Synthetic data opportunities and future sensor options linked to information needs

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Current working area (16 p/r) and Annual Change from STAARCH
16-Daily change from STAARCH
Synthetic imagery as a data option to mitigate a gap in Landsat continuity and / or as a supplemental product

• Goal: annual, global, cloud free imagery, and products
• In the mix of options for policy makers to consider, is there an non-proxy data option?
• Is there a possible role for model based, synthetic imagery?
• In what situations could synthetic imagery and change products fill an outstanding data need?
• Seamless, high temporal resolution, non-scene based, mosaic, products are possible
  – MODIS era
Synthetic data support

Utility of remotely sensed detection of change: Considerations for sensor development

- Has the scientific and political case been made to ensure support and interest in publically funded medium spatial resolution measures?
  - Trends in sensor development and focus
- Has the link been made between information needs and required measurements?
  - Ability to characterize land cover, land use, and change as enabler
  - Stress general and focused utility of current and expanded capacity
- Have the options for sensor developments to meet land use and land cover change been sufficiently identified and communicated?
  - Including the link of optical imagery to meeting policy, management, and science objectives
- Relates to discussion of future data needs and options for sensor development
  - Sensor and mission features to meet and improve upon ability to meet information needs can be put forward.