Public confidence and the importance of trust in nuclear regulators the Why, the What and the How

Ray Kemp

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- Member: UK Committee On Medical Aspects of Radiation in the Environment (COMARE)
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- Expert Advisor to IAEA Mission to Fukushima Prefecture on Radioactive Waste Management
- Previously:
- Chair, Radiation Health & Safety Advisory Council, ARPANSA
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- Expert Advisor to WHO on risk communication and EMF

Format of Presentation

- Background
- Influences on perceptions of risk
- Who should we be thinking about?
- What are the issues?
- How can we be more effective?

Risk and risk perception factors – why are people concerned?

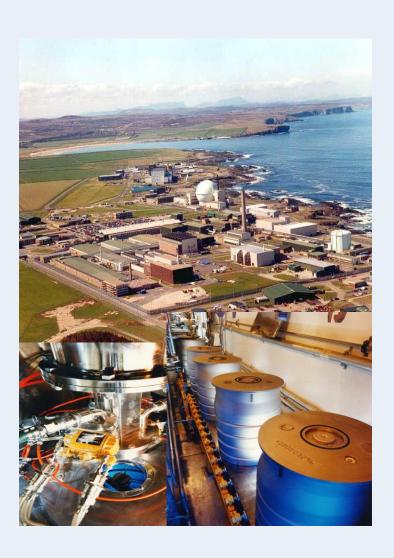
- Fear of Radioactivity and Cancer
- Lack of Knowledge and No Personal Control
- Lack of Trust in Those Responsible
- Risk communication aims to:
 - Establish the communicator as a Trusted source of information
 - Establish means for the effective exchange of information

Risk and risk perception factors – why are people concerned?

Why is trust important?

- People will not accept information from people they do not trust
- Trust hard to earn, easy to lose
- People will place more weight on information that confirms their existing views

What's the issue with radioactivity?



- Concern is to protect present and future generations and the environment in the near and far term
- Scientists disagree in public
- Government advice often not trusted on public health issues
- History of major events TMI, Chernobyl, Fukushima
- History of bad practice
- Secrecy, security and the unseen
- Media and social media attention

The Risk Management Escalator

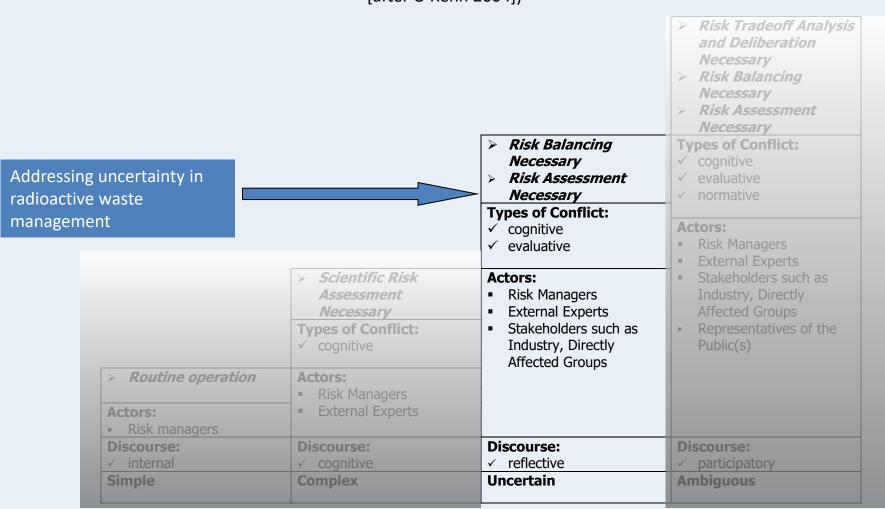
(from simple via complex and uncertain to ambiguous phenomena)¹

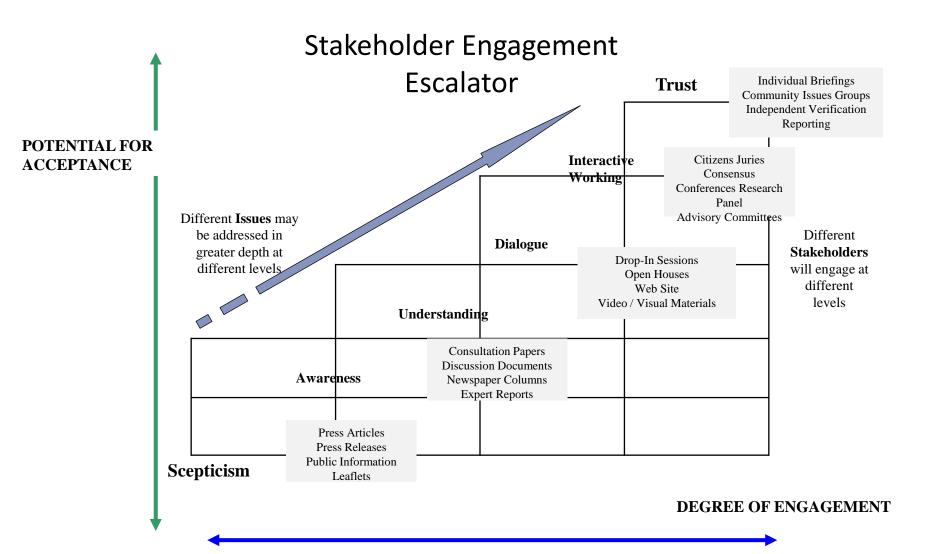
	concepts		 Risk Tradeoff Analysis and Deliberation Necessary Risk Balancing Necessary Risk Assessment Necessary
رموا	W Contested Concepts Stretching Necessary	> Risk Balancing Necessary > Risk Assessment Necessary Types of Conflict:	Types of Conflict: ✓ cognitive ✓ evaluative ✓ normative
Increasing	Stretchine	✓ cognitive ✓ evaluative	Actors: Risk Managers External Experts
	 ➤ Scientific Risk Assessment Necessary Types of Conflict: ✓ cognitive 	Actors: Risk Managers External Experts Stakeholders such as Industry, Directly Affected Groups	 Stakeholders such as Industry, Directly Affected Groups Representatives of the Public(s)
Routine operationActors:Risk managers	Actors: Risk Managers External Experts	Arrected Gloups	
Discourse: ✓ internal	Discourse: ✓ cognitive	Discourse: ✓ reflective	Discourse: ✓ participatory

¹ After Renn, O. 2005. Risk Governance – Towards an Integrative Approach, White Paper No. 1. Geneva: International Risk Governance Council Figure 4 p 59.

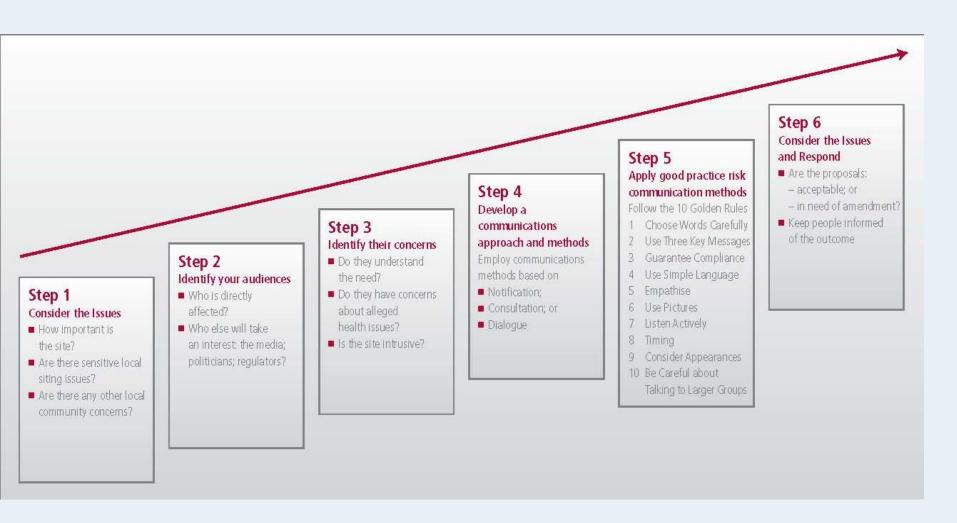
The Risk Management Escalator

(from simple via complex and uncertain to ambiguous phenomena [after O Renn 2004])



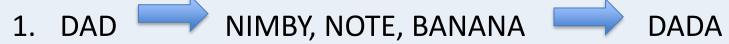


Key steps in applying effective risk communication



Summary Lessons

For many radioactive waste management issues, key lessons from experience are:



- "Abandon" carries significant national social and economic costs with long term negative public, stakeholder and media reactions
- A better approach is to engage openly with your different audiences
- 4. Listen to their concerns and offer a solution
- 5. Manage the process by mitigating the impacts

Planning your risk communication approach

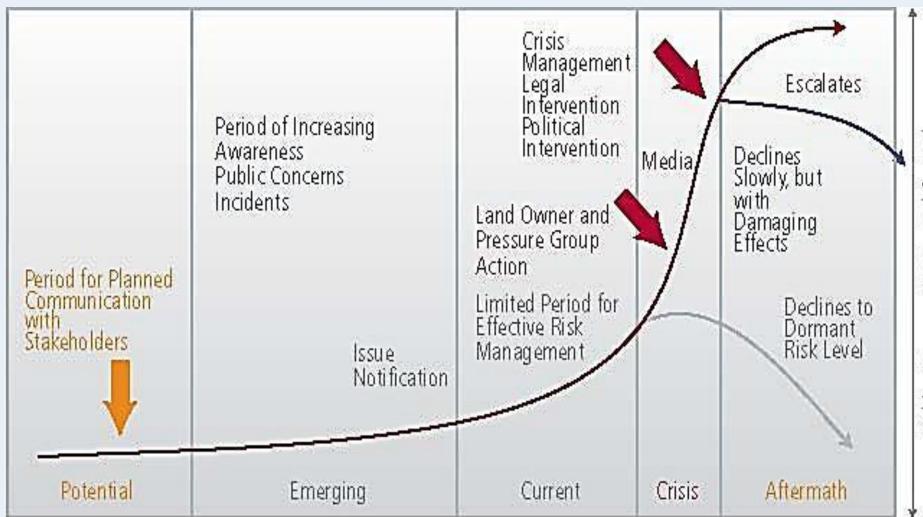
Which is Better?

- Decide
- Announce
- Defend

- Meet
- Offer a Solution
- Mitigate

Public Concern? Potential for Delay

Issues lifecycle and risk communication



Conclusions

- The world has changed trust of scientific information is at an all time low amongst many communities and so the ability to communicate effectively about health and environment issues is more important than ever
- The risk numbers are necessary, but not sufficient risk communication requires transparency and engagement
- It is essential to generate confidence in the management of risk, this requires:
 - corporate governance with appropriate standards, procedures, checks and balances
 - skill, tools and training in effective risk communication
 - consistency, transparency and accountability in addressing uncertainty in a proportionate manner

Ray Kemp's Ten golden rules for effective risk communication

Effective risk communication (1 of 2)

- 1. Risk Communication is about *Process* and *Content*
- 2. It requires Planning, Preparation, Practice.
- Remember the difference between risk management and crisis management – early engagement works!
- 4. Know your audience, empathize with and acknowledge people's concerns
- 5. Guarantee transparency in regulatory compliance

Effective risk communication (2 of 2)

- 6. Use three key messages, choose your words carefully, and use simple language
- 7. Remember a picture is worth a thousand words
- Non-verbal communication is important listen actively; be timely; appearances can be important
- 9. Talking to larger groups of people: *Public* meetings are the least effective forum for dealing with high concern, low trust issues
- 10.Good Governance builds Confidence and Trust

Thank You