

Risk perception factors

Two types of risk

- ◆ ■ External risk

- the sources of external risk are nature forces (natural risks)

- ◆ ■ Manufactured risk

- The sources of manufactured risk are man-made objects (mainly technologies)

(Giddens, 2004)

TWO ELEMENTS OF RISK

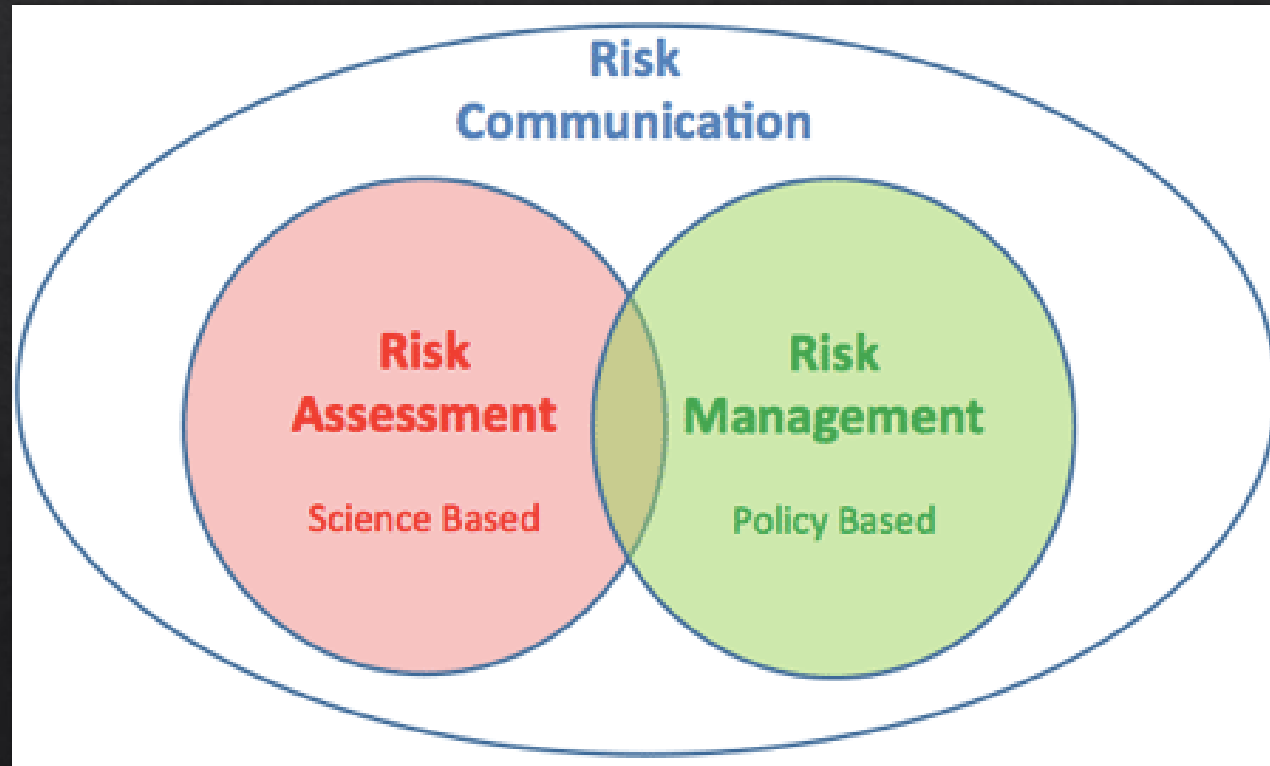
- ◇ Risk implies the possibility of certain outcome
- ◇ Risk implies uncertainty

... Risk is 'a situation or event in which something of human value (including humans themselves) has been put at stake and where the outcome is uncertain.' (Jaeger et

- ◇ al. 2001:17)

Risk management

Objective risk vs. Risk perception



Threat:

Nuclear energy

Automobiles

Smoking

Police work

Planes

X-ray

Electricity

Mountain climbing

Threat: „Women club“

Nuclear energy 1

Automobiles 2

Smoking 3

Police work 5

Planes 4

X-ray 8

Electricity 7

Mountain climbing 6

Threat:	„Women club“	Experts
Nuclear energy	1	7
Automobiles	2	1
Smoking	3	2
Police work	5	6
Planes	4	5
X-ray	8	3
Electricity	7	4
Mountain climbing	6	8

Miller – 458, 459

Ideas about risk:

- **Modern societies:** risk as mathematically calculated probability of undesired consequences of certain event.
- **Post-modern:** risk as a social construct. Risk perception differs depending on:
 - cultural contexts
 - socio – demographic differences
 - proximity of individual living place to risky object
 - level of knowledge about risky technologies
 - role of media (amplification or negation of certain topics on risk)

FACTORS OF RISK PERCEPTION

- a) Psychological
- b) Attributes of technology
- c) Context factors
- d) Structural factors

b) Characteristics, that influence risk perception of technologies

Acceptable risk:

- Voluntary
- Controlled by individual
- Observable
- Useful
- Old risk
- Natural
- Consequences: statistical
- Immediate effect
- Known to science
- Influences adults

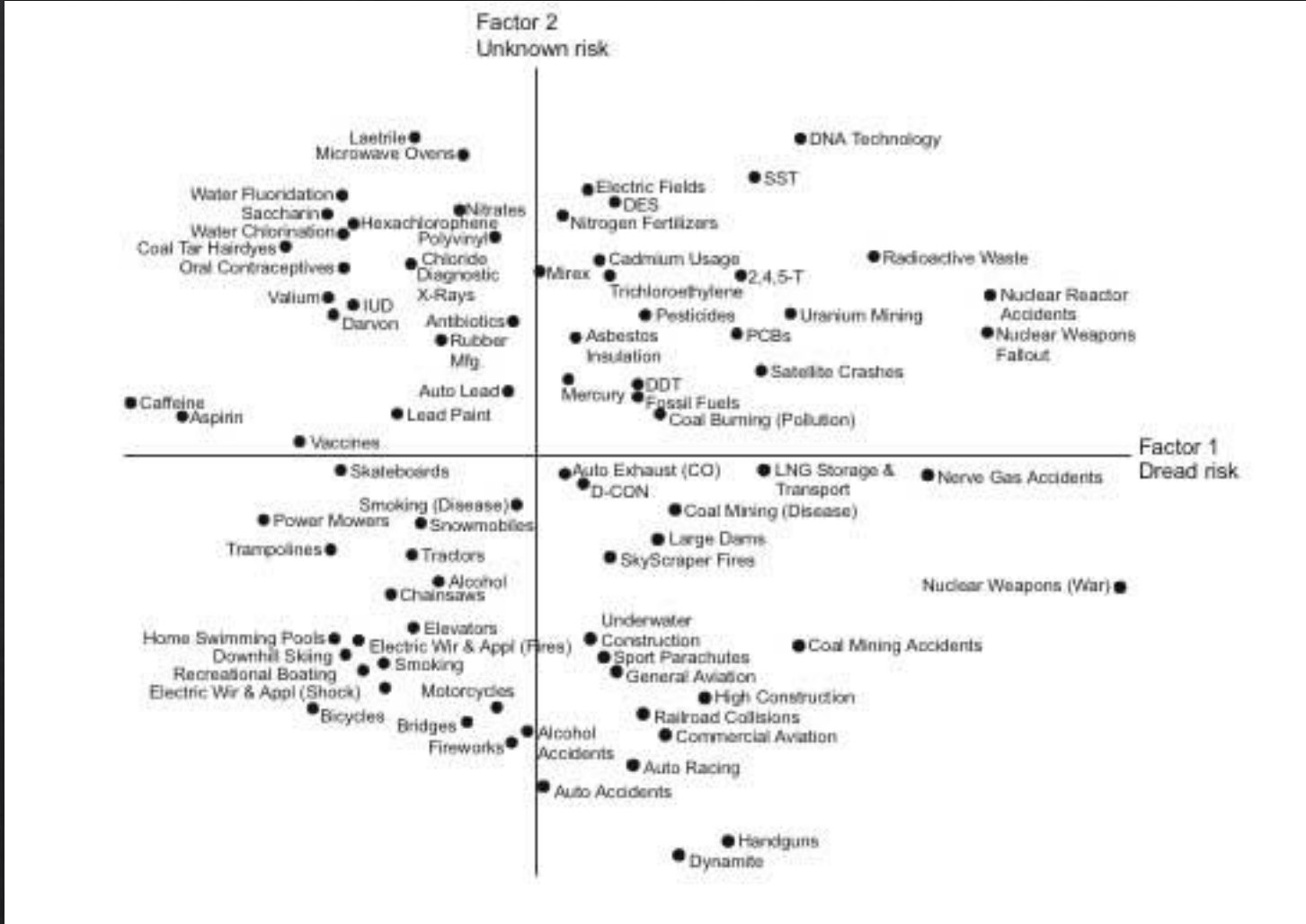
(example - bees, X-rays, car accidents

-<https://nehody.cdv.cz/>

Not acceptable risk:

- involuntary
- controlled by others
- non observable
- not useful
- new risk
- Man-made
- Consequences: catastrophic
- delayed effect
- unknown to Science
- influences children

(example – nuclear power, GMO)



◇ *Final notes:*

„paralysis by analysis“

X

„precautionary principle“ - **“better safe than sorry.”** Even if it is uncertain whether an activity will lead to harm, for example, to the environment or to human health, measures should be taken to prevent harm.