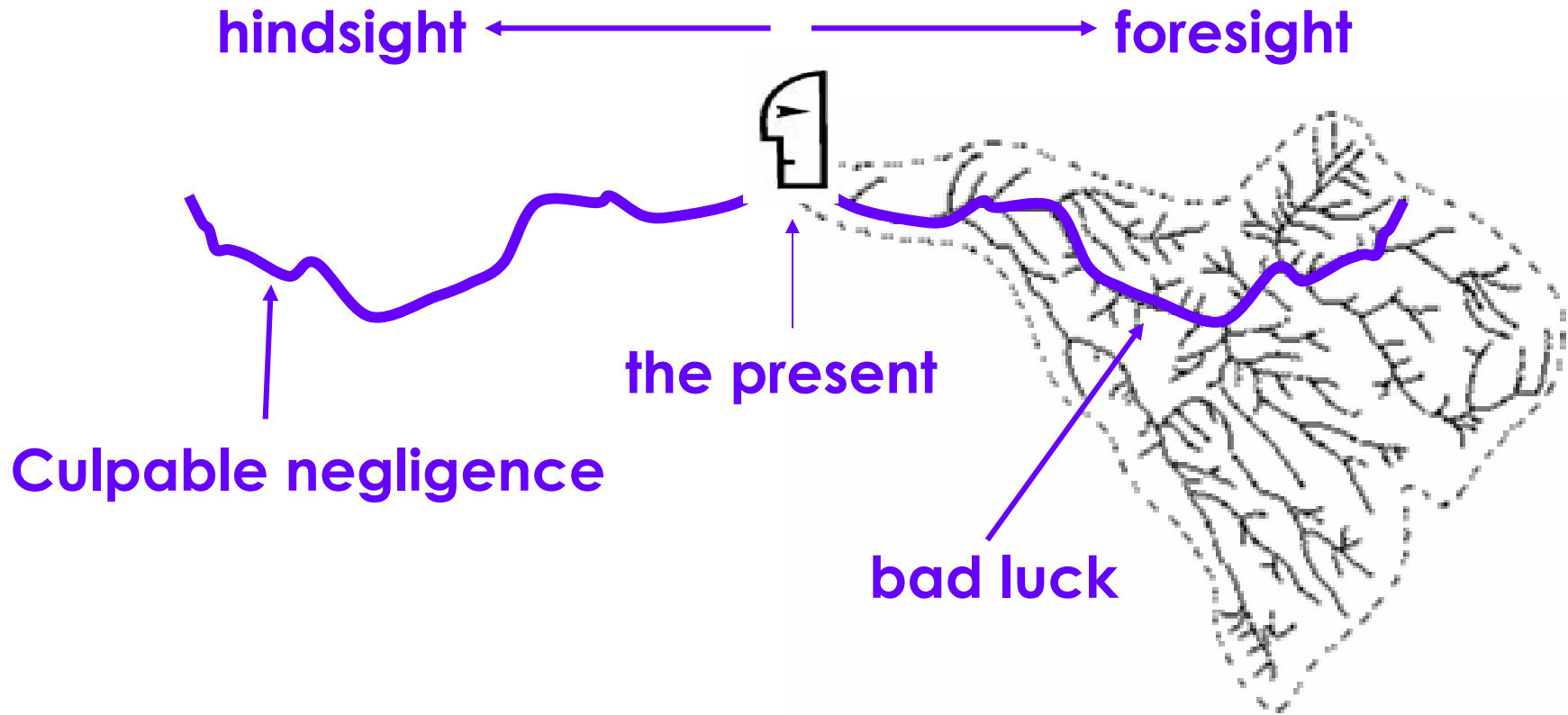


foresight

the present

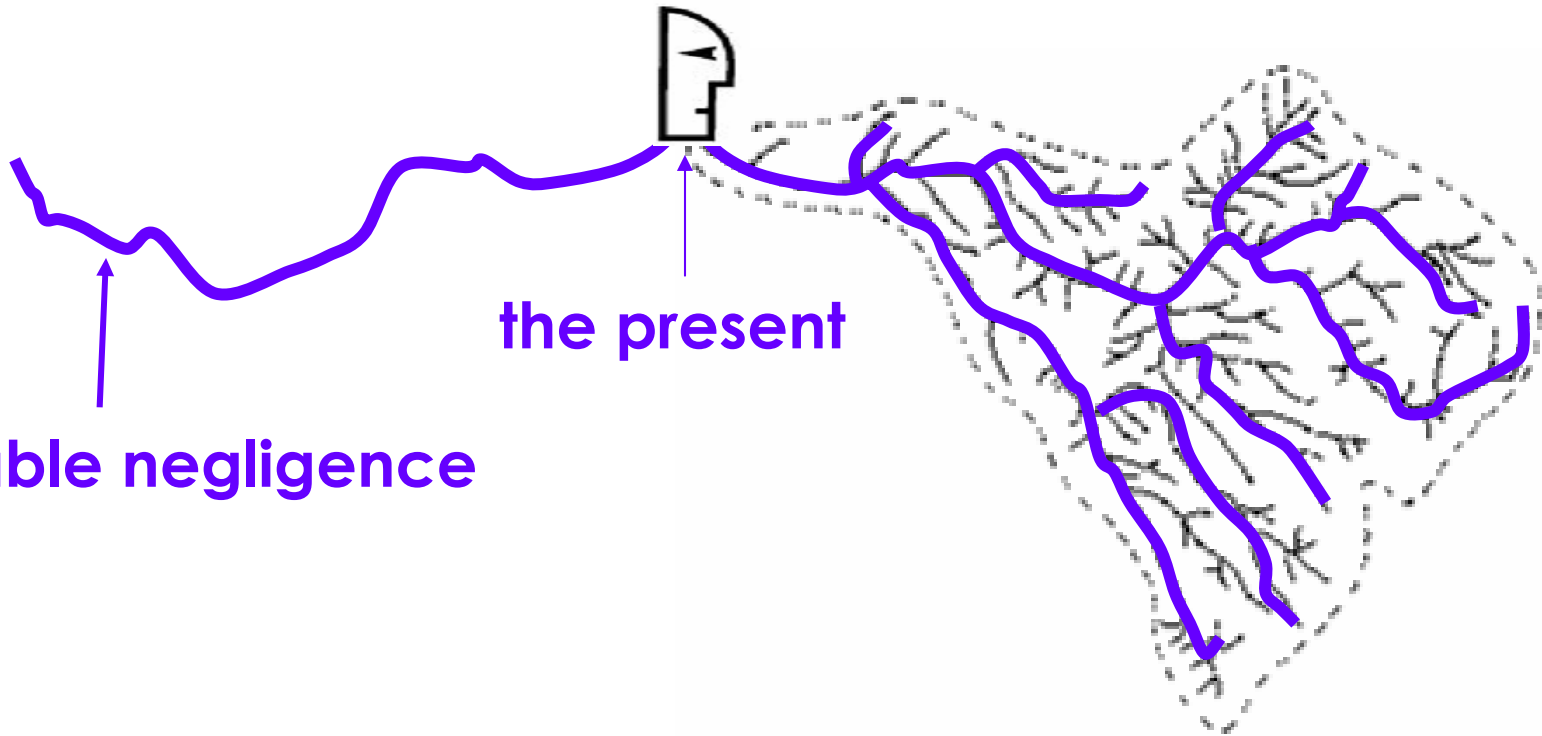
bad luck





hindsight

risk assessment



the present

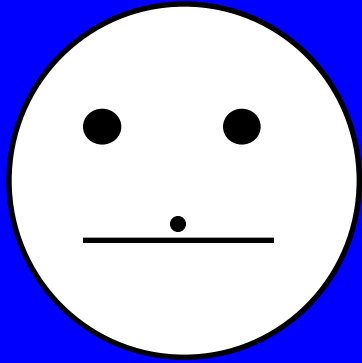
Culpable negligence

No children

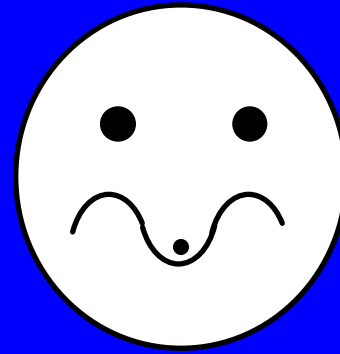


“The swings are packed away at night because kids might climb the fence and use them unsupervised and hurt themselves.”

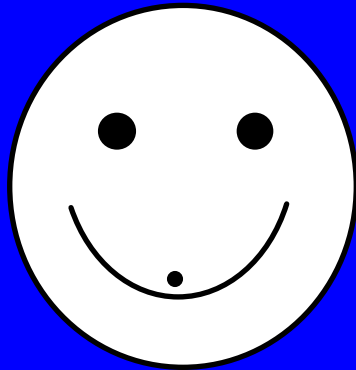
The Public



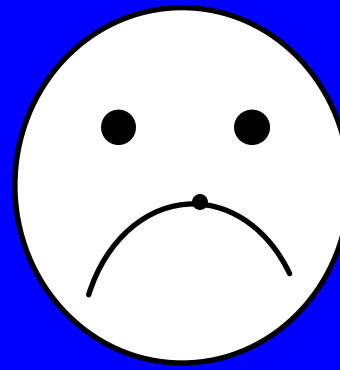
Fatalist



Hierarchist

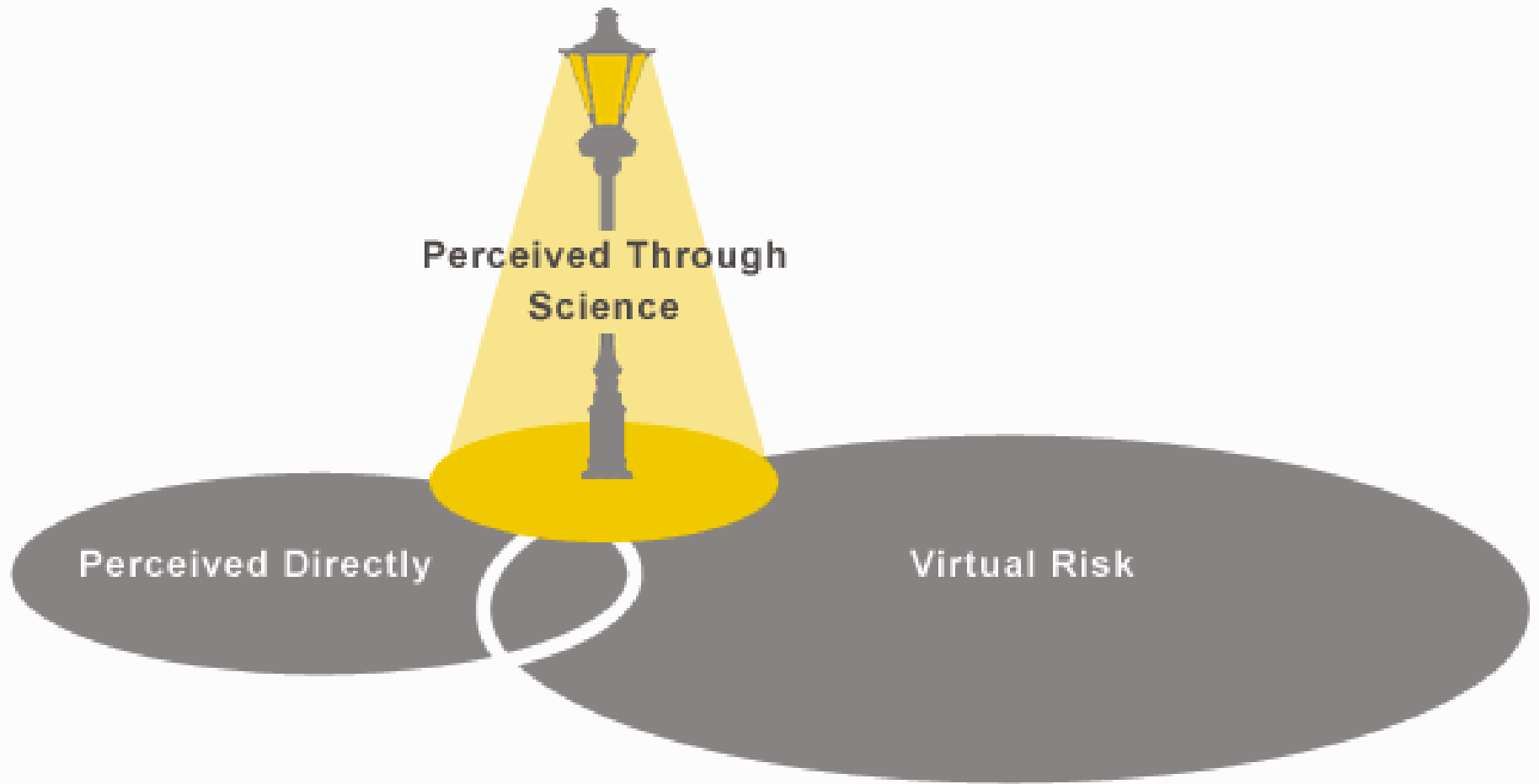


Individualist



Egalitarian

Risk management: where are the keys?



Risk management



The precautionary principle allied to a vivid imagination can bankrupt any government.