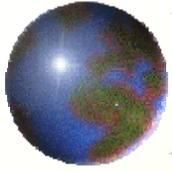


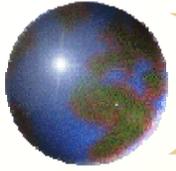
# Conference Wrap-up

**Fred Vogel**  
**World Bank**



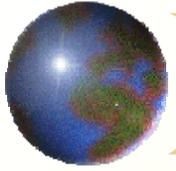
## *Conference Overview*

- **Rich in terms of papers, questions, discussions**
- **Rich in terms of participants**
- **Rich in terms of the synergy of exchanging ideas between countries, organizations around the world**



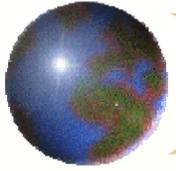
## *Overview of the Overview*

- **Special Announcement**
- **Discussion of Conference Themes**
- **Challenges for the Future**



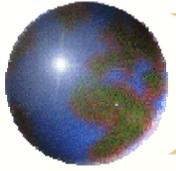
## *Themes*

- **From Agricultural to Rural Development Indicators**
- **International Standards and Methodology**
- **Rural Poverty and Hunger**
- **Environmental Sustainability**



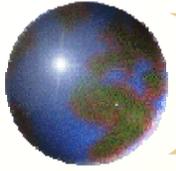
## *The Beginning Keynotes*

- **“Agricultural Statisticians way behind—busy fine tuning sample frames and lost in micro detail”**
- **“Good Indicators are Hard to Find”**



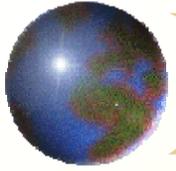
## *The Dilemma*

- **Not everything that can be counted, counts.**
- **Not everything that counts can be counted.**
  - **A. Einstein**



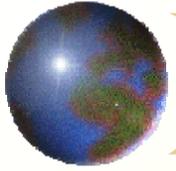
## Issues Discussed

- **“Farm household is focal point how policy affects farm production activities**
  - **What about non farm households—do they not count in policy decisions?**
  - **Are there not similar issues affecting non farm households?**



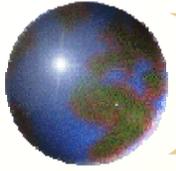
## Issues Discussed

- **Income of farm households is important**
  - **What about income of school teacher households, hired worker households?**



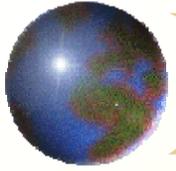
## Issues Discussed

- **“Difficult to measure labor input of farm operator—family labor”**
  - **So, how does this differ from measuring labor input of butcher, baker, candlestick maker?**
- **“Supply of labor reflects the nature of households supplying it”**
  - **Of course it does**
    - **Education—health—access to transportation--etc**



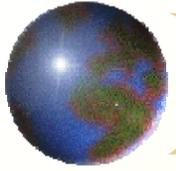
## *Outcome*

- **There is a need to integrate and link various surveys such as**
  - **Household Budget/Expenditure surveys**
  - **Labor Force Surveys**
- **And to link them to population censuses**



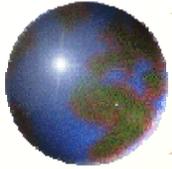
# Farm vs. Household as Unit of Measure

- **Why does one have to choose?**
- **Why not try to use both to understand how issues are related?**



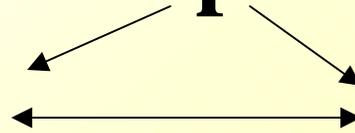
## *How Move Forward?*

- **Indicators based on units of measure**
  - ▣ **People**
  - ▣ **Households**
  - ▣ **Enterprises/Institutions**



# People

**Households**  
**Urban/rural**  
**Farm/nonfarm**



**Enterprises/  
Institutions**

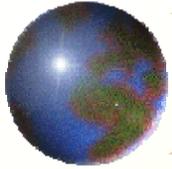
## Indicators

### **Economic**

**Income**  
**Self/emp**  
**Wages**  
**Investment**  
**Consumption**

### **Social**

**Education**  
**Health**  
**Equality**  
**Happiness**  
**Safety**



# People

**Households**  
**Urban/rural**  
**Farm/nonfarm**

**Enterprises**  
**Institutions**

**Indicators**

**Indicators**

**Economic**

**Social**

**Income**  
**Self/emp**  
**Wages**  
**Investment**  
**Consumption**

**Education**  
**Health**  
**Equality**  
**Happiness**  
**Safety**

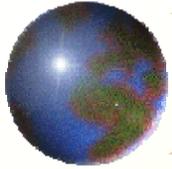
**Farms**

**Non/farms**

**Gov't**

**Production**  
**Services**  
**Expenditures**  
**Income**  
**Investment**

**Health**  
**Education**  
**Welfare**  
**Defense**  
**Infra-  
 structure**



# People

**Households**  
**Urban/rural**  
**Farm/nonfarm**

**Enterprises**  
**Institutions**



**Indicators**

**Indicators**

**Economic**

**Social**

**Farms**

**Non/farms**

**Gov't**

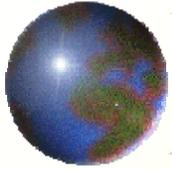
**Income**  
**Self/emp**  
**Wages**  
**Investment**  
**Consumption**

**Education**  
**Health**  
**Equality**  
**Happiness**  
**Safety**

**Production**  
**Services**  
**Expenditures**  
**Income**  
**Investment**

**Health**  
**Education**  
**Welfare**  
**Defense**  
**Infra-  
 structure**

**Environment/land/water/air**



# Current Statistical System—Stove Pipes

## People

**Households**  
**Urban/rural**  
**Farm/nonfarm**



**Enterprises**  
**Institutions**

**Indicators**

**Indicators**

**Economic**

**Social**

**Farms**

**Non/farms**

**Gov't**

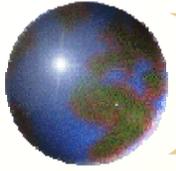
**Income**  
**Self/emp**  
**Wages**  
**Investment**  
**Consumption**

**Education**  
**Health**  
**Equality**  
**Happiness**  
**Safety**

**Production**  
**Services**  
**Expenditures**  
**Income**  
**Investment**

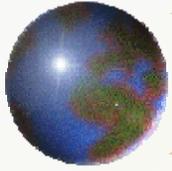
**Health**  
**Education**  
**Welfare**  
**Defense**  
**Infra-  
structure**

**Environment/land/water/air**



# *International Standards and Methodology: The way Forward*

- **Get minimum agricultural information from Population Census**
- **Consider Household Master Sample**
- **Consider two phase sampling**
- **Get ag labor from labor force surveys**
- **Ag income from household exp surveys**

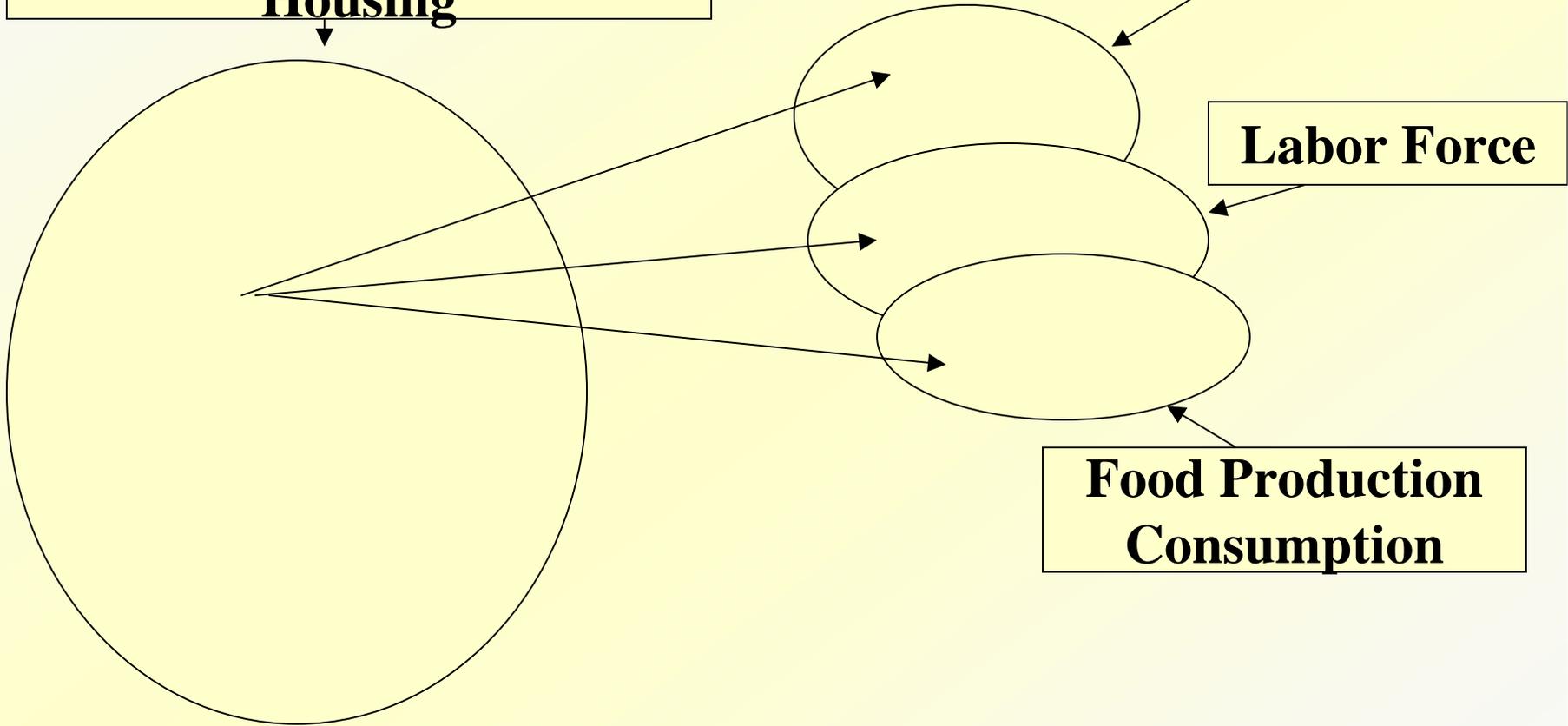


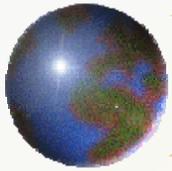
**Census of Population and Housing**

**Household ExpSurvey**

**Labor Force**

**Food Production  
Consumption**





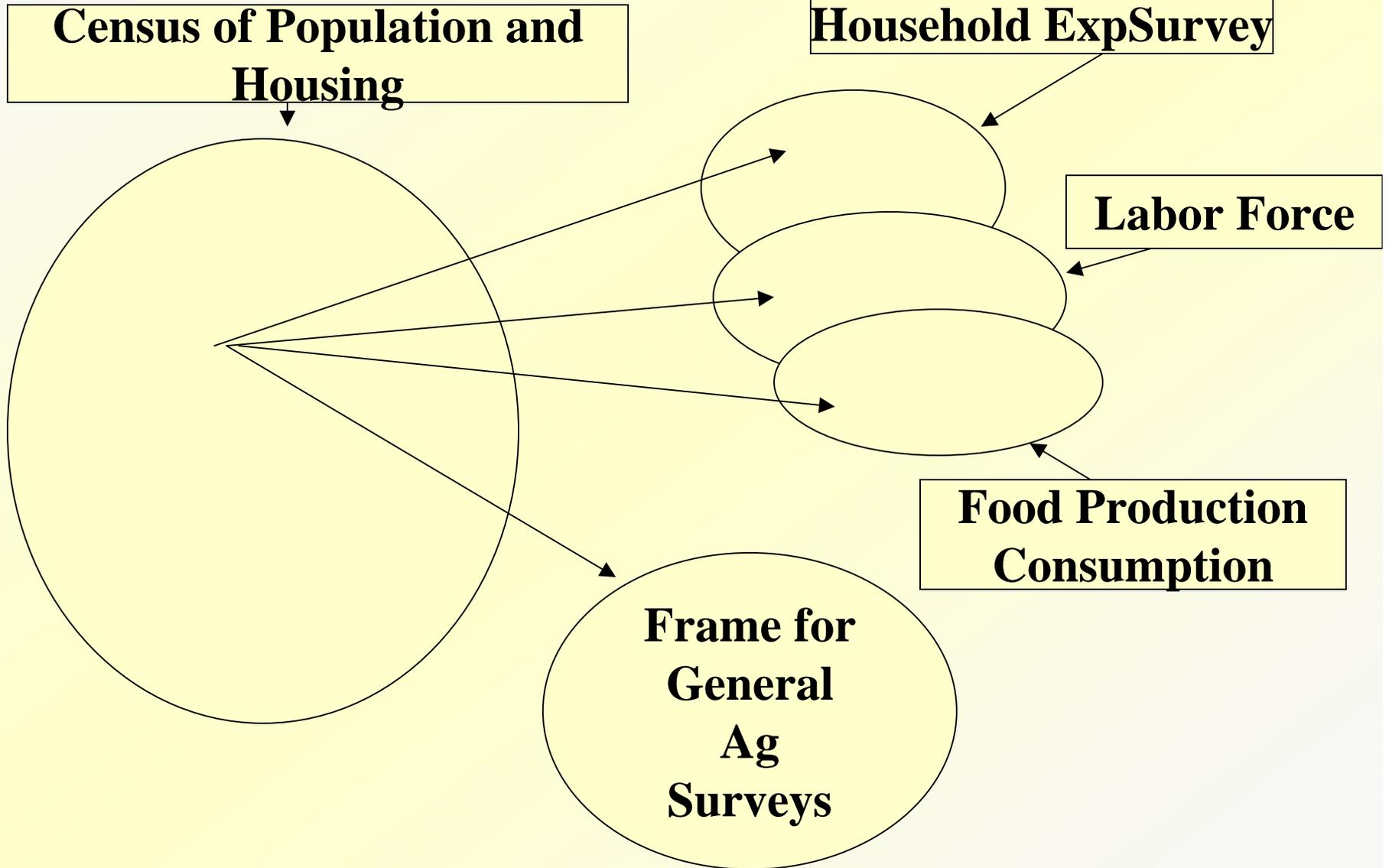
**Census of Population and Housing**

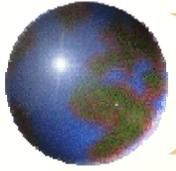
**Household ExpSurvey**

**Labor Force**

**Food Production Consumption**

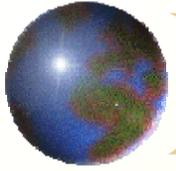
**Frame for General Ag Surveys**





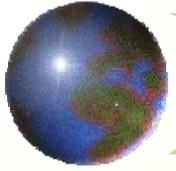
## *Food for Thought*

- **Use techniques such as network sampling to form linkages between households and enterprises**
- **Complete the loop between indicators.**



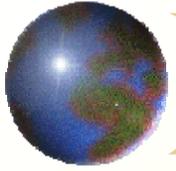
# *National Strategies for the Development of Statistics*

- **Concept of National Statistics**
- **Use basic principles of strategic planning for statistics**
  - **Integrate official statistics-national and international**
- **Loss of independence in methods and procedures offset by gains**



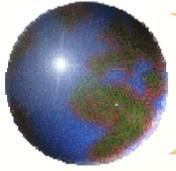
## *Census of Agriculture-thing of the Past?*

- **Too Expensive**
- **Fewer and fewer countries conducting**
- **More doing on sample basis**
- **Need to connect with Population Census**



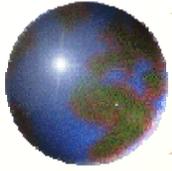
## *General Themes Developing*

- **Integration of rural/agriculture**
- **Agriculture become part of national statistical system**
- **Household surveys become part of national/international statistical systems**



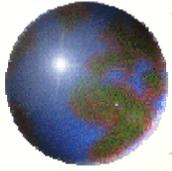
# *Innovative use of Surveys and Censuses*

- **Statisticians are not way behind**
- **Need to make their methodologies relevant for developing countries**
- **Need to ensure methods are sustainable**
- **Need to ensure there is comparability across time and space**



## *Rural Poverty and Hunger*

- **Dimension to Rural Development overlooked by Agricultural statisticians and economists**
- **Household surveys basis for many/most of the indicators**
- **Adds to burden of statistical system unless integrate**



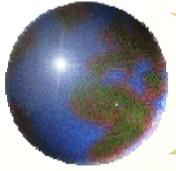
# *Environmental Sustainability*

## ● Data needs

- ▣ Use/pollution of natural resources
- ▣ Food safety
- ▣ Sustainable agriculture

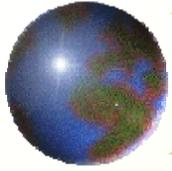
## ● Collection challenges

- ▣ Combine/harmonize administrative data with sample survey data



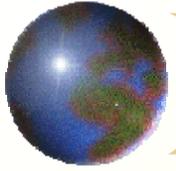
## *What is Next?*

- **The Challenge**
- **Do what we said should be done**
  - **Initiate dialogue with rest of statistical system integration**
  - **Continue dialogue with international organizations via Household Survey Network**



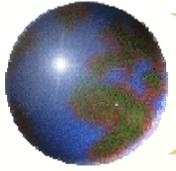
## *Challenge*

- **Can established statistical systems meet the challenge**
- **OR**
- **Will developing countries have to lead the way?**
  - **National Strategies for Statistical Development—statistical master plans—statistical capacity building**



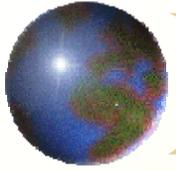
## *Another Challenge*

- **Ensure developing countries much better represented at next international conference**
  - **Papers by those represented here demonstrate innovative ideas, desire to move forward**
  - **Need to be part of international statistical community**



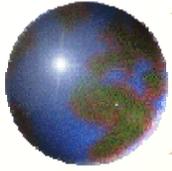
## *Still more Challenges*

- **Define rural or decide it does not matter**
- **Face comparability issues**
  - **Definitions-households/income**
  - **Determine basis for income comparisons—exchange rates or purchasing power parities**
  - **Determine basis for poverty comparisons**



## *And more*

- **More attention to use of technology to bridge survey, administrative, and remotely sensed data**
  - **GIS, GPS, -----**

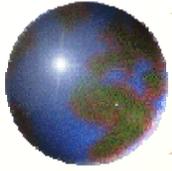


## *And Finally*

### ● **Expand Scope of the Discussions**

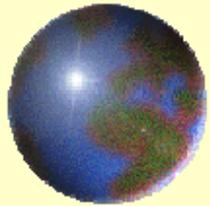
#### ■ **Include organizations such as**

- **World Trade Organization**
- **International Labor Organization**
- **World Health Organization**
- **UNESCO**
- **Etc**



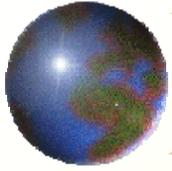
## *That about Sums it Up*

- **Congratulations to Juan Manual Galarza and organizing committee**
- **Congratulations to the program committee**
- **Thank you to the authors of the papers and key note speakers**
- **Thank you to the participants for your attention and input**



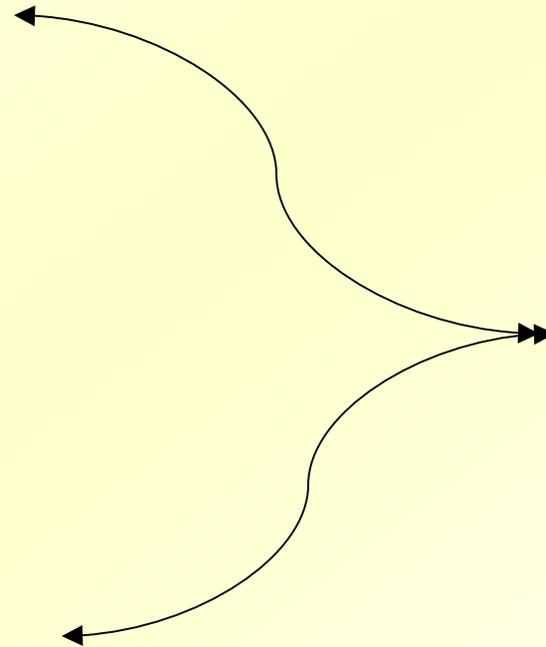
*See you in Beijing*

**God Speed and Safe Journey  
Home**

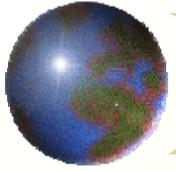


# *Emerging Forces*

- **Globalization**
- **Planned to Market Economies**
- **Increasing demand— environmental consequences**
- **MDG's— Poverty, health, education, etc.**

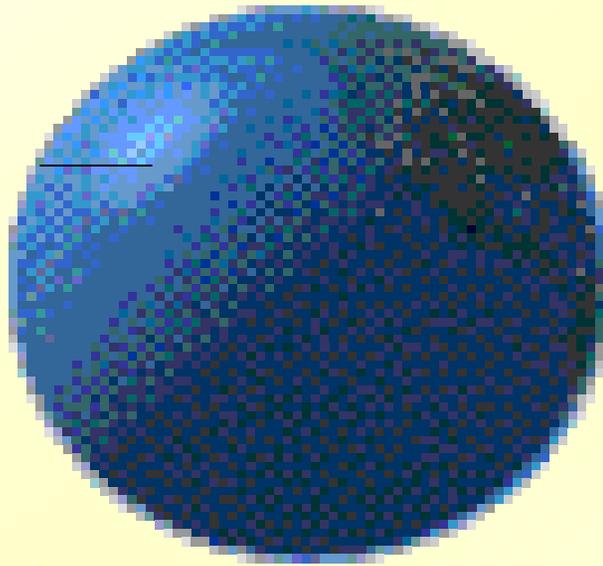


**All are  
happening  
at the  
same time**



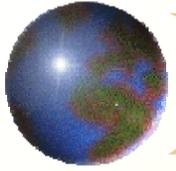
# *What is Rural?*

Land,  
water



Households/  
Farm/nonfarm

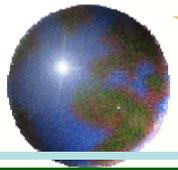
Enterprises/  
Farm/non farm



# *The Need*

## ● Data

- ▣ Describe current situation
- ▣ Analysis—effect of alternative actions and projections of consequences
- ▣ Monitor results



# *Agricultural and Rural Statistics*

