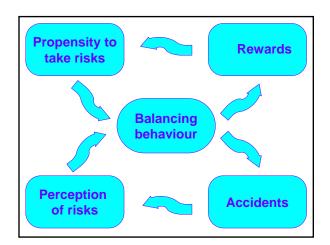
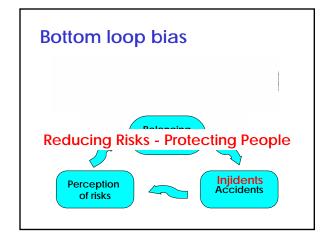


A successful risk manager Risk management is a balancing act instinctive intuitive modified by culture

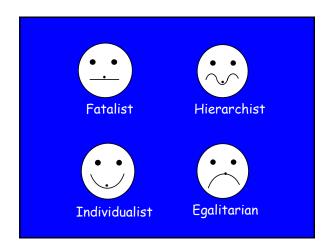


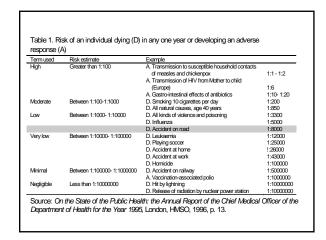




Risk perceived through science the role of the Royal Statistical society

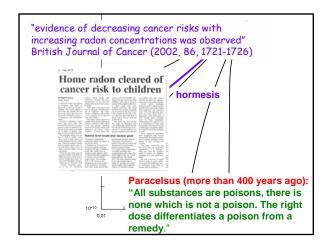
- "a Richter scale for risk would involve taking a series of common situations of varying risk to which people can relate" (DoT)
- "a simple measure of risk that people can use as a basis for decision making" (RSS)

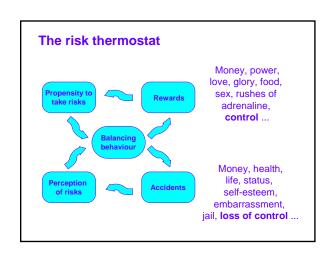


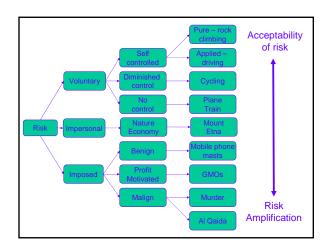


A Richter Scale for Risk? Risk of an individual dying in any one year as a result of a road accident = 1:8000 (On the State of the Public Health 1995) = 1:16000 (Road Accidents Great Britain 1995) Personality disorder Young male vs middle-aged female vs normal 100 X 134 X 10 X 2 680 000 20 3am Sunday vs 2.5 times over 10am Sunday limit vs sober

I exaggerate
the four variables are not independent;
there are more disturbed drunken young men on
the road at 3am Sunday
or do I?
the four numbers in the equation are all averages.
Further variables must be invoked to account for
their variances,
is the car
big X new X equipped with ABS brakes X insured
...?
is the road
slippery X well-lit X straight ...?
is the driver
sleepy X angry X on drugs X short-sighted ...?



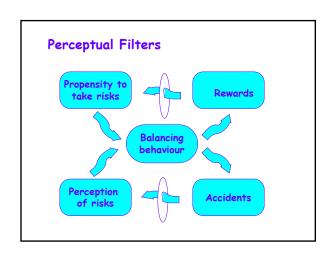


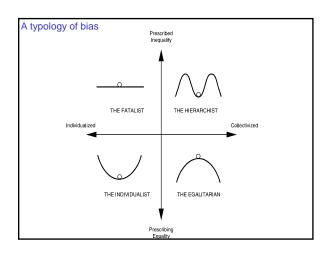


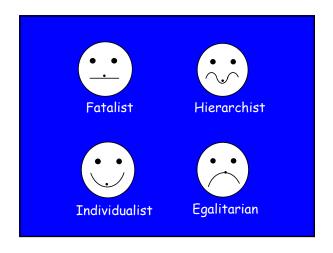
A virtual risk: vCJD from BSE?

"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









Egalitarian

- Feeding dead sheep to cattle, or dead cattle to sheep, is "unatural" and "perverted".
- "It is the full story of the beginnings of an apocalyptic phenomenon."
- "Great epidemics are warning signs, symptoms of disease in society itself."



Individualist

- "The precautionary principle is favoured by environmental extremists and health fanatics. They feed off the lack of scientific evidence and use it to promote fear of the unknown."
- "It is clear to all of us who believe in the invisible hand of the market place that interference by the calamity-promoting pushers of the precautionary principle is not only hurtful but unnecessary."



Hierarchist

- "We require public policy to be in the hands of elected politicians. Passing responsibility to scientists can only undermine confidence in politics and science."
- "I have not got a scientific opinion worth listening to. My job is simply to make certain that the evidence is drawn to the attention of the public and the Government does what we are told is necessary."

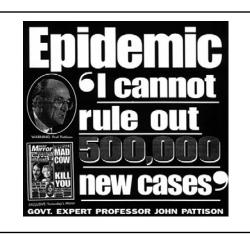




Fatalist

"They should shoot the scientists, not cull the calves. Nobody seems to know what is going on."

"Charles won't pay for Diana's briefs"
 Main headline in The Sun on 21.3.96,
 the day every other newspaper in the country led with the BSE story



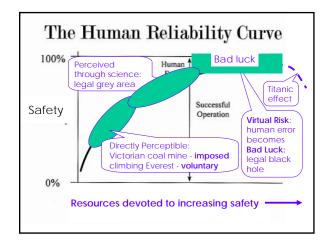
| | RALS OF | | DEATHS | OF DEFI | NITE AND | PROBA | BLE CJD | |
|------|---------------|------|--------------|----------------|----------|-------|---------|-----------------|
| Year | Referral s | Year | Sporadi c | latroge nic | Familial | GSS | vCJD | Total Deaths |
| 1990 | [53] | 1990 | 28 | 5 | 0 | 0 | - | 33 |
| 1991 | 75 | 1991 | 32 | 1 | 3 | 0 | - | 36 |
| 1992 | 96 | 1992 | 45 | 2 | 5 | 1 | - | 53 |
| 1993 | 78 | 1993 | 37 | 4 | 3 | 2 | - | 46 |
| 1994 | 118 | 1994 | 53 | 1 | 4 | 3 | - | 61 |
| 1995 | 87 | 1995 | 35 | 4 | 2 | 3 | 3 | 47 |
| 1996 | 133 | 1996 | 40 | 4 | 2 | 4 | 10 | 60 |
| 1997 | 162 | 1997 | 60 | 6 | 4 | 1 | 10 | 81 |
| 1998 | 154 | 1998 | 63 | 3 | 3 | 2 | 18 | 89 |
| 1999 | 170 | 1999 | 62 | 6 | 2 | 0 | 15 | 85 |
| 2000 | 178 | 2000 | 50 | 1 | 2 | 1 | 28 | 82 |
| 2001 | 179 | 2001 | 58 | 4 | 3 | 2 | 20 | 87 |
| 2002 | 163 | 2002 | 72 | 0 | 4 | 1 | 17 | 94 |
| 2003 | 162 | 2003 | 77 | 5 | 4 | 2 | 18 | 106 |
| 0004 | | 0004 | | _ | _ | | | |

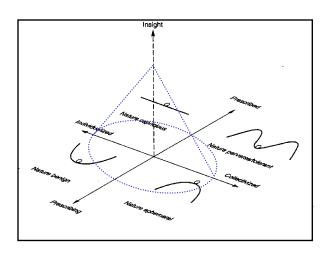
| Number of Deaths | | | | | | | | |
|-----------------------|--------------|---------------------------------------|--|--|--|--|--|--|
| <u>Time</u> | <u>World</u> | <u>UK</u> | | | | | | |
| Year | 54,997,000 | 612,000 UK – vCJD 8.3 | | | | | | |
| Month | 4,583,000 | 51,000 | | | | | | |
| Week | 1,058,000 | 11,737 | | | | | | |
| Day | 151,090 | 1,677 | | | | | | |
| <i>Hour</i> Minute | 6,300 105 | 70 Sars – Global 774 1.2 UK - 0 | | | | | | |



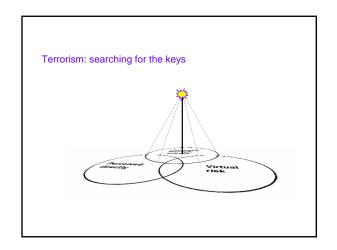
Creutzfeldt-Jacob Disease Surveillance in the UK 8th Annual Report 1999 (published November 2000)

- · Over the last 13 years 108 confirmed cases of vCJD, plus 43 "probable"
- "Statistical analysis has provided no evidence ... that the rate of occurrence of new cases (of vCJD) has increased with time since 1994."
- "We have found no evidence of any dietary, iatrogenic or occupational risk for vCJD."





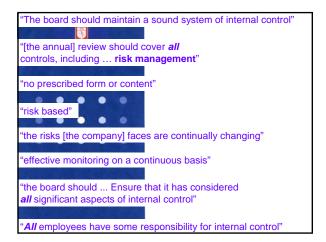
Managing risk:
it's not rocket science
it's more complicated



Compulsive Risk Assessment Disorder

psychosis - a severe mental disorder in which contact with reality is lost or highly distorted.

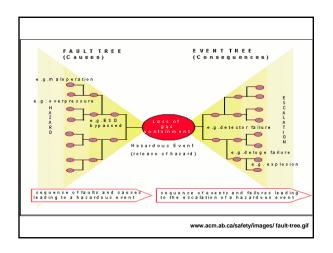
Compulsive Risk Assessment Psychosis

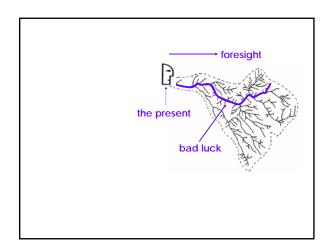


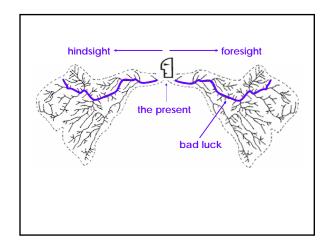


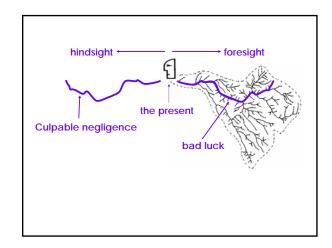


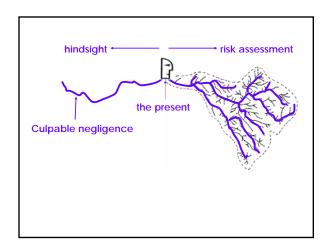




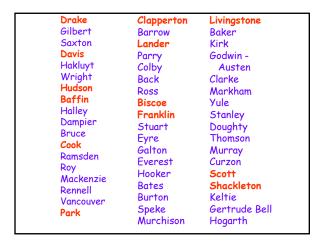




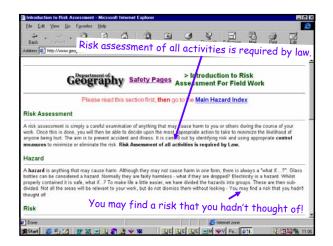


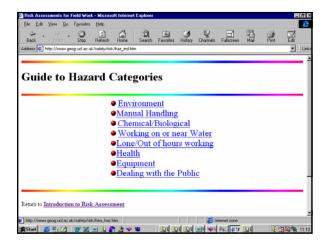


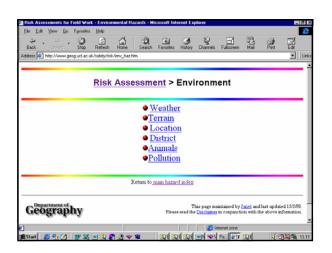
| Drake Gilbert Saxton Davis Hakluyt Wright Hudson Baffin Halley Dampier Bruce Cook Ramsden | Clapperton Barrow Lander Parry Colby Back Ross Biscoe Franklin Stuart Eyre Galton Fverest | Livingstone Baker Kirk Godwin - Austen Clarke Markham Yule Stanley Doughty Thomson Murray Curzon |
|---|---|--|
| Dampier Bruce <i>C</i> ook | Franklin Stuart Eyre | Stanley Doughty Thomson Murray |

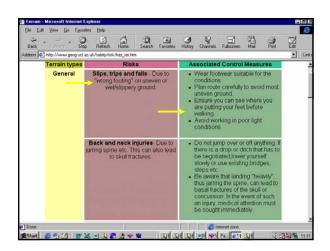


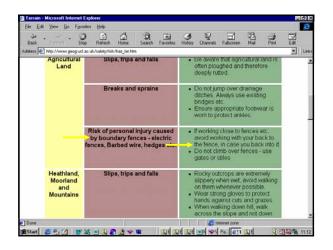


















Prime Minister's speech to IPPR, 26 May 2005

I call [for] a sensible debate about risk in public policy making. In my view, we are in danger of having a wholly disproportionate attitude to the risks we should expect to run as a normal part of life. This is putting pressure on policy-making, not just in Government but in regulatory bodies, on local government, public services, in Europe and across parts of the private sector - to act to eliminate risk in a way that is out of all proportion to the potential damage. The result is a plethora of rules, guidelines, responses to 'scandals' of one nature or another that ends up having utterly perverse consequences.

- 1. Handling risk should be **firmly embedded** in government's policy making, planning and delivery.
- 2. Government's capacity to handle strategic risks should be **enhanced**.
- 3. Risk handling should be supported by **good practice**, guidance and skills development.
- 4. Departments and agencies should make earning and maintaining public trust a priority when dealing with risks to the public.
- 5. Ministers and senior officials should take a clear lead in improving risk handling.
- 6. The quality of government risk management should be **improved** through a two-year programme of change, linked to the Spending Review timetable, and clearly set in the context of public sector reform.

HERS AND CONDITIONS FOR VISITING SPEAKERS/CONSIST

CMPS' means the Centre for Management and Policy Studies, Cabinet Office.
The Contractor' is the person who by contract undertakes to render services for CMPS.

3. The Centract' a the letter confirming in willing the agreement between CMPS and Contractor.
4. The Fee' as described in the Contract Letter means the price exclusive of Value Added Tax (VAT), payable to the Contractor by CMPS for the full and prope performance by the Contractor for higher part of the Contract. In addition have and substitute on may be claimed where applicable and agreed beforehand.

Investment Substitutions

5. Reasonable havel expenses will be relanded and the conditions are stated in the Contract Letter theil. CMPS may return an invoice for adjustment if taxif fare

Charges represent for substations about to supposed with CASP before the expenses are incurred.

J. If If a signed first in excession of the CASP contractor is stay to everying accommodation, the bill should be paid in full by the Contractor on departure. The Contractor may be not charged CASP for them contract may be not extended to the contractor is stayed as expenses such as phone coult, items, dinks and, under not be refurded. A copy of the bill should be a statished to the Contractor's review for reference. The one's expenses to extend to the paid in a feet and of CASP state review one revices from the contractor is review for reference. The one's exception to everal a feature plat for a feet and of CASP state review one revices from the

8. Any weighten of any provision of the Contract must be effected in willing by CMPs. In the event of any change or cancellation of the Programme or event CMPs will give the longest profiles entrois. No cancellation few will be paid if a event or many or the Programme or event is cancelled at thorter notice than this their consideration will be given to any claim for actual expression incurred by the consideration.
If the Contractor to body deferred CMPs is writing as to any reasons why the Contractor can appeal on a greed.

Interfaces recligationized in the Contactor deployed on work initiating to the Contact must have appropriate qualifications and competence and it all expects to the Contact must have appropriate a self-contact to personal assumptions as the personal approximation of the Contactor and competence and it all expects to the Contractor while the an elementation of acceptability.

11. The Contractor while the air demonstrates steps to evoid changes of personal engined to and acceptable the work under the Contractor while the air demonstration of acceptability.

unwordshible or of a temporary nature caused by sichness sic.

2. To recurstly responsible for control of the c

reference and addressed to the perion specified in the Context letter. Payment will be made within 30 days of receipt and agreement of two loss for work completed to the wathliction of CMPS.

14. Payment may be withheld or reduced by CMPS in the event of unsatifiactory performance.

15. VAL where another is the short repeatable on a first plant of in Protection as a stiff or red dark charges. A VAI number shall be quoted on any invitice where VAT is charged.

Product of Engineer
1.6. Any expenses provided by CAPS for the purpose of the Context-thail remain the property of CAPS and shall only be used for the purpose of carrying out this
Context to be extrand promptly to CAPS on complaint of vice for each or purpose of Carrying
Context to be extrand promptly to CAPS on complaint of vice for expenses (limited for Context.)

The Context or any employee or again of the Context on the context of the Context of the Context of the Context of the property of the Context of the property of the Context of the Product of the Context of

user for whose.

If the control of t

Contracted 22.2 The Contractor will come into contact with Programme participants and clears who are encouraged to discas work issue healy. At official information acquired as a result of the Contract must be impedied in confidential through not be discussed or inentimed in any subsequent publication, speech or sincise when the present or of CAPS, or the present have noted in the Contractor of desired than desired and sequence of the Contractor of the Contra

23. The Contractor shall not communicate with representatives of the general or feotherical press, radio, lateration or other communications media regarding any aspect that Contract utilizes specifically granted permission to do so writing by CMS², total theoretization specifically granted permission for the writing by CMS² and the Contractor shall reflect CMS² is equally of opportunity policy in specific content and after in the lateral contractor shall reflect CMS² is equally of opportunity policy in specific content and after in the lateral contractor shall reflect CMS² is equally of opportunity policy in specific content and after in the lateral contractor shall reflect CMS² is equally of opportunity policy in specific content and after in the lateral contractor.

Contract for Cabinet Office Seminar

TERMS AND CONDITIONS FOR VISITING SPEAKERS/CONSULTANTS

Health and Safety

25. The Contractor shall consider their own health and safety and that of any persons involved with the Contract, such as Programme participants, at all times and not put themselves or others at risk.





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

















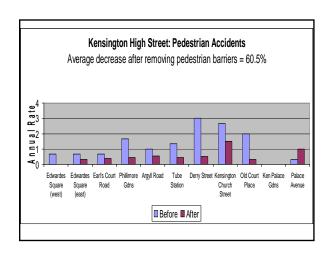


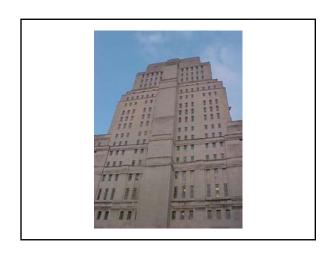










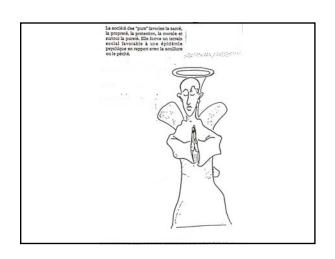






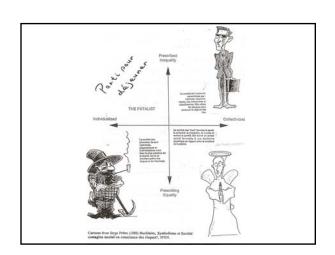


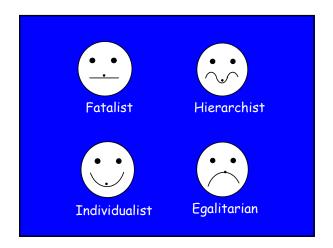












References

www.geog.ucl.ac.uk/~jadams/publish.htm