

#### TEXAS A&M AGRILIFE RESEARCH

**OUR MISSION** – Develop new knowledge and tools to ensure healthy, safe, affordable supply of agricultural products; expand agricultural sustainability, profitability and environmental stewardship; and preserve and enhance natural resources.

#### **NEW LEADERSHIP**



**Dr. David Lunt**Chief Operations
Officer
AgriLife Research



Dr. David Ragsdale Chief Scientific Officer AgriLife Research



Dr. WHO?
Associate Director for
Social-Behavioral
Sciences
AgriLife Research

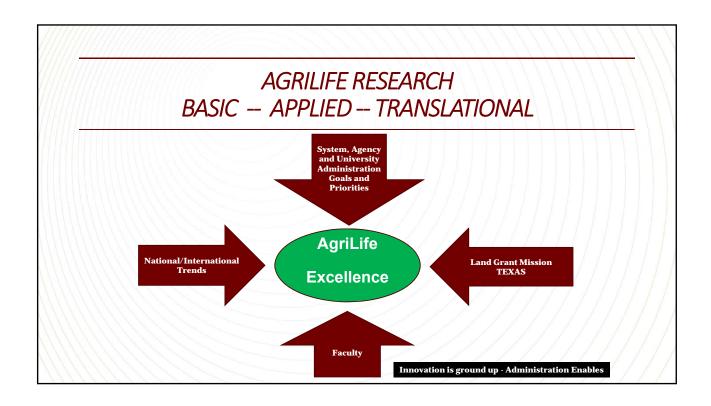


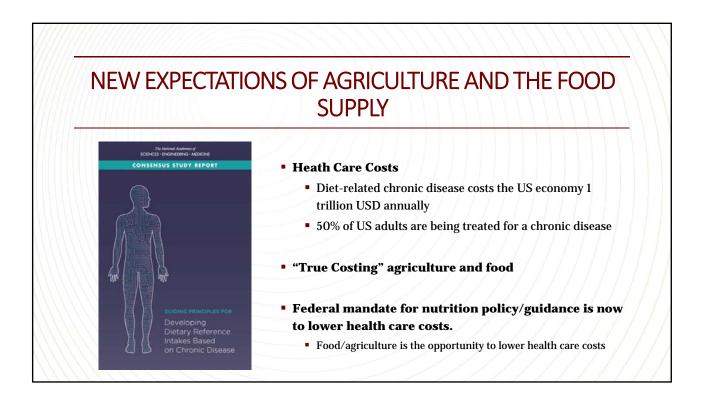
Dr. Clare Gill Interim Executive Associate Dean & Associate Dean for Research

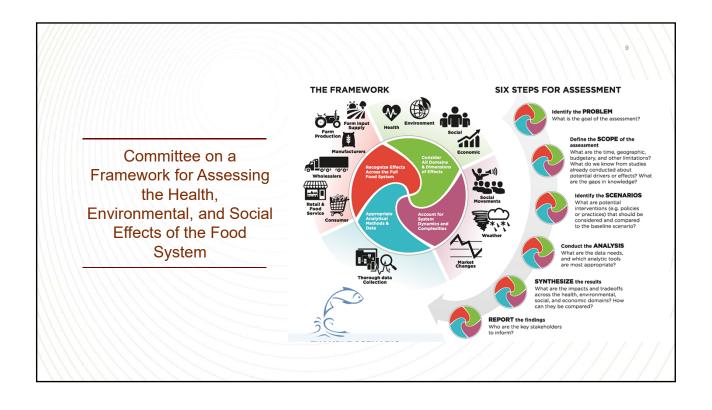
#### AGRILIFE LEADERSHIP CULTURE

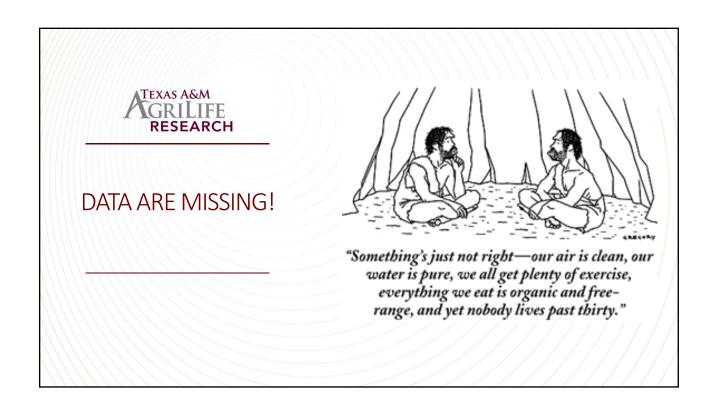
- · Promote a culture of trust, transparency, accountability and cooperation with NO friction
- · Lead by example
- Build and strengthen capacity and opportunity
- · Build and strengthen partnerships!
- Support a Market Place of Ideas/Experimentation
  - experiment/take risks "Everything is better in Beta"
  - innovation is bottom up administration enables!
- Make investments with parties at interest (skin in the game)
- Look forward/Limit navel gazing.
- Leverage and/or integrate programs and resources whenever possible
   Outstanding programs take advantage of and build from existing strengths











#### THE LANDSCAPE

#### - BALANCING THE EQUATION -



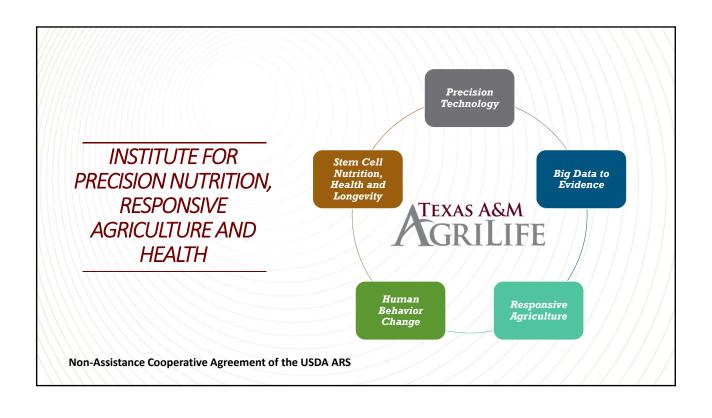
#### Texas has transformed into an urban state

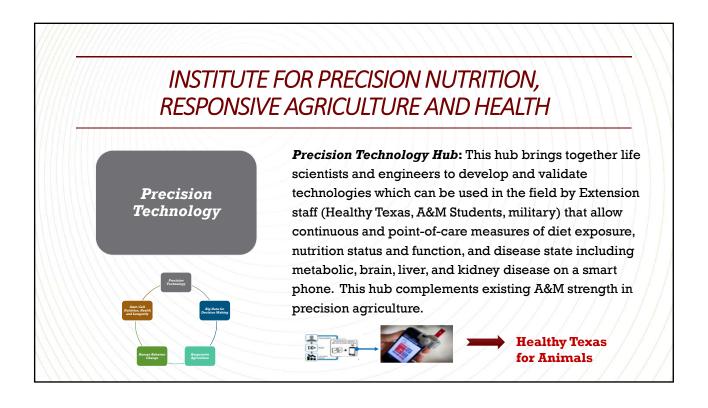
- It is imperative that the Texas Bioeconomy and Rural Culture endure
  - We will maintain our commitment to "classical" agriculture
- We need to meet the needs of <u>both</u> the urban and rural populations
  - Environmental Health
  - Public Health Nutrition
  - Bioeconomy
  - Labor Markets
- Connect Urban and Rural through "Balancing the Equation":

Healthy Agriculture + Healthy Environments = Healthy People + Healthy Economies

# AGRILIFE RESEARCH INITIATIVES

- Strategies to increase the Excellence and Impact of our Research
  - Center Directors and DHs Sub-committees
- External review of Core facilities, Institutes, Centers, Departments
- Developing a business model and governance structure around cores
- Build research on the consumer side of the food system
- Integrate Service, Extension and Research
- Metric-informed decision-making





### INSTITUTE FOR PRECISION NUTRITION, RESPONSIVE AGRICULTURE AND HEALTH

Big Data to Evidence



Big Data to Evidence Hub: This hub brings together life and computer scientists to develop new approaches to integrate large data sets that link indicators of human, environmental, economic and social health to give holistic assessments of the evidence underlying dietary and nutrient recommendations and policies, agriculture policy and related food system policy.

## INSTITUTE FOR PRECISION NUTRITION, RESPONSIVE AGRICULTURE AND HEALTH

#### Center for Evidence-Based Decision Making in Agriculture, Food, Environment and Health.

This center will affiliate with major international scientific evidence synthesis consortia to:

- conduct systematic reviews that address critical questions for policy makers, producers and consumer groups;
- 2) develop methodologies for evidence synthesis from different types of data and
- 3) develop rigorous evaluation research that supports AgriLife Service Agencies.

# INSTUTITE FOR PRECISION NUTRITION, RESPONSIVE AGRICULTURE AND HEALTH

Responsive Agriculture



Responsive Agriculture Hub: This hub brings together life and agricultural scientists to develop commercial agricultural and other food products responsive to human dietary needs for health, consumer acceptance and waste reduction.

# INSTITUTE FOR PRECISION NUTRITION, RESPONSIVE AGRICULTURE AND HEALTH

Human Behavior Change



Human Behavior Change Hub: This hub brings together social scientists and information scientists to address important questions related to consumer and producer preferences and acceptance/adoption of new technologies, as well as agriculture and food products.

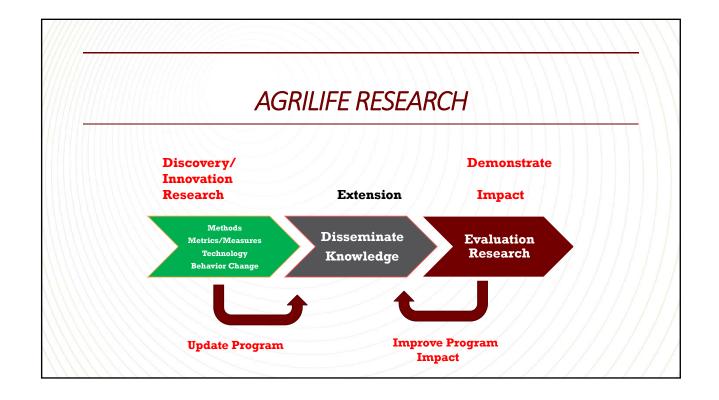
# INSTITUTE FOR PRECISION NUTRITION, RESPONSIVE AGRICULTURE AND HEALTH

Stem Cell Nutrition, Health and Longevity



Stem Cell Nutrition, Health and

Longevity Hub: This hub brings together life scientists and biomedical engineers to understand the unique nutritional needs of adult stem cells during aging that preserve their number and quality to allow life-long tissue regeneration and healthy aging.



## INSTITUTE FOR PRECISION NUTRITION, RESPONSIVE AGRICULTURE AND HEALTH

Healthy Texas Food Labeling Core: This analytical core will be part of the Responsive Agriculture Hub and will develop analytic measures to assess food quality leading to a "Healthy Texas" label for food.

**Big Data Analytics and Scientific Survey Core:** This core will have information science expertise for developing surveys and web-based analytics to understand consumer preferences and values, and computational and relevant statistical expertise to support all hubs.

## INSTITUTE FOR PRECISION NUTRITION, RESPONSIVE AGRICULTURE AND HEALTH

#### **Partners:**

Children's Nutrition Research Center | Baylor College of Medicine

Technische Universität Braunschweig, Germany

The Microsoft Research - University of Trento Centre for Computational and Systems Biology (COSBI), Italy

Cornell University, Division of Nutritional Sciences

