JECAM
R&D Towards Operational Update
Progress and New Directions
Strategic Issues – Mexico City 2015

Strategic Issue #1: Enhancing Technology Transfer

Challenge:
Ensuring research is transferred, implemented and made relevant to our collective GEOGLAM outcomes.

Strategic Issue #2 Inter-comparison Projects and Strategic Partnerships

Challenge:
Need to leverage our multi-site research platform efforts to strengthen and focus R&D delivery towards operations.

Strategic Issue #3 Enhanced R&D Networks for Food Insecure Nations

Challenge:
Monitoring in food insecure nations: Small and complex fields; in-situ data networks; technical capacity; infrastructure and institutional. The current R&D footprint of and coordination effort within GEOGLAM is insufficient to address this challenge.
Strategic Issue #1: Enhancing Technology Transfer

Progress:

- SIGMA JECAM Support
  - Site coordination (joint meetings)
  - STAC-database
- Standards and Best Practices (JECAM-SIGMA-Sen2Agri)
  - Development and implementation of Standards
  - Cropland definition
  - Minimum dataset requirements
  - Field data collection
  - FAO Review (Andy and Pierre)
- New Standards work
Strategic Issue #1: Enhancing Technology Transfer

Progress:
• Ukraine – Transition from R&D to Operations

JECAM Activities

- Local Scale
  Field level
  100m – 1km
  Validation

- Mid-Scale
  NUTS3 – NUTS2
  50x50 – 200x200 km
  Product development

- “Large Scale”
  Whole Ukraine
  1000x1000 km
  Operational implementation
Strategic Issue #2 Inter-comparison Projects and Strategic Partnerships

Progress:

• Cross Site Experiments
  • Land Cover Mapping
  • Yield Estimations
  • Agricultural Trend Analysis
  • Optical Methods Benchmarking over 12 sites

• Future Work on Inter-Comparisons
  • Initiating SAR inter-comparison
    – Cropland/crop type, SAR and SAR/Optical
    – Crop growth parameters (LAI, etc)
    – Other?
Strategic Issue #3 Enhanced R&D Networks for Food Insecure Nations

**Progress:**

- **Capacity Needs Assessment**
  - Selection of Priority Countries
  - Input to GEOGLAM Capacity Building

**Possible Future Linkages:**
European Horizon 2020 call on Agriculture and Livestock Monitoring in Africa

Need for more capacity/investment in smallholder farm systems R&D