<u>Research</u>

Transparency, Citizen Participation, Organisations and Roles

Report from the Third RISCOM II Workshop

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Foreword: **RISCOM II** project overview

RISCOM II is a project within EC's 5:th framework programme. The RISCOM model for transparency was developed earlier within a Pilot Project funded by SKI and SSI. RISCOM II, which is a three-year project, started in November 2000.

Objectives

The overall objective is to support the participating organisations and the European Union in developing transparency in their nuclear waste programmes and means for a greater degree of public participation. Although the focus is on nuclear waste, findings are expected to be relevant for decision making in complex issues in a much wider context.

Description of the work

The project has six Work Packages (WPs). In WP 1, a study is undertaken of issues raised in performance assessment to better understand how factual elements relate to value-laden issues. There is also an analysis made of statements made by the implementers, regulators, municipalities and interest groups during actual EIA and review processes within Europe. In WP 2 an organisation model (VIPLAN) is used to diagnose structural issues affecting transparency in the French, the UK and the Swedish systems. In WP 3 a special meeting format (Team Syntegrity) is used to promote the development of consensus and a "European approach" to public participation.

In WP 4, a range of public participation processes are analysed and a few are selected for experimental testing. A schools web site will lead to greater understanding of how information technology can be utilised to engage citizens in decision making. In WP 5 a hearing format has been developed, that should allow the public to evaluate stakeholders' and experts' arguments and authenticity, without creating an adversarial situation. To facilitate integration of the project results and to provide forums for European added value, two topical workshops and a final workshop have been held during the course of the project (WP 6).

The current workshop report

This workshop was the final one in a series of three workshops within the RISCOM II project. It was an event where the RISCOM group of researchers disseminated the results to a wider circle of the nuclear waste management community in Europe with the focus on their own "peers" in participating countries. However, the aim was not just to present RISCOM II results but also to see them in the context of adjacent projects. Especially, the workshop was set up in co-operation with the NEA Forum on Stakeholder Confidence (FSC) since this was seen as a good opportunity for exchange of experiences between the two activities. There was also participation by representatives from the EC COWAM Concerted Action and one presentation was devoted to this activity. There was thus an opportunity to discuss the three activities together.

The first part of the workshop addressed *Transparency and citizen participation*, the second part dealt with *Outcomes of the RISCOM Project* and the third part dealt with *Organisation and roles*.

Participants in **RISCOM II**

Swedish Nuclear Power Inspectorate, SKI, Sweden (co-ordinator) Swedish Radiation Protection Authority, SSI, Sweden Swedish Nuclear Fuel and Waste Management Co., SKB, Sweden Karinta-Konsult, Sweden Nirex Ltd, UK Environment Agency, UK Galson Sciences, UK Lancaster University, UK Electricité de France, EDF, France Institut de Radioprotection et de Sûreté Nucléaire (IRSN) Posiva Oy, Finland Nuclear Research Institute, Czech Republic Syncho Ltd, UK (sub-contractor)

Project information

The European Community under the Euratom 5:th framework programme supports the RISCOM II project, contract number FIKW-CT-2000-00045.

Magnus Westerlind at SKI is the co-ordinator for RISCOM II.

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October 2003

This report concerns a study which has been conducted for the Swedish Nuclear Power Inspectorate (SKI). The conclusions and viewpoints presented in the report are those of the authors and do not necessarily coincide with those of the SKI.

EC contract FIKW-CT-2000-00045

RISCOM II Workshop No 3

Time: September 10-11, 2003 Venue: Olympik Hotel, Prague

This workshop was the final one in a series of three workshops within the RISCOM II project. It was an event where the RISCOM group of researchers disseminated the results to a wider circle of the nuclear waste management community in Europe with the focus on their own "peers" in participating countries. However, the aim was not just to present RISCOM II results but also to see them in the context of adjacent projects. Especially, the workshop was set up in cooperation with the NEA Forum on Stakeholder Confidence (FSC) since this was seen as a good opportunity for exchange of experiences between the two activities. There was also participation by representatives from the EC COWAM Concerted Action and one presentation was devoted to this activity. There was thus an opportunity to discuss the three activities together. A draft of the RISCOM II Final Report had been made available for workshop participants before the meeting.

The first part of the workshop entitled *Transparency and citizen participation* was moderated by Yves LE BARS, FSC chairman, and president of ANDRA. The second part dealt with *Outcomes of the RISCOM Project* and was moderated by Elizabeth Atherton from UK Nirex. Magnus Westerlind (SKI), the RISCOM II coordinator, moderated the third part that dealt with *Organisation and roles*.

The participants were welcomed to Prague and the workshop by Juri Slovak, Head of the Nuclear Research Institute, Vitezlav Dude from the Radioactive Waste Repository Authority and Ales Laciok, the Nuclear Research Institute representative in RISCOM II. They each gave a short presentation about their work with nuclear waste and stressed the importance of a good dialogue between the different actors involved in the management of nuclear waste.

Also Magnus Westerlind welcomed all to this final workshop. RISCOM II has engaged five different countries and twelve different organisations. Westerlind expressed two wishes for this final workshop, to give everybody an opportunity to share what has been learnt during the past years and to compare the experiences from this project with experiences gained in related projects like COWAM and NEA/FSC.

Kjell Andersson gave an introduction (Appendix 3) to the workshop by giving some facts about RISCOM II. The project, which started in November 2000, has been accomplished by six work packages which by the time of the workshop had produced 14 reports on the web site www.karinta-konsult.se/RISCOM.htm . The Final Report, still to be complemented and improved, will be finalized until December 31. Andersson reminded that participants that projects like RISCOM II, NEA/FSC and COWAM were started as a reaction to problems in the siting of nuclear waste repositories like lack of trust, narrow framing and the need for citizen involvement. In parallel, there have been many initiatives in national programmes, like a new Nirex transparency policy and a new SSI approach to regulatory guidance. The FSC has described about 50 activities world wide aimed at improved communication in radioactive waste programmes.

We should thus by now know how "good" participation processes look like (NEA/FSC), how to organise a transparent process (RISCOM) and what the involved communities want (COWAM). Andersson put the question: Are the lessons learned the same (or complementary) between FSC, RISCOM and COWAM? If yes – the time is now to implement! If no – more research on diverging issues is needed. If we cannot answer, we certainly need more time for more interaction! Concerning the RISCOM Model, some questions that Andersson hoped the workshop would discuss were:

- How important is transparency? Can we specify the link between the RISCOM Model?
 - and criteria for participative processes?
- Can we apply the model?
- Can we communicate the model?

In the following we summarize the talks given at the workshop and the discussions that took place.

Transparency and citizen participation (Moderator: Yves Le Bars)

The RISCOM Model of transparency (Clas-Otto Wene and Raul Espejo)

Clas-Otto Wene and Raul Espejo jointly presented the RISCOM Model (Appendix 4). The model has emerged as an outcome of Habermas' theory of communicative action¹ and Stafford Beer's organisational theory². It offers an approach to increase the chances of an effective democratic process in complex societal decisions. For this purpose it propounds developing communications and interactions to give all participants similar influence and power in the related decision processes.

The model has been described elsewhere and we shall not here go into detail. However, it says that for a decision process to be transparent it must give the opportunity to evaluate three claims of a stakeholder, namely, that his statements are true and right and that he is truthful. The truth requirement relates to "the objective world", and a statement of truth is based on claims of validity. The requirement of rightness means that the statement is legitimate in its social context. The truthfulness requirement means that an actor must be honest - there must be consistency between words and action and no hidden agenda. The "RISCOM triangle" (truth, legitimacy and authenticity) should be applied on different levels of meaningful dialogue which Wene illustrated with the case of the "distrustful geologist" (see Appendix 4).

The key idea in the RISCOM Model is that to achieve transparency there must be appropriate organisational processes ("*transparency loops*") organised in the system of decision-making and implementation through which decision-makers and the public can increase their chances of validating claims of truth, legitimacy and authenticity. In the Final Report five such transparency loops are defined. One of the loops is *stretching*, which means that especially the implementer of a proposed project should be challenged with critical questions raised from different perspectives such as environmental groups, regulators and other stakeholders.

Espejo summarized the studies which has been made on the organisational system in Sweden, UK and France about the prerequisites for transparency in the three countries. He stressed that dialogues need as a context a decision-making process in which all stakeholders satisfy the requirement of an on-going engagement in the decision process. This is one of the requirements for a truly democratic and participative decision process, Espejo meant.

Lessons learned from the NEA/FSC (Vera Sumberova)

Vera Sumberova gave a presentation of lessons learned from the NEA/FSC (Appendix 5). The FSC initiative is to improve the understanding of the principles of stakeholder interaction and public participation in decision-making related to radioactive waste management. This is done by sharing international experience in addressing the societal dimension of radioactive waste management and a wide

¹ Habermas, J. Theorie des kommunikative Handelns, 2 vols, Suhrkamp, Frankfurt, 1981.

² Beer, S. The Heart of Enterprise, Chichester: Wiley, 1979

representation of civil society through workshops held in national contexts with participation of local stakeholders. Efforts are made to understand radioactive waste management issues in the context of recent developments in society by participation of social scientists (experts in community development, strategic decisions, public management etc.).

The main aim of FSC is to explore ways of ensuring effective dialogue with the public and of strengthening confidence in decision-making processes. The FSC will produce a widely agreed upon document on the principles, implications, practices, and issues in involving technical and non-technical stakeholders in long-term waste-management projects ("Outcome document").

FSC alternates between workshops and meetings (one of each per year). Workshops are held at national locations where the dialogue can involve a wide range of stakeholders on a specific project or issue. Such workshops have been held in Turku where the Finnish site selection case was studied, in Ottawa, where Canadian experiences were investigated and in Brussels where the Belgian partnerships were studied. Annual meetings are held in Paris and involve FSC members and invited experts. Among the most important lessons learnt so far by FSC is that:

- The environment for socio-technical decisions including RWM is changing.
- RWM due to long-term nature, uncertainties and emotive nature is not the exclusive domain of technical expertise.
- Wider stakeholder concerns should be addressed at the same level as technical issues.
- Implementation of participatory democracy forms is necessary for construction of shared values and goals leading to agreement and confidence, i.e. to social legitimacy of RWM.
- Trust implies that an individual is willing to give up a certain measure of control of another person. Trust must be given in order to make it possible to receive it.
- The decision-making process should embody competing social values, while approaches to achieve this may change over time.
- The programme should provide sufficient time, resources and commitment for meaningful involvement of stakeholders.
- Regulator involvement is needed and is achievable without compromising integrity, independence and credibility.

The FSC has been recognized as a forum for mutual exchanges, mutual respect and learning. It is a unique standing forum where technicians, civil servants, social scientists and other stakeholders can interact.

Yves Le Bars, chairman of FSC, stressed the importance of at stepwise approach with defined steps and the importance of the management of the process. It is important that the actors have well defined roles and legitimacy in the process. A stepwise process is required to fit the national and local processes together.

A municipality perspective - The COWAM project (Harald Åhagen)

Harald Åhagen, being a participant in COWAM representing Oskarshamn, gave a municipality perspective of the project, which is a Concert Action within the EC research programme (Appendix 6).

There is a need for mutual trust between the implementer, national authorities and the local communities and a need to address the local perspective and increase the local influence. The observed deficit in the networking of local actors in NWM at a European level was one of reasons to launching COWAM.

COWAM is a three year programme in Europe with 4 seminars hosted by local communities - Oskarshamn (Sweden, October 2001), Verdun (Bure, France, March 2002), Fürigen (Switzerland, September 2002) and Cordoba (Spain, March 2003). There had thus been good conditions for local actors to participate actively and to bring their views and concerns into the work.

It is important to recognise that while safety remains a paramount criterion, voluntary and free participation are criteria of quality in the decision-making process. A safe solution is not safe until it is accepted safe by the public!

The COWAM project has emphasised that is takes time "to do it right" from the beginning and that a restart of a process e.g. for site selection can take decades. One should bring in the social science aspects early and be prepared to use innovative methods. There needs to be an open dialogue, the official stakeholders must listen to the local level and adjust according to changing needs. Furthermore, local decision makers and the public must work hand in hand. Another COWAM finding is that it is more comfortable for local communities having a veto right to participate effectively in a site selection process

The COWAM project has functioned well as a neutral arena for reflections on national aspects without confrontation. It is the first project where all parties have participated with a local majority. Local contacts have provided tools to reflect and improve the work at home. Finally, competence building, to which COWAM has contributed, gives self confidence and is the key to local participation rather than confrontation.

Åhagen meant that it is important to maintain and develop an open exchange between national and local parties and to develop the EIA as a participative tool. It makes it possible for all parties to develop and agree on the basis for decision-making while decisions are taken separately by each party. R&D and experience has provided models and tools to improve decision-making with public participation and transparency. Åhagen stressed that we should use them in the ongoing programmes and share the best practises and that this is more important than more "RISCOM and COWAM"! Yves Le Bars complemented the presentation by emphasising that COWAM is a unique forum gathering a large variety of stakeholders and that it has been a source for cultural exchanges particularly outside the group of operators. The project has helped enforcement of dialogue within each country, particularly when hosting the annual meetings. Le Bars also acknowledged that operators know from COWAM to respect the roles of other actors and that NWM is a multigenerational process that needs to take into account the coming generations.

A final COWAM report is to be produced during the second half of 2003 and it will be available at the COWAM web site.

Discussion: Expectations on participation - Transparency and/or consensus building

Three different projects have been described; RISCOM, FSC and COWAM. They are all three focused on questions dealing with meetings with the public and public participation in decision-making processes. As an outset for the discussion, Mr Le Bars suggested that it would be interesting to hear comments about if the lessons learned between RISCOM, COWAM and FSC are complementary.

During the discussion a number of observations were made regarding the three projects. It was stated that they are quite different in approach and therefore complement each other. RISCOM is more theoretical and COWAM gives practical examples concerning the needs of local communities. FSC has been set up more by implementers and regulators but turns toward social sciences and local representatives to understand different perspectives. Implementers, regulators, researchers, local politicians and local groups all give their points of view - not only official stakeholders.

RISCOM has a broad way of looking at NWM programmes and COWAM and FSC indicate that it is necessary to base the RISCOM model on more substance. COWAM shows what we should do to make NWM work better in the future and RISCOM provides a methodology for how that can be done. COWAM is an interesting and successful approach in understanding the role of local actors and RISCOM gives systems understanding regarding decision-making.

All the three projects deal somehow with citizen participation and different models of democracy. The importance of using already existing democratic models was emphasised. It is not necessary to find special solutions for special problems but instead we should look at wider democratic solutions. One particular aspect of this is the relation between transparency and consensus. Sometimes there are expectations that our projects and participation will lead to consensus. Experiences from Sweden have shown that transparency and awareness can lead to consensus under certain circumstances, however, this is not necessarily so. Transparency can also lead to more conflict since it will make different value systems more visible. From the RISCOM project point of view, however, the argument would be that transparency should come first, then there needs to be a functioning democratic system to deal with different values. It was also remarked that social scientists can help us understand the processes in which we are involved. One of the conclusions in the presentation by Åhagen was reiterated: until a safe solution is recognised as safe by the public- it is not safe!

The need for better explanations of the RISCOM Model was discussed "in order to be transparent ourselves". The substance in the RISCOM model can hardly be consumed by those that are working with the issue on a daily basis. Practical examples are needed

so that the model can be consumed and used as a method. There may be a need to simplify the theoretical model, however, theory also gives sustainable structure to organise information on how different processes work.

It was also remarked that perhaps it is not necessary to explain the model so much in detail. In fact, if we apply the RISCOM principles to the model itself, the need for technical explanation is reduced if we are authentic in our goals to use the model. Actually this is what happened in the Tierp municipality when there was a seminar arranged with the public about the RISCOM Model. It is apparent that you don't need to completely understand the model to be helped by it. And after all, the model is "validated" if it gives support in the design of decision-making processes.

Finally there was agreement that the lessons learned in the three projects are similar, that it is important to apply the methods they offer and that interactions between the three perspectives will support progress.

Outcomes of the RISCOM Project (Moderator: Elizabeth Atherton)

UK studies on participative processes (Jane Hunt)

Jane Hunt talked about the dialogue experiments held in UK as part of RISCOM II (Appendix 7). The aim was to identify and evaluate different processes and their associated rationales, and to produce recommendations with a particular focus on "institutional stretching". The four experimental processes were called discussion group, future search variation, scenarios workshop and dialogue workshop, and the criteria used in their evaluation were:

- transparency and legitimacy
- equality of access
- openness of framing
- inclusive and "best" knowledge elicited
- deliberative environment
- improvement of trust and understanding
- developing insight and new meaning
- developing sense of shared responsibility and common good
- producing acceptable/tolerable outcomes/decisions

There are 11 reports from this part of the UK work. The discussion and conclusions presented in RISCOM II deliverables 10 and 11 deals with clarity of aims and process, interpersonal dynamics, information, public capacities and attitudes, official stakeholder learning and institutional issues.

The UK dialogues worked with the idea of "stretching" for expanding and developing official stakeholder understanding. However, Hunt concluded that the RISCOM Model was not applicable in the UK context where there is a fluid and dynamic situation in the RWM programme.

The Finnish EIA (Jaana Avolahti)

Jaana Avolahti presented the evaluation made as part of RISCOM II of the interactive (participatory) planning of the Environmental Impact Assessment (EIA) procedure of final disposal in Finland (Appendix 8). The purpose of this study was to collect and analyse the experience from the interactive planning in the EIA and to propose measures to improve the quality of the interaction. The EIA programme, the EIA report, all written statements submitted to the co-ordinating authority, as well as newspaper articles on the subject were analysed using the RISCOM Model and the theory of communicative planning.

It was found that the process hade been successful concerning transparent reporting, high quality arrangements for interaction, good dissemination of information and it was easy to verify citizen's impact on the process.

The most significant shortcoming in Posiva's activity was that the EIA programme initially analysed only a single, basic option of geologic disposal in Finnish bedrock. The lack of arguments for omitting alternative options gave rise to criticism, and the co-ordinating authority, indeed, recommended in its statement on the EIA programme that a general analysis of the alternatives be conducted. Posiva followed the guidance and brought forward the criteria for selecting the alternatives in the final EIA report, applying a disaggregate method of comparison. Another problem was that actually the site was chosen before the EIA process hade been finalised.

The involvement by residents was not as active as Posiva had wished, and it was concluded that NGO representatives could give more energy to the debate. Furthermore, it was also concluded that sufficient participation resources should be ensured for citizens.

The Swedish hearings (Kjell Andersson)

Kjell Andersson (Appendix 9) summarised experiences from the hearings held in Sweden as a component in the review of SKB:s proposal of candidate sites for a spent nuclear fuel repository. The hearings were organised by the SKI and SSI and aimed at complementing the authorities' reviews of SKB's work and plans (called FUD-K). This was the first time the RISCOM Model was used in setting up an event as part of a real decision-making process.

The hearings were designed by a reference group with representatives from the municipalities assisted by a working group set up by SKI. In the design, a systems methodology called TASCOI (the acronym stands for Transformation, Actors, Suppliers, Customers, Owners, Interveners) was used. It is a systemic methodology that clarified what the hearings were supposed to achieve and the roles of different participants in the hearings.

From the point of view of the RISCOM Model, the hearing format was quite successful in several respects such as a high level of involvement, the mental separation of levels of discussion, stretching without a too adversarial set-up, and all questions were given answers. Still, though, the values inherent in the problems were more implicitly than explicitly expressed.

In the further development of hearings in the Swedish radioactive waste programme a number of issues will have to be considered. The now completed hearings were essentially based on the public's questions and concerns. In the future, hearings may also be arranged at an "expert level". It should however be kept in mind that the municipalities are experts on local circumstances and must be involved since the immediate impact of a repository is local.

In conclusion, the RISCOM Model was useful in supporting the hearing design and there are tools available (e.g. TASCOI) that can assist in doing that. The involvement of the actors themselves in the hearing design contributed to the fairness of the entire process.

Discussion: Lessons learned from undertaking dialogues

There was a debate initiated by the statement by Jane Hunt in her presentation that "the RISCOM Model was not applicable in the UK context". Hunt also meant that the public is wrongly defined according to the model. There is a practicable problem that resources are not equally distributed among the different actors involved in the process.

In the UK there is no real process in place, no real policy and no clearly defined responsibilities. The experimental RISCOM processes were going on at the same time as policy discussions were conducted. There were diverging views in the group whether the RISCOM model needs an established organisation for its application or not. For example, in the UK is it difficult to find meaningful levels of discussion as there is not even a disposal method defined. The connection between the lack of long-term decisions and the current handling and regulation of the waste is a problem. The comment was made that perhaps it is difficult to use the model if you don't have the Swedish background, since it is based on Swedish context from the beginning. However, it was also claimed that the Swedish and French experiences show that the model is an instrument that can analyse the prerequisites for transparency that are set by a countries organisational system.

Perhaps this part of the discussion can be summarised as follows: If the organisational structures are in a phase of transformation, as in the UK, the model may instead be used as a supportive tool of analysis of alterative outcomes of the transformation. However, it remains to be shown that the RISCOM Model can be applied to a developing waste management system, in which the system structure is emerging as waste management options are selected, developed, and fulfilled.

The question was asked to Hunt what will be done with the information gathered in her study. When do you know that you have gathered enough information? She answered that the issue is to get a representation of ideas by asking people in focus groups. The focus groups are meant to gathering ideas and questions. When no new information is coming out of the focus groups meetings, then you know you have done enough.

Then there were comments on Finnish case. It was meant that in practice there were parallel processes going on in the site selection, including practical politics. There was a competition between the candidate sites. It was argued that there should be commitment to the process and no decision about the site before the EIA-process is concluded. When applying the RISCOM Model to the Finnish case it is apparent that the process guardian is an important element in the model. There can also be problems when a new process such as EIA is supposed to be integrated into a culture.

The EIA as a process was discussed with the Finnish experiences as background. Apparently, the quality depends on the commitment of the different actors involved. EIA can mean two things; either a legal process or a process conducted according to "best EIA practice". An EIA-process is just as good as its participants wants it to be. The Oskarshamn example shows that one can work with EIA as good practice even if there are not legal requirements. It was also remarked that in Finland, Posiva did much more with the EIA than was required by law. The question was finally raised how the RISCOM model can be applied on different levels. There seemed to be a need to investigate more in depth how the model can help e.g. UK, Canada and France in their strategic discussions.

Organisation and roles (Moderator: Magnus Westerlind)

Organisational prerequisites for transparency (Raul Espejo)

Raul Espejo presented the part of RISCOM II that dealt with organisational prerequisites for transparency (Appendix 10). He explained the Viable System Model (VSM) as part of the RISCOM model which has five "channels for transparency". The model makes apparent that dialogues with stakeholders are not enough to achieve communicative action. Additionally it requires developing communications and interactions as implied by its channels for transparency. This requires:

- Vocal minorities as legitimate representatives of the silent majority.
- Stretched implementers.
- Policy process with "inside and now" checked and balanced by "outside and then" and vice versa.
- Legitimate and fair resources bargaining within the organisational system.
- Authentic and efficient services to customers (part of the "silent majority").

Furthermore, how democratic might be the design of occasional interactions (e.g. dialogues), if external stakeholders cannot maintain over time their engagement in the decision process, they may feel that they are being manipulated by the establishment and that they lack opportunities to influence outcomes. One way to avoid this is to organise "orthogonal communications" in which participants in the on-going dialogues and negotiations monitor each others' activities to confirm the legitimacy, authenticity and truth of the other's claims.

The expert role (Stéphane Chataignier)

Stéphane Chataignier gave a presentation about dialogues between experts and public based on two studies in France (Appendix 11):

- Meetings between specialists and non specialists about safety of radioactive waste disposal.
- Understanding rejection by the population of consultation for the siting of a second laboratory in France.

The differences one can see on positions are not between experts (specialists and non specialists) and non experts (local population rejecting the consultation) but between nuclear experts (specialists on radioactive waste management) on one hand, and non nuclear experts and non experts (non specialists and local population) on the other hand. What non specialists say about public participation during the discussions is more like what the local population says in interviews than what specialists say.

Another result from the French study is that for everybody it is very difficult to imagine dialogue due to different reasons. For nuclear experts, it is because of social resistance against modern technologies. Other people say it is because of the tradition of secrecy used in the nuclear industry. According to them, it was commonly used in the past and still remains today even if the communication of nuclear institutions has changed.

Nuclear waste is not a political issue like others but people do not agree about what kind of issue it is. For the nuclear experts, it is a technical issue above all. The discussion should be about risks and long term uncertainties and the experts do believe that science will reduce them. For others, a lot of other dimensions should be discussed, namely nuclear energy and energy consumption.

In the end, expertise is still greatly expected in order to analyse different solutions, compare them and help to decide which one is the best. Furthermore, the expertise has different points of view, coming from engineering, earth and human sciences. Chataignier summarised by stating that we should "make the scientific debate public instead of making the public debate scientific".

The role of safety authorities (Carmen Ruiz Lopez)

Carmen Ruiz Lopez talked about lessons learnt within the FSC concerning the image and role of the regulator in decision-making for RWM (Appendix 12). She gave a picture of societal changes that involve risk management in general and regulators in particular. Changes in modern society demand new forms of risk governance in dealing with hazardous activities, characterized by the involvement of the concerned stakeholders. The scientific and engineering aspects of RWM safety are no longer of exclusive importance. Organisational ability to communicate and to adapt to the new context has emerged as critical contributors to public confidence.

Modern societal demands on risk governance and the widespread adoption of a stepwise approach to decision-making have produced changes in the image and role of regulators. Legal instruments reflect and encourage a new set of behaviours and a new understanding of how regulators may serve the public interest. To be fully effective in carrying out their mission, regulators need not only to be independent, competent and reliable, but they should also strive to achieve the confidence and earn the trust of stakeholders and the public at large.

Successful experiences in facility siting have shown that active regulatory involvement is needed, and also possible without endangering the independence and integrity of regulatory authorities. Ideally, the regulators should be seen as "guarantors" of safety and the "peoples' expert", acting as an accessible resource to stakeholders addressing their safety concerns. Regulator's role should be one of collaboration, acting proactively on the side of municipalities. The objective is not to gain public acceptance of a project but to build up the regulator's credibility and gain public confidence to provide national and local decision makers with the necessary information on safety matters.

Discussion: Organisational issues that affect transparency and participation

The major theme in this concluding discussion was the role of the "process guardian" and who that could be. Ideally, it was said, a process guardian should have capacity, resources and trust and be outside the system, however, this is rarely the case. In Sweden, SKI and SSI has this role on the national level, and on the local level the Oskarshamn municipality functions as guardian. It was said that a regulator can be guardian even if he is part of the system. In any case he has to earn trust from the organised civil society in order to be legitimate. In practice, a process may contain many guardians depending on where in the process one is.

There was also the opinion that it can be damaging to participants to have a very external body overseeing consultations. Normally, the guardians of processes are internal actors and part of the process having insight enough to have an opinion about it.

One particular aspect of the RISCOM organisational study was brought up, namely the view that SKB is described as having an ambiguous role, being both an industrial enterprise and the organisation responsible for managing the waste. Why the Swedish system has a weak identity is because SKB is driven by commercial ethics and the handling of nuclear waste is of public interest, it was said. In this case commercial interests are in conflict with public interests, which mean it becomes a societal problem.

This reasoning can lead to the conclusion that SKB should better be part of government. It was remarked that the fact that SKB is separated from the government gives the company a strong identity as opposite from what is said in the report, which claims that the Swedish system has a weak identity. The US example was referred to as case where the waste management organisation is within government but where the results are weak. A system where the responsible organisation is part of government also has the weakness that the role of the regulatory body, which has many key functions as e.g. stretching the implementer, becomes less clear. In Sweden, the regulator and the government take the final decision. The SKB proposals must be good enough, otherwise they will not be licensed. A high integrity of the regulator would be more difficult if SKB was state owned. However, it was also remarked that the relation between the public and the state is not that clear. SKB has to get approval from SKI for its research budget and the allocation of resources is complicated. Finally, it was agreed that the word "ambiguous" for SKB may be changed to "dual" in the final report.

Ales Laciok described the handling of nuclear waste in Czech Republic, which obviously is clear and therefore transparent. There is one regulatory body for nuclear waste safety and radiology and one implementer. There is a nuclear waste fund and a decommissioning account. The waste management strategy is approved by the government. The nuclear act defines the roles of all actors and the EIA Act states the EIA and the SEA processes. There is also an act on local referendum.

Magnus Westerlind ended the workshop by thanking Ales Laciok for arranging the workshop and for the hospitality of his organisation.

Appendices

- 1. Workshop agenda
- 2. List of participants

Copies of overheads

- 3. Introduction to RISCOM II workshop 3 (Kjell Andersson)
- 4. The RISCOM Model of transparency (Clas-Otto Wene and Raul Espejo)
- 5. Lessons learned from the NEA FSC (Vera Sumberova)
- 6. A municipality perspective COWAM project (Harald Åhagen)
- 7. UK studies on participative processes (Jane Hunt)
- 8. The Finnish EIA (Jaana Avolahti)
- 9. The Swedish hearings (Kjell Andersson)
- 10. Organisational prerequisites for transparency (Raul Espejo)
- 11. The expert role (Stéphane Chataignier)
- 12. The role of safety authorities (Carmen Ruiz Lopez)

Appendix 1: Workshop agenda

RISCOM II Final Workshop Olympik Hotel, Prague, 10-11 September, 2003

Wednesday Sep 10

8.30-9.0	Welcoming remarks Introductory remarks What is RISCOM – purpose of worksho	(Ales Laciok) (Magnus Westerlind) op (Kjell Andersson)
Transparency and citizen participation (Moderator: Yves Le Bars)		
9.00-9.30 9.30-10 10-10.30	The RISCOM Model of transparency (Clas-Otto Wene and Raul Espejo) Lessons learned from the NEA FSC (Vera Sumberova) A municipality perspective – The COWAM project (Harald Åhagen)	
10.30-11	Coffee break	
11-12	Discussion : Expectations on participation : Transparency and/or consensus building	
12-1.30	Lunch	
Outcomes of the RISCOM Project (Moderator: Elizabeth Atherton)		
1.30-2 2-2.30 2.30-3	UK studies on participative processes The Finnish EIA The Swedish hearings	(Jane Hunt) (Jaana Avolahti) (Kjell Andersson)
3-3.30	Coffee break	
3.30-5	Discussion: Lessons learned from undertaking dialogues	
Thursday Sept 11		
Organisation and roles (Moderator: Magnus Westerlind)		

- 8.30-9 Organisational prerequisites for transparency (Raul Espejo)
- 9-9.30 The expert role (Stéphane Chataignier)
- 9.30-10 The role of safety authorities (Carmen Ruiz Lopez.)
- 10-10.30 Coffee break
- 10.30-11.30 **Discussion**: Organisational issues that affect transparency and participation
- 11.30-12 Close of Workshop

Appendix 2: List of participants

Czech Republic

Juri Slovak Ales Laciok Vitezlav Dude

Finland

Juhani Vira Jaana Avolahti Matti Kojo

France

Jacques Tamborini Béatrice Hammer Stéphane Chataîgnier Gérard Bruno Francois Besnus Michele Viala

Sweden

Magnus Westerlind Kjell Andersson Josefin Päiviö Christina Lilja Björn Hedberg Björn Strokirk Clas-Otto Wene Ansi Gerhardsson Olof Söderberg Hanna Sofia Johansson Harald Åhagen

United Kingdom

Elisabeth Atherton Roger Yearsley Paula Orr Tim Hicks Jane Hunt Raul Espejo Head, Nuclear Research Institute Nuclear Research Institute Radioactive Waste Repository Authority

Posiva Pohjolan Voima Oy University of Tampere

ANDRA EDF R&D EDF R&D IRSN IRSN IRSN

SKI

Karinta-Konsult SKI SKI SSI SKB Wenergy Ministry of Environment KASAM Göteborg University Oskarshamn municipality

Nirex Ltd Environment Agency Environment Agency Galson Sciences Lancaster University Syncho

OECD/NEA Forum for Stakeholder Confidence

Yves LE BARS Vera Sumberova Carmen Ruiz Lopez

European Commission

Henning von Maravic

FSC chairman, and president of ANDRA FSC and RAWRA (Czech Republic) FSC and Consejo de Seguridad Nulear (Spain)

DG Research

Appendix 3:

Introduction to RISCOM II workshop 3

Kjell Andersson

RISCOM-II Workshop No 3 Prague Sept. 10-11, 2003

Introduction

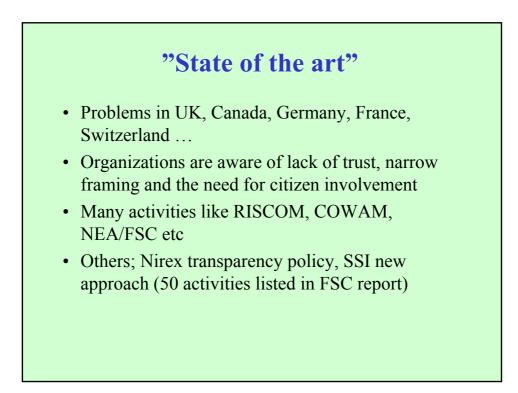
Kjell Andersson

RISCOM-II status

- Started November 1, 2000
- Ends October 31, 2003
- Six work packages
- 14 reports on the web site
 - www.karinta-konsult.se/RISCOM.htm
- two more to come
- Final report: 3rd draft here, still to be complemented and improved

Workshop

- Discuss the RISCOM-II results
- Bring in the context of NEA/FSC
 and COWAM
- Discuss generic issues related to transparency, citizen participation, organisation and roles





Are the lessons learned the same (or complementary) between FSC, RISCOM and COWAM?

If yes – time to implement!

If no – more research on diverging issues

If we can not answer – time for more interaction!

RISCOM questions

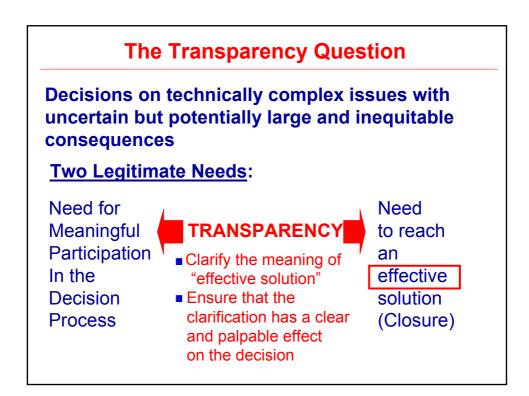
- How important is transparency?
- The link between the RISCOM Model and criteria for participative processes
- Can we apply the model?
- Can we communicate the model? Can it <u>be</u> communicated?

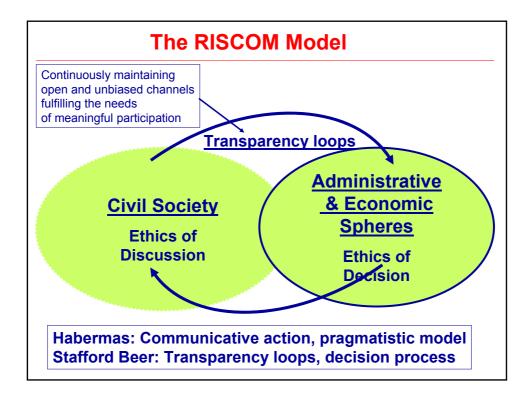
Appendix 4:

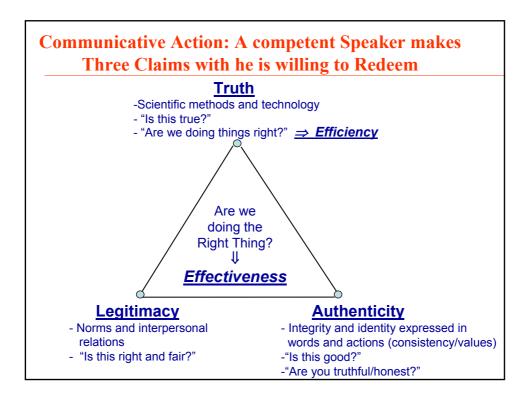
The RISCOM Model of transparency

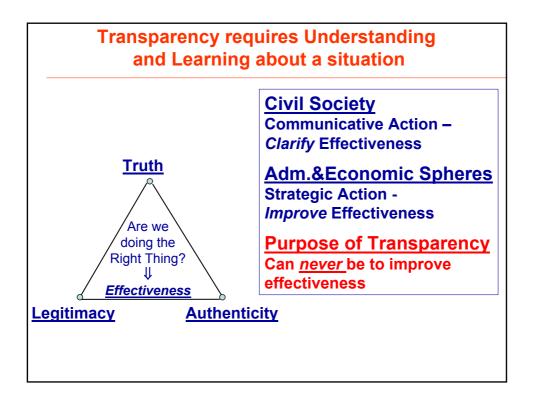
Clas-Otto Wene and Raul Espejo

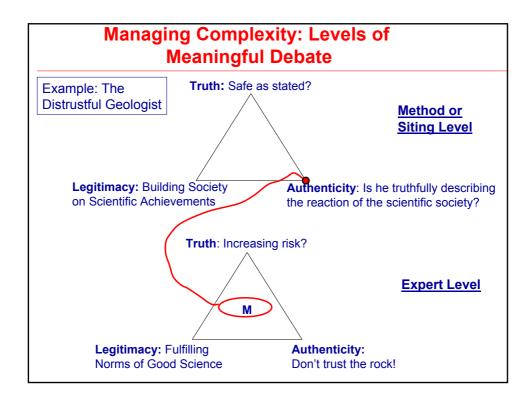






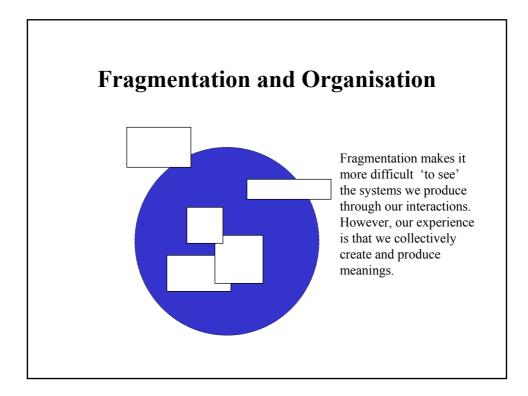






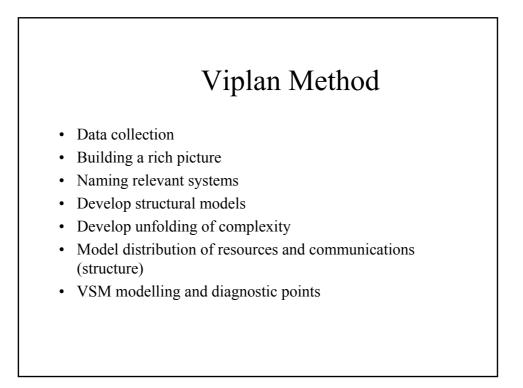
RISCOM Definition of Transparency

In a given policy area, transparency is the outco of an ongoing process that increases the stakehol appreciation of related issues and provides them channels to stretch the implementer to meet their requirements for technical explanations, proof of authenticity, and legitimacy of actions. Transpar requires a regulator to act as guardian of proces integrity.



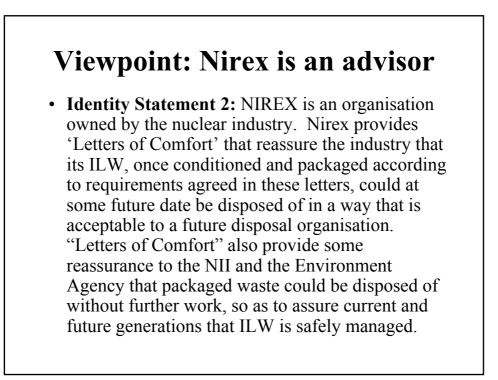
Requisite Organisation

A requisite organisation is one able to create and produce desirable meanings. If the concern is a policy issue, it is critical to understand not only the *creation* of the policy but also the *production* of the meanings entailed by that policy. The concern is *connecting meaning creation with meaning production (the informational with the operational domains).*



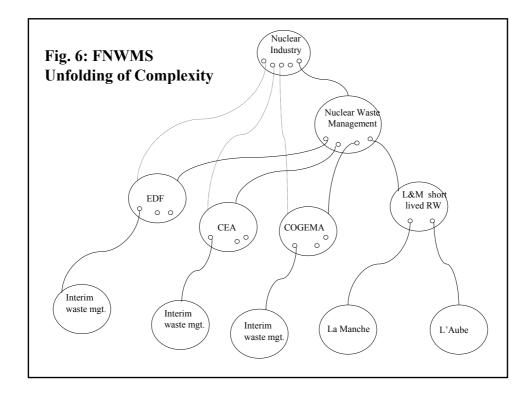
Viewpoint: Nirex is a future waste disposer

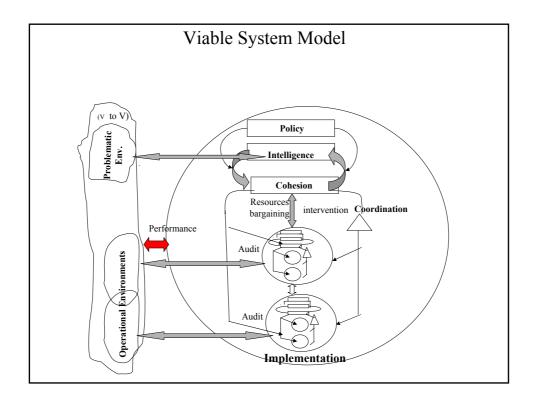
• Identity Statement 1: Nirex is an organisation owned by the nuclear industry that is developing the technological, management and organisational processes for the short and long-term management of ILW by research, organisational development and ensuring that the information system is developed so that it can (in the future) dispose safely of ILW for the industry, for the benefit of current and future generations.

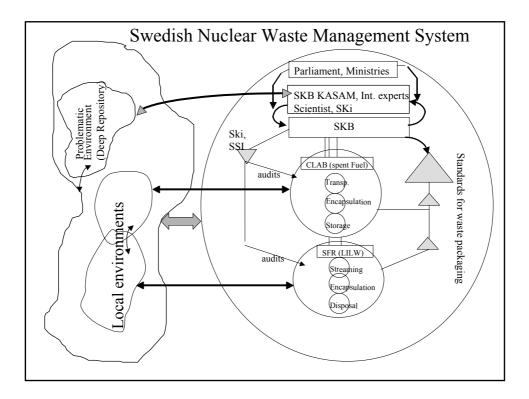


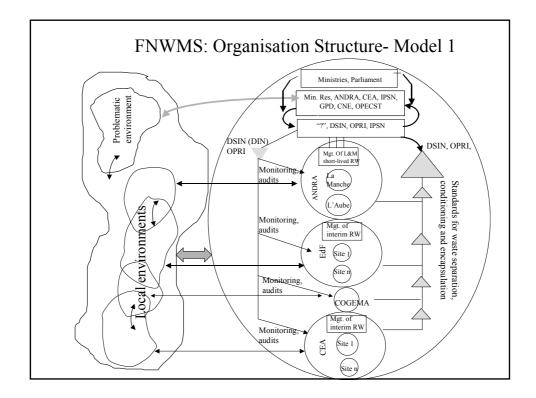
Viewpoint: Nirex is a research and advisory organisation

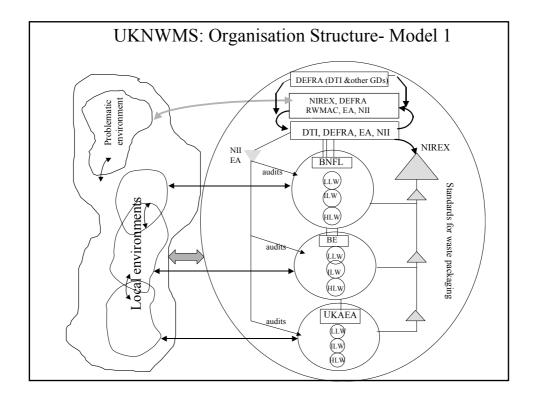
• Identity Statement 3: Nirex is an organisation owned by the nuclear industry, that researches intermediate nuclear waste management issues on behalf of the industry, providing expert advice to operators on technical, environmental and human issues in NWM and to the industry and the public in general through reports, for a transparent UKNWMS.

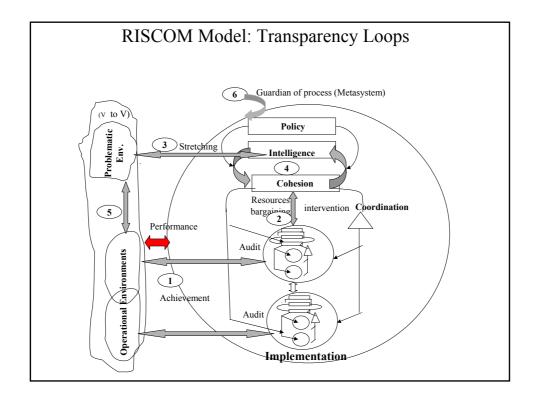












Countries Criteria for Transparency	Sweden	France	UK
1. Org's Identity	ambiguous	strong	undefined
2.1 Achievement (loop1)	unproblematic	Unclear potentials	Distrust in actuality
2.2.Resources bargaining (loop 2)	clear	unclear	fragmented
2.3. Stretching (loop3)	on-going	under-developed.	No implementer to stretch
2.4. Policy- making (loop4)	pre-emptive closure	Ungrounded closure	No-closure: Frag- mented resources
2.5 .Silent majority (loop5)	heard and influenced	detached	misrepresented
2.6. Guardianship (loop6)	needs more	needs to be more focused	needs to be defined

Revised Definition of Transparency

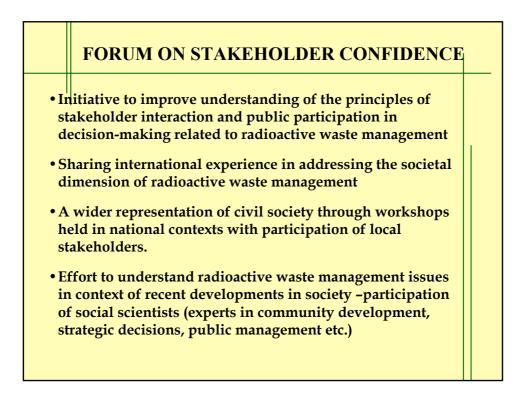
In a given policy area, transparency is the outcome of ongoing learning processes that increase **all** stakeholders' appreciation of related issues, and provide them with channels to stretch their operators, implementers and representatives to meet their requirements for technical explanations, proof of authenticity, and legitimacy of actions. Transparency requires a regulator to act as guardian of process integrity.

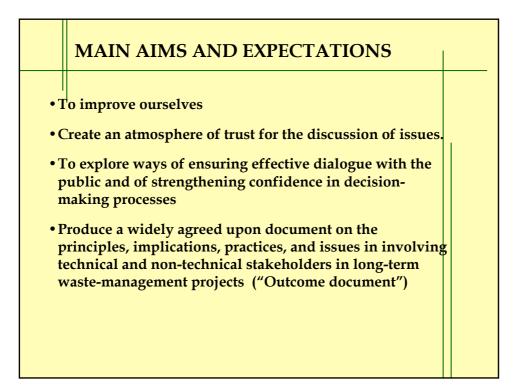
Appendix 5:

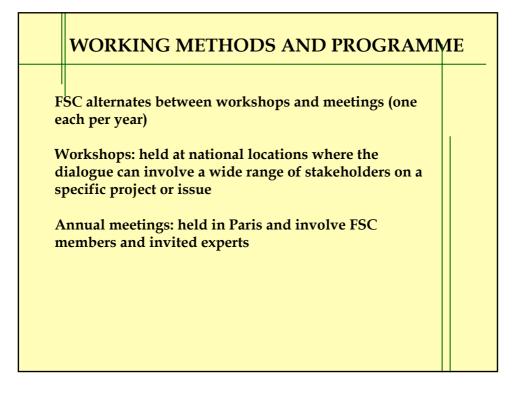
Lessons learned from the NEA FSC

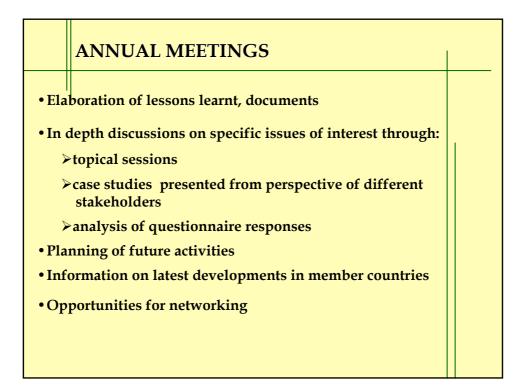
Vera Sumberova

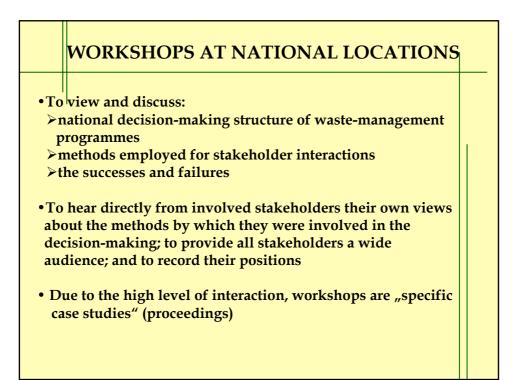


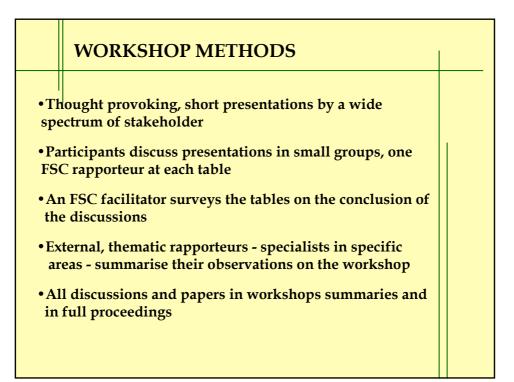




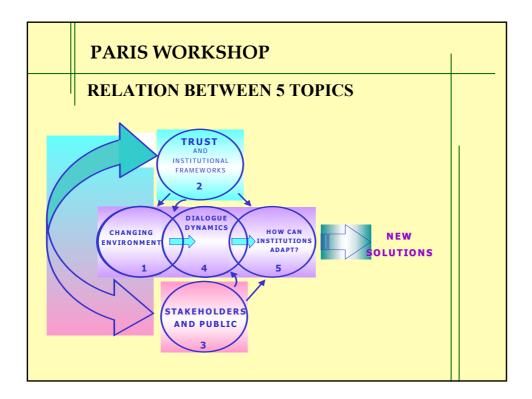








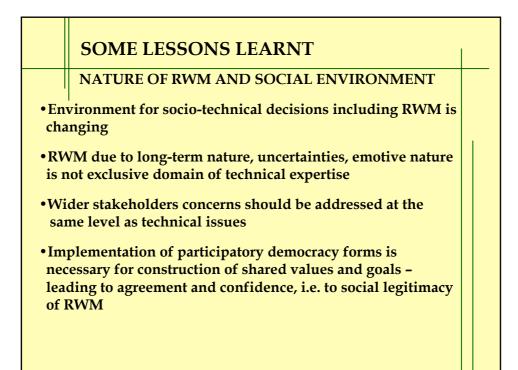
	PARIS WORKSHOP, 28-30 August 2000	
• ~ ~ ~ ~ ~	Themes: changing environment for waste management, participatory democracy in waste management stakeholder identity trust in the institutional framework maintaining trust over time	
•	75 attendees from 14 countries. Specialists from government bodies, implementing agencies, safety authorities, oversight bodies, national universities and academies with background from technical and social sciences, national and local political representatives	
•	Review the status and experience both in radioactive waste disposal and stakeholder confidence in member countries	
•	Proceedings	



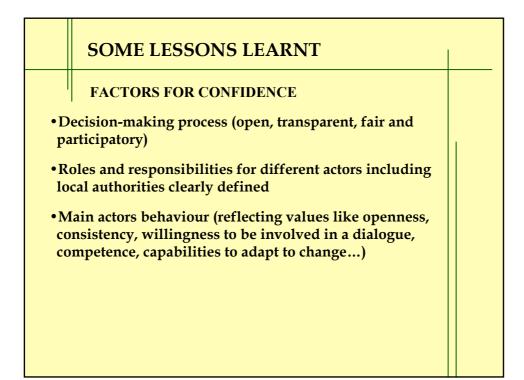




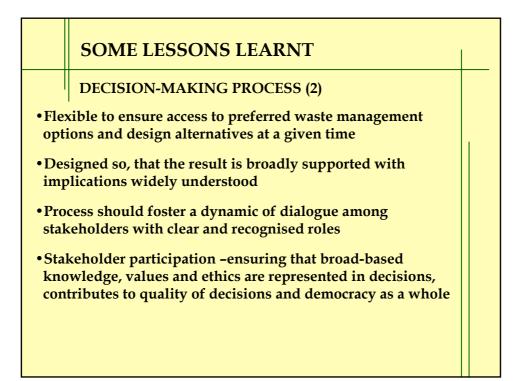
	BRUSSELS WORKSHOP, 18 - 21 November 20	03
	eme: Dealing with Interests, Knowledge, and Values in naging Risk	
	e studies: the Belgian partnerships on the long-term nagement of LLW	
whi Exp and Rec Fac Imp	rkshop will be preceded by visits to the partnerships, ich are at different stages of development bected: personal, direct contact between local people FSC to learn about their perspective and experience ommended topics: tors influencing partnership portant successes and failures, ways for the future ernal support	



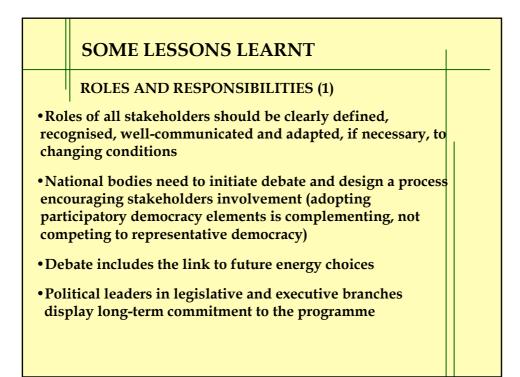
	SOME LESSONS LEARNT
	STAHOLDERS, TRUST
The	stakeholder : anybody with an interest or role to play
Majo	or issues :
th	e interactions amongst groups and their respective roles
st	akeholders change with time
meas	t : implies that an individual is willing to give up a certain sure of control to another person. Trust must be given in r to make it possible to receive it.
Was	e retrievability and programme reversibility alleviate
	rust of technology and help in decision making.



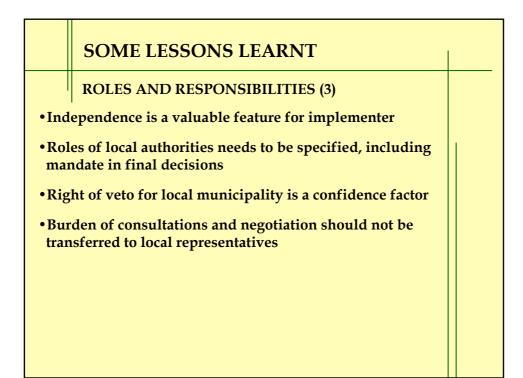
	SOME LESSONS LEARNT
	DECISION-MAKING PROCESS (1)
par	ll-established process, recognised as fair, transparent and ticipatory by stakeholders, in which stakeholders can eract effectively
•Co	mponents of policy definition and stepwise implementation
•Me	chanisms to ensure moving forward and to monitor progress
	ed of the public to participate, when the "rules of the game" being defined
-	ened to different outcomes - none single (technical, social ethical) RWM solution



	SOME LESSONS LEARNT	
	DECISION-MAKING PROCESS (3)	
	cess should embody competing social values, while ues and approaches to achieve this may change over time	
•Leg	itimacy is not established once and for all	
	nsparency: information "what is happening and why" ays available	
and	e programme should provide sufficient time, resources commitment for meaningful involvement of ceholders	



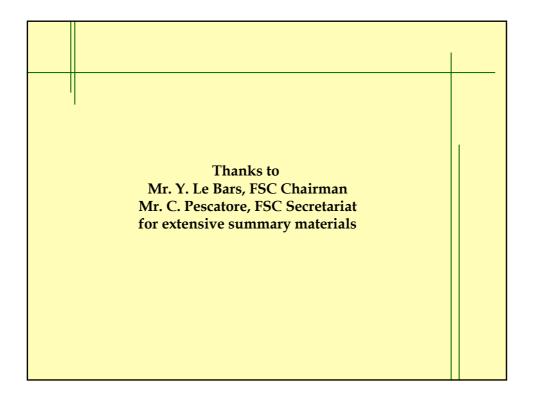
	SOME LESSONS LEARNT
	ROLES AND RESPONSIBILITIES (2)
	es of the regulator has to be separated from nuclear energy motion
wit	ive regulator involvement is needed and is achievable hout compromising integrity, independence and libility
• Imp safe	portance of regulator's role in protecting peoples health and ty
	ulators role includes clarification on the reasons for



	SOME LESSONS LEARNT
abili	INSTITUTIONAL FEATURES FOR BUILDING CONFIDENCE tutions (implementers) must adapt and demonstrate long-term ties.
	Organisational : clarity of role position, dedicated sufficient funding, learning capacity, ethical behaviour, high level of skills and competence, public ownership
	Mission: clear mandate and goals, a grounded identity Behavioural: openness, transparency, consistency, honesty, willingness to be "stretched", freedom from arrogance, recognition of limits, proactive practices, listening and caring attitude, display commitment, policy of continuous improvement



	CONCLUSIONS	
	nore complex interaction is now taking place at national, ional, and especially at local levels	
coi ste	nore realistic understanding of important nmonalities existing across cultural settings related to p-wise decision making, involving a range of actors is erging	
l s i	 sitive features of the FSC : > forum for mutual exchanges, mutual respect and earning > unique standing forum where technicians, civil servants, social scientists and other stakeholders can nteract > aiming to promote cultural changes in, and stimulate new approaches by, participating organisations 	



Appendix 6:

A municipality perspective - COWAM project

Harald Åhagen



A MUNICIPALITY PERSPECTIVE

REFLECTIONS AROUND THE EC COWAM CONCERTED ACTION

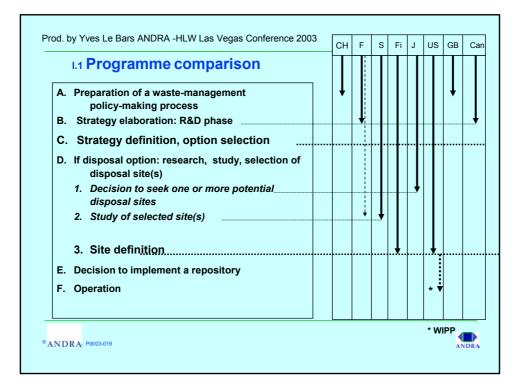
RISCOM II Final Workshop

This presentation gives a general background to the COWAM concerted action and offers some specific observations from my participation as a local representative. The presentation is based on some material produced by COWAM but the conclusions are my own and may not correspond with other participants!

A final COWAM report is to be produced during the second half of 2003 by and will be available at the COWAM web site

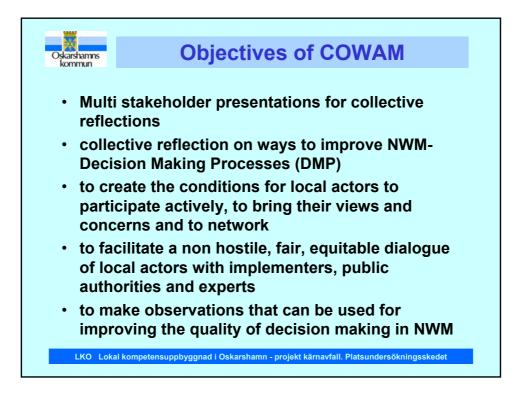
Harald Åhagen Municipality of Oskarshamn and

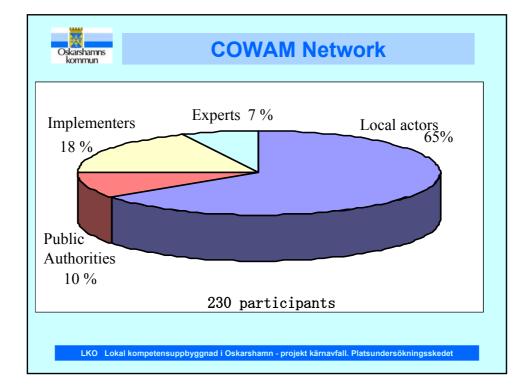
Member of the COWAM Steering Committee LKO Lokal kompetensuppbyggnad i Oskarshamn - projekt kähravtall. Platsundersökningsskedet

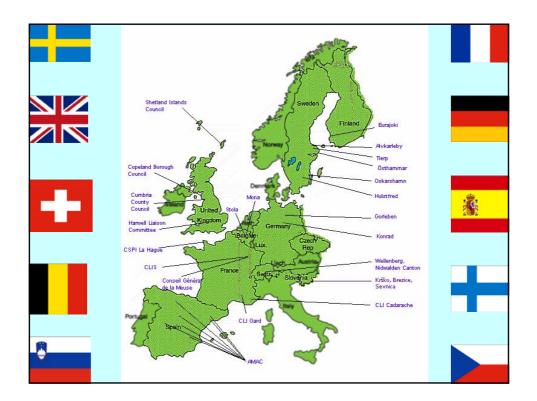


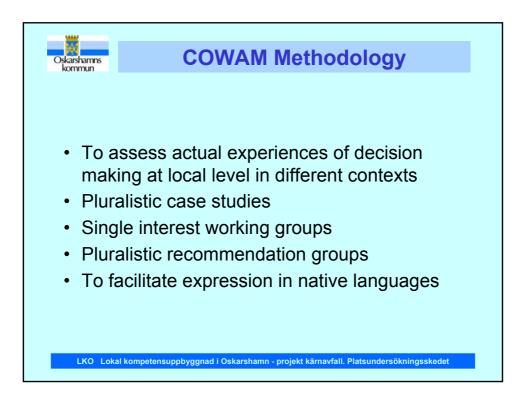




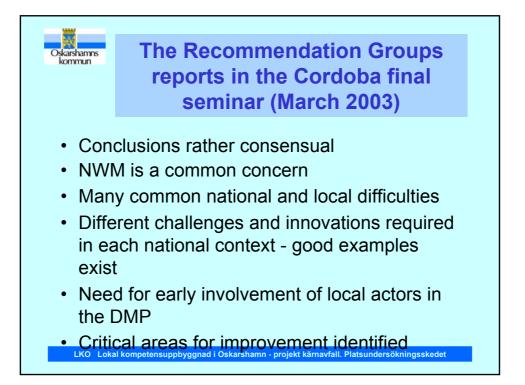


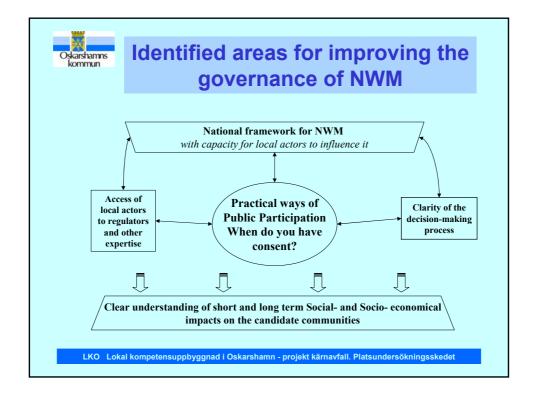


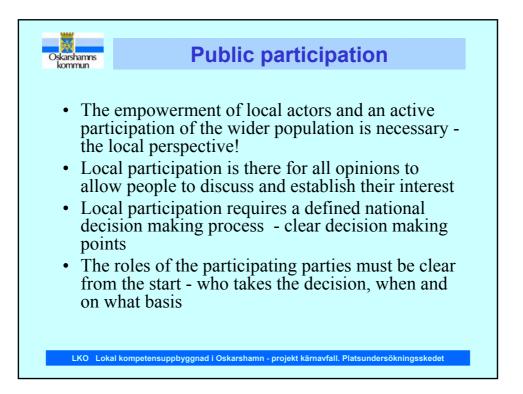


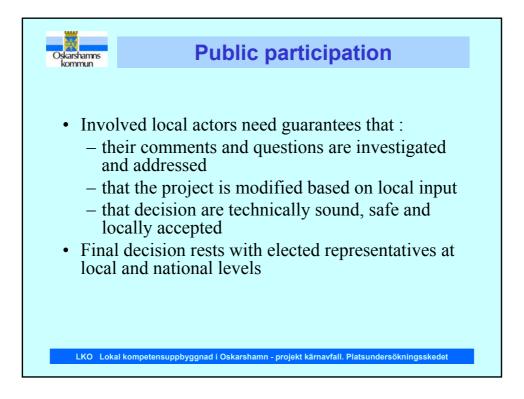


Decision context	Country
Sellafield	United Kingdom
Oskarshamn	Sweden
Tierp	Sweden
Görleben	Germany
Bure	France
Wellenberg	Switzerland
Spanish nuclear municipalities	Spain
Mona	Belgium
Stola Dessel	Belgium





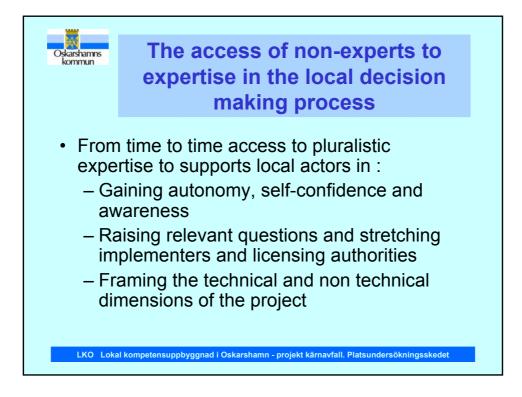




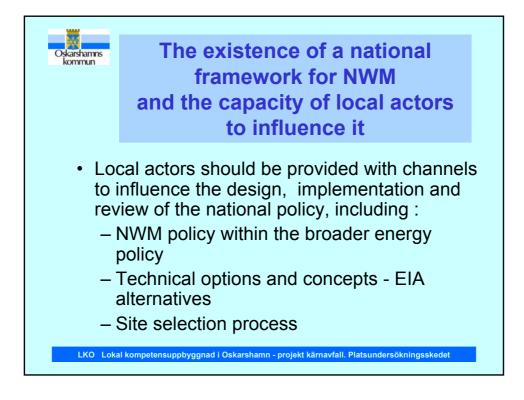


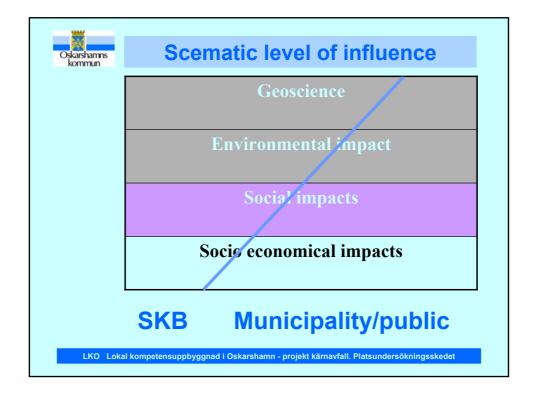


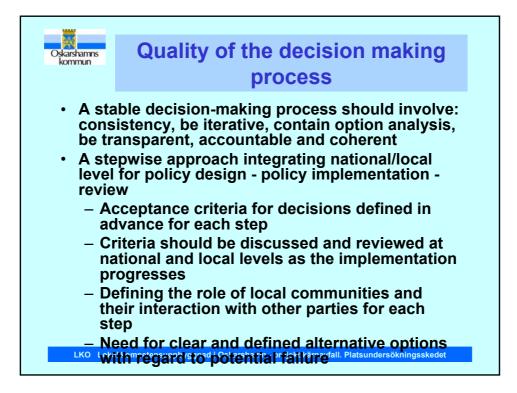


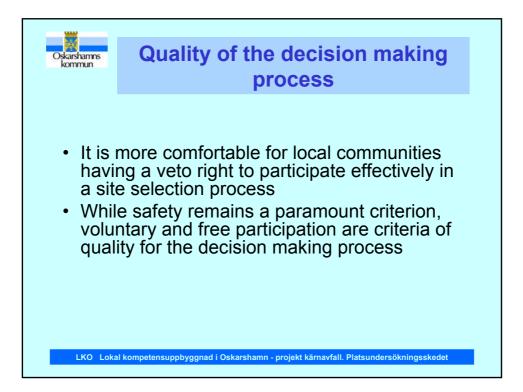


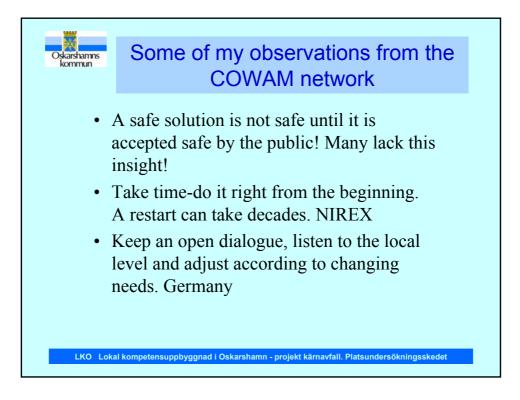


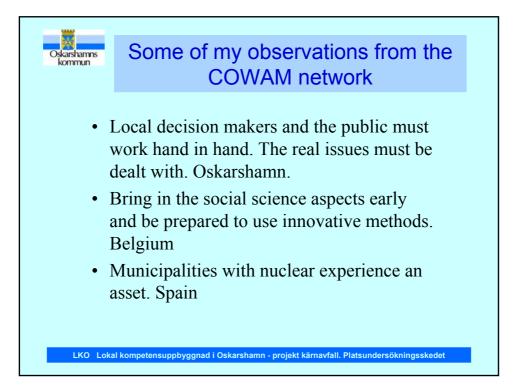


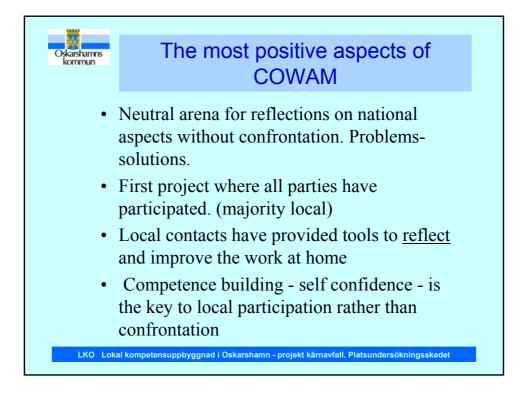




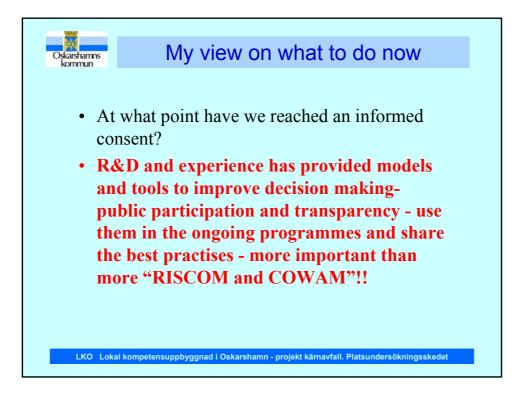












Appendix 7:

UK studies on participative processes

Jane Hunt

WP4: Dialogue Experiments

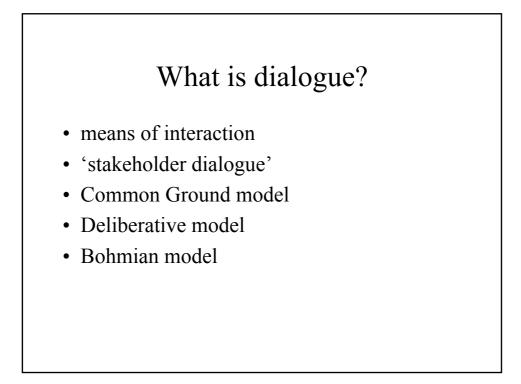
Jane Hunt CSEC/IEPPP, Lancaster University

Aims

- identify and evaluate different processes and associated rationales (D4.1)
- develop and test experimental versions of selected processes to assess their potential contributions to furthering the debate (D4.2-4.9)
- produce recommendations (D4.10 and 4.11)

Aims

- to explore different processes of dialogue and identify
 - what works,
 - what doesn't,
 - how,
 - why,
 - and for whom
- particular focus on 'institutional stretching'

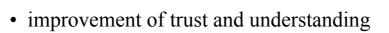


Constructing roles, constructing people

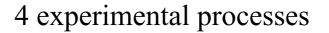
- individualised (e.g. traditional questionnaire)
- competitive interests
- collective

Criteria: starting principles

- transparency and legitimacy
- equality of access
- openness of framing
- inclusive and 'best' knowledge elicited
- deliberative environment



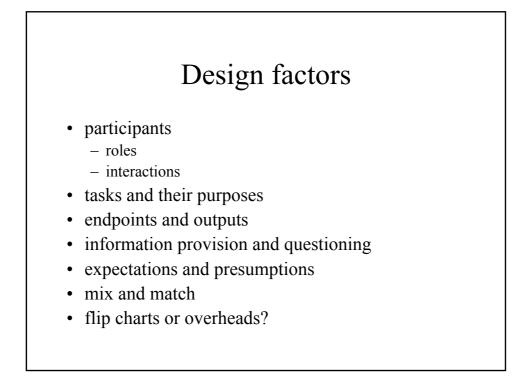
- developing insight and new meaning
- developing sense of shared responsibility and common good
- producing acceptable/tolerable outcomes/decisions



- discussion group
- future search variation
- scenarios workshop
- dialogue workshop

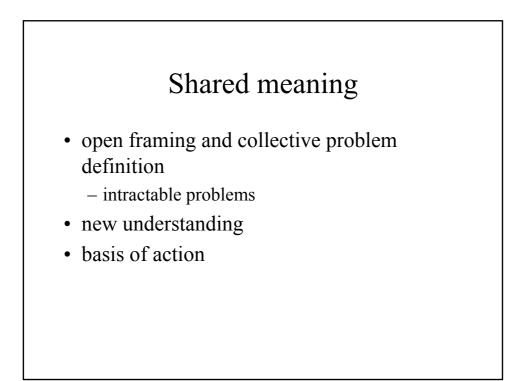
+ Schools Website

- developed and trialled in five UK schools
- positive feedback
- but limited discussion time within National Curriculum
- RADIALe (Defra, EA, HSE)



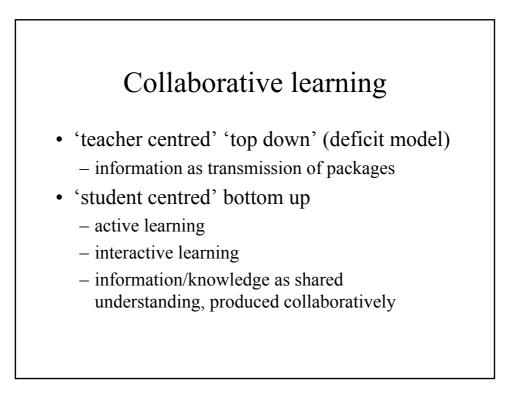
Roles

- official stakeholders equivalent to lay public
- face to face interaction and shared tasks
- facilitators
- information officers
- no 'expert authority'
- focus on listening and enabling, rather than explaining and arguing



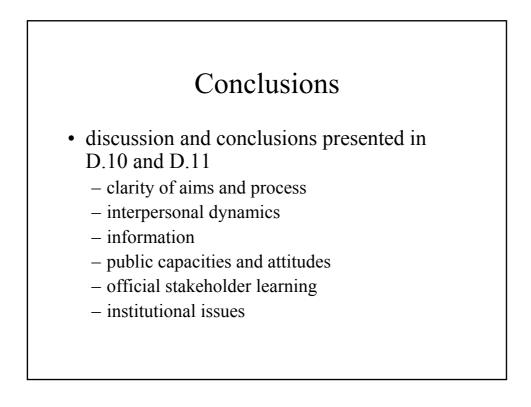
Collective good

- shared rather than individualised interests
- shared value base
- shared problem definition (what is at stake)
- recognition of difference
- new identities
 - 'the good citizen'
 - 'the good institution' ?
- commitment



Bohmian approach

- listening and suspension
- extended epistemic communities
- participatory social learning
- institutional and organisational learning
 - structures
 - boundaries



Riscom Model

- worked with idea of 'stretching' as expanding and developing official stakeholders understanding
- Riscom model overall not applicable in UK context where there is a fluid and dynamic situation

Final Word

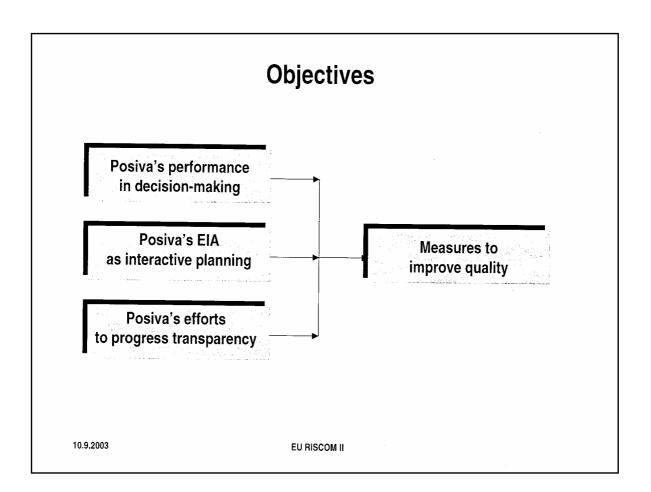
- moving forward with the radwaste problem means moving forward with a collaborative approach
- practical implementation of principles of open, inclusive (Bohmian) dialogue

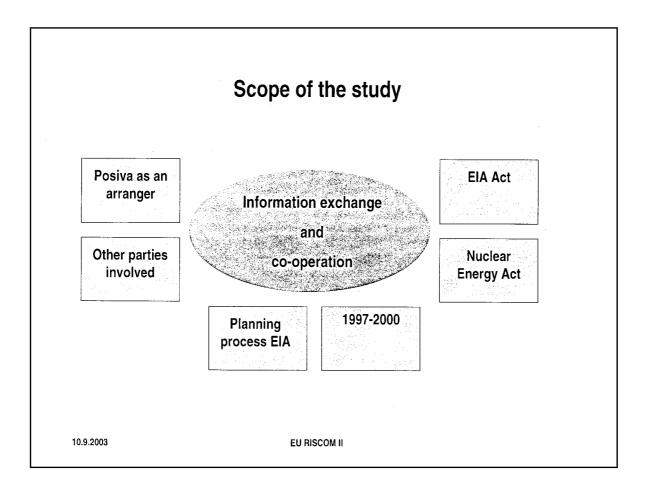
Appendix 8:

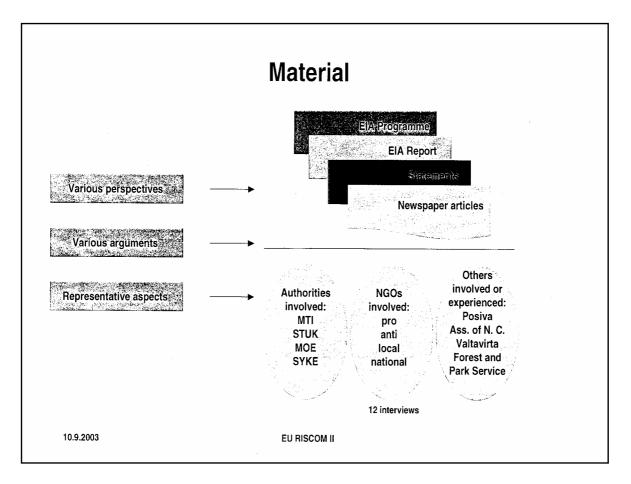
The Finnish EIA

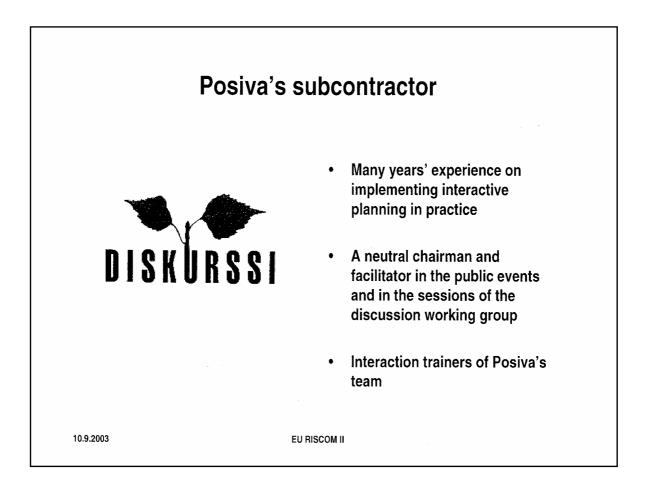
Jaana Avolahti

	H⊒-1=TV-T Working Report 2002-45	
	ning in the EIA of the final disposal facility f spent nuclear fuel in Finland	or
	Antti Leskinen Markku Turtiainen	
	September 2002	
10.9.2003	EU RISCOM II	

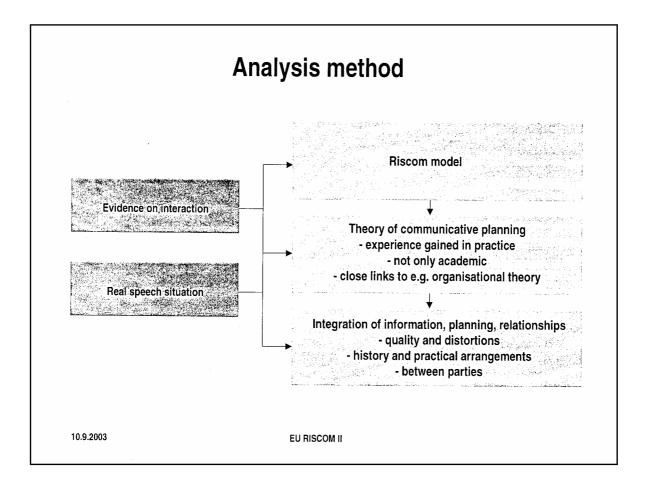


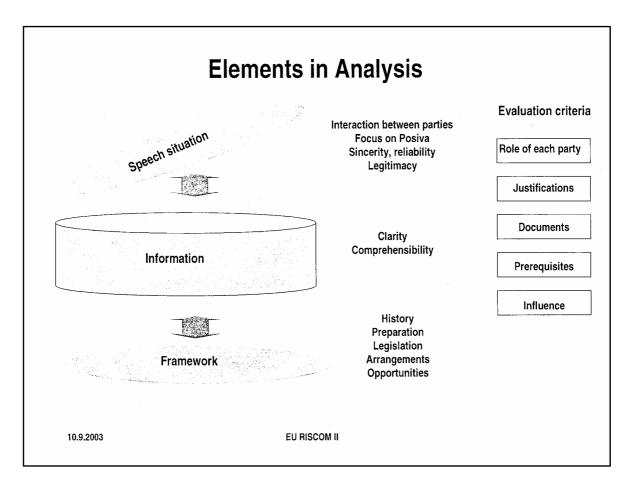






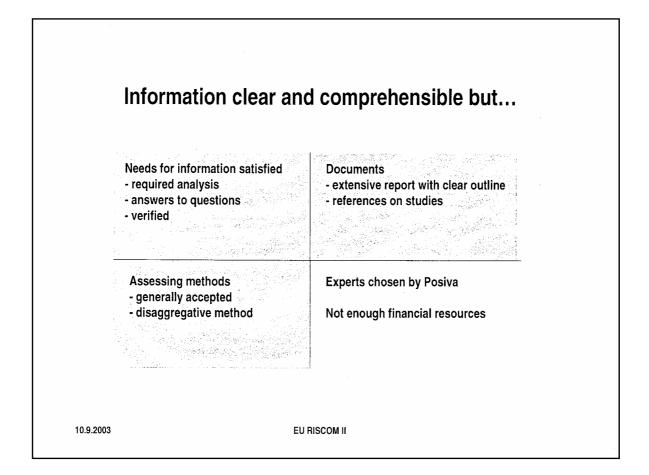
	Topics studied			
Interaction in pra	ctice during EIA			
 Detailed question concerning transparency, methods, comprehensibility, illustrativeness, attitudes, resources, phases, roles of the participants, relationships between authorities 				
Technical concept	ıt			
10.9.2003	EU RISCOM II			

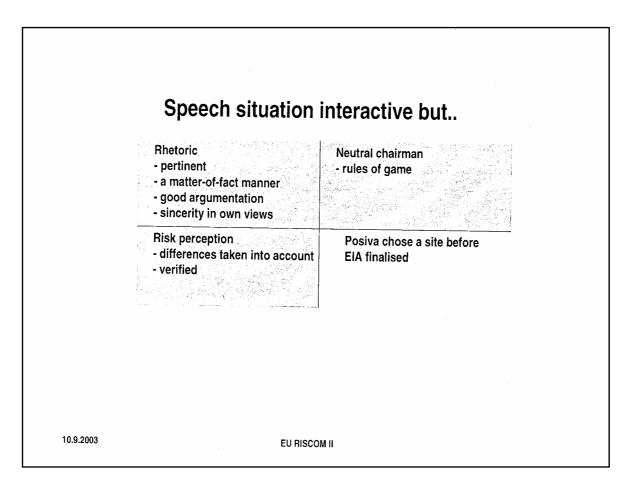




F	Planning was transparer	nt and interactive but
	Training courses Resources	Plans for interaction Positive attitudes
	No alternatives, zero-alternative Parallel procedures	Procedure not familiar
10.9.200	13 EU RIS	SCOM II

Arrangements a	nd implementation into	eractive but
Flexible arrangements: - more resources when necessary - new methods (i.e. exhibition bus)	Information on opportunities to participate sufficient	Timing and length - during elaboration of EIA programme - longest possible
Possibilities to influence - public hearing by municipalities	Unlimited participation - open to all - written material free of charge - selection representatives free	No national interaction
No statistical representativeness	 Reasons for non-participation collected: conflicts and distrust, wrong level of planning, scarce resources, no impact on daily life, no benefits, not in the news, no experience 	
10.9.2003	EU RISCOM II	





According to A. Leskinen:

The most significant skill in this kind of context is listening to.

Success requires commitment of an organisation and other parties.

10.9.2003

EU RISCOM II

Appendix 9:

The Swedish hearings

Kjell Andersson

RISCOM-II Workshop No 3 Prague, Sept 10-11, 2003

Swedish hearings and the RISCOM Model

Kjell Andersson

Background

SKB proposed in November 2000 municipalities for site investigations in the "FUD-K" report
SKI/SSI review 2000-2001
Government decision 2001

Decisions by municipalities 2001-2002

SKI/SSI organised hearings in:

- Östhammar, Tierp and Älvkarleby (NordUppland)
- Hultsfred and Oskarshamn (Småland)
- Nyköping (Södermanland)

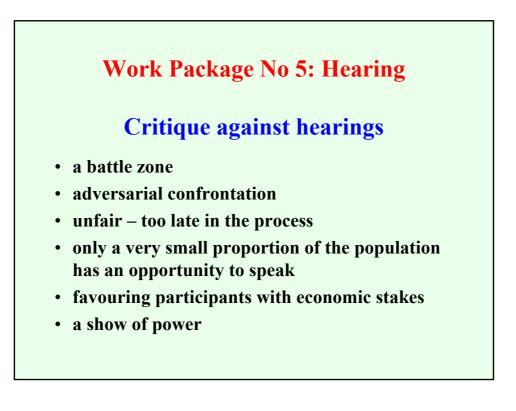
Karita Research

It was decided by SKI and SSI to design the hearings using RISCOM Principles

Preparations and evaluation of the hearings was done as part of RISCOM-II

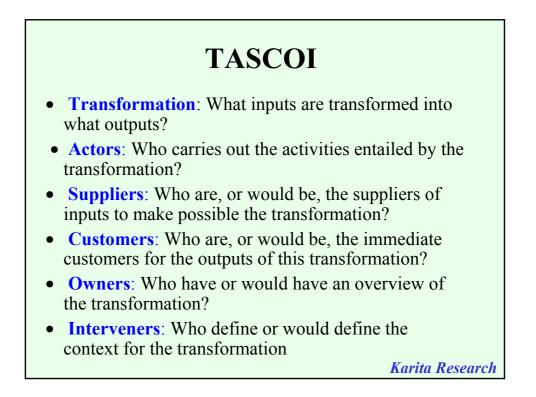
A working group and a reference group were formed

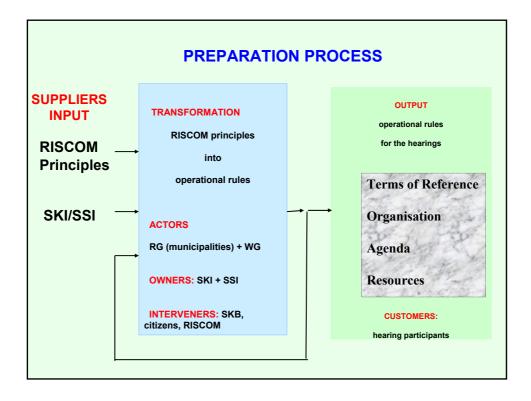
The hearing format and then RISCOM Model were subject for special public meeting in Tierp

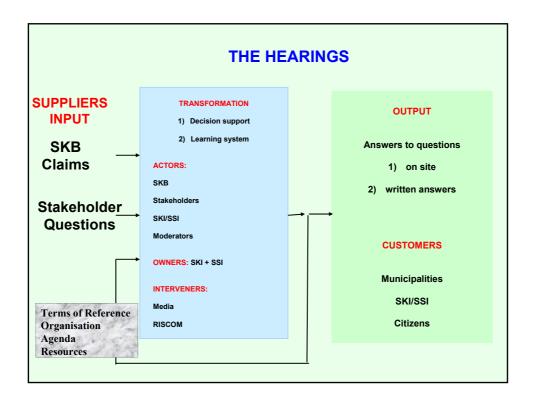


Positive elements

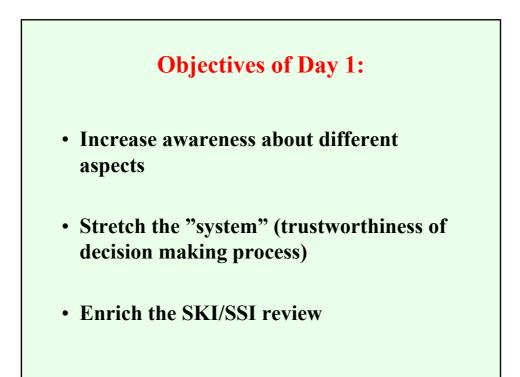
- the questioning of all actors
- hard test of arguments
- publicity and openness for citizens
- opportunity for the citizens to express their concerns.







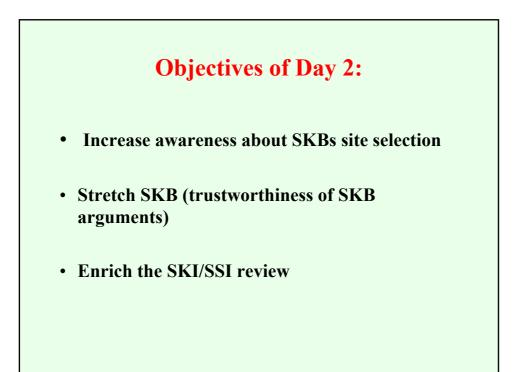




Day 2: Site selection

Hearing procedure

- Selection of feasibility study municipalities
- Site selection within the municipalities
- Selection of municipalities
- What is a site investigation ?



Drottz Sjöberg review

Some keys to success:

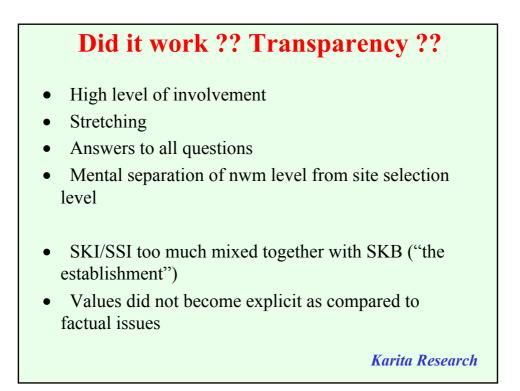
- Unbiased and skilled moderators
- Using working groups to formulate questions gave the participants time for reflection and discussions without dominance by e.g. the implementer or the authorities. It is likely that many participants appreciated the possibility to be anonymous and channel questions through the moderators

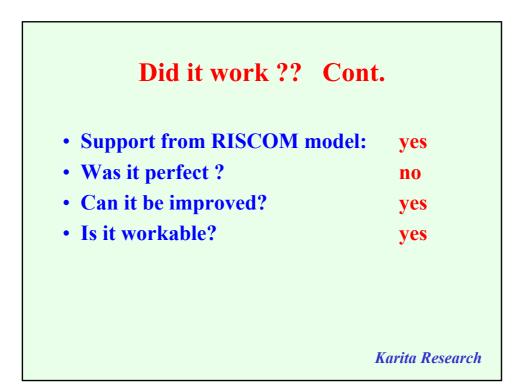
Cont.

- Well defined scope of the hearings developed in dialogue with the municipalities.
- It was clear that the authorities were the owners of the hearings and that the outcome would be included in their review of SKB's programme.
- The early involvement of the municipalities in the planning process









CONCLUSIONS

- The RISCOM Model <u>can</u> be applied to improve a decision-making process (and events within a process)
- There are tools (TASCOI) that can assist in process design
- Fairness Involvement in the process design

Karita Research

Appendix 10:

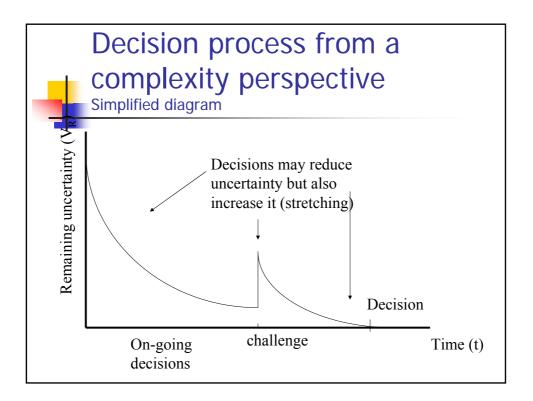
Organisational prerequisites for transparency

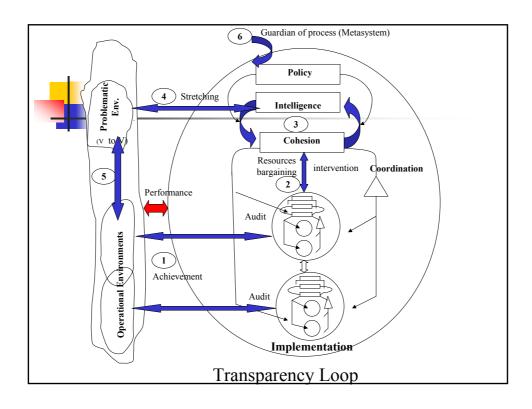
Raul Espejo

The RISCOM Model RISCOM II Final Workshop Prague, 10-11 September 2003

> Part 2: Transparency Loop Raul Espejo, Syncho Ltd & Clas-Otto Wene, Wenergy AB

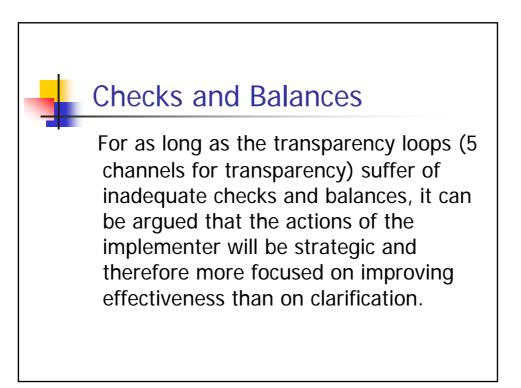






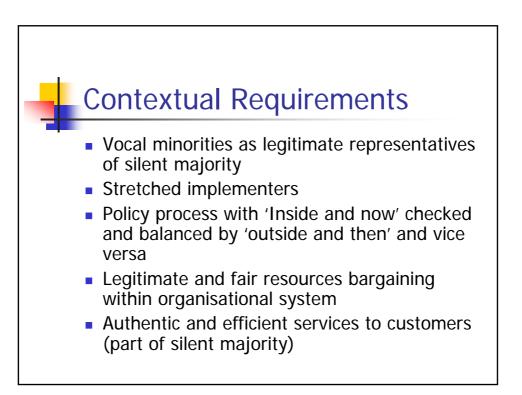
Interactions and Communications

The RISCOM model makes apparent that dialogues with stakeholders are not enough to achieve communicative action. Additionally it requires developing communications and interactions as implied by its channels for transparency.



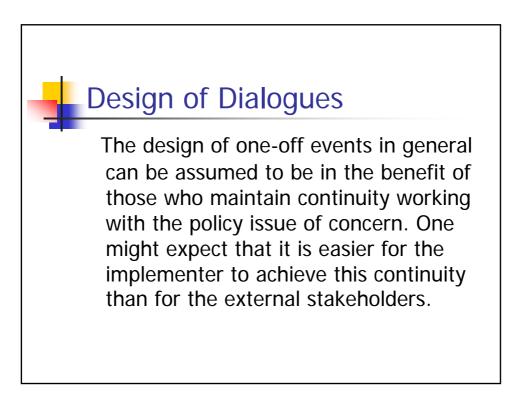
Context for Dialogues

Dialogues need as a context a decisionmaking process in which all stakeholders satisfy the requirement of an on-going engagement in the decision process (this is one of the requirements for a truly democratic and participative decision process).



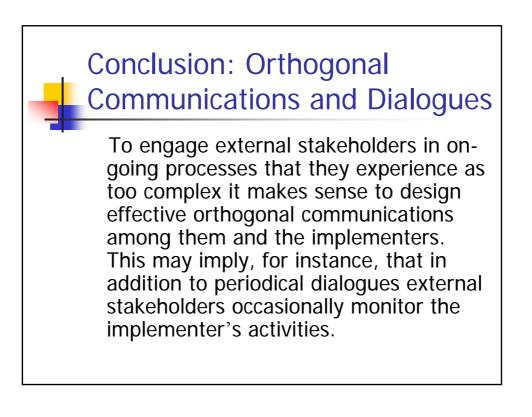
Design of Dialogues

However democratic might be the design of occasional interactions (e.g.dialogues), if external stakeholders cannot maintain over time their engagement in the decision process, they may feel that they are being manipulated by the establishment and that they lack opportunities to influence outcomes.



A Possible Solution: Orthogonal Communications

When two groups in interaction have very different levels of complexity in particular aspects of a shared policy issue orthogonal communications are a means to reduce the strategic manipulation of each other. Orthogonal communications happen when on-going dialogues and negotiations are complemented by the monitoring of each others' activities to confirm the legitimacy, authenticity and truth of the other's claims.



Strategic Dialogues

When this is the case quite naturally those players who have more opportunities to involve themselves in the on-going decision process will have more chances to influence its outcomes, in which case those in the weaker end of the communication loop are likely to perceive dialogues as strategic.

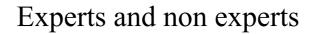
Appendix 11:

The expert role

Stéphane Chataignier

The expert role

Imagining dialogue between experts and public

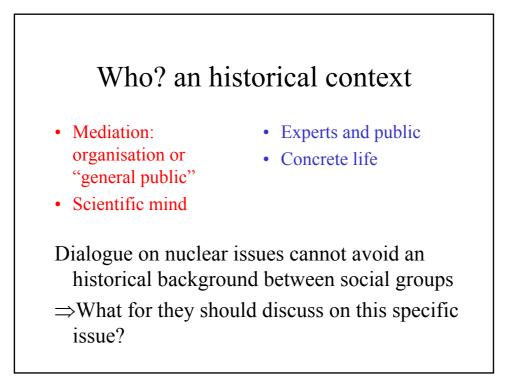


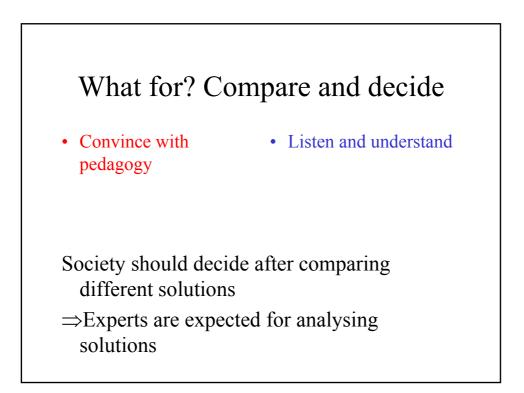
Two studies:

- Meeting between specialists and non specialists about safety of radioactive waste disposal
- Understanding rejection by the population of consultation for the siting of a second laboratory
- ⇒Distinction is not between experts and non experts but between:
- Nuclear experts
- Non nuclear experts and non experts









Conclusion

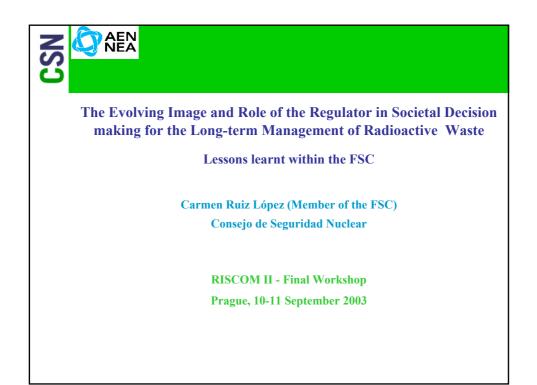
- Expertise greatly expected
- Confronting a lot of experts from different domains and different structures
- Making the scientific debate public instead of making public debate scientific
- ⇒question remains on how to make it public? (see slide « how? »)

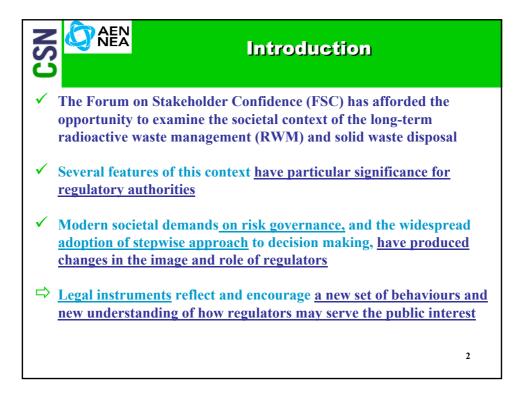


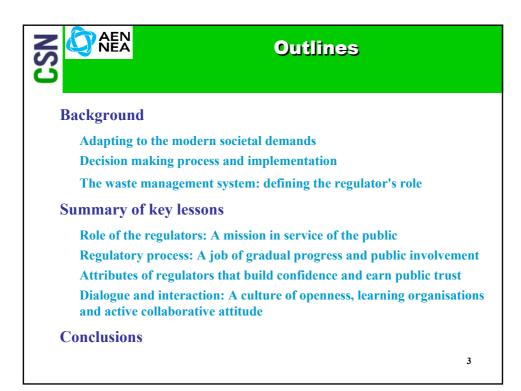
Appendix 12:

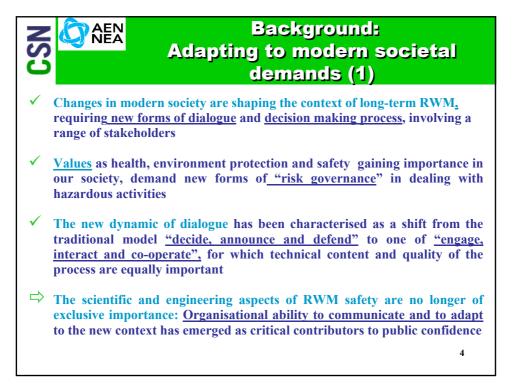
The role of safety authorities

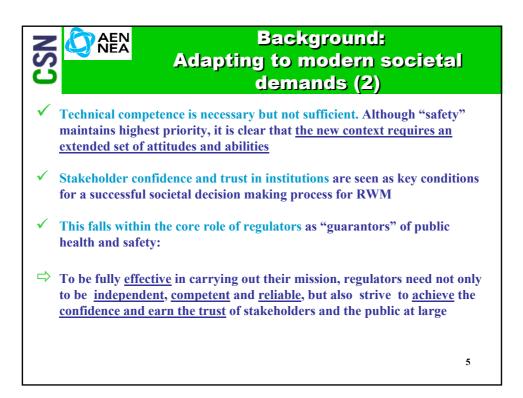
Carmen Ruiz Lopez

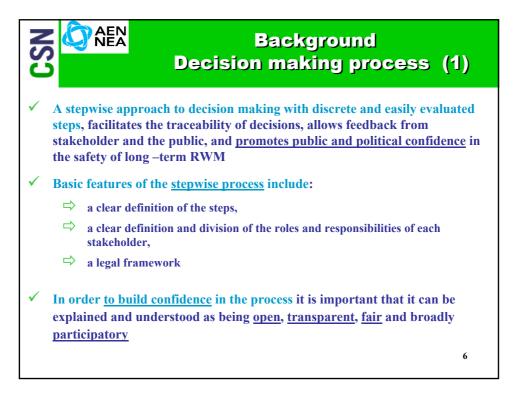


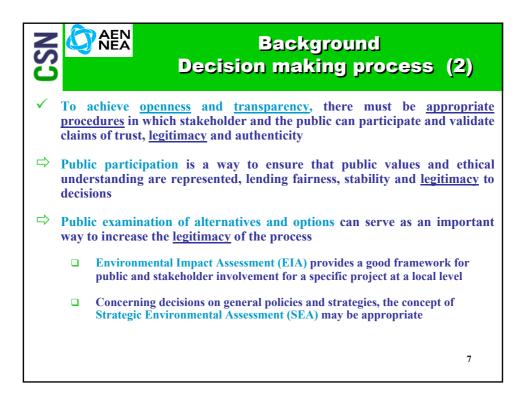


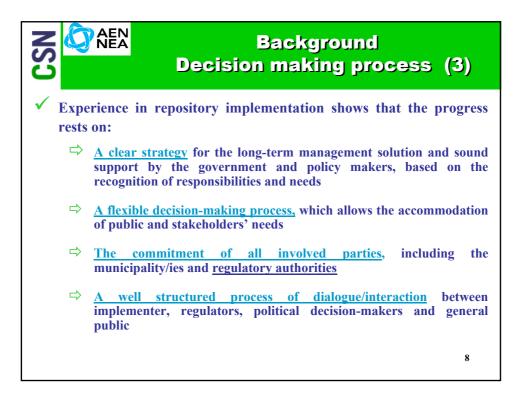


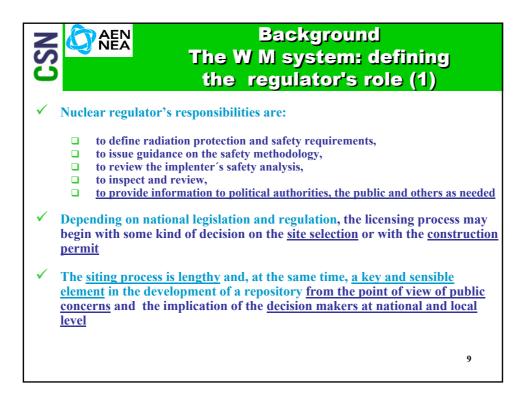


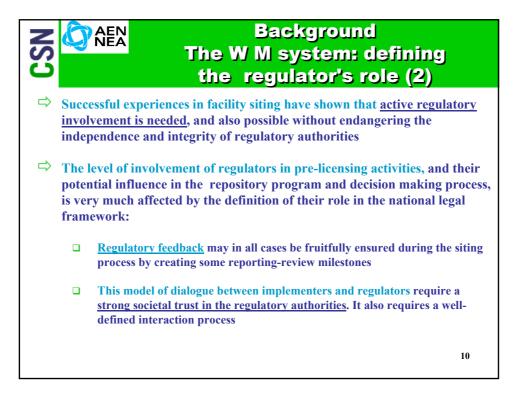


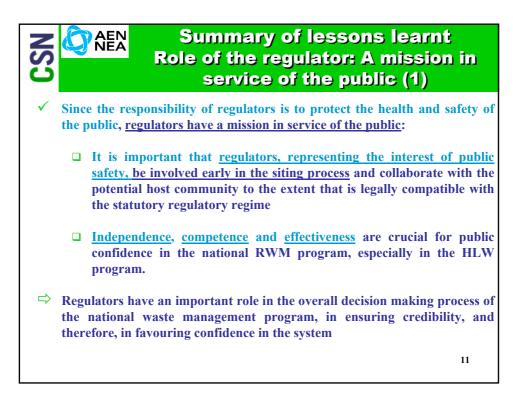


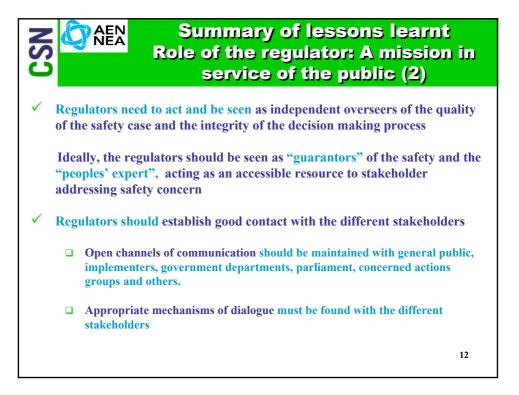


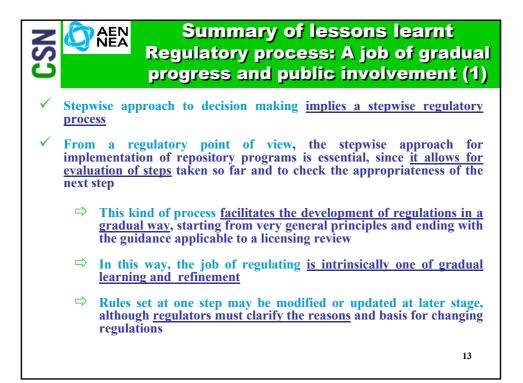


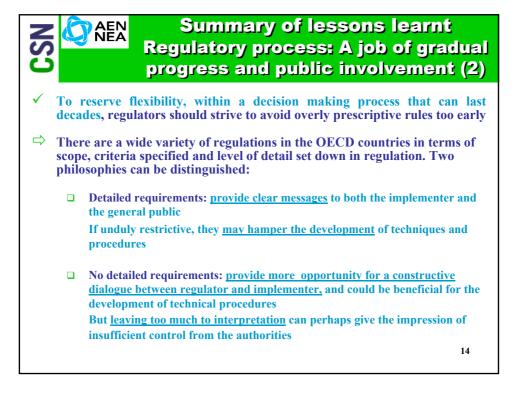


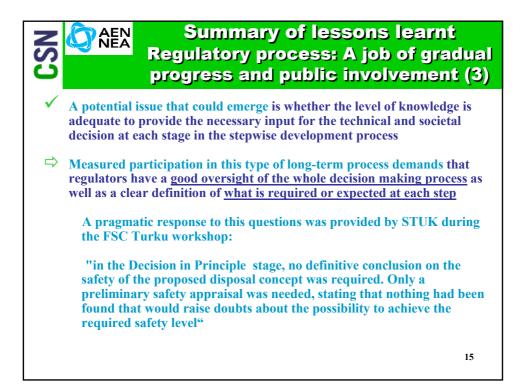


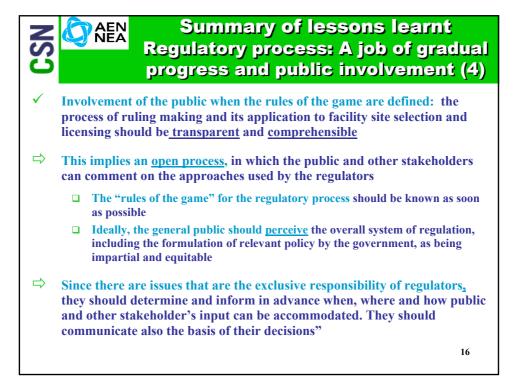


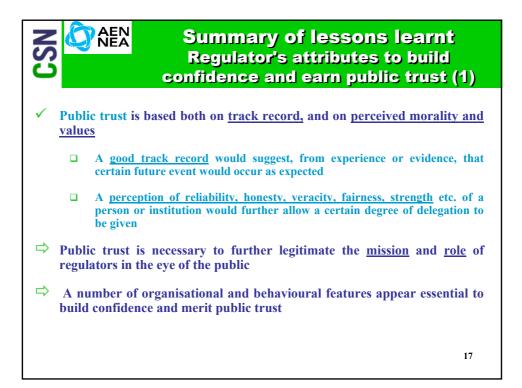


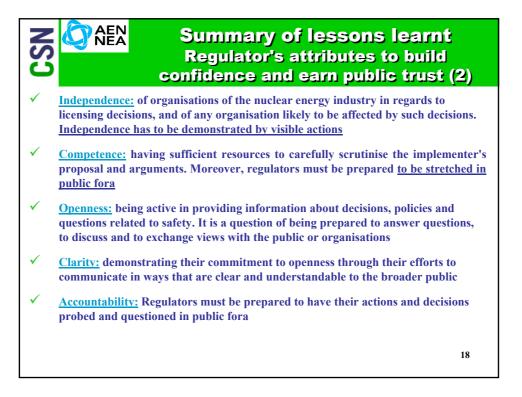


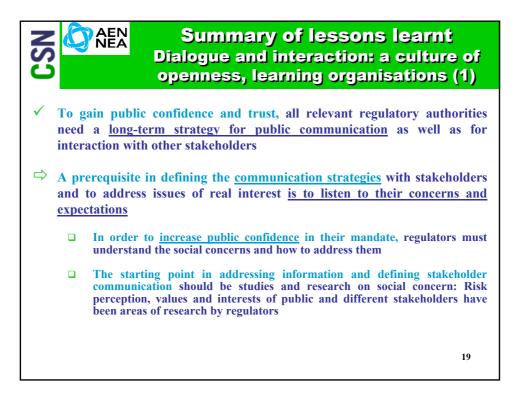


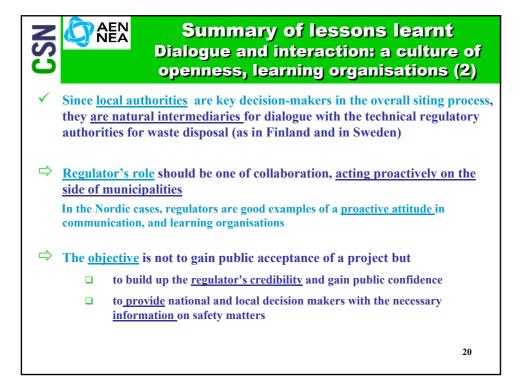


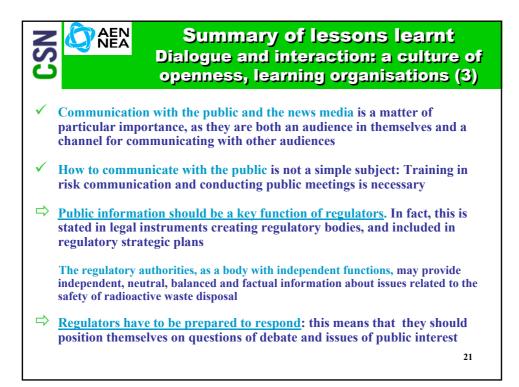


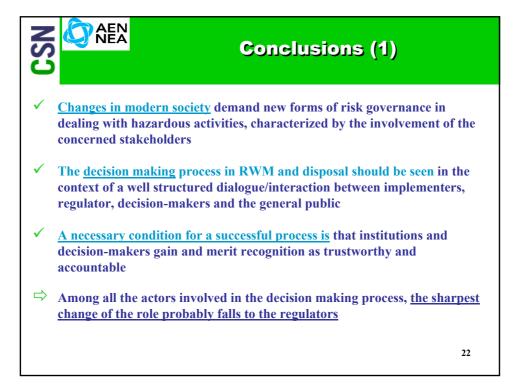


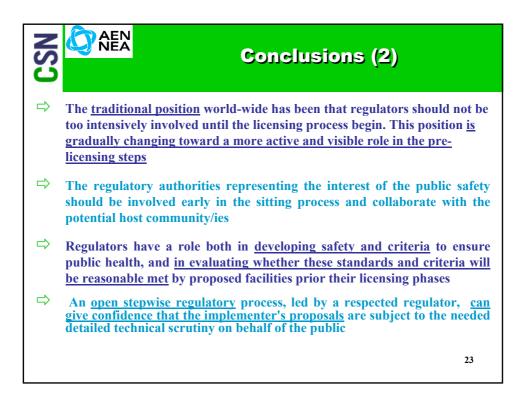


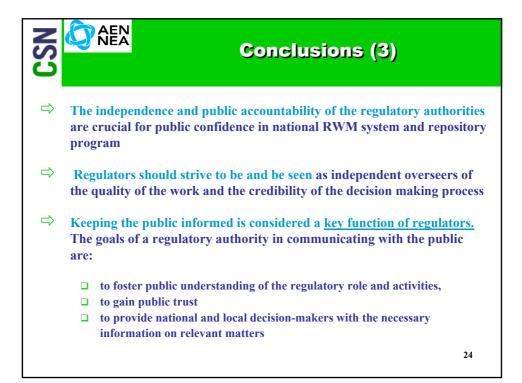


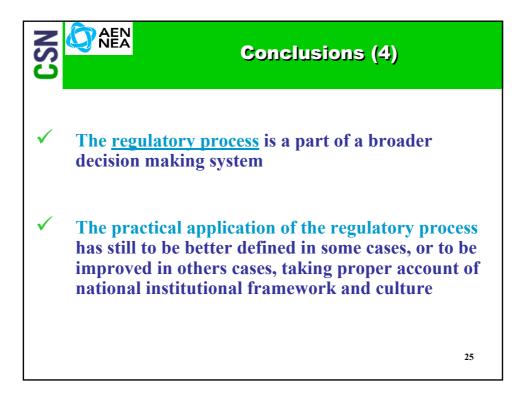












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