Breakout SessionA

1. What should be the Priorities for the NASA LCLUC Program next 10 years i.e.
   - 3 funding cycles - (annual LCLUC Calls)
   - The time-frame for new satellite assets
     - NASA: LDCM, VIIRS, GPM, SMAP, EV2 TBD
     - International: Sentinels, CBERS etc

- Continue improving the land cover maps (global), with continuing to integrate understanding land-use and the relationship between.
  - Higher resolution data for global mapping (Landsat, spot, sentinel, etc).
  - The coarse resolution data is still useful to describe land-use, describing multi-cropping, seasonal variation, land-cover change, etc.
- Basic research to explore the relationship between land-cover and land-use relationships
  - Is there something inherently human in land-cover change?
  - What information is needed to integrate land-use and land-cover?

- Detect change and relate it to something that is happening on the ground quantitatively,
- Land-use needs further definition refinement and methodological development, especially in terms of a description using land-cover.
- Use the current data available and coarse resolution to begin to describe the relationship between LC and LU and, when higher resolution data becomes available… improve.
- Are we trying to create a global land-use map?
- Data fusion, new protocols, new algorithms to describe land-use
- 3 calls? Algorithm and product development, Creation of land-use variable, Evaluation
- What science questions are we asking? What relationships do we need to describe and what variable are part of that description? What data do we have that can be used in this description, and what data do we need?
- Can we take the newly available high resolution data and do regional and national studies describing land-use.

Should we be strengthening the Land Use aspects of LCLUC If so what are the priorities ?

- YES
  - agriculture
  - How is the land being managed?
    - Economics, culture,
  - Climate impacts, vulnerability, and adaptation
  - Population change
  - Pattern to process
  - High resolution, high time step fidelity for IAM necessary for understanding the patterns and processes.
  - Community consensus modeling framework for describing land-use with land-cover data fused with other types of data.

Do you have other recommendations for the program

- Questions about sustainability, agriculture and energy.
  - Impact on water and climate.