

Integrating Ethical Considerations Into Animal Science Research

Humaneness, Quality, Safety,
Security, and Sustainability



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

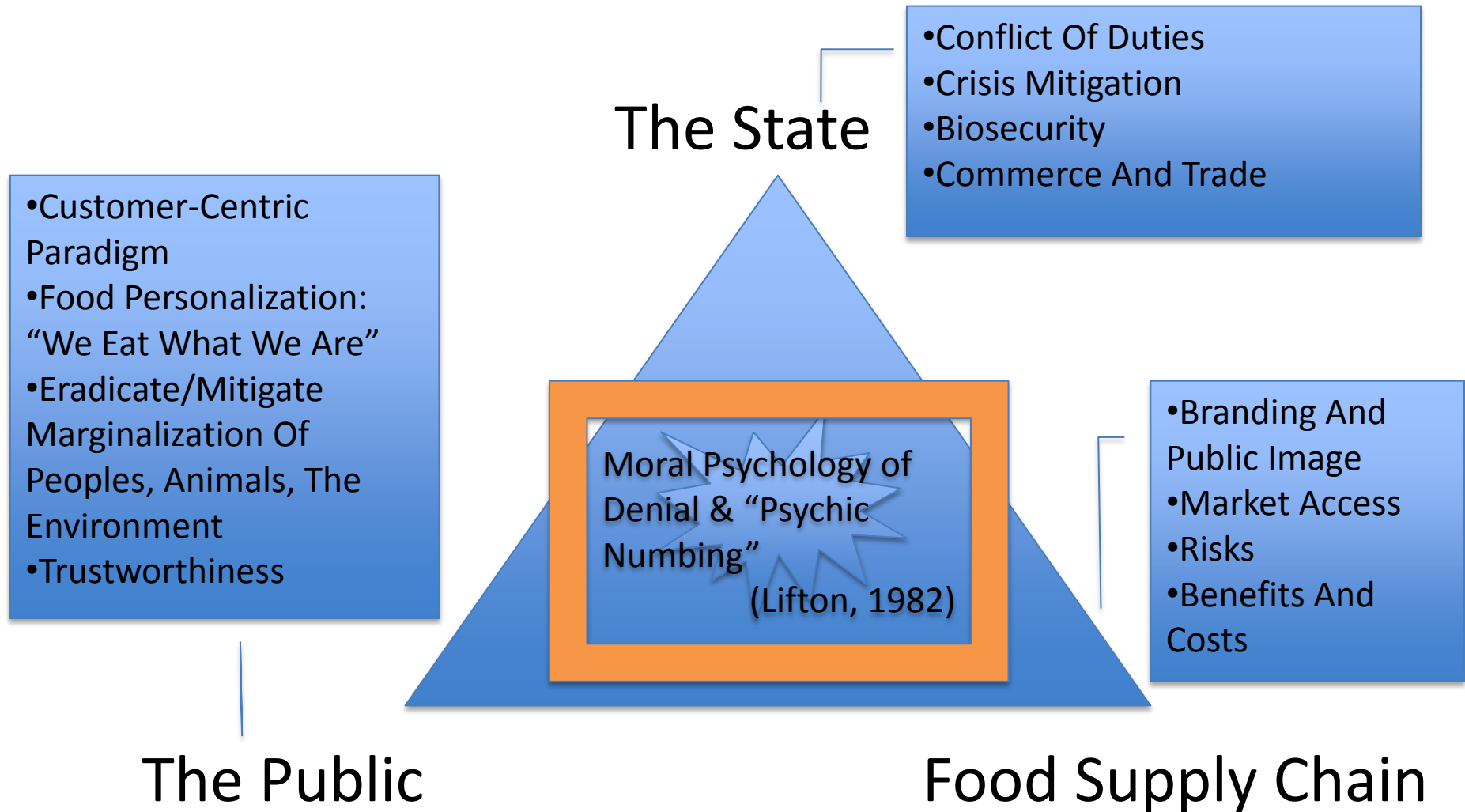
IPCC Working Group II Contribution to AR5

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



Competing Paradigms Of Agriculture

Pro-Productionism

Public Trust Emphasis





Pro-Productionist

Industrialization

Vertical Integration

Markets

Price

Efficiency

Technological

Intervention

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

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

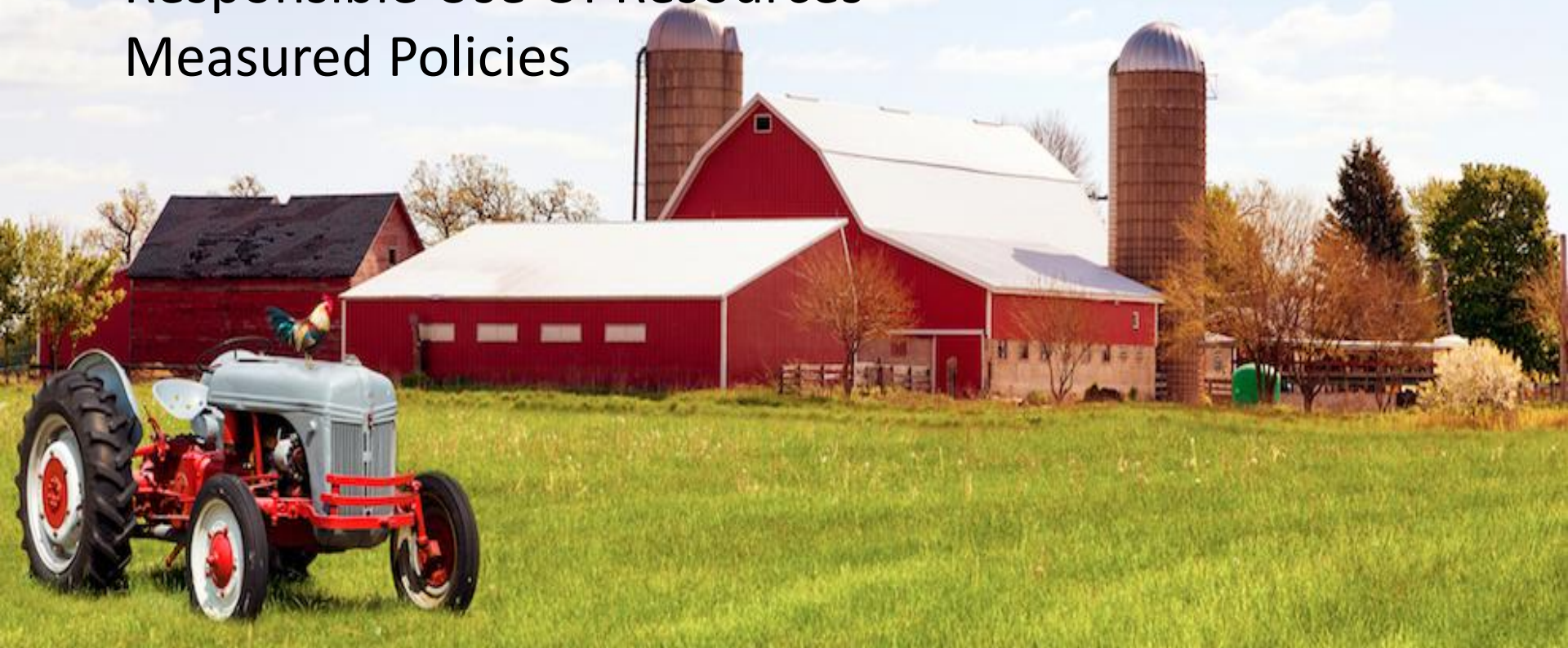
Respect

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

Ethically inspired agriculture
(funding objectives)



**SOCIAL JUSTICE
&
RISK MANAGEMENT**

Basic ethical commitments

Safety

Quality

Humaneness

Sustainability

Security

Principle of
Responsibility

Principle of
Innovation
Partnership

Principle of
Respect

Principle of
Resilience
Stewardship

Principle of
Diversity
Interdependence

Feedback

Feedback

POLICIES • FUNDING OPPORTUNITIES • BUSINESS MODEL

Norms generated
by these basic ethical
commitments

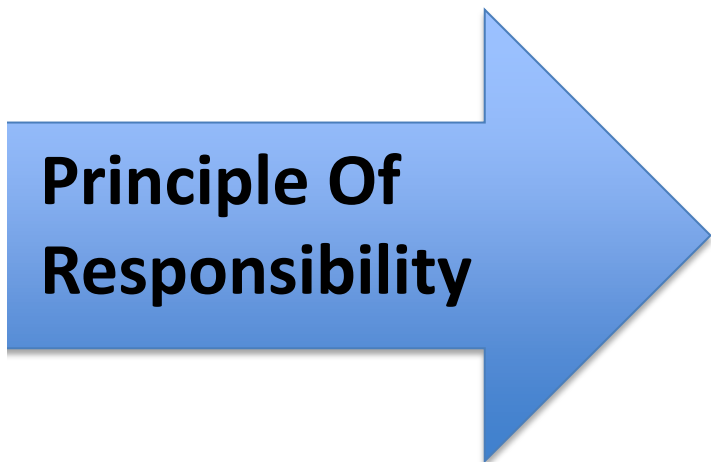
These norms should
also drive food
system environments



**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 I. 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,⁷ P. Smith,¹⁰ P. K. Thornton,¹¹ C. Toulmin,¹² S. J. Vermeulen,¹¹ H. C. J. Godfray¹⁰

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...



**Eurobarometer
surveys**

Welcome

This is the website for
Commission. Since 19
evolution of public opi
texts, decision-making
address major online r

