

ONE HEALTH WORKSHOP: DAY 1



Colorado State University
**ONE HEALTH
INITIATIVE**

January 28, 2016

INTRODUCTIONS

Introduce yourselves at your table – 30 seconds each

Name and affiliation

Motivation for being here

AGENDA OVERVIEW

Day 1

- Framing
- Purpose & Vision
- Focus Areas
- Report Out & Synthesis
- Networking

Day 2

- Design Challenge
- Presentations
- Wrap-up
- Survey

Goals & Objectives

- Create a shared sense of purpose for the One Health Institute
- Explore patterns & trends around which the Institute will be focused
- Develop synergistic relationships among participants to build the foundation for the One Health Institute's community

Nov. 2015

Sept. 2016

Activity One
Big Ideas
2–4 mo.

Prep Work

Team Formation & Kick-Off

SWOT Analysis

Visioning Workshop(s)

How we Define Health

Define Project Area
Focus

Big Ideas Brainstorm

We are here!

Vetting

Develop/Prototype
Big Ideas

Presentations

Activity Two
Strategic Operating Plan
1 mo.

Program Planning

Finance/Operations

Governance

Programs

Community
Engagement

Outreach

Partnerships/Sponsorships

Activity Three
Ongoing Support
6 mo.

Program Management

Fund & Conduct
Research

Ongoing Engagement

Evaluation

Renewal

TODAY'S AGENDA

Framing

→ Break

Purpose Statement

→ Lunch

One Health Program Areas

→ Break

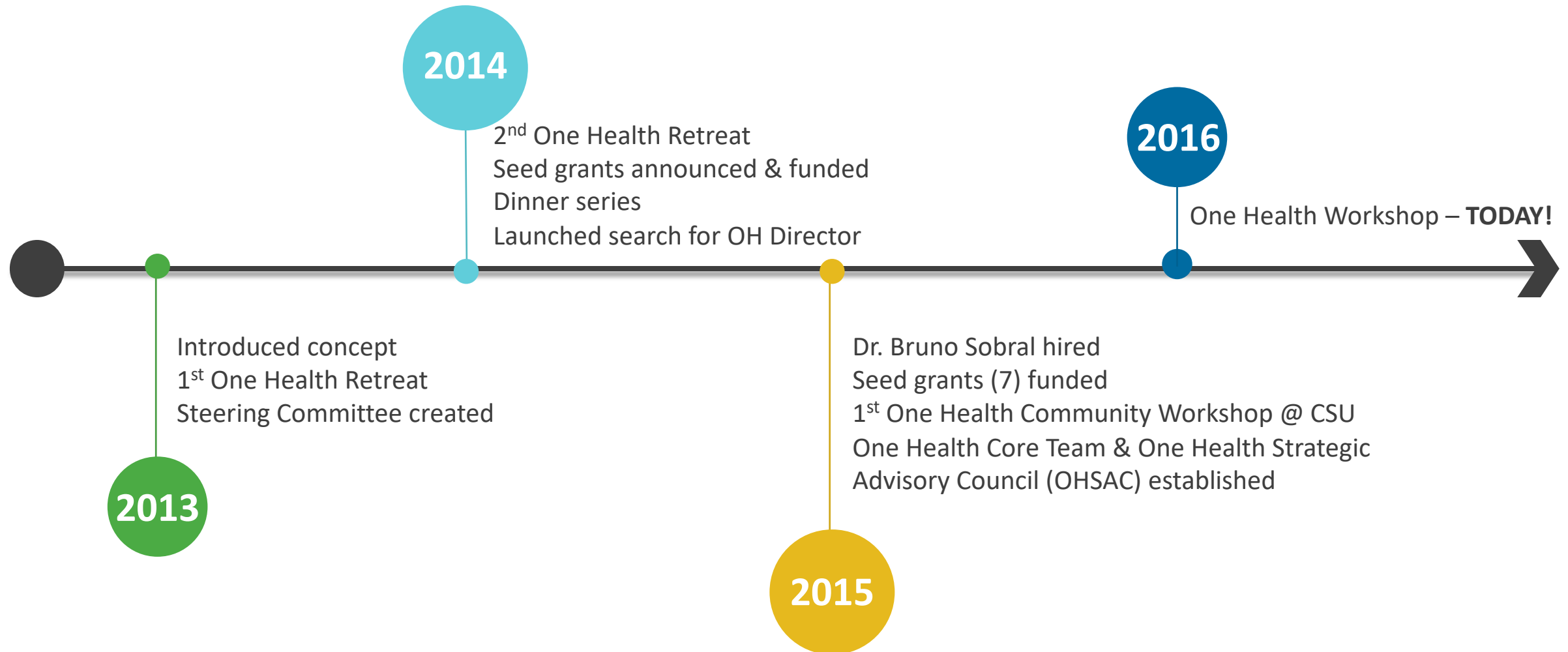
Report Out & Recap

Networking



FRAMING

ONE HEALTH INITIATIVE @ CSU



health

acknowledges communities
collaboration Connectedness engagement
challenges prevention detection
Collaborating Occupational applications Impact
solutions change address/find associated
fully Economic social Design environmental
animals citizen interdisciplinary agricultural Wellness
research complex Development Plant innovative
between Leadership problems agencies about
Connection component Data Child Cognitive system
contribute One Crisis Cancer Chronic all food
consider diagnostic future Especially OH changes
chain Deep among based Co-Created Big care interactions
Public Behavior departments environment
action Driven Integrating Building CSU's creativity
biology changing environment-health animal
Formation being aspects
diagnostics systems Infectious issues
existing science connections approach disciplines
agriculture disease human education
Community Computational collaborative
conservation across/beyond concerns

INSTITUTIONALIZING THE INITIATIVE

Origin of **institute** – Middle English: from Latin institut- 'established', from the verb instituere, from in- 'in, toward' + statuere 'set up'. The noun is from Latin institutum 'something designed, precept'..."

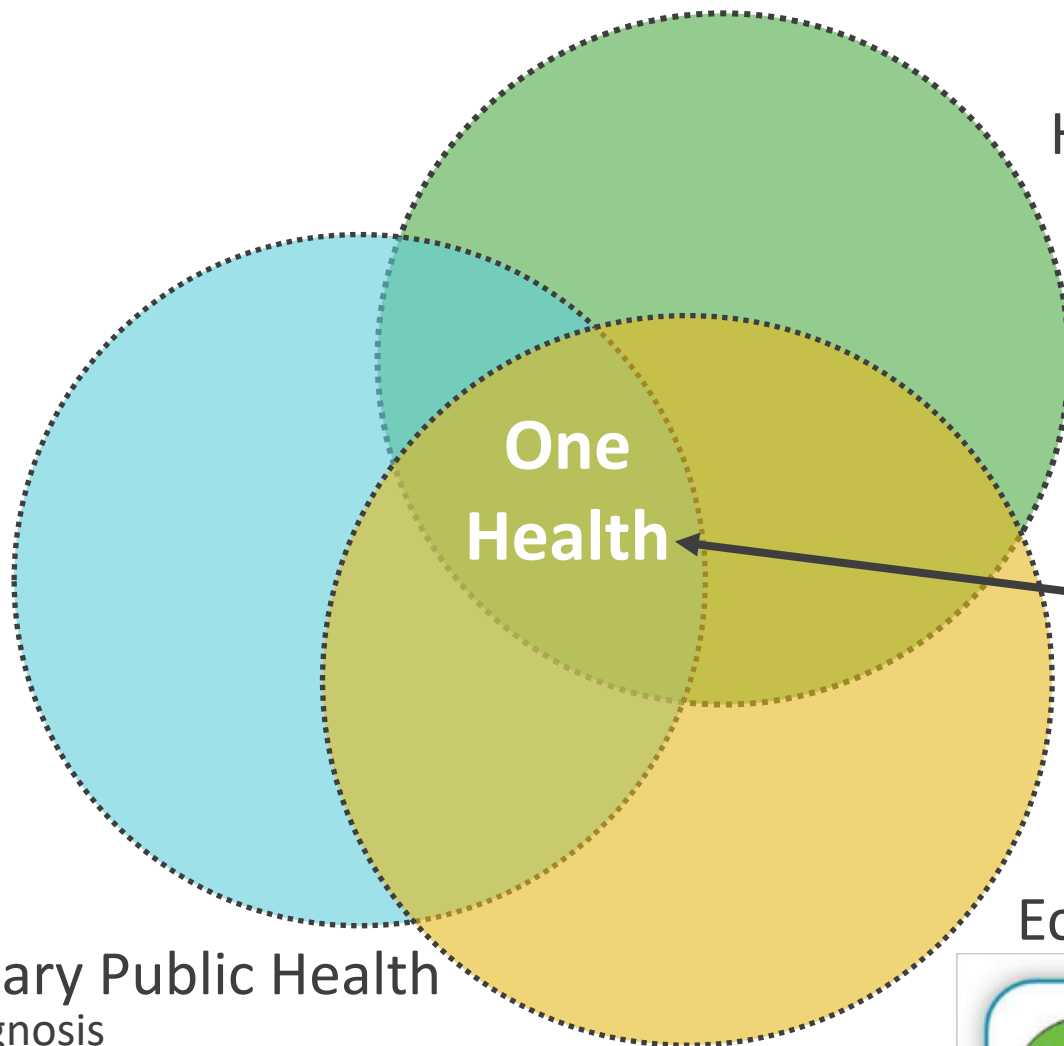
Oxford Dictionary

Institute (n): "A society or organization having a particular object or common factor, especially a scientific, educational, or social one."

Oxford Dictionary

Institute (v): "Set in motion or establish (something, especially a program, system, or inquiry)."

Oxford Dictionary



Human Public Health

- Vaccinations
- Workplace safety
- Infectious disease control, etc.

Advocate for community health
Antimicrobial resistance surveillance
Preventative health services
Create and support health with communities
Collect and analyze data, etc.

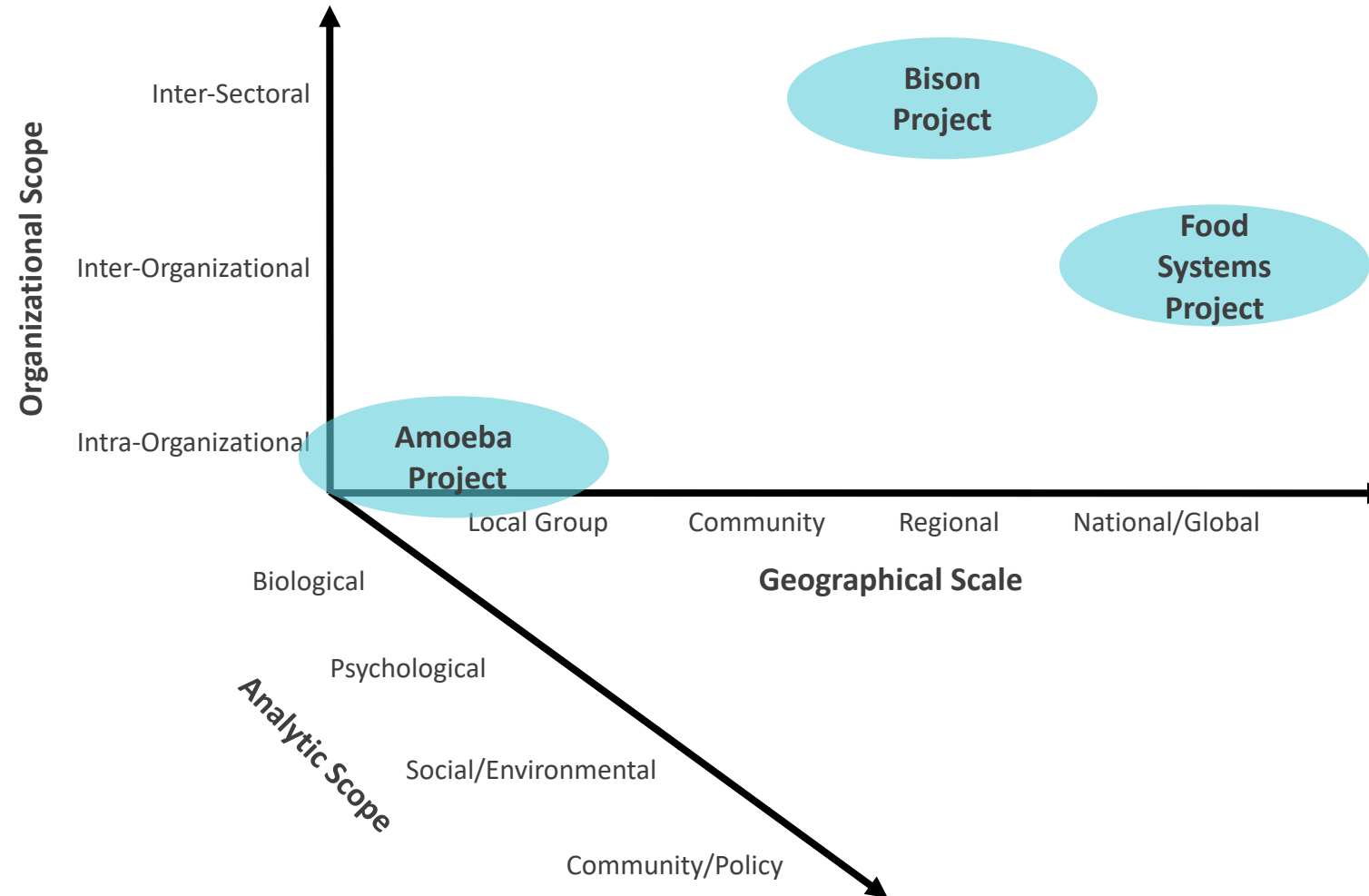
Ecological Public Health

Veterinary Public Health

- Diagnosis
- Food Protection
- Elimination of Zoonoses
- Biomedical Research
- Laboratory animal facilities, etc.



SCOPE



HOW CHILDHOOD TRAUMA AFFECTS HEALTH ACROSS A LIFETIME



Presenter: Nadine Burke Harris

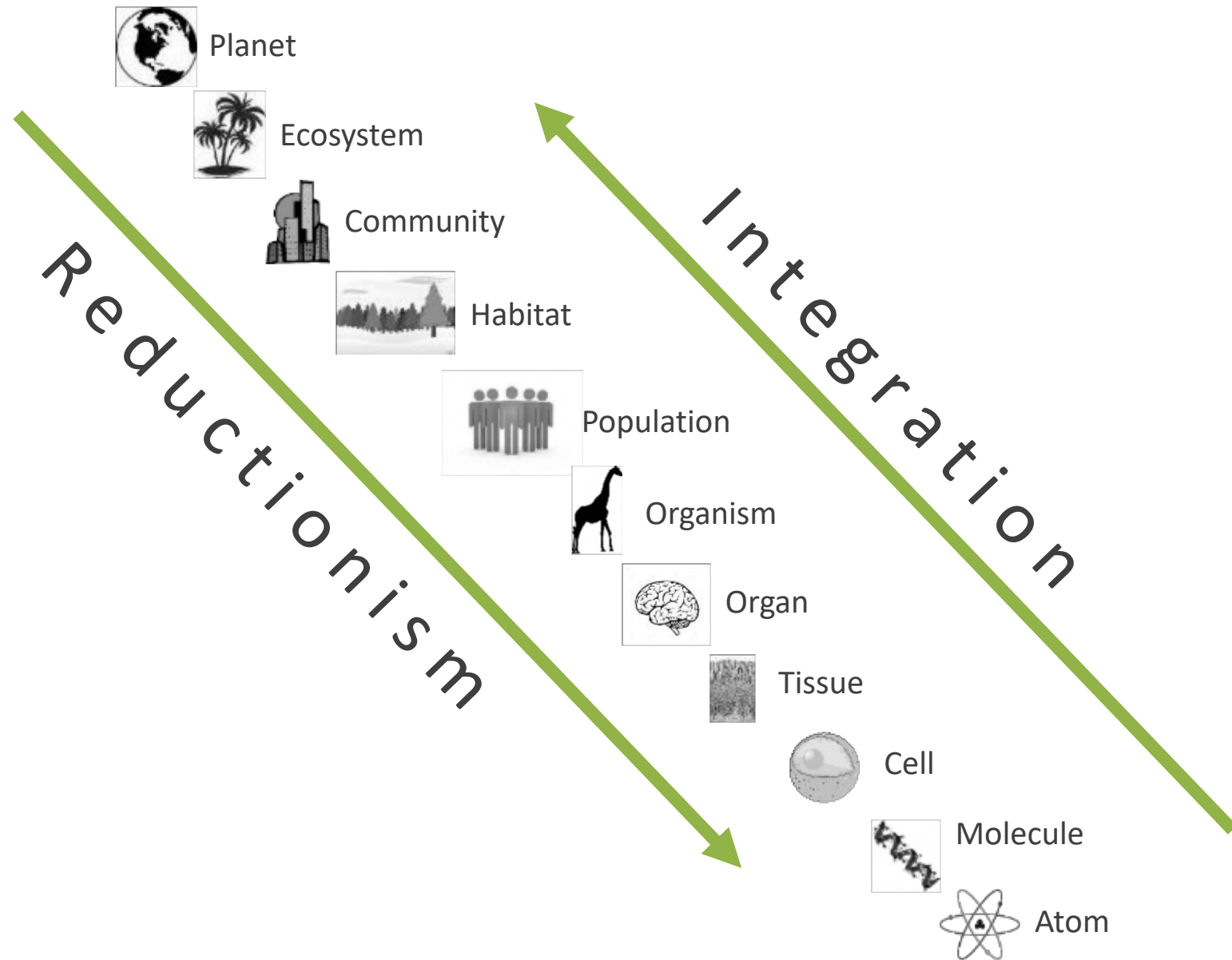


What do we need to do to implement this type of thinking?

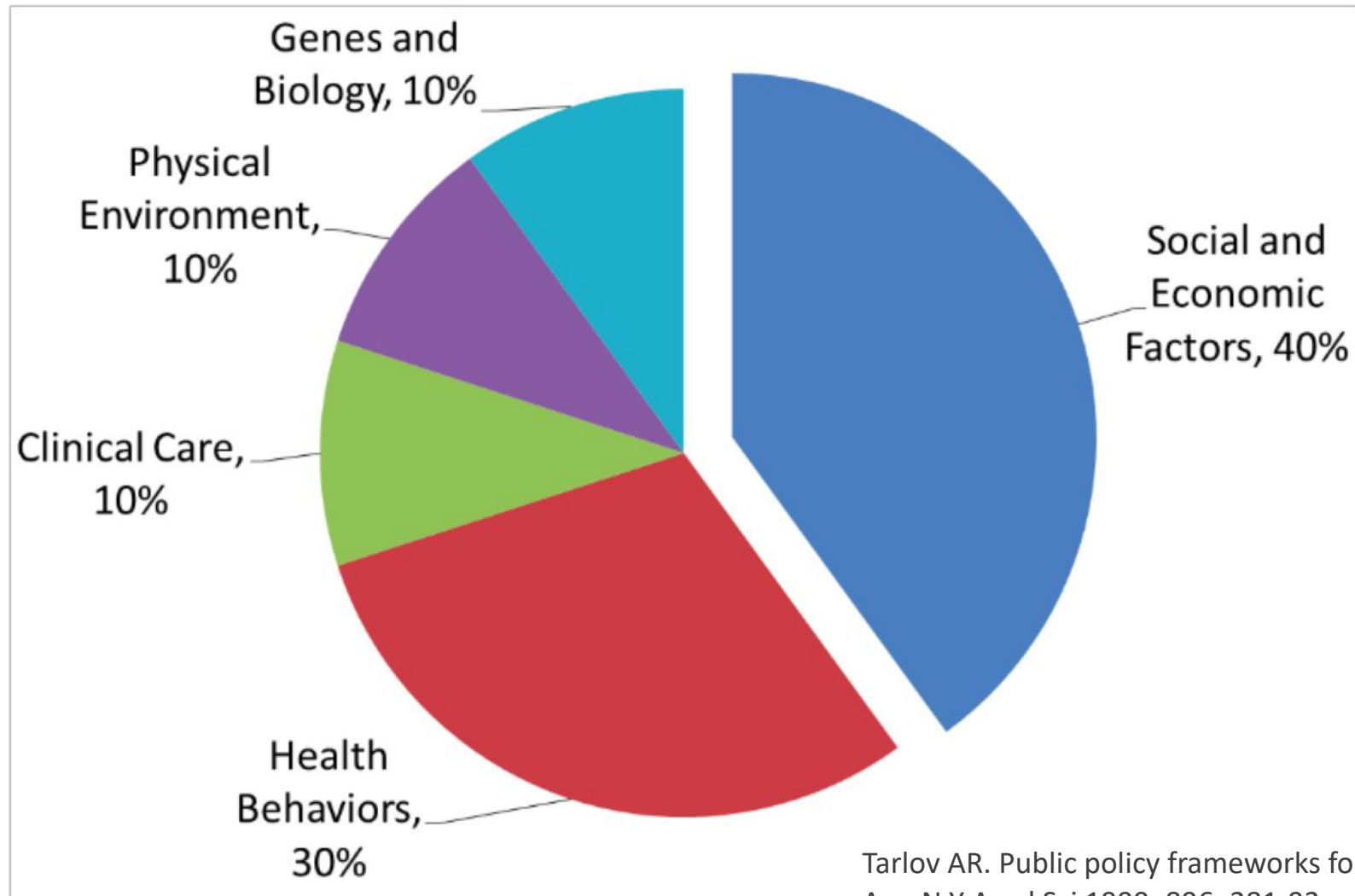


Create Futures We Desire

Communities of Solution



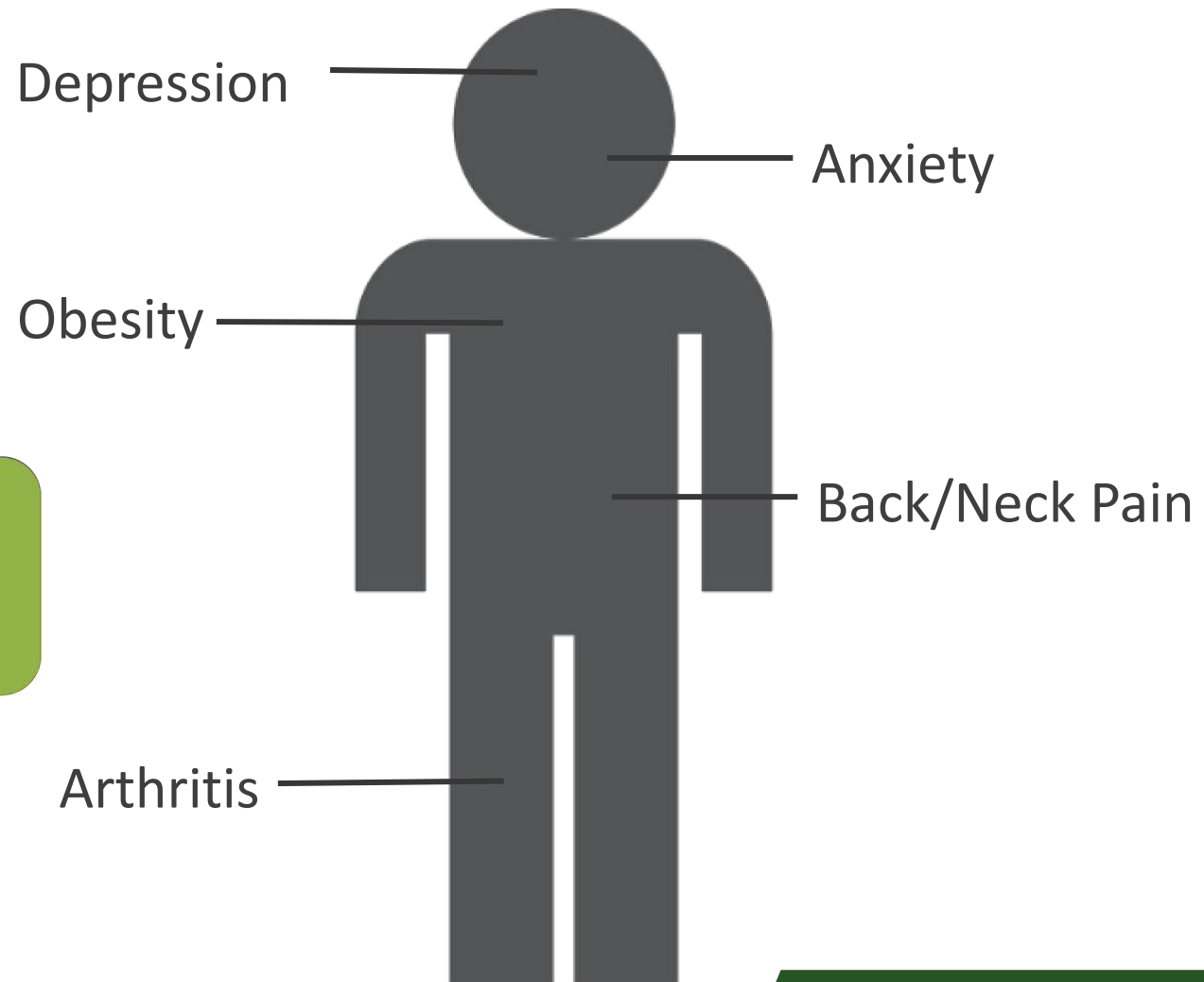
FACTORS DETERMINING HEALTH



Tarlov AR. Public policy frameworks for improving population health.
Ann N Y Acad Sci 1999; 896: 281-93.

A CASE FOR INTEGRATED HEALTH SERVICES

Top 5 Conditions Driving Health Costs



THE NEED FOR A GLOBAL HEALTH ETHIC

“An ethic, to be an ethic, has to develop in the minds of a thinking community—i.e., the people who will live by it—and not be thrust upon them.”

Tony L Goldberg, Jonathan A Patz

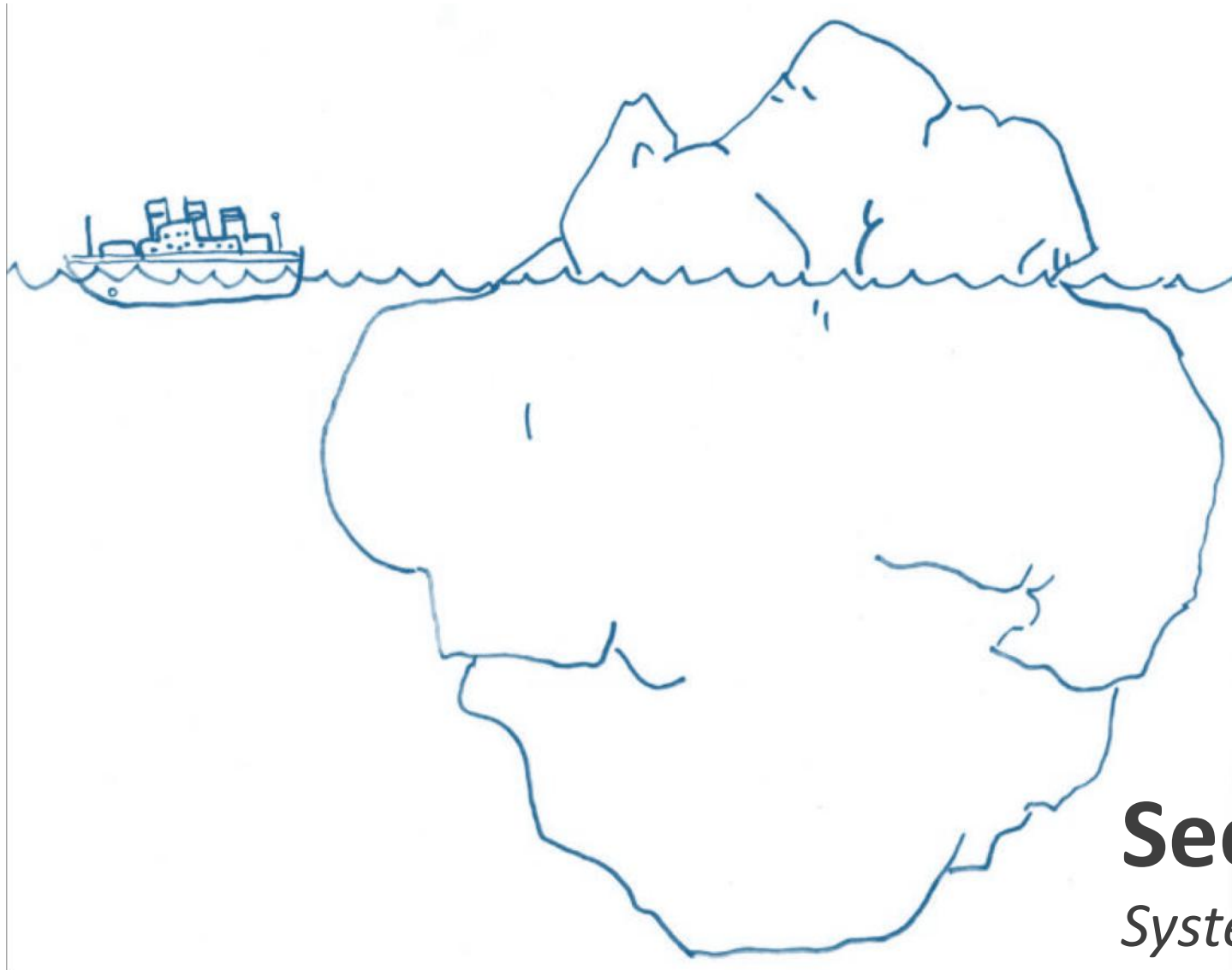
Global Health Institute and Nelson Institute for Environmental Studies, University of Wisconsin–Madison, Madison, WI 53706, USA (TLG, JAP); School of Veterinary Medicine, University of Wisconsin–Madison, Madison, WI, USA (TLG); and School of Medicine and Public Health, University of Wisconsin–Madison, Madison, WI, USA (JAP)

EMERGING PRINCIPLES FOR CREATING HEALTH

- Letting people define health
- Embracing complexity including being open to unintended consequences
- Running programs for at least five years
- Giving community control
- Focusing on value before considering metrics
- Always operating at the individual and community level
- Meticulously recording processes
- Accepting failure while looking to fail fast (learning)
- Building a resilient team
- Embracing the notion of group attribution

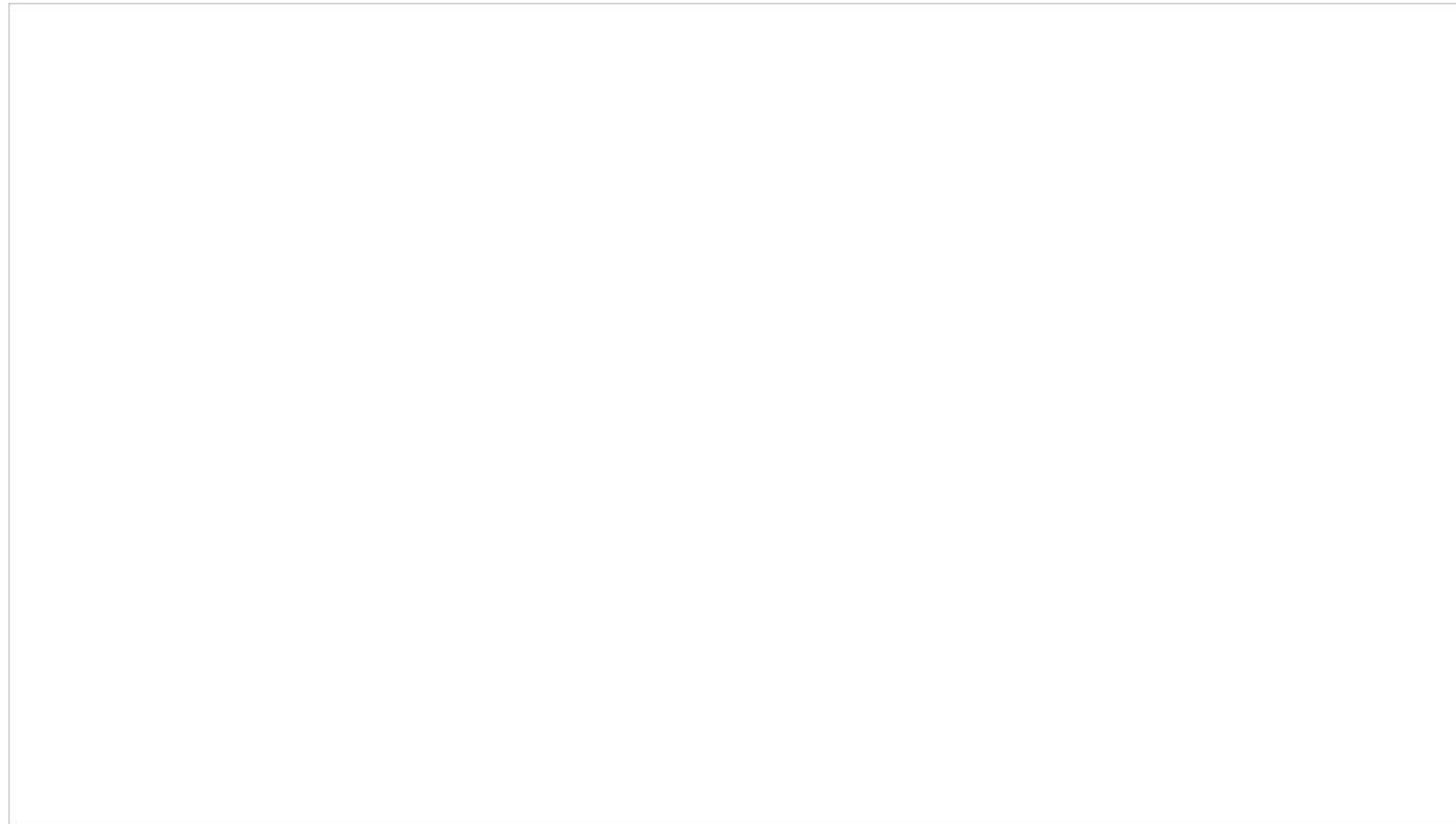
The Creating Health Collaborative

<http://www.pstamber.com/creating-health>



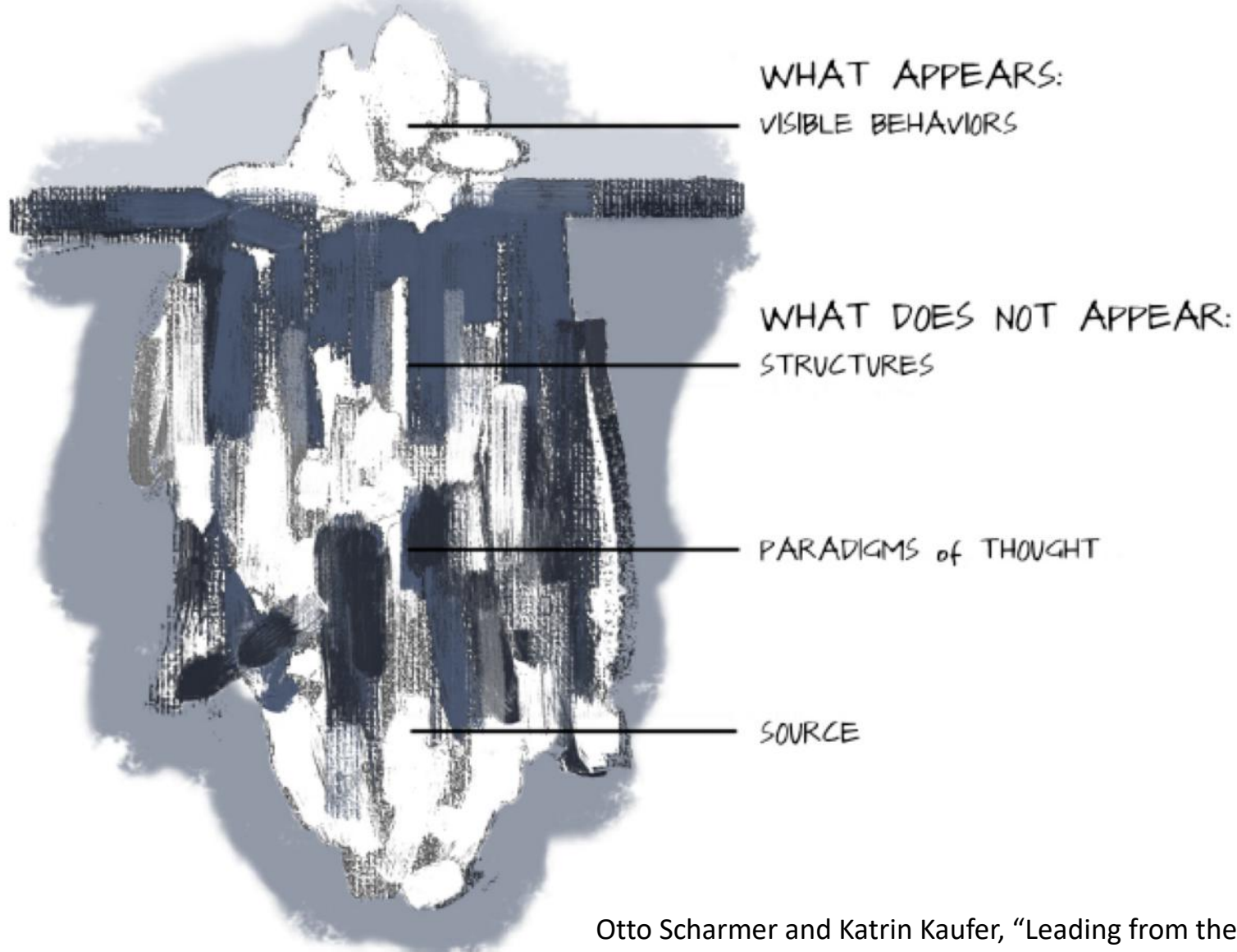
See the Whole System
Systems Thinking

CAUSES OF SYSTEM BEHAVIOR



NSF-funded by Linda Vanasupa et al.

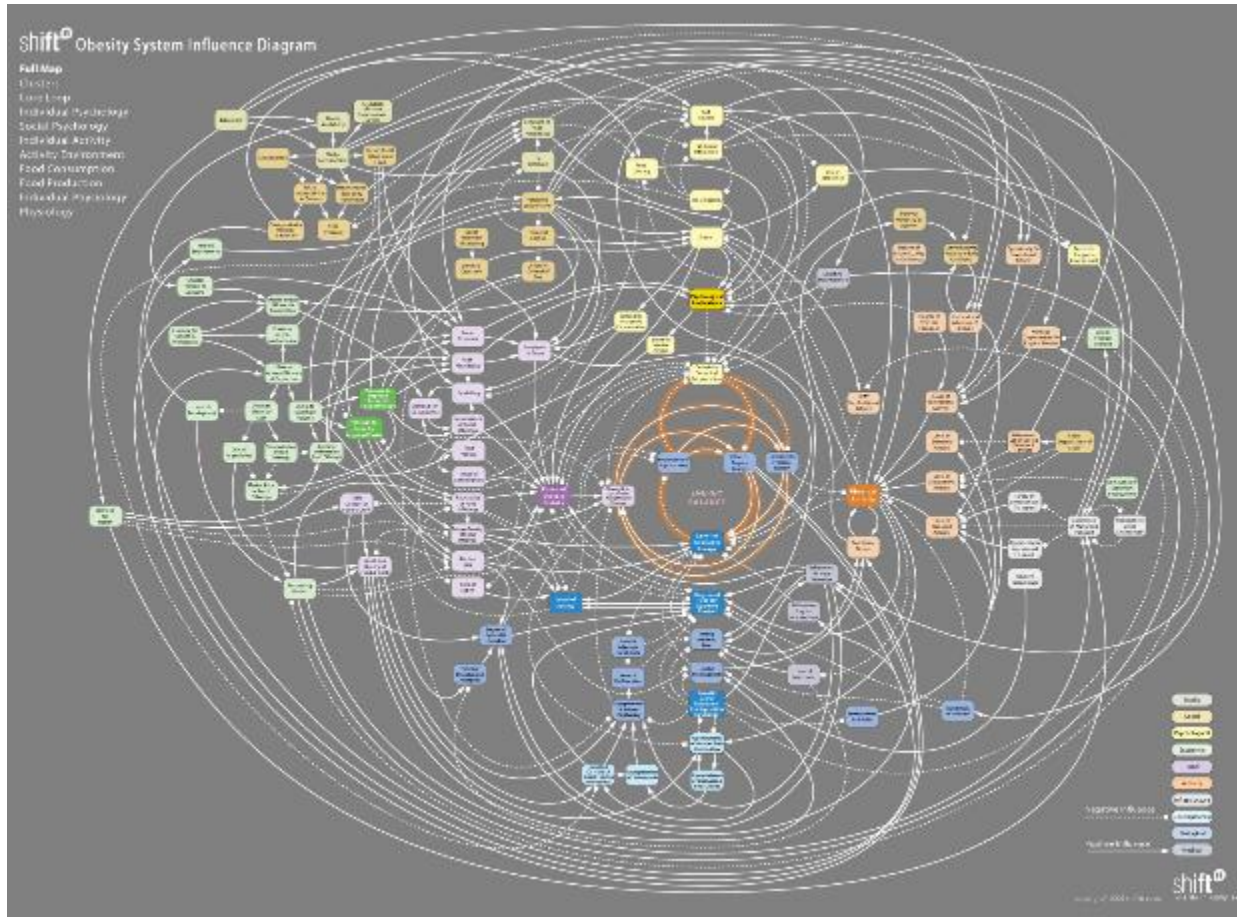
ICEBERG MODEL of CURRENT REALITY



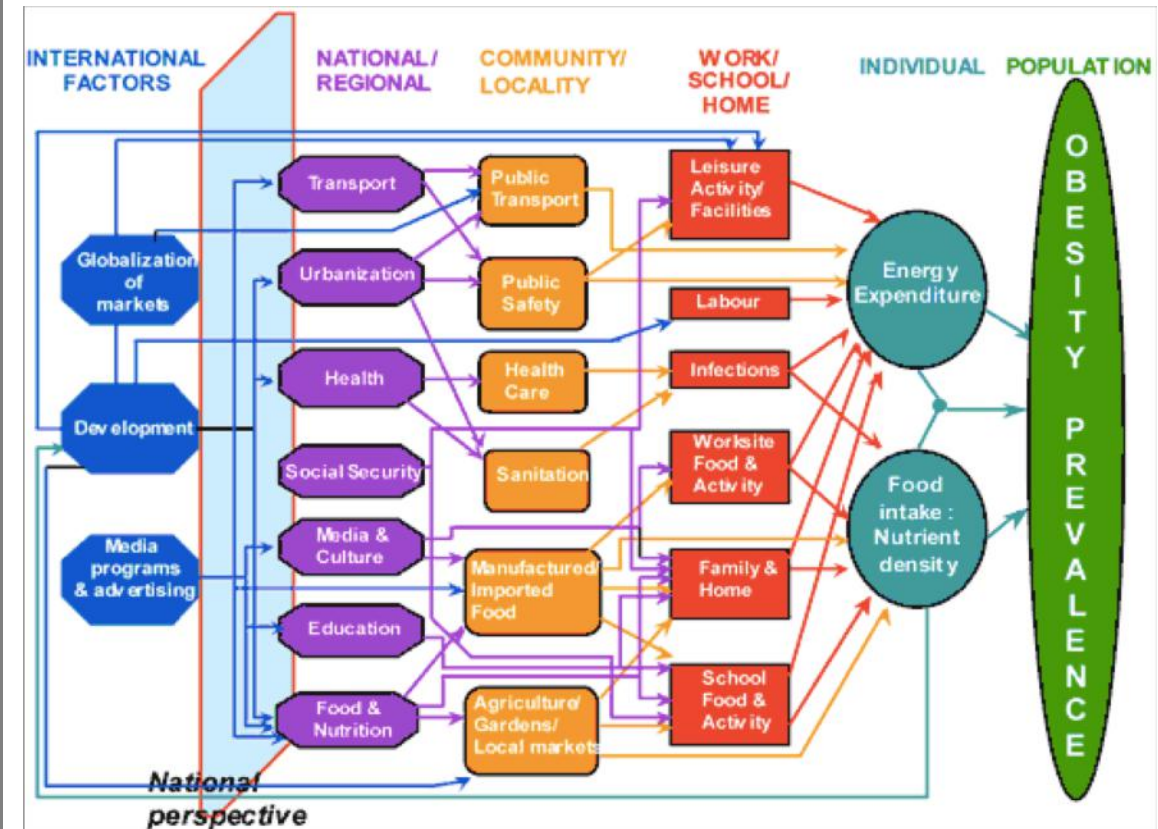
THE ICEBERG MODEL

The iceberg model as a whole suggests that beneath the visible level of events and crises, there are underlying structures, paradigms of thought, and sources that are responsible for creating them. If ignored, they will keep us locked into re-enacting the same old patterns time and again.

EMBRACING COMPLEXITY...



Vandenbroeck P, Goossens J, Clemens M. Tackling Obesities: Future Choices–Building the Obesity System Map. UK: Government Office for Science. 2007. (www.foresight.gov.uk)



Behavioral science at the crossroads in public health: extending horizons, envisioning the future, *Social Science & Medicine* 62 (2006) 1650–1671.

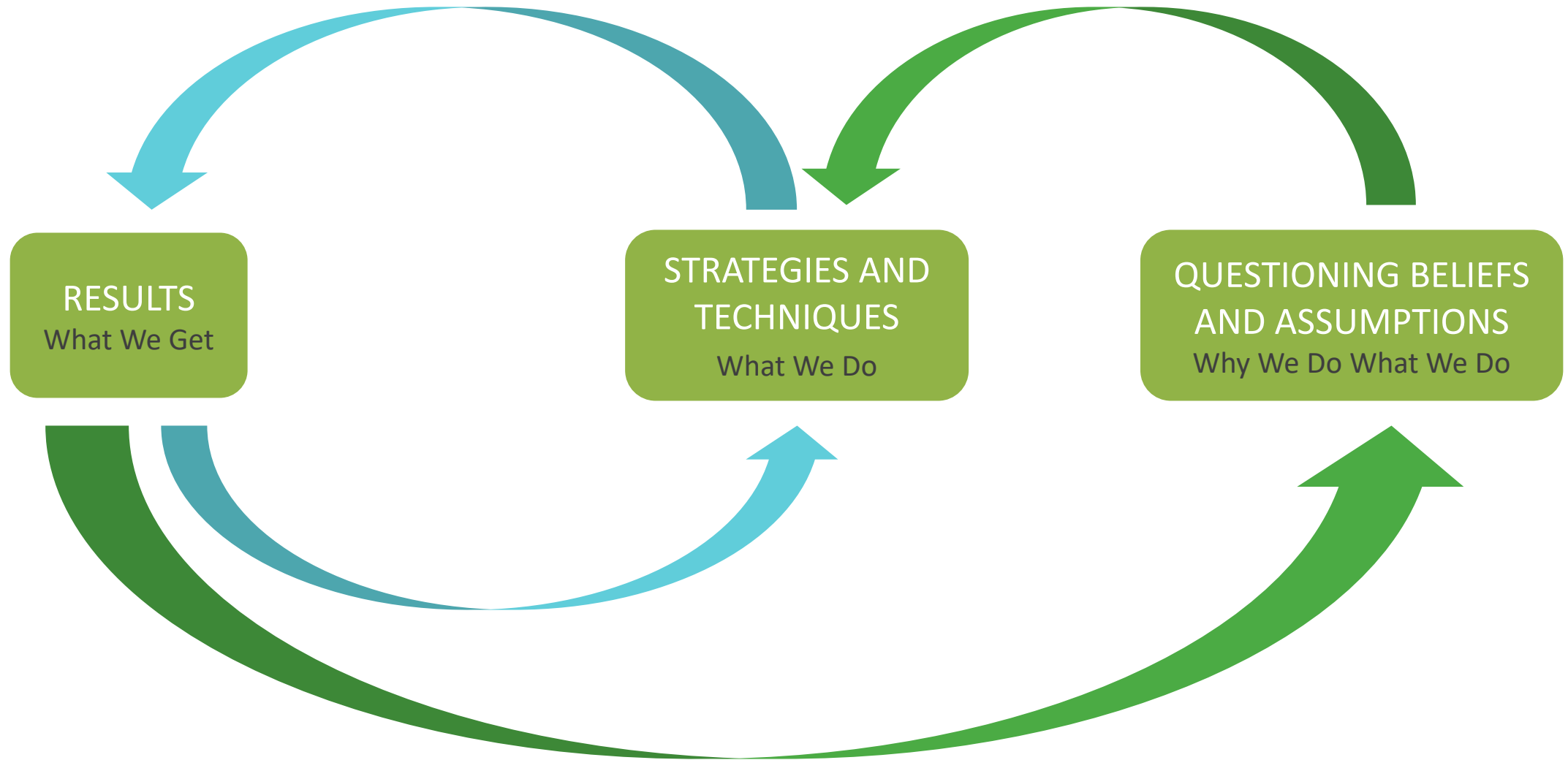
SIMPLIFYING COMPLEXITY



Presenter: Eric Berlow

Single Loop Learning

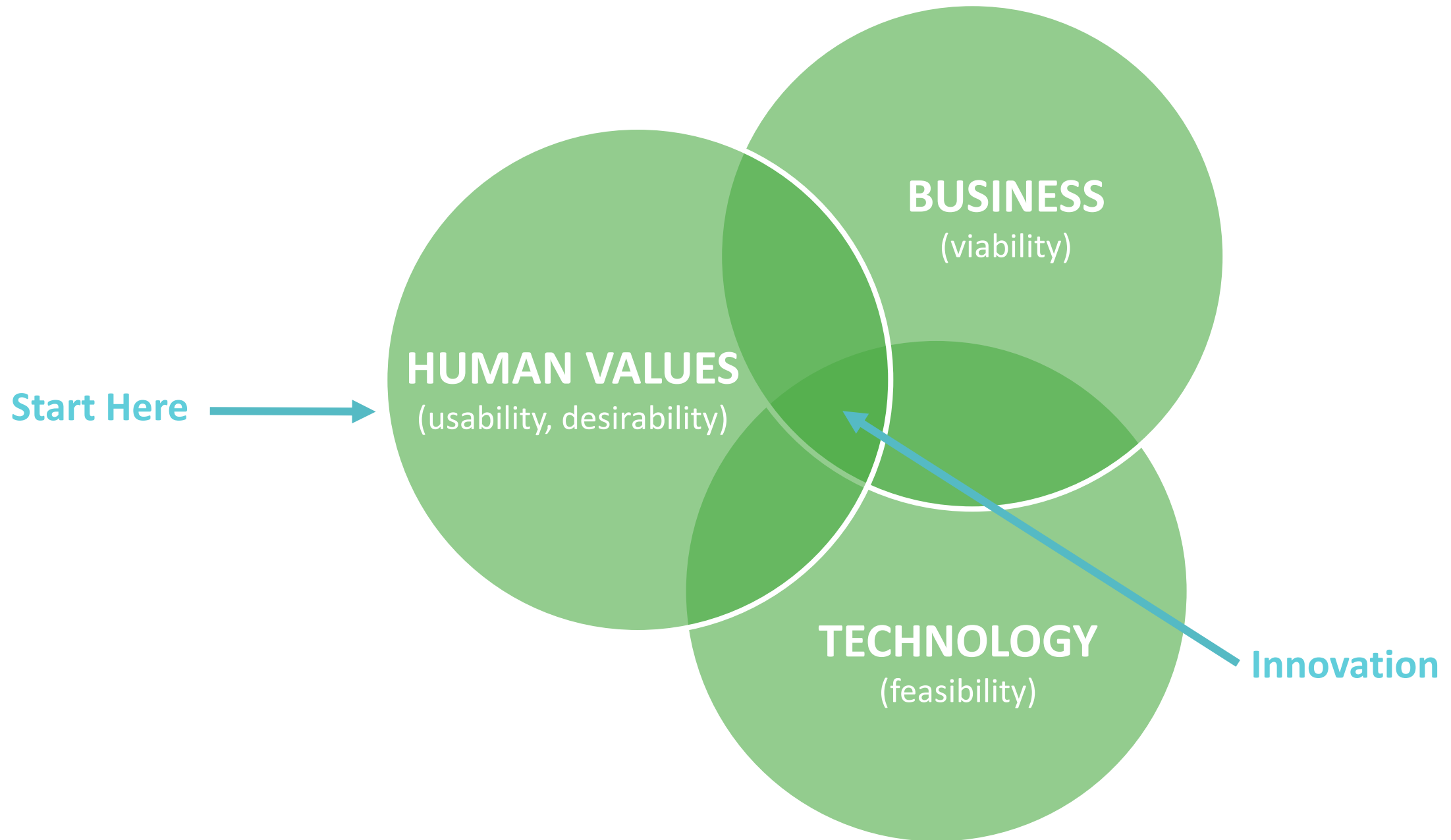
Double Loop Learning

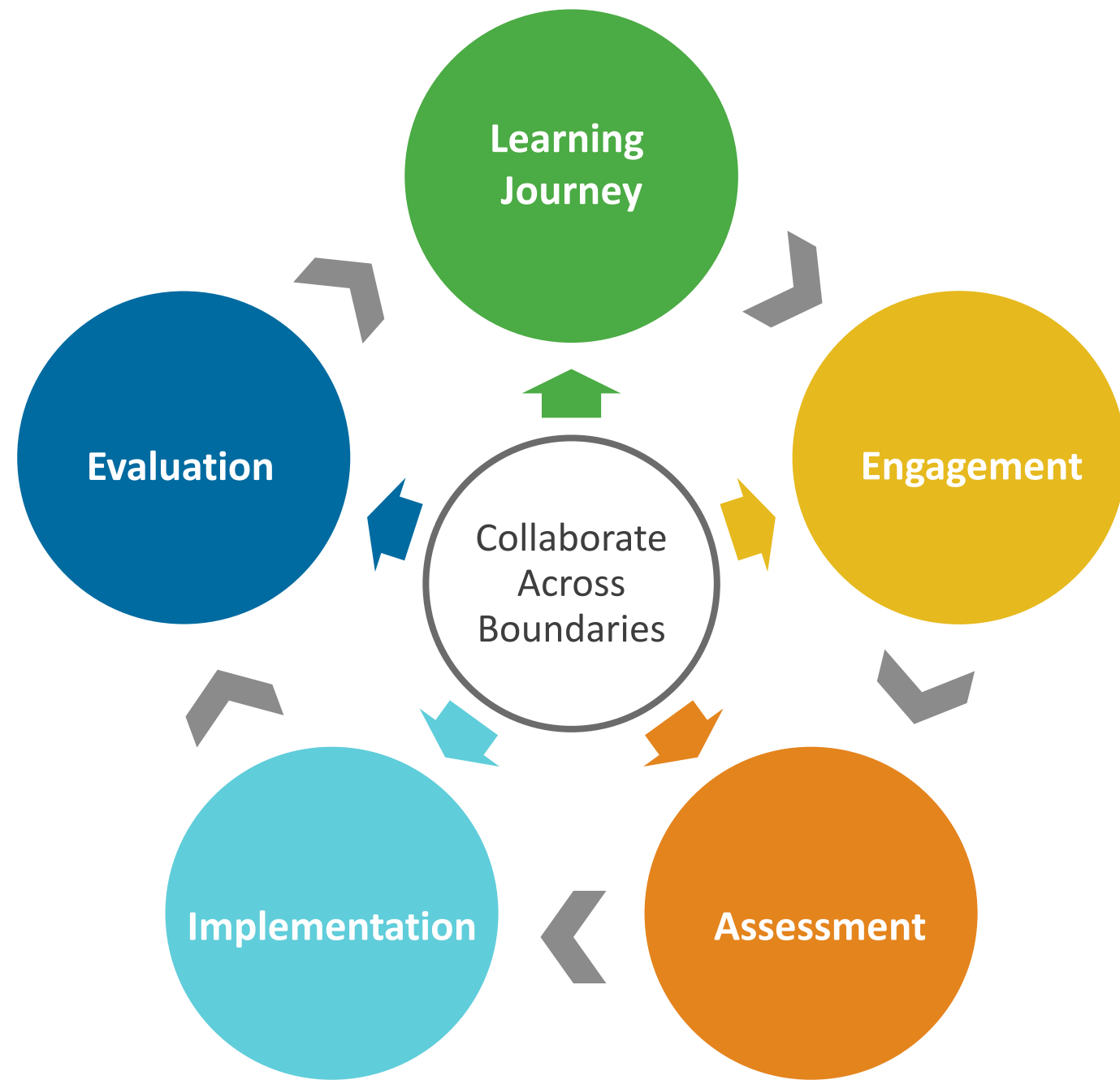


Collaborate Across Boundaries

Human-Centered Design







DESIGNERS – THINK BIG!



Presenter: Tim Brown

ONE HEALTH PRINCIPLES

Create Futures We Desire

Communities of Solution

See the Whole System

Systems Thinking

Collaborate Across Boundaries

Human-Centered Design

BREAK (15 MINUTES)

PURPOSE STATEMENT

PURPOSE STATEMENT

To work within an integrative and solutions-based approach

In a way that engages communities through diverse and evolving knowledge frameworks

So that partnerships for solutions are established and maintained in benefit of the health of animals, peoples and environments.

BREAKOUT INSTRUCTIONS

Group Guidelines

Team Roles

- Facilitator – ensures inclusive participation
- Recorder – document key points & ideas
- Speaker – represent group & report-out
- Time keeper – keep the conversation moving forward

PURPOSE STATEMENT ACTIVITY

Instructions

Step 1 – Individual reflections

Step 2 – Round robin sharing

Step 3 – Group dialogue

Step 4 – Report out

To work within an integrative and solutions-based approach

In a way that engages communities through diverse and evolving knowledge frameworks

So that partnerships for solutions are established and maintained in benefit of the health of animals, peoples and environments.



LUNCH

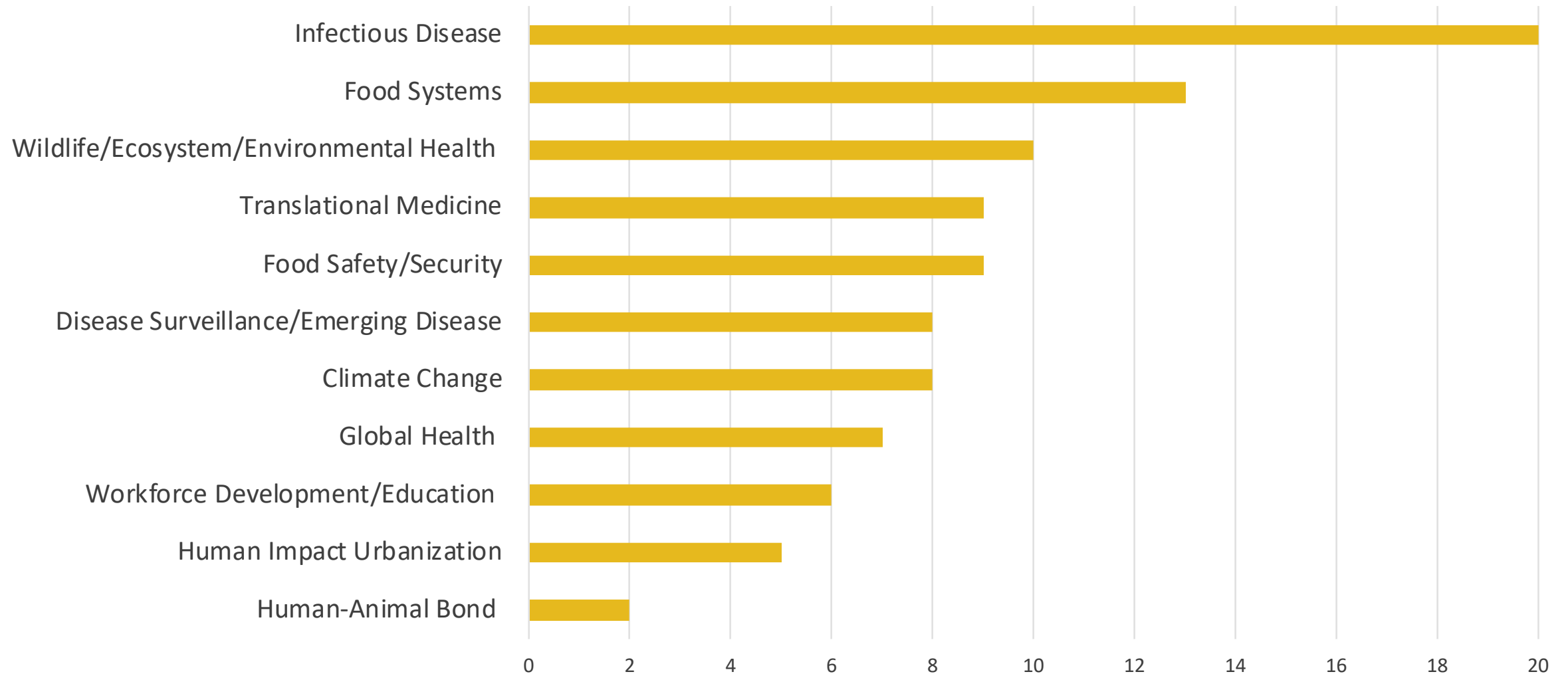


ONE HEALTH PROGRAM AREAS

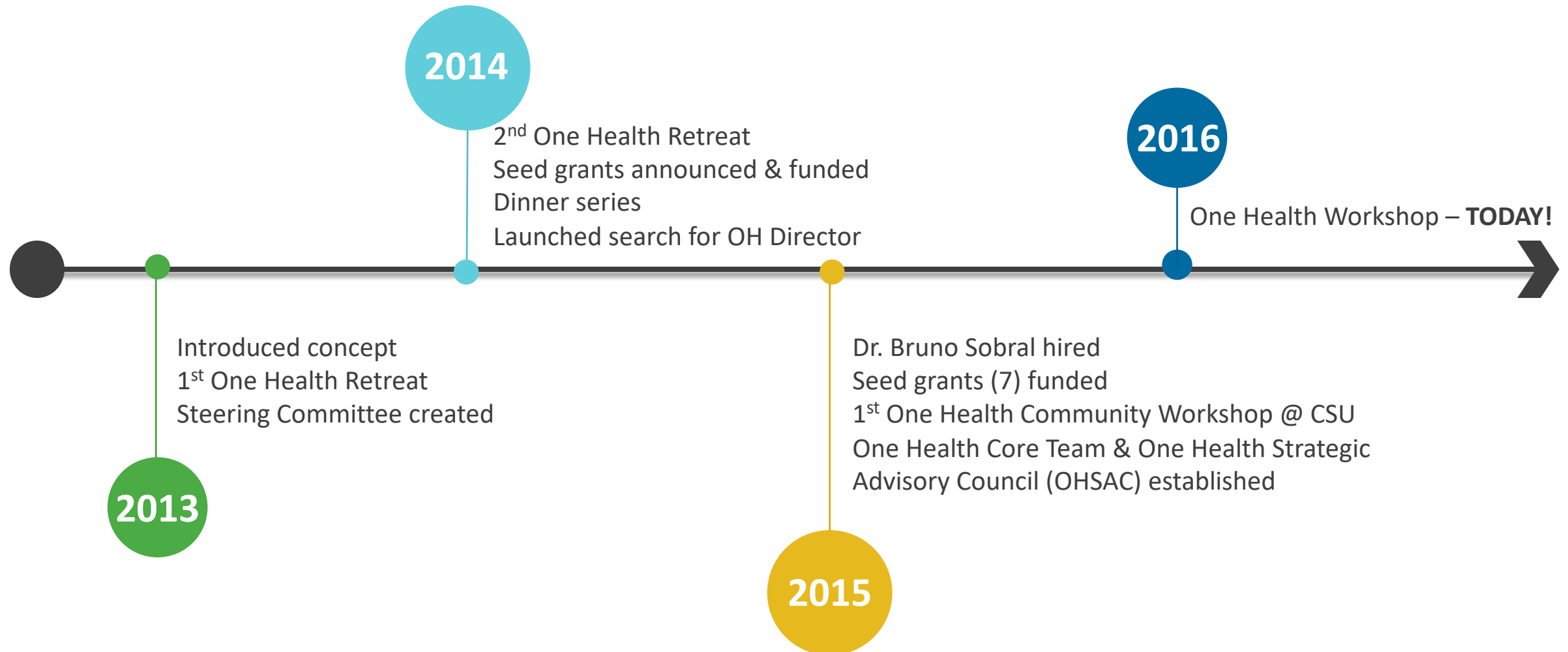
TOP 20 UNIVERSITY PLAYERS

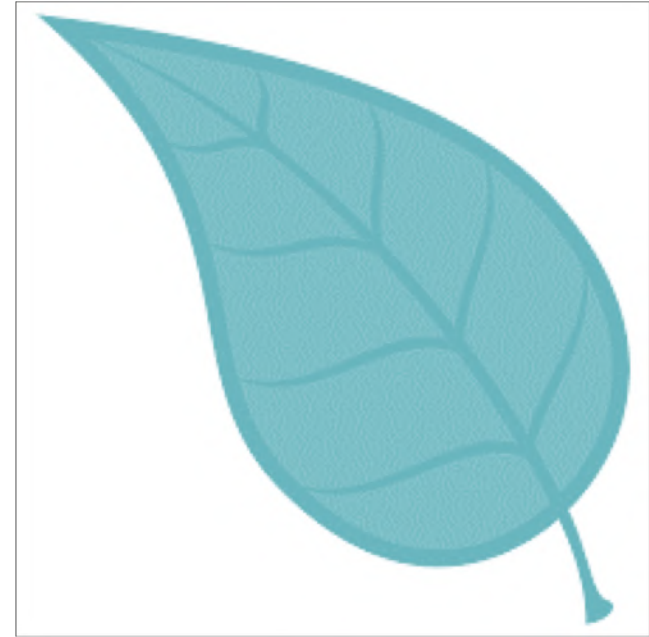
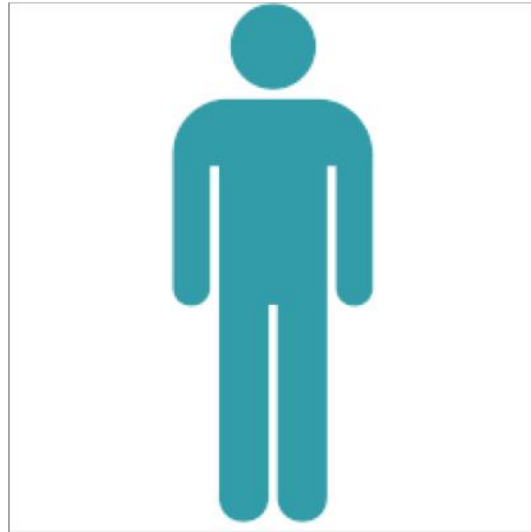
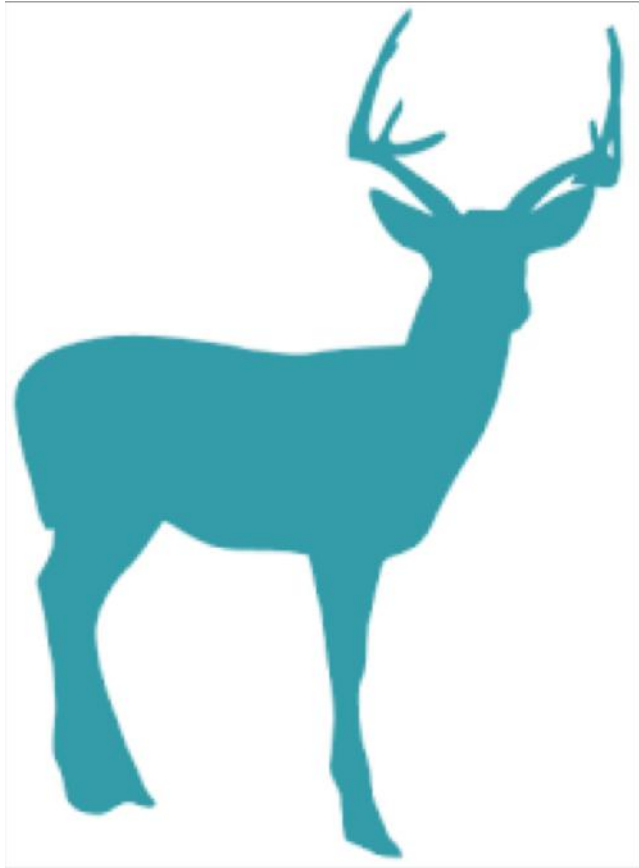
United States	International
University of California – Davis	University of Edinburgh
University of Minnesota	One Health Central and Eastern Africa
Washington State University	Technical University of Denmark
Texas A&M University	University of Copenhagen
Tufts University	One Health Sweden
University of Florida	Swiss School of Tropical Public Health
Iowa State University	Netherlands Centre of One Health Partnerships
Ohio State University	Southeast Asia One Health University Network (SEAOHUN)
University of Pennsylvania	
University of Missouri	
North Carolina One Health Collaborative (Duke, UNC, NCSU)	
University of Illinois	

WHAT ARE THEY DOING?



ONE HEALTH INITIATIVE @ CSU





CSU ONE HEALTH RETREAT - 2013

Top 5

Most Pressing One Health Issues

- Infectious Disease/Zoonotic Disease
- Food Safety/Security
- Wildlife/Ecosystem/Environmental Issues
- Climate Issues
- Human Impact Issues

Top 3

One Health Issues Identified Not Being Focused On

- Holistic/Systemic Solutions
- Food Issues
- Proactive Health Issues

CSU ONE HEALTH RETREAT - 2014

“The Big 5” Potential One Health Focus Areas

Disease Emergence

Food Safety and Security

Impact of Environmental Factors on Ecosystem Health

Impacts of New Energy Technology on Health

Optimizing Health by Design

PROGRAM 1

PROGRAM 2

PROGRAM 3

So, what is a One Health Institute Program?

Create Futures We Desire

Communities of Solution

See the Whole System

Systems Thinking

Collaborate Across Boundaries

Human-Centered Design

A One Health Institute **Program** contains diverse people that are committed to working together in a sustained way.

Together, they apply the One Health Institute's foundational principles to achieve innovative outcomes that further the mission and vision of the program.

The Program contains diverse leaders who are just as comfortable leading as contributing in non-leadership roles. They recognize that the One Health leadership model is to be in service of the health of peoples, environments, and animals.

EXAMPLE: CANADA'S INTERNATIONAL DEVELOPMENT RESEARCH CENTER

Programs

Health & Changing Rural Agro-Ecosystems

Natural Ecosystems, Pollution & Health

Poverty, Ecosystems, & Vector-borne Diseases

Building Community Health into Urban Living

Projects

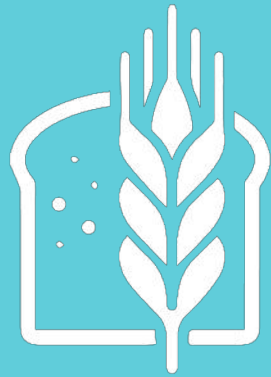
Growing healthy communities – Farmer participatory research to improve child nutrition, food security, and soils

A virtuous cycle in the Amazon – Reducing mercury exposure from fish consumption requires sustainable agriculture

An Ecosystem Approach for the Prevention of Chagas Disease

Water, Wastes, and Children's Health in Low-Income Neighborhoods

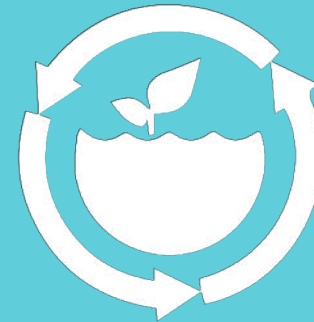
**Food Systems
+ Health**

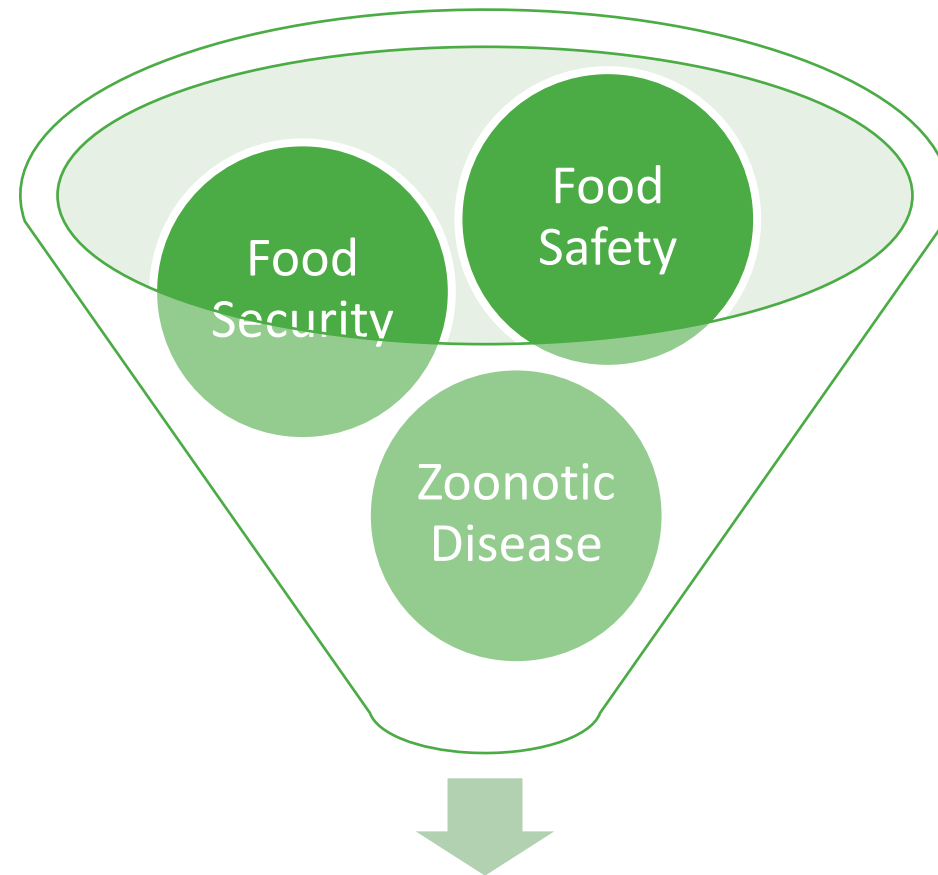


**Urbanization
+ Health**

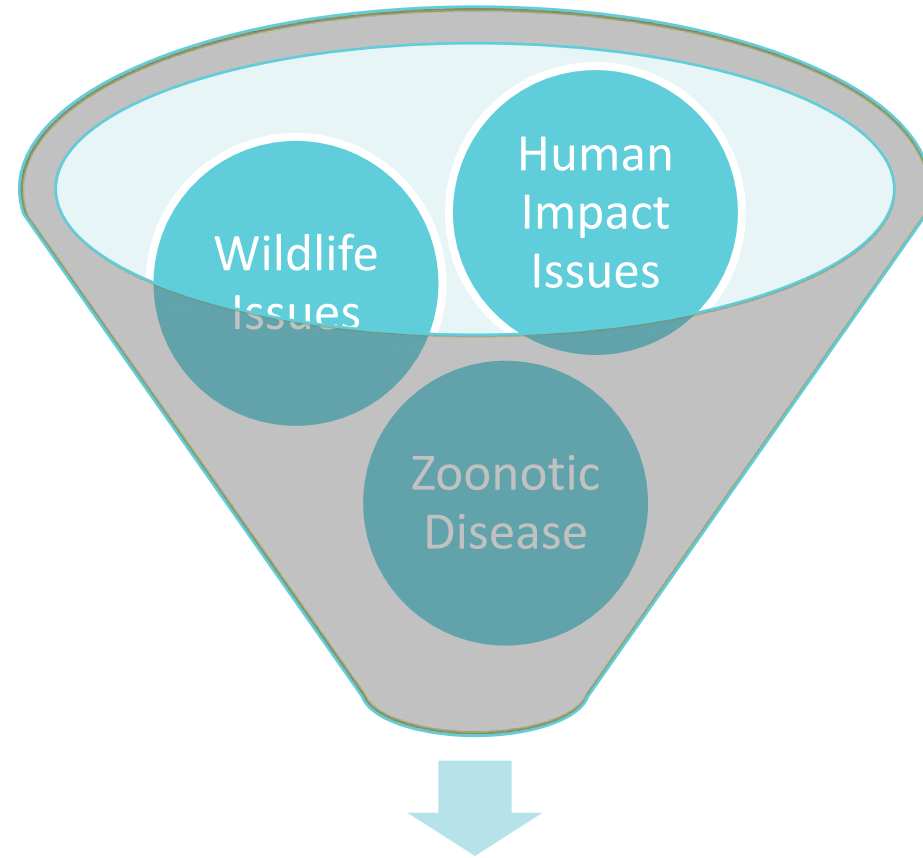


**Environmental
Change + Health**

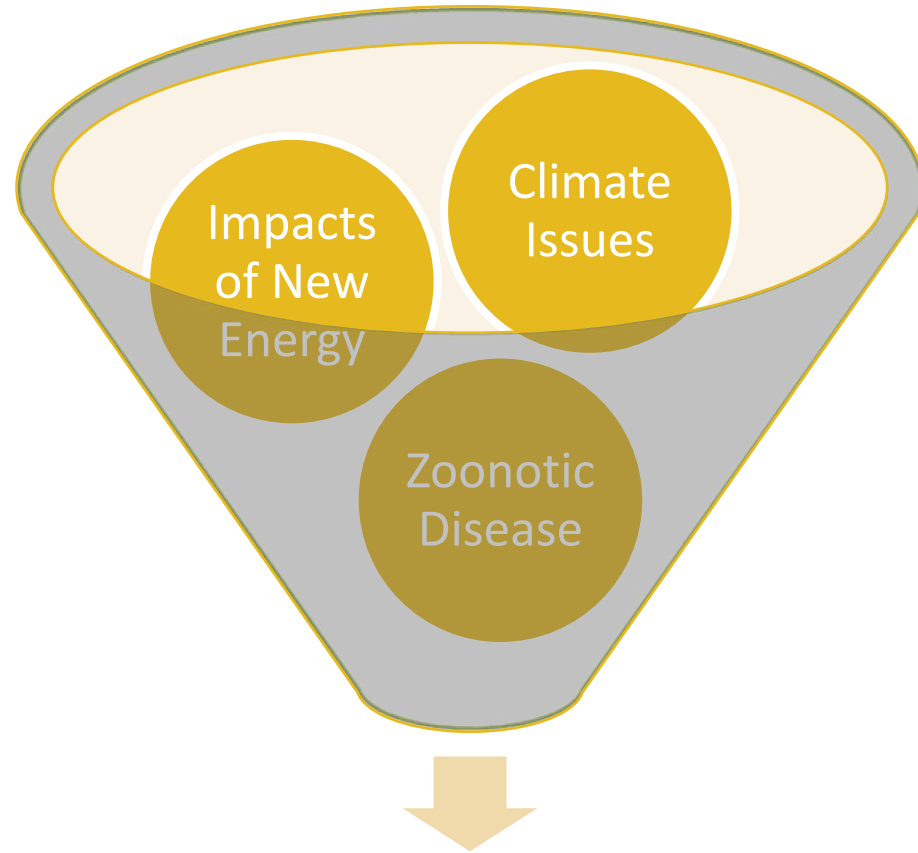




Food Systems + Health



Urbanization + Health

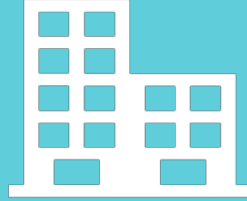


Environmental Change + Health

**Food Systems
+ Health**



**Urbanization
+ Health**



**Environmental
Change + Health**



Create Futures We Desire


Communities of Solution

See the Whole System

Systems Thinking

Collaborate Across Boundaries

Human-Centered Design



What are the opportunities you see with Health and...

Food Systems
Urbanization
Environmental Change?

ACTIVITY: PROGRAM OPPORTUNITIES

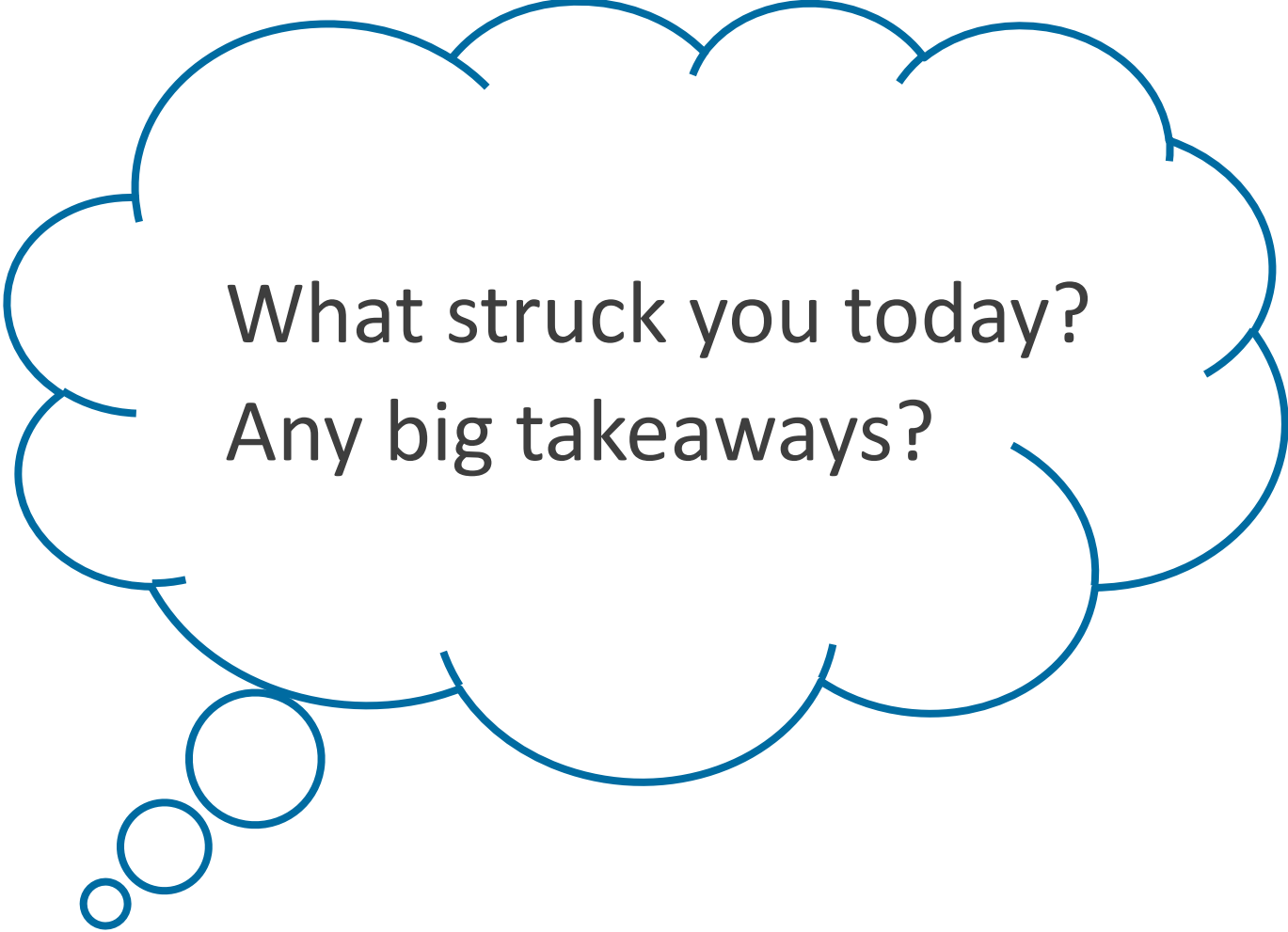
Team Roles

- Facilitator – ensures inclusive participation
- Recorder – document key points & ideas
- Time keeper – keep the conversation moving forward

BREAK (15 MINUTES)

REPORT OUT & RECAP

REFLECTION



What struck you today?
Any big takeaways?



ENJOY YOURSELVES!

Colorado State University
**ONE HEALTH
INITIATIVE**

ONE HEALTH WORKSHOP: DAY 2



Colorado State University
**ONE HEALTH
INITIATIVE**

The logo for the Colorado State University One Health Initiative. It features the university's name in a dark green serif font, followed by the words "ONE HEALTH" and "INITIATIVE" in a larger, bold, green serif font. The text is flanked by two horizontal lines.

January 29, 2016

TODAY'S AGENDA



Recap



Design Challenge

→ Breaks & Lunch



Presentations & Pin-Up



Wrap-Up & Next Steps



RECAP

PURPOSE STATEMENT

To collaborate across boundaries

In a way that sees and integrates whole systems

So that we create futures we desire

To collaborate across boundaries

In a way that is integrative and systems based

So that we benefit the health of animals, people, and environments

CONCEPTS OF HEALTH

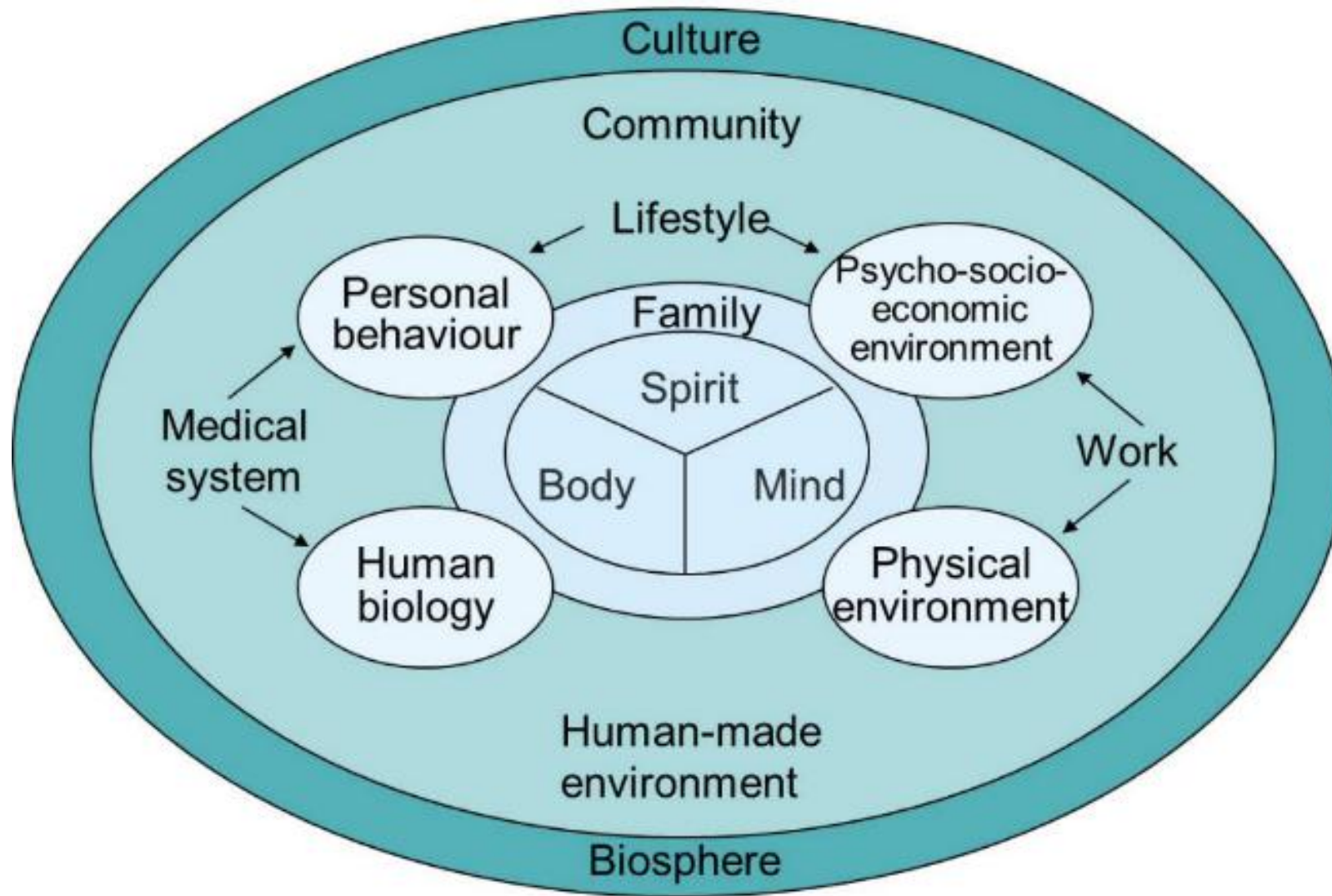
Australian Aboriginal people generally define health thus
“...Health does not just mean the physical well-being of the individual but refers to the social, emotional, spiritual and cultural well-being of the whole community. This is a whole of life view and includes the cyclical concept of life-death-life.”

Integrated Life Course and Social Determinants Model of Aboriginal Health



Source: Charlotte Loppie Reading and Fred Wien, Health inequalities and social determinants of Aboriginal people's health. National Collaborating Centre for Aboriginal Health, 2009, page 26. Reproduced with permission of Dr. Reading.

Charlotte Loppie © 2007
Illustrated by Charline Robichaud



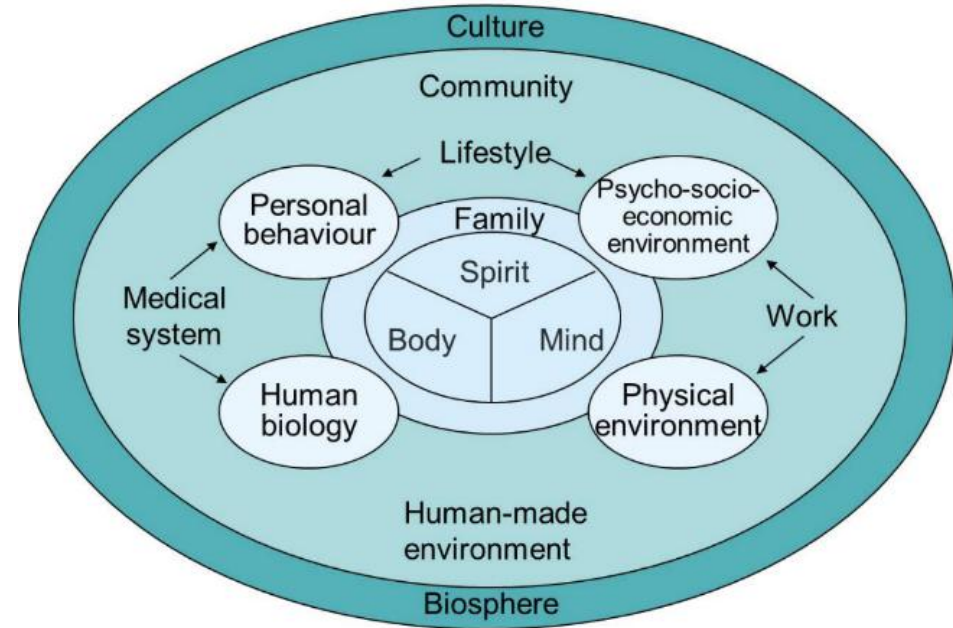
Redrawn from: Hancock T, Perkins F. The mandala of health: a conceptual model and teaching tool. *Health Education* 1985;Summer, pp. 8-10.

Integrated Life Course and Social Determinants Model of Aboriginal Health



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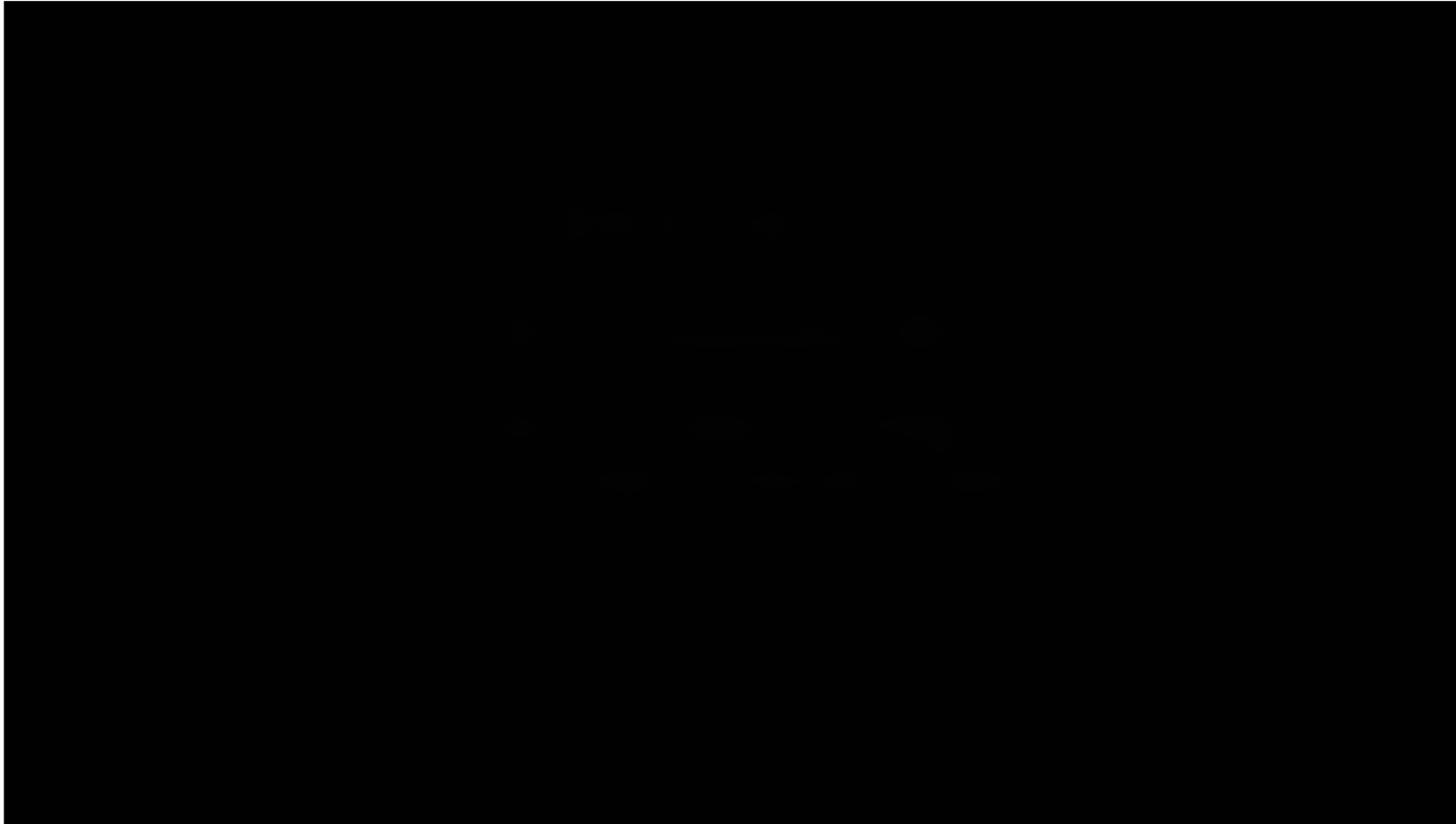
Charlotte Loppie © 2007
Illustrated by Charlene Robichaud



Redrawn from: Hancock T, Perkins F. The mandala of health: a conceptual model and teaching tool. *Health Education* 1985;Summer, pp. 8-10.

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 “...Health does not just mean the physical well-being of the individual but refers to the social, emotional, spiritual and cultural well-being of the whole community. This is a whole of life view and includes the cyclical concept of life-death-life.”

NAVIGATING THE WEBS OF INTERDEPENDENCE



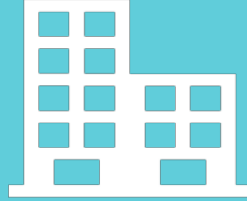
Presenter: Peter Senge

DESIGN CHALLENGE

**Food Systems
+ Health**



**Urbanization
+ Health**



**Environmental
Change + Health**



Create Futures We Desire

Communities of Solution

See the Whole System

Systems Thinking

Collaborate Across Boundaries

Co-Creation & Inclusive Design

ACTIVITY: DESIGN CHALLENGE

Deliverables

- 1 Flipchart page visual representation, that includes:
 - A topic you could all research together
 - Identify desired future state
 - Define the community
 - Outline “learning journey”
- 3 min presentation, 5 min Q&A

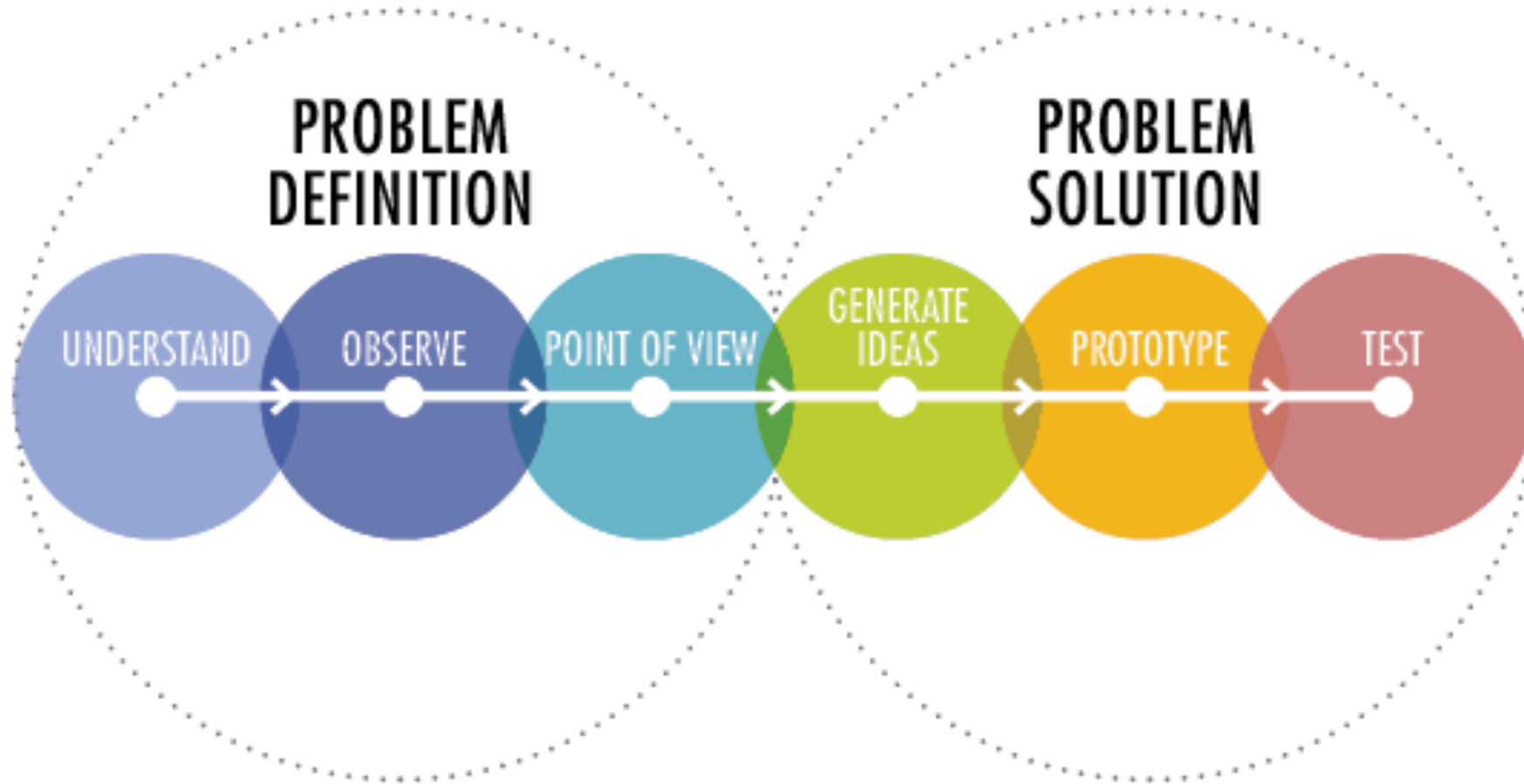
Process

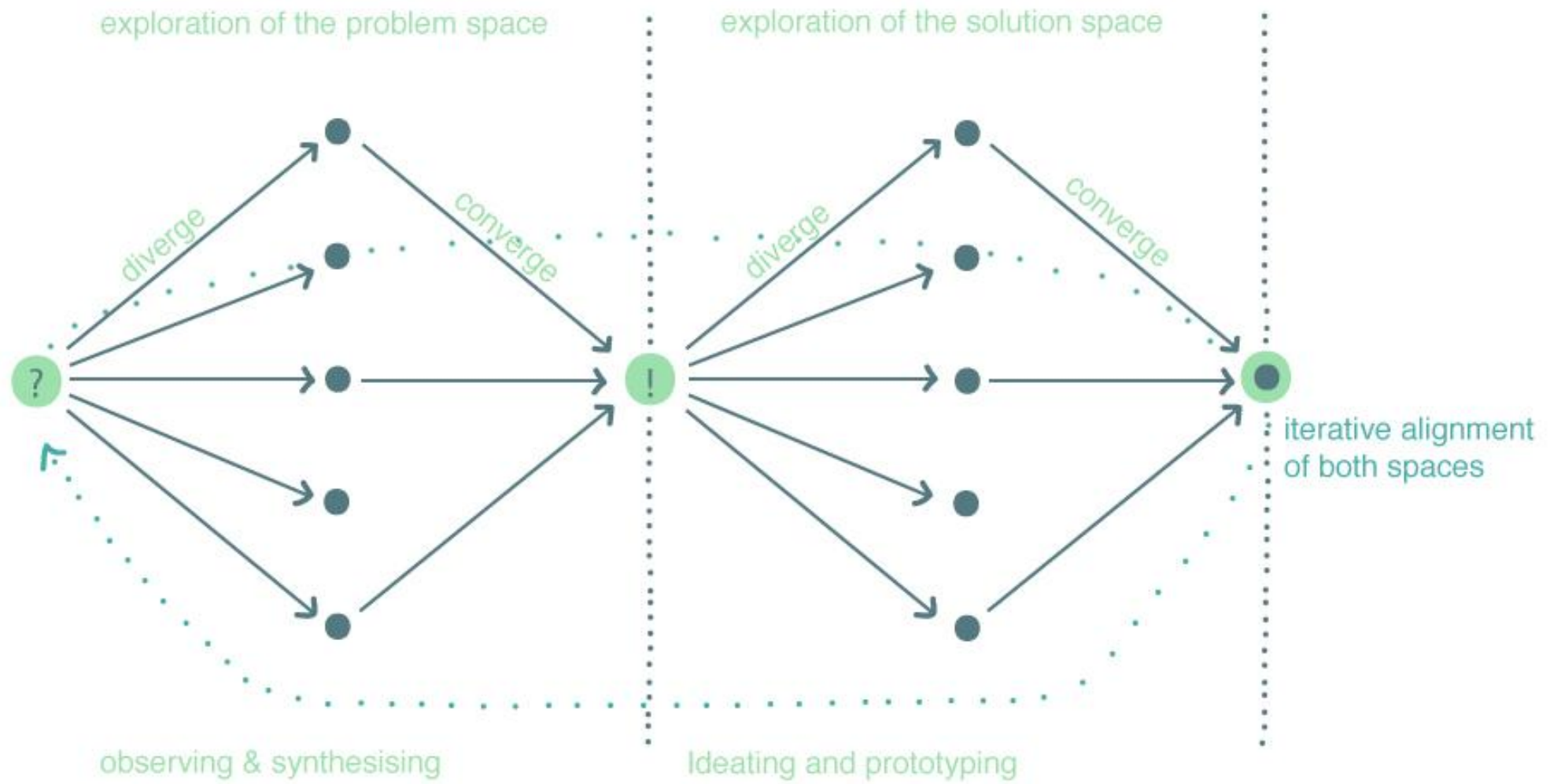
- Brainstorm topics you could all research on *together*
- Pick one to Focus On
- Convert to Desired Future State
- Identify Community
- Design the Learning Journey
- Create Visual Representation

EXPECTATIONS

- Apply the learning and frameworks from Day 1
- The is ONLY an exercise (no dollars attached)
- Let's have some fun!

DESIGN THINKING





A FEW WORDS ON GRAPHIC ILLUSTRATION

GOT A WICKED PROBLEM? FIRST, TELL ME HOW YOU MAKE TOAST



Presenter: Tom Wujec

ACTIVITY: DESIGN CHALLENGE

Process (markers down at 1pm)

- Brainstorm topics you could all research on *together*
- Pick one to Focus On
- Convert to Desired Future State
- Identify Community
- Design the Learning Journey
- Create Visual Representation

Deliverables

Visual representation, that includes:

- Need / Future State
- Community
- Learning Journey
- 3 min presentation, 5 min Q&A

Roles

- Facilitator
- Speaker
- Timekeeper
- Recorder



LUNCH



Colorado State University

January 28, 2016

WORKSHOP GOALS

- Create a shared purpose
- Explore patterns: trends
- Develop synergistic relationships: build community

Develop our vision
Create a governance structure

Dr. Bruno Sebral

THANK YOU for being here and supporting this process



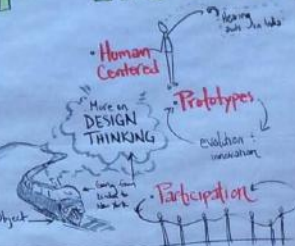
Welcome to the

TED talks

NADINE BURKE IVERIS
HOW CHILDHOOD TRAUMA AFFECTS HEALTH

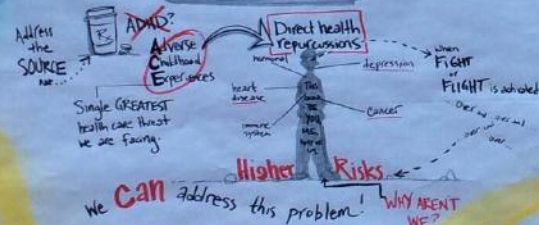
ERIC BERLOW
SIMPLIFYING COMPLEXITY

TIM BROWN
DESIGNERS - THINK BIG!



CHANGE underlies good design

What is the question?

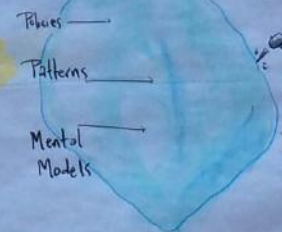


Use Visuals

Consider the Whole System
Unanticipated, not predictable

PRINCIPLES

Systems Thinking



START
Business innovation
Human Values Technology

SEE the WHOLE SYSTEM

Human-Centered Design

Each person has value



We must develop a GLOBAL HEALTH ETHIC
Ecological
As we think about our projects, complexity is central
embrace it
it's messy

Create Futures We Desire

Communities of Solution

Build it resilient



Integrative Approach

COLLABORATE ACROSS BOUNDARIES

Understanding and Supporting Health

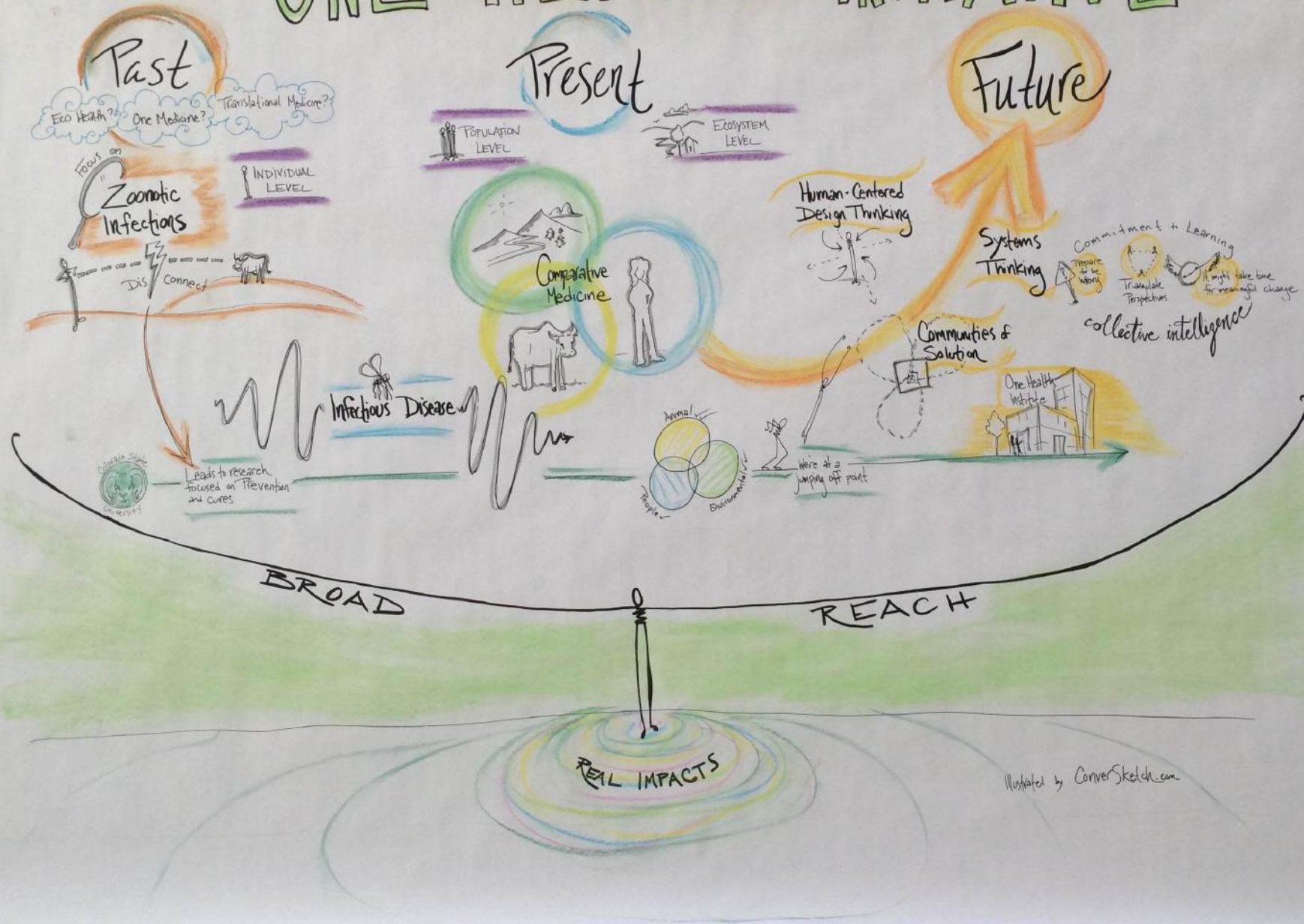
AS DEFINED and CONTROLLED by the community



Accept failure

ConverSketch.com

ONE HEALTH INITIATIVE



Framing

What is a One Health Program?

Community self-organized Collaborative

Leadership Relationships

Today's 2016 Workshop

Workshop 2013

Retire of 2014

Systems Food Cases of health issues

? Is there funding?

- 1) Passions
- 2) Funding

? Publications at CSU in these areas?

Anecdotally, no hard numbers

There are ~20 Universities working on One Health

Infectious Disease Food Systems Wildlife etc

Building on

WHAT WE'VE ALREADY DONE!

PROGRAM AREAS

What are the OPPORTUNITIES you see in...

We can make a BIG IMPACT locally

THEMES

Policy • Business • Communication • Education • Economics • Social Science • Water

FOOD SYSTEMS AND HEALTH

*Ag Extension

*Different Perspectives

*Take advantage of connections that already exist

*Rural areas share similar challenges

(Built Environment) URBANIZATION AND HEALTH

*Who is this? *What do they care about?

Whole Systems

Human-Centered Design Thinking

Create Solutions We Desire

ENVIRONMENTAL CHANGE AND HEALTH

*Involve them more *transparency: trust

*Champions in Each Area

Short-term Long-term Balance

*Idea pipeline Think tank

*Keep the focus on people too

powered by ConversSketch

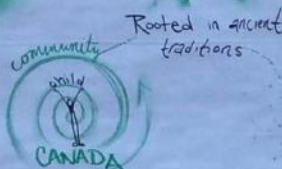
DAY 2 BIG IDEAS

DR SOBRAL

CONCEPTS OF HEALTH

Must be DEFINED by each Community

For One Health, we focus BEYOND "absence of disease"



Rooted in ancient traditions



Social, emotional, spiritual, cultural

OUR PROCESS TODAY

What Can We Study Together?

Desired Future State



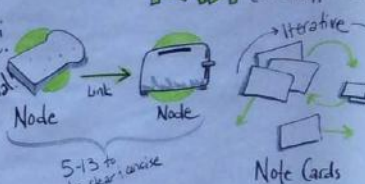
Outline your Learning Journey

What is your process of discovery?

Make your ideas visible, tangible, consequential

TOM WUJEC

DRAW HOW TO MAKE TOAST (and happiness)



In a GROUP

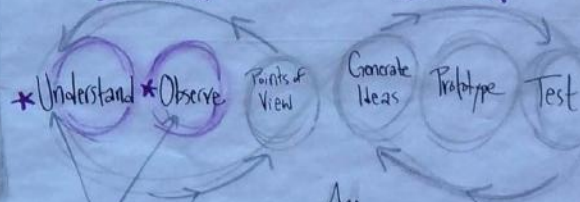
IT'S MESSY

- Everyone understands
- More sophisticated
- Collaborated
- Comprehensive

DESIGN THINKING

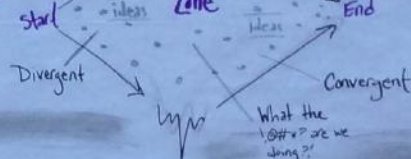
PROBLEM DEFINITION

PROBLEM SOLUTION



Our focus today

Grown Zone



Overnight Reflections

RE-VISED DRAFT PURPOSE STATEMENT

To benefit the health of animals, people and environments
By collaborating across boundaries
In a way that sees and integrates whole systems.

Peter Senge on Systems Thinking

How do we think differently about VEXING problems?

Acting intelligently
short-term long-term
collective

*Are you part of a family?



Illustrated by ConverSketch.com

PRESENTATIONS & PIN-UP

DESIGN CHALLENGE REFLECTIONS

WRAP-UP & NEXT STEPS

AGENDA OVERVIEW

Day 1

- Framing
- Purpose & Vision
- Focus Areas
- Report Out & Synthesis
- Networking

Day 2

- Design Challenge
- Presentations
- Wrap-up
- Survey

Goals & Objectives

- Create a shared sense of purpose for the One Health Institute
- Share patterns & themes around which the Institute will be focused
- Develop synergistic relationships among participants to build the foundation for the One Health Institute's community

Nov. 2015

Sept. 2016

Activity One
Big Ideas
2–4 mo.

Prep Work

Team Formation & Kick-Off

SWOT Analysis

Visioning Workshop

How we Define Health

Define Project Area Focus

Big Ideas Brainstorm

We are here!

Synthesis

Develop Program Direction

Core & Partner Community Refinement

Activity Two
Strategic Operating Plan
1 mo.

Program Planning

Finance/Operations

Governance

Programs

Community Engagement

Outreach

Partnerships/Sponsorships

Activity Three
Ongoing Support
6 mo.

Program Management

Fund & Conduct Research

Ongoing Engagement

Evaluation

Renewal

GRATITUDE – KARINA'S DRAWING?



FUTURE INVOLVEMENT

Survey

- Instructions
- Take a few minutes to fill out
- When completed please fold and hand to Claire or leave on your table



THANK YOU!

Colorado State University
**ONE HEALTH
INITIATIVE**
