

Integrating Ethical Considerations Into Animal Science Research

Humaneness, Quality, Safety,
Security, and Sustainability



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Climate Change 2014: *Impacts, Adaptation, and Vulnerability*

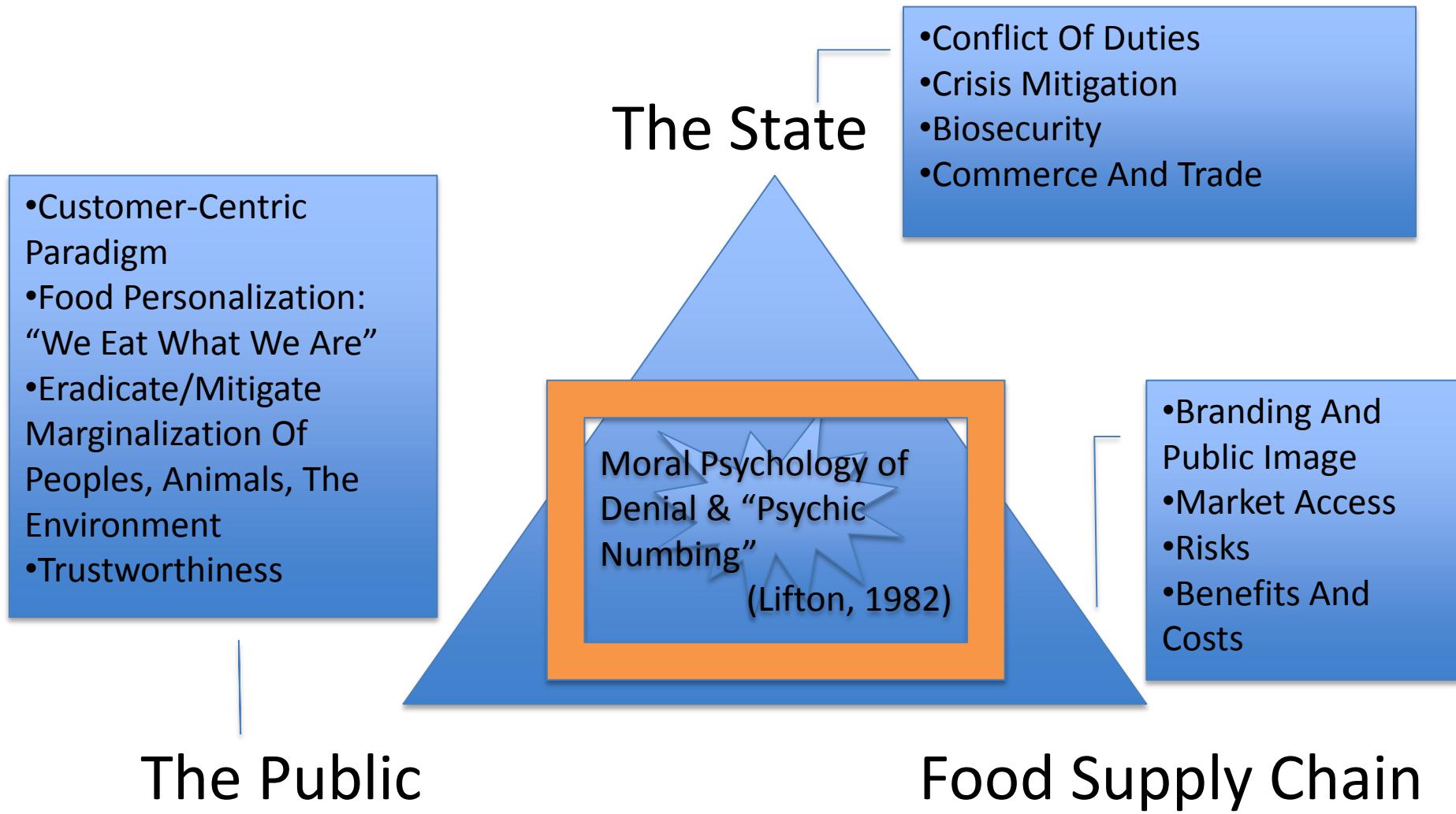
IPCC Working Group II Contribution to AR5

The 10th Session of Working Group II (WGII-10) was held from 25 to 29 March 2014 in Yokohama, Japan. At the Session, the Summary for Policymakers (SPM) of the Working Group II contribution to the IPCC Fifth Assessment Report (WGII AR5) was approved and the underlying scientific and technical assessment accepted.



The public wants agriculture to be more than just about the production of cheap food. Trust, Traceability and Transparency

Animal Agriculture Is The Site Of Political Contestation



Adapted from Lang, 2005

Competing Paradigms Of Agriculture

Pro-Productionism

Public Trust Emphasis





Pro-Productionist

Industrialization

Vertical Integration

Markets

Price

Efficiency

Technological Intervention

Thompson, 2010

THE NATIONAL GLOBAL CHANGE RESEARCH PLAN 2012-2021

A STRATEGIC PLAN FOR THE U.S. GLOBAL CHANGE RESEARCH PROGRAM



Same Old, Same Old... No Real Innovation



“It’s like a Swiss Army knife.”

- President Obama 2/7/14

Global Climate Change Impacts in the United States

U. S. GLOBAL CHANGE
RESEARCH PROGRAM

Pay Attention to:

Trust

Ambiguous Relationships With
The Agro-Ecological Commons

Differing Conceptions Of Harm

Divergent Notions Of Risk

Varying Accounts Of
Sustainability

Competing Ethical Frameworks
(Anthony, 2012)



REPORT TO THE PRESIDENT ON AGRICULTURAL PREPAREDNESS AND THE AGRICULTURE RESEARCH ENTERPRISE

Executive Office of the President
President's Council of Advisors on
Science and Technology

DECEMBER 2012



Public Trust Emphasis (PTE)

Sustainable Future

Respect

Local, Healthy and Affordable Food

Celebrates Interdependence

Responsible Use Of Resources

Measured Policies



Ethical Considerations



Social Justice

Risk

How Should We Innovate?

What Does Social Justice
Demand?

What Are The Effective
Solutions To Mitigate Risks?





Social Justice

Substantive Claims
Need
Desert
Equity

Procedural justice

Adapted from Miller, 2003



Expected Utility Conception

(Friedman and Savage, 1948)

Public Conception

Trust And Vulnerability

Fairness

Interests

Uncertainty

Controllability

Arrogance

(National Research Council, 1989)

RECONCEPTUALIZING ANIMAL AGRICULTURE - ETHICAL CONSIDERATIONS

A MODEL BY RAYMOND ANTHONY - 13 MAY 2014

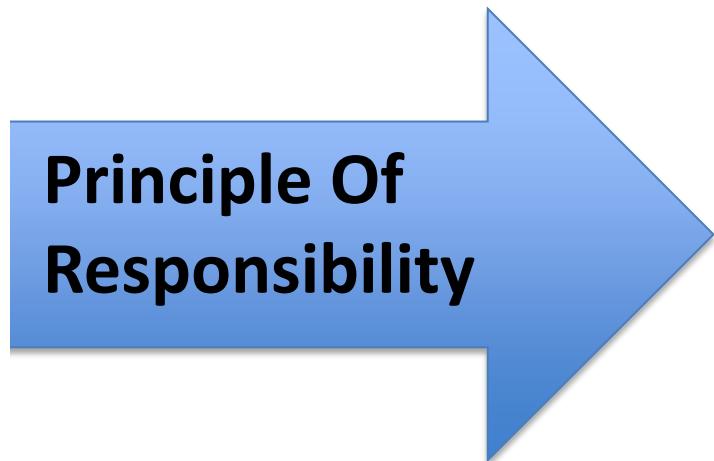




**THINK
SAFETY**

Key Concerns:

- Known Knowns
- Unknown Knowns
- Known Unknowns



**Principle Of
Responsibility**

THINK QUALITY

Key concerns:

- Credible expertise and advice?
- Unbiased and adequate indices?
- Effective partnerships?

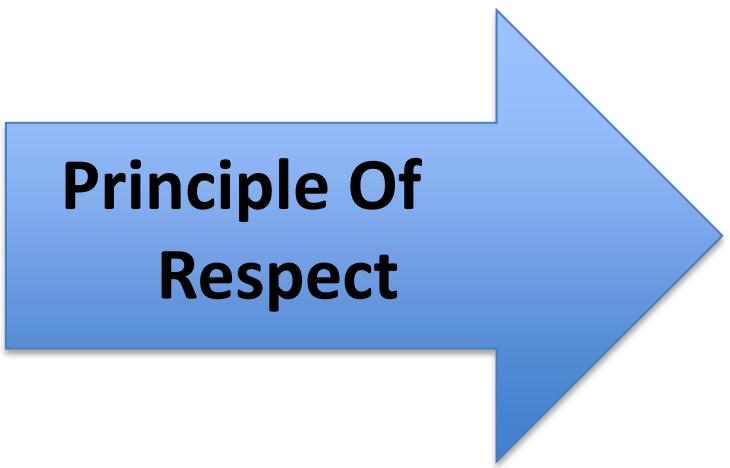
**Principle Of
Innovation**



Humaneness

Key concerns:

- Hubris
- Welfare Of Workers, Animals, “The Worst Off”, Future Generations



Principle Of
Respect



Sustainability

Key Concerns:

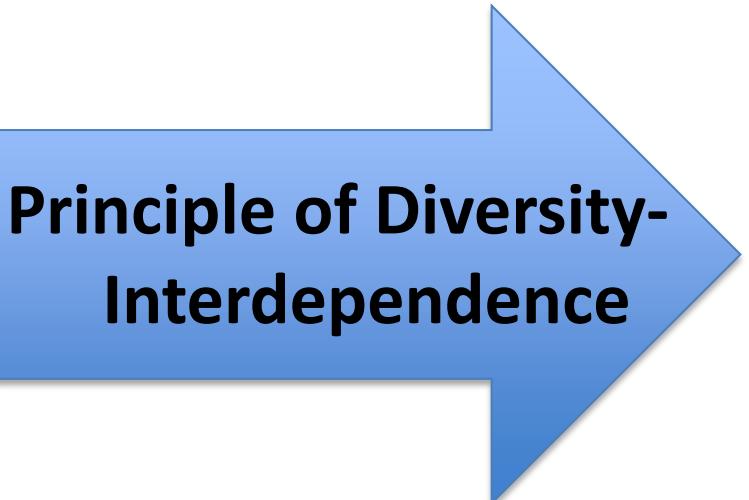
- Health Of Our Democracy
- Recovery and Flexibility of Agro-Ecological Commons
- Intergenerational Buck-Passing
- Business Model
- Research And Funding Norms

Principle Of Resilience-Stewardship



Key Concerns:

- Food, Water, Nutrient, Energy
- Loss Of Other Forms Of Farming
- Big Data
- New Technologies (e.g., GMOs)
- Bioterrorism
- Global Markets And Actors
- Decrease in or “Alternative” Meat Consumption



**Principle of Diversity-
Interdependence**

EMBARGOED UNTIL 2:00 PM US ET THURSDAY, 4 JULY 2013

AGRICULTURE

Sustainable Intensification in Agriculture: Premises and Policies

Some see SI as too narrowly focused on production, or even as an outright contradiction in terms.

T. Garnett,¹ M. C. Appleby,² A. Balmford,³ L. J. Bateman,⁴ T. G. Benton,⁵ P. Bloomer,⁶ B. Burlingame,⁷ M. Dawkins,¹ L. Dolan,¹ D. Fraser,⁸ M. Herrero,⁹ I. Hoffmann,¹⁰ P. Smith,¹¹ P. K. Thornton,¹¹ C. Toulmin,¹² S. J. Vermeulen,¹¹ H. C. J. Godfray^{1*}

VS.



AMERICAN
FARM?

FUNDING NEEDS AND OPPORTUNITIES (WITH SOCIAL JUSTICE AND RISK MANAGEMENT IN MIND)

BY RAYMOND ANTHONY MAY 13, 2014

1 HOW DO CORE FOOD SYSTEM ENVIRONMENTS

Governance Initiatives

Policies and Regulations

Programs

Infrastructure and services

Economic Incentives

Natural and social environments

Resources

Socioeconomic and demographic factors

Partnerships

2 MAIN POINTS WITHIN OUR FOOD SYSTEM?

Processing

Purchasing

Production

Harvesting

Transportation

Distribution

Consumption

Research

Commerce and trade

Waste

Storage

IMPACT

BY FOCUSING ON

3 CENTRAL RESEARCH AREAS



1. Moral & legal dimensions: Food production-processing systems
2. Equity: Food markets and deserts
3. Dietary and food consumption habits
4. Local & Community Food security
5. Food cultures and identities
6. Climate change and environmental preparedness
7. Novel technologies and democratic processes
8. Unskilled labor and occupational hazards
9. Human-animal-environment narratives

Worth Looking Into...

The logo for the European Commission's Public Opinion section. It features the European Union flag (blue with yellow stars) on the left, overlaid by a white rectangular box containing the text 'European Commission'. To the right of the flag, the words 'PUBLIC OPINION' are written in large, bold, blue capital letters. The background is white with grey, wavy, architectural-style lines on either side of the central text.

Dreaming Planet Earth™

Methods for Mapping Future
Food and Energy Systems at the Local Level

by Peter Warshall, Kenny Ausubel,
Arty Mangan & Nikki Spangenburg

Dreaming the Future Can Create the Future

Dreaming New Mexico brings together the tools of grassroots organizing and community leadership with scientific know-how and political savvy to both create a vision for the future and lay the ground work for getting there.

2009 Buckminster Fuller Challenge Award Jury Statement, First Runner-up Award

Dreaming New Mexico is a collaborative program
of University of Colorado Her High Might Foundation
A 501(c)(3) non-profit organization.