What does the public really want when engaging with the nuclear industry?

5th IDG-TP Exchange Forum Kalmar, Sweden 28 Oct 2014

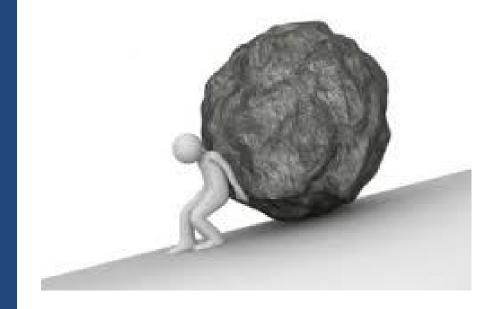
My appreciation and respect





"The worst thing that has ever happened is an unquestioned thought."

--- Byron Katie



Dominating Concept*

Ideas that dominate the general thinking in an industry powerfully influence how people think and act.

Example of a DOMINATING CONCEPT

Being left-handed is a disadvantage and should be discouraged.



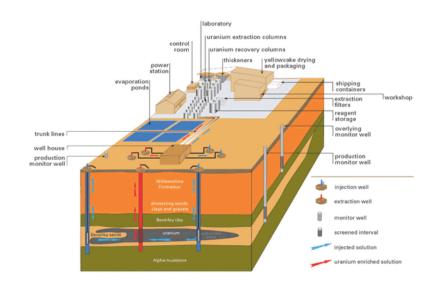
Example of a new DOMINATING CONCEPT



Being left-handed is acceptable.

Current DOMNATING CONCEPT -

The public wants scientific explanations.

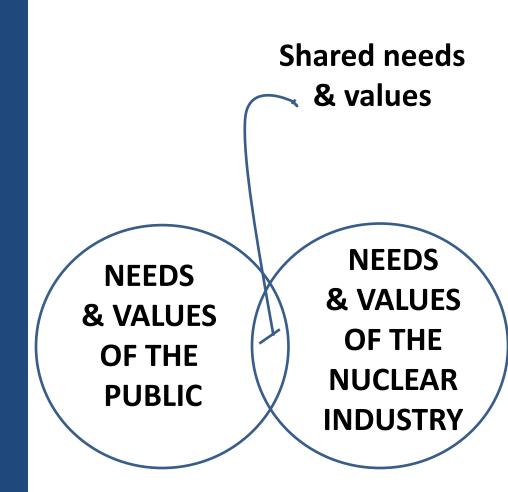




"Who is the public?"

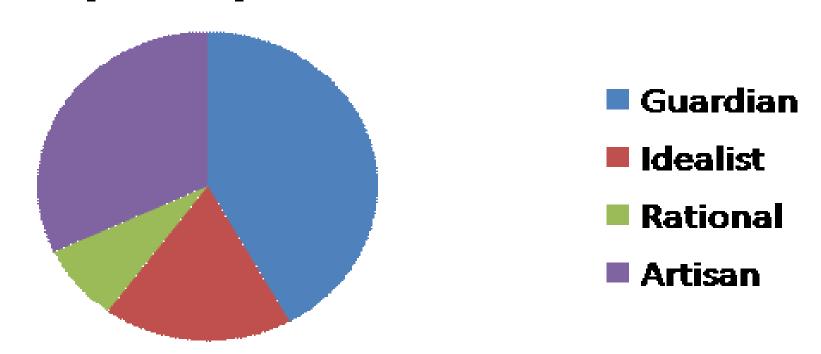
"What are needs and values of the public?"

"How is the nuclear industry, in general, similar or different from the public?"



What are the <u>needs</u> and <u>values</u> of different types of people?

Keirsey's Temperament Distribution



	GUARDIAN	ARTISAN
Percent of the Population	40 – 45%	30 – 35%
They need	 Information they can access through the five senses Information that is straight-forward Demonstrated experience 	 To learn through direct experience Information that is straight-forward
They value	 Conserving things as they are 	Concrete results

	IDEALIST	RATIONAL
Percent of the Population	15 – 20%	5 – 10%
They need	 To engage their intuition To work with concepts, empathy, emotions 	 To engage their intuition To work with concepts, logic, objectivity
They value	• Inspiration	• Competency

Temperaments helps illustrate why the public may not respond to scientific explanations

	Guardian and Artisan (70 – 80 percent)	Rational (5 – 10 percent)
They are comfortable with information that	Can be experienced or learned through the five senses	Is acquired through the sixth (intuitive) sense
Prefer explanations that are	Straightforward	Complex
Irritated by	The vague or impractical	Being asked to do the illogical
Uninterested dealing with	Complex theoretical issues	Strong emotions

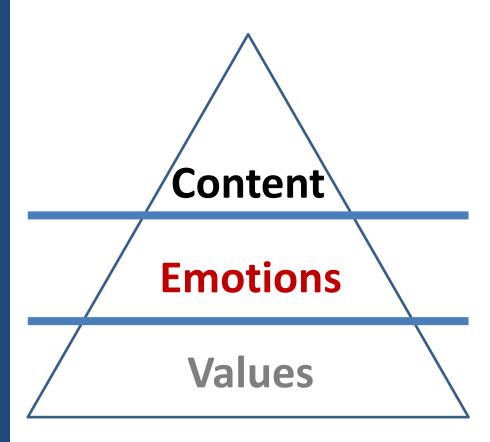
So what <u>does</u> the public want when engaging with the nuclear industry?

What are more <u>useful</u> Dominating Concepts?

A more useful concept ...

The public wants the nuclear industry to <u>listen</u> in an expanded way.

Listening can occur at three distinct levels



Twelve Roadblocks to Communication*

These are responses commonly used but that need to be avoided in situations in which emotions run high.

- Ordering
- Warning
- Moralizing
- Advising
- Logic
- Judging

- Praising
- Name-calling
- Analyzing
- Reassuring
- Questioning
- Diverting

^{*} By Dr. Thomas Gordon

 SCENARIO The public expresses concern that the geological repository presents a risk to the quality of their water source.

 LOGICAL RESPONSE "We have analyzed the scientific data, and we find no evidence to support that water quality will be at risk."

RESPONSE THAT ACKNOWLEDGES EMOTIONS
 "We recognize the public is <u>afraid</u> there is a
 risk to the quality of their water."

 SCENARIO The public expresses concern that the nuclear industry has withheld important and relevant information.

- REASSURING RESPONSE "We reassure you this oversight was not intentional."
- RESPONSE THAT ACKNOWLEDGES EMOTIONS
 "We recognize the public is concerned and
 <u>irritated</u> that important information had not
 been earlier disclosed."

- SCENARIO The public expresses strong concerns about safety incidents related to the transportation of radioactive materials.
- ANALYTIC RESPONSE "It is necessary that the public understand and accept that the field of nuclear science contains multiple uncertainties that cannot be eliminated."
- RESPONSE THAT ACKNOWLEDGES EMOTIONS
 "The public is concerned about and feels
 vulnerable to the possibility of transportation-related incidents."

Listening for emotions does not "solve" problems, but it does ...

- Meets a psychological need of the public
- 2. Allows emotions to dissipate
- 3. Helps the nuclear industry not be such a target

When the nuclear industry responds with logic (scientific explanations) to emotional appeals by the public ...

The public feels its interests are being ignored or marginalized



Feeling marginalized, the public may appeal to other means such as the political system to have its voice be heard



The political system, for example, engages



Emphasis shifts away from science and technology

Another useful concept ... Content **Emotions Values**

The public wants its values acknowledged and factored into the decision-making process.

Decision-making:

- Alternative A
- Alternative B
- Alternative C

VALUES are the foundation for decisions.

VALUES
answer the question,
"Why are we doing
what we are doing?"

Acknowledging the public's values provides insight and it demonstrates a level of respect.

Behind every concern is a value

SCENARIO: The public expresses concern that the nuclear industry has withheld important and relevant information.

- THE PUBLIC'S VALUES: Honesty, Expediency
- THE NUCLEAR INDUSTRY'S VALUES: Accuracy, Being Vetted

Values can be more easily factored into decision-making if they are measurable.

SCENARIO: The public expresses concern that the nuclear industry has withheld important and relevant information

VALUES	CLARIFY	Public's Response	QUANTIFY	Public's Response
Honesty, Expediency	What does "honesty" mean? What does "expediency" mean? How would you define these?	Honesty is defined as the open sharing of all relevant information. Expediency is defined as sharing in an immediate manner	What information is relevant? What might you consider "immediate" in terms of a timeframe?	The following information is relevant:,, Depending on the type of information, "immediate" might be the same day to two or three weeks later

Another more useful concept ...

The public wants to develop its own truths.

TRUTH CAN BE TOLERATED ONL IF YOU DISCOVER IT YOURSELF

FRITZ PERLS







ILLUMINATION PROCESS

Direct in-person communication

Relaxed setting

Attitude of curiosity

Purposeful

Learning



We are more than scientists and engineers, etc. We are "bridge-builders."

- 1. The public wants the nuclear industry to listen in an expanded way.
- 2. The public wants its values acknowledged and factored into the decision-making process.
- 3. The public wants to develop its own "truths."

"I learned this, at least, by my experiment:

if one advances confidently
in the direction of his dreams and endeavors to live the life
which he has imagined, he will meet with a success
unexpected in common hours.

"If you have built castles in the air, your work need not be lost; that is where they should be.

Now put the foundations under them."

--- Henry David Thoreau

Thank you for your listening.