# THE QUEST FOR SUSTAINABILITY

C. E. Heinzel, University of Northern Iowa, Dept. of Earth and Environmental Sciences



- Are we perfect? No, but we are able and working toward the Quest ☺
- Get involved
- Work small , Think big
- Sustainability Certificate
- IGEIN Sustainability webpage



#### **United Nations**

Oct. 24, 1945

San Francisco

50 Countries

Peace, dignity, and equality on a healthy planet

USA withdraws from Human Rights Commission with North Korea, Iran and Eritrea







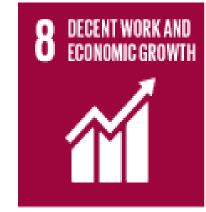
















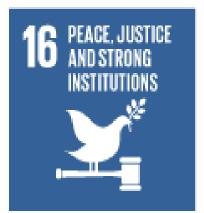
















# Health & security Poverty

Hunger/Food security

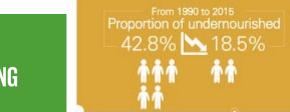
Equality

Wellness











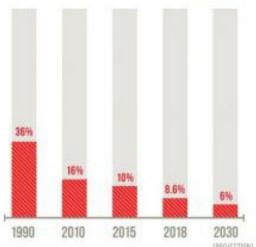




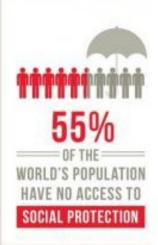


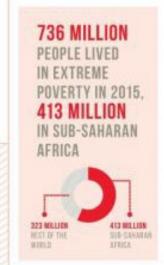
END POVERTY IN ALL ITS FORMS EVERYWHERE





MORE THAN 90% OF DEATHS
DUE TO DISASTERS OCCUR IN LOWAND MIDDLE-INCOME COUNTRIES







## Sustainability, language is important

#### Noun

- 1. Sustainability the ability to be maintained at a certain rate or level "the sustainability of economic growth"
- **2. Sustainability -** avoidance of the depletion of natural resources in order to maintain an ecological balance. "the pursuit of global environmental sustainability"

### Sustainable Development

Noun

**Sustainable development** - economic development that is conducted without depletion of natural resources. "international policies should support sustainable development"

## Jared Diamond – Collapse

- Connection to and understanding of our Environments
- 2. Climate change (warming or coomy,
- 3. Hostile neigh Effective and open communication

  Social and Soci willing to figh Creativity, ingenuity and hard work
- 4. Once friendl Social awareness : you
- 5. Political, social, culture race.

## How do we get there? – Responsibility

- 1. You, The Individual's Role in a Civilization
- 2. Extreme ownership
- 3. Quality Education to meaningful/purposeful careers
- 4. Think Critically
- 5. Effective and open communication
- 6. Creativity, ingenuity and hard work
- 7. Social awareness
- 8. Connection to and understanding of our Environments
- 9. Health and security
- 10. Understand scale and time



Many Hands Make Light Work

## How do we get there?

- 1. You, The Individual's Role in a Civilization
- 2. Extreme ownership
- 3. Liberal arts education
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## Margaret Mead

"Never doubt that a small group of thoughtful, committed citizens can change the world; indeed, it's the only thing that ever has."

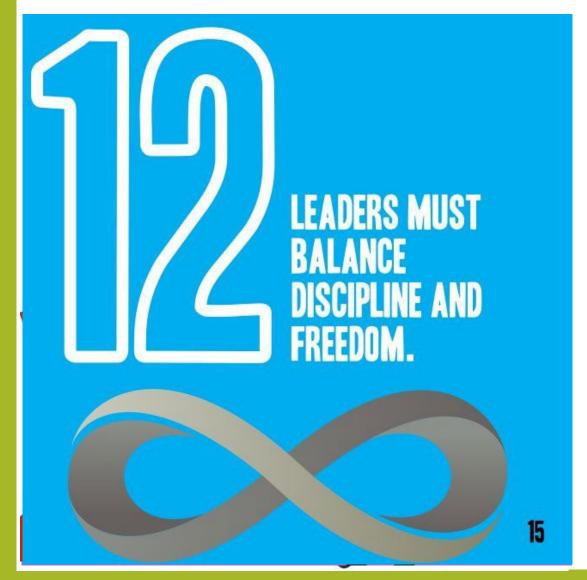
## Individuals can't solve the climate crisis, alone; Governments and Industries need to step up!

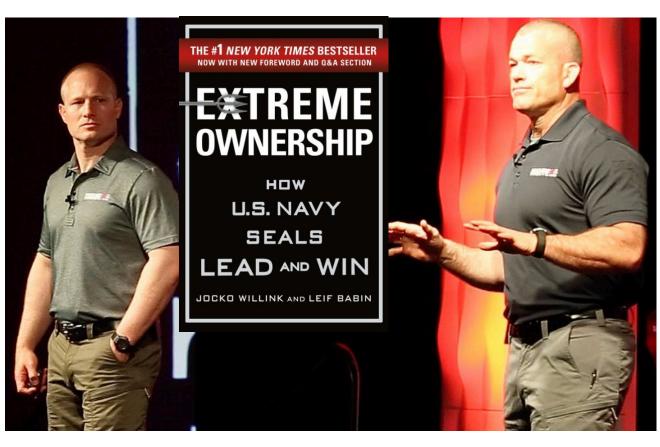
#### **Anders Levermann**

People do have a responsibility – to stay informed and demand the politicians make the planet their priority



## Extreme ownership/Leadership





# Quality Education/

Northernlowa

Cedar Falls, Iowa, USA

- Lifelong learning University of
- A. General Education Prep
  - B. Never stop learning
  - c. Be adaptive and flexible
  - D. Use digital technologies as a tool not a crutch



### Robin Wall Kimmerer

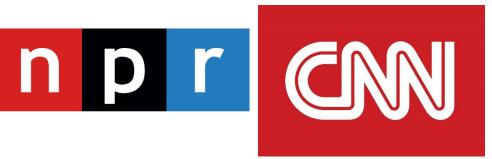


- It is important to blend diverse perspectives when addressing complex problems
  - E.g. Native American wisdom with scientific knowledge
- Language is important
  - The grammar of animacy
- Is sustainability enough?
  - The power of reciprocity

### Think & Act Critically

 Know where and how to access reliable information





- Ability to distinguish knowledge from opinion
  - 2019 Only 14% of Americans were able to do this!

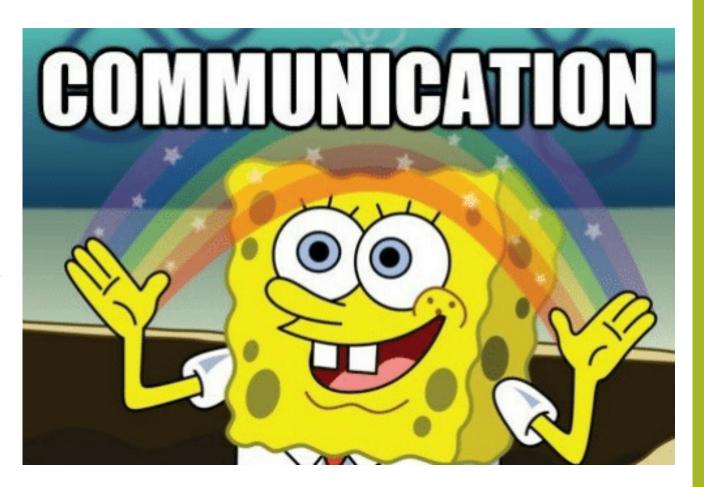
 Be comfortable incorporating new information into your past and current life experiences to make informed decisions



Think for yourself, Question authority Tool, Third Eye

## Effective & open communication

- Reading, writing, speaking (personally and digitally)
- Qualitative and Quantitative
- KNOW YOUR AUDIENCE
- Be able and willing to peacefully interact with people that have different backgrounds, beliefs, ideals...

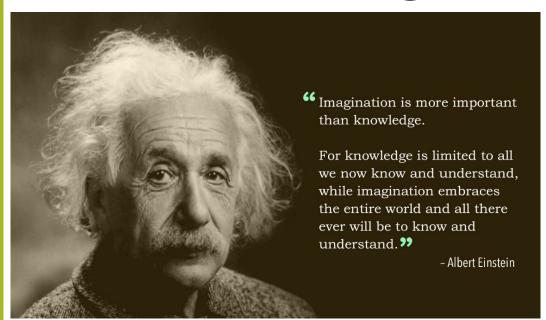


## Katharine Hayhoe

- Do talk about the environment and climate change
- Talk about what matters to people, be able to relate to diverse audiences
- Remain positive, what we do today and tomorrow has never been more important. Our individual and collective actions are important.
- Make time for creative outlets.



## Creativity, ingenuity & hard work











Rachel Beck



## Social awareness – Courage & Empathy

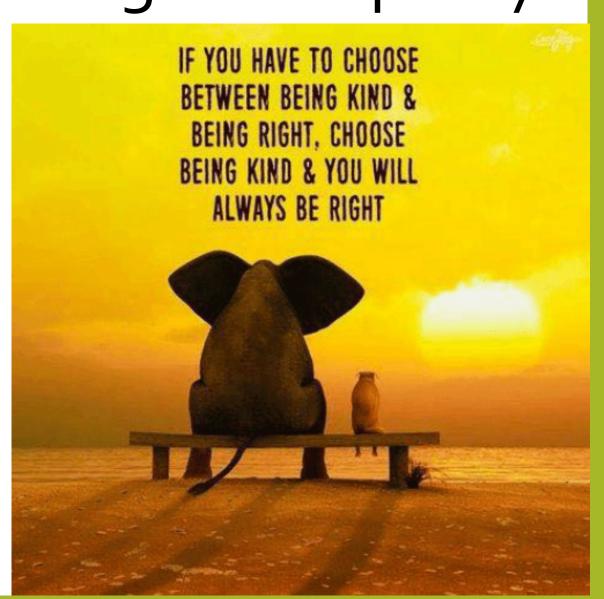
Are we working together, looking out for one another?

NO – Can we be better - YES

Is Social Media the answer OR the problem?

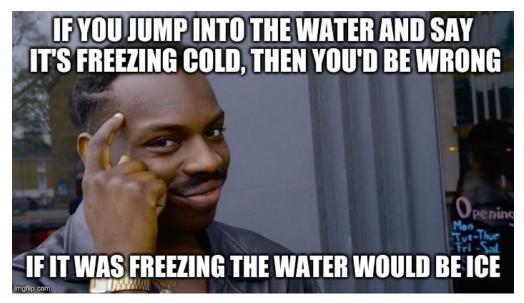
What do you truly like Vs. What are you marketed to like

https://www.theatlantic.com/magazine/archive/2020/03/climate-change-peer-pressure/605515/



### Connection to & understanding of our Environments

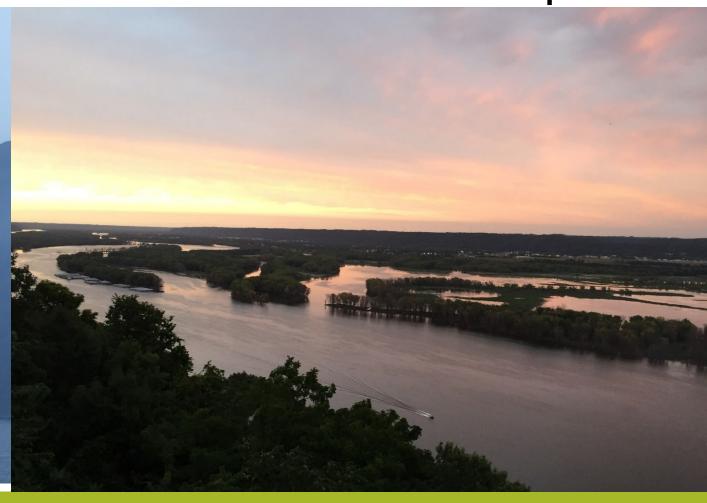
#### Science



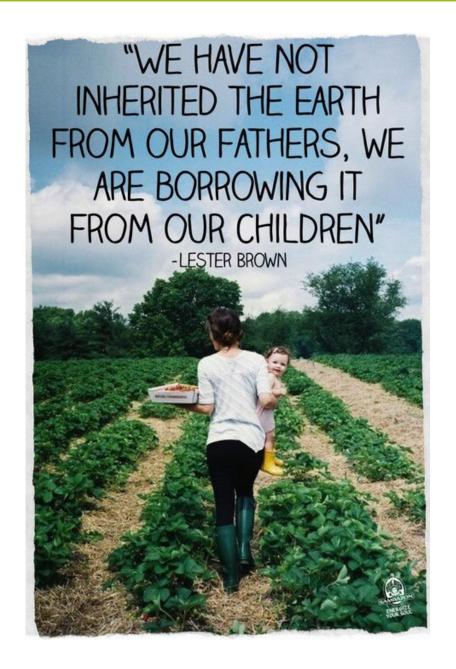
Nature deficient disorder/ No child left inside

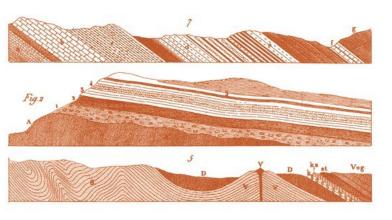
Outdoor recreation

Sense & connection to place



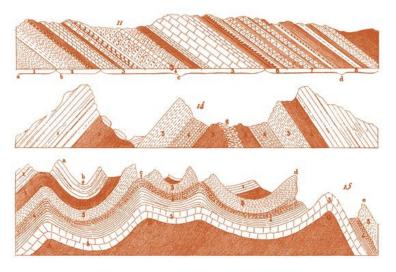
# Scale & time





#### TIMEFULNESS

HOW THINKING LIKE A GEOLOGIST CAN HELP SAVE THE WORLD



MARCIA BJORNERUD

## NPR Market Place - Larry Fink

- Jonny Martin 'Long-term returns require looking into more than profits'
- Kelly Biscoglia 'Companies who focus on long-term issues will be more successful'
- Numerous of you ☺
  - Good companies are built upon Good employees.
  - Good companies take care of their employees, their families and retirements.
  - Good companies are built on complex adaptive coalitions (Ref. Smith and Friedman)

### Good Civilizations are built upon Responsible citizens

