

UConn TAB Presents ENVIRONMENTAL COMMUNICATION STRATEGIES FOR DEVELOPING HEALTH LITERACY

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Commonly Seen: Do People Talk About Them?







Commonly Seen: How Do We Tell Others About Them?







Environmental Health Risks

Brownfields Risk Sources:

- industrial production
- commercial and residential activity
- transportation and goods movements

Environmental Health Risks

- Soil and groundwater contamination
- Migration of contaminants
- Emissions deposited
- Wastes dumped on-site or hazards contribute to risks





Brownfields Site Risks:

- Biological dangers
- Physical dangers
- Chemical dangers



Safety and Contamination Risks

Safety Risks

Sites with safety risks may include:

- Abandoned and derelict structures
- Open foundations and operating electricity at structures
- Deteriorating infrastructure or equipment due to lack of maintenance or vandalism
- Illegal or criminal activity associated with abandoned sites
- Improper waste disposal or dumping
- Abandoned mines and mine waste piles



Cross-Contamination Risks

Brownfield sites in or near the areas below can potentially spread contaminants and cause structural deterioration

- flood zones
- vulnerable coastal
- drought hazard
- wildfire-risk areas
- natural hazard areas





Environmental Health Literacy (EHL)

Centers for Disease Control and Prevention:

Personal health literacy is the degree to which individuals have the ability to find, understand, and use information and services to inform health-related decisions and actions for themselves and others.

Network of the National Library of Medicine:

Drawing from such fields as communication, education, and participatory research, EHL provides a bidirectional evaluation tool that respects local context while also building community and research capacity.

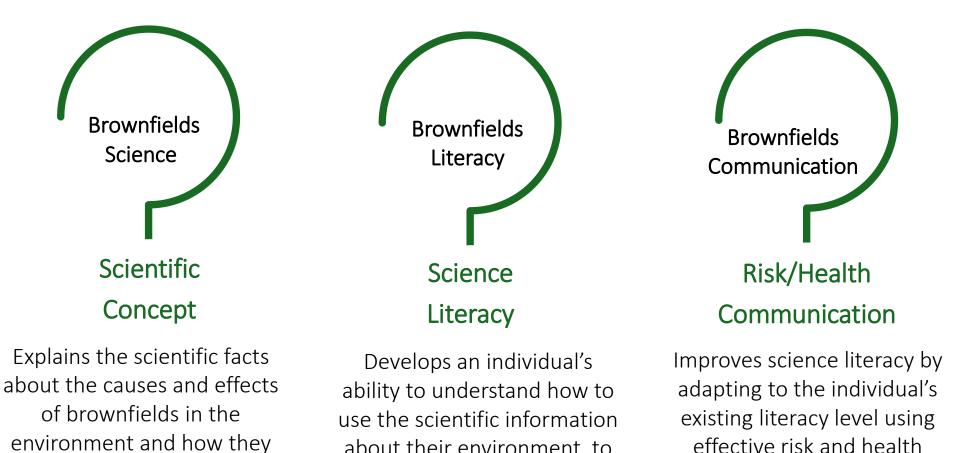
Functions of EHL:

Translating environmental health knowledge into individual and community agency is the foundation for empowering self- and collective efficacy to develop positive social action and community resilience to create and maintain a sustainable and livable community.





Translating Brownfields Science Into Literacy



about their environment to

make informed decisions

ASSISTANCE TO BROWNFIELDS

effective risk and health

communication

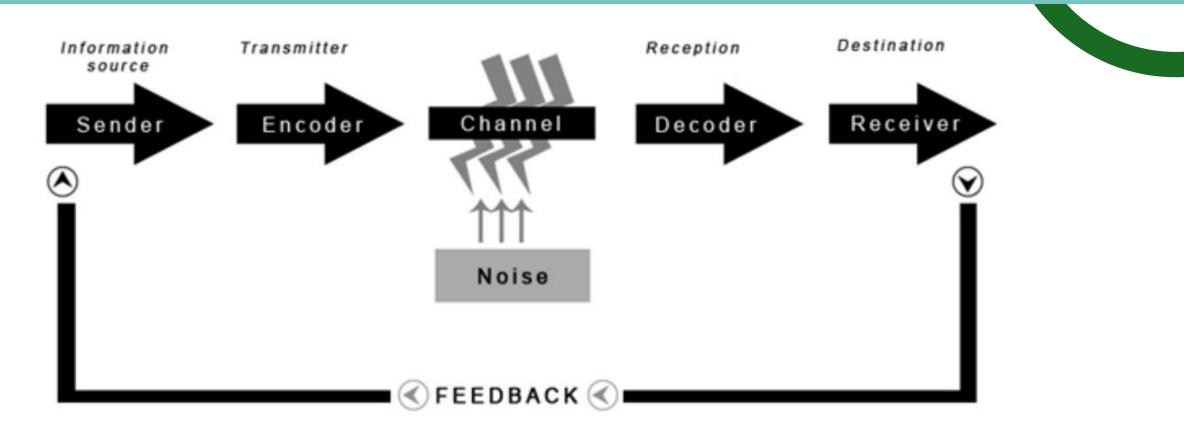
narratives



affect individuals and

communities

Communication Channel Noise (1948)



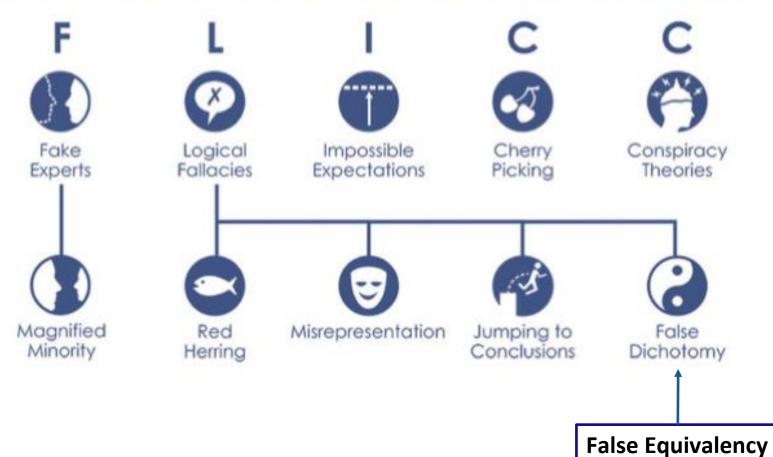
SHANNON-WEAVER'S MODEL OF COMMUNICATION





Noise: Misinformation and Disinformation

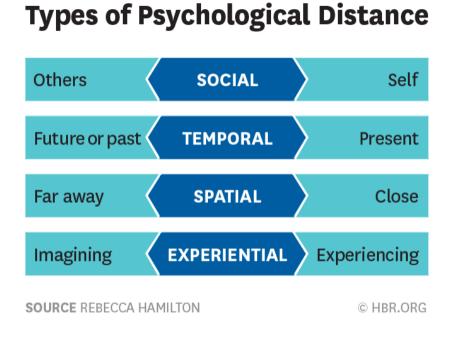
5 CHARACTERISTICS OF SCIENCE DENIAL







Noise: Psychological Distance



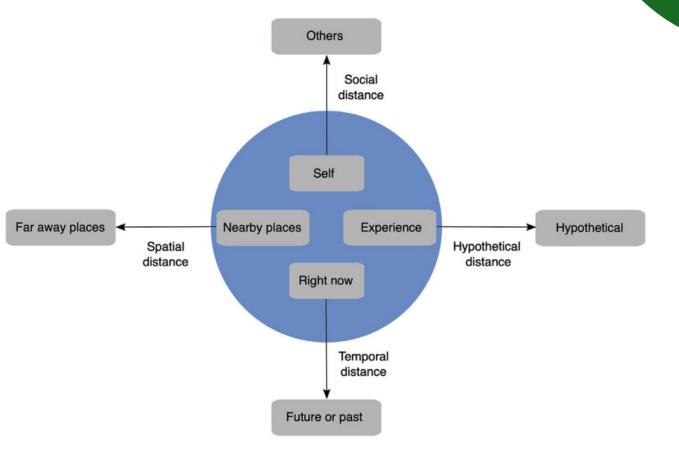
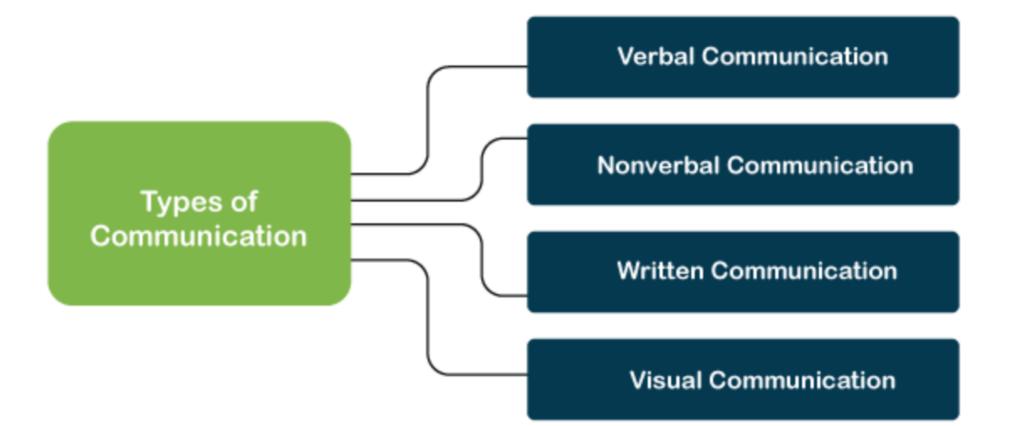


Illustration of four dimensions of psychological distance





Modalities of Communication







How Much Do People Remember?

LEARNING ACTIVITIES People generally remember... LEARNING OUTCOMES People are able to...

10% of what they read 20% of what they hear 30% of what they see 50% of what they see and hear	PASSIVE LEARNING	 Define Describe List Explain Demonstrate Apply Practice
70% of what they say and write	ACTIVE LEARNING	 Analyze Define Create Evaluate
90% of what they do		

How would you like them to remember your message?

Additional Resources:

Edgar Dale's Pyramid of Learning in medical education: A literature review: https://www.tandfonline.com/doi/full/10.3109/0142159X.2013.800636

Dale's Cone Revisited: Critically Examining the Misapplication of a Nebulous Theory to Guide Practice: <u>https://www.jstor.org/stable/44428845</u>

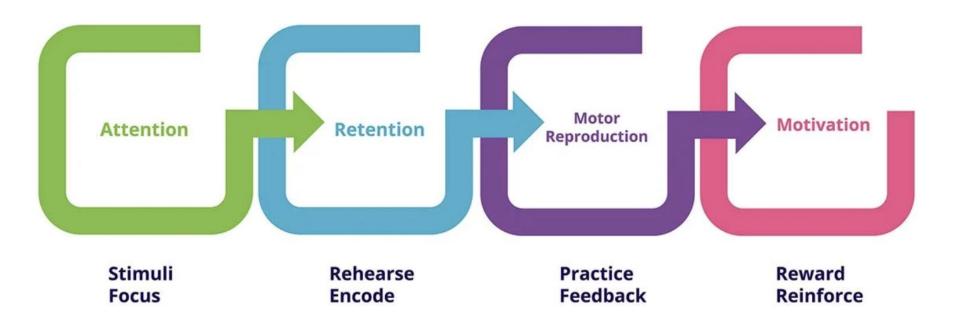


Dale's Cone of Learning

UCONN REGION 1 TECHNICAL ASSISTANCE TO BROWNFIELDS

How Do People Learn?

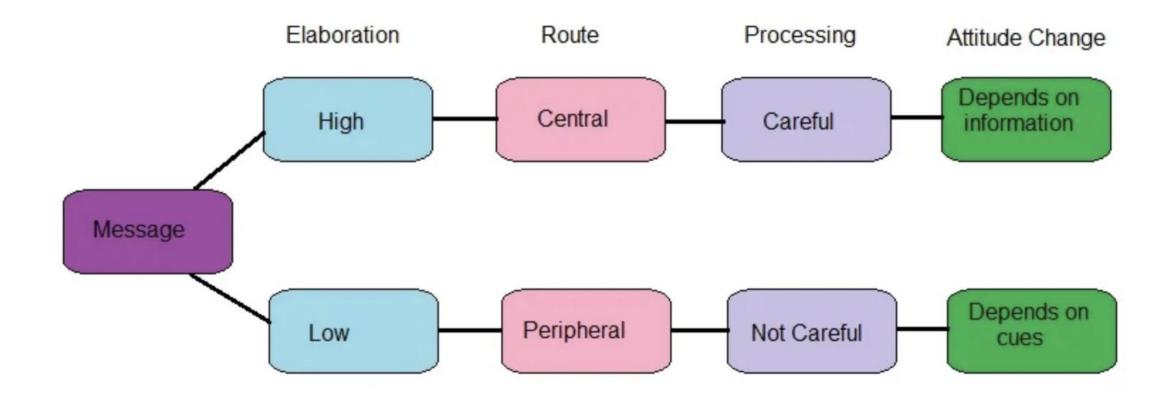
Social Learning Theory







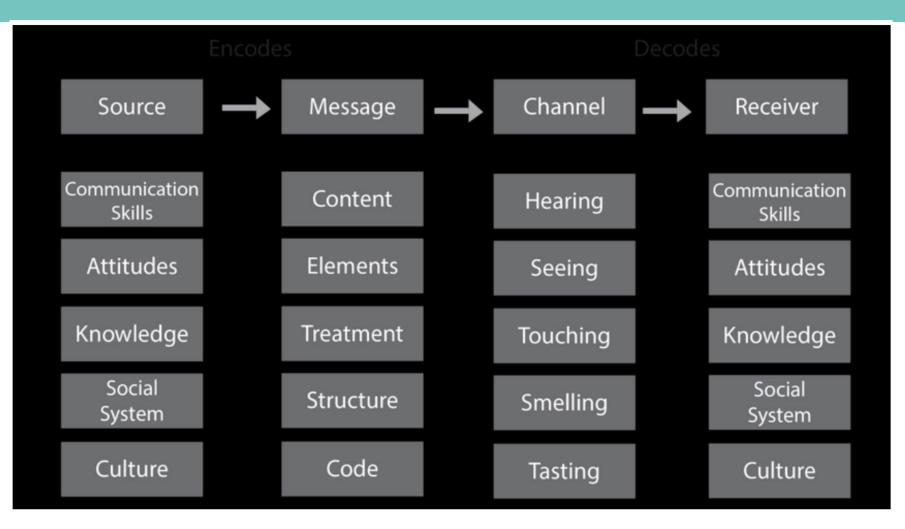
How Do People Form Attitudes?







Berlo's SMCR Model of Communication (1960)





Berlo's (1960) Source-Message-Channel-Receiver Model of Communication. Developed from Process of communication: An introduction to theory and practice.



Message Framing Strategy: Making It Feel Relevant

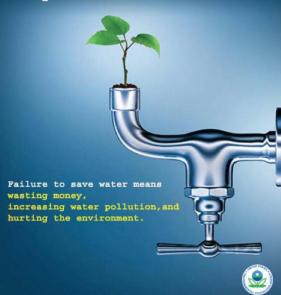
Gain Frame

Think about what will be gained if you save water.

Saving water means saving money, reducing water pollution, and protecting the environment.

Loss Frame

Think about what will be lost if you don't save water.



Gain Frame

THINK ABOUT THE BENEFITS OF RECYCLING

What will happen if we change our actions to take better care of our environment? The answer is simple.

When we recycle ...

- We will sustain our environment for future generations. Every ton of paper recovered for recycling is a ton that does not go to the landfill.
- We will save huge amounts of water and energy.
- We will prevent pollution problems caused by decreasing the need to collect new raw materials. It leads to lower greenhouse gas emissions that contribute to global climate change.
- We will conserve our natural resources, such as timber, water, and minerals.



Loss Frame

THINK ABOUT THE COSTS OF NOT RECYCLING

What will happen if we don't change our actions to take better care of our environment? The answer is simple.

When we don't recycle ...

- We will not sustain our environment for future generations. Every ton of paper discarded without recycling is a ton that goes to the landfill.
- We will lose huge amounts of water and energy
- We will create pollution problems caused by increasing the need to collect new raw materials. It leads to higher greenhouse gas emissions that contribute to global climate change.
- We will waste our natural resources, such as timber, water, and minerals.







Message Framing Strategy: Making It Feel Relevant



Can you See the Difference?





Relative Deprivation Strategy: Making It Feel Relatable









Relative Deprivation Strategy: Making It Feel Relatable



Can You Feel the New Setting?





Relative Devastation Strategy: Making It Feel Real









Relative Deprivation Strategy: Making It Feel Relatable

Can You Experience the New Reality?







Promise Strategy: Focusing on the Children









Legacy Strategy: Honoring The Community Builders









Promise Strategy: Building A Livable Community









Social-Ecological Model in Communicating EHL

- Set clear goals of the EHL program for the target populations and/or communities.
- Learn about the community's culture, economic conditions, social networks, political and power structures, norms and values, and demographic trends.

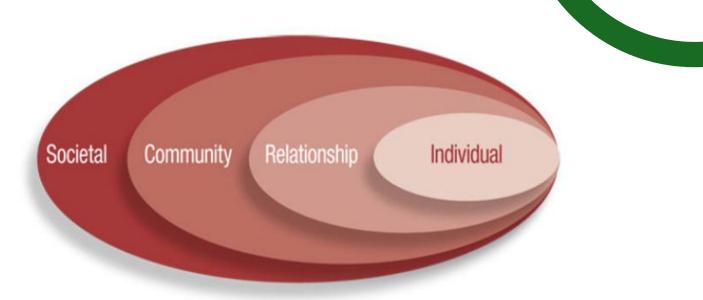


Figure 1.2. The Social-Ecological Model: A Framework for Prevention

• Establish relationships, build trust, work with the formal and informal leadership, and seek commitment from community organizations and leaders to create processes for communicating EHL.

ASSISTANCE TO BROWNFIELDS



Impacting Social-Ecological Change

The Influential Group

- 1. Government and legislators
- 2. Corporations and industry

advocacy groups

- 3. Public advocacy groups
- 4. Scientists and Engineers

5. Media industry





The Influenced Group

- 1. Demographics
- 2. Psychographics
- 3. Geographic locations
- 4. Media use habits
- 5. Existing beliefs, knowledge,

attitudes and behavior

- 6. Degree of receptiveness
- 7. Readiness for action





Striving For A Thriving Community

Questions? Comments?

Ideas?

Email: <u>Uconn-tab@uconn.edu</u> Website: <u>Tab.program.uconn.edu</u> LinkedIn: <u>https://www.linkedin.com/in/uconn-tab/</u> Mailing List: Website





