Beyond the Census of Things

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Digital Agriculture Models







Avaaj Otalo (India)

- Interactive voice response-based advisory services
- 5% more likely to use recommended inputs than comparison group
- Average 28% higher yields over comparison group
- Average \$10 return for each \$1 invested in subscription







MyAgro (Mali)

- Mobile scratch-card based layaway for inputs
- Delivery of genuine inputs and bundled advisory services
- Average yield gains 50% 100%
- Average income increased \$150 \$300





CIAT 'Site-Specific Agriculture' (Colombia)

- Analyzed over 4,000 crop events to understand declining rice yields
- Recommended shift in planting time or new variety
- 1-3 tons/hectare yield difference between intervention and comparison fields





The mobile revolution

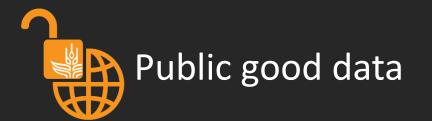




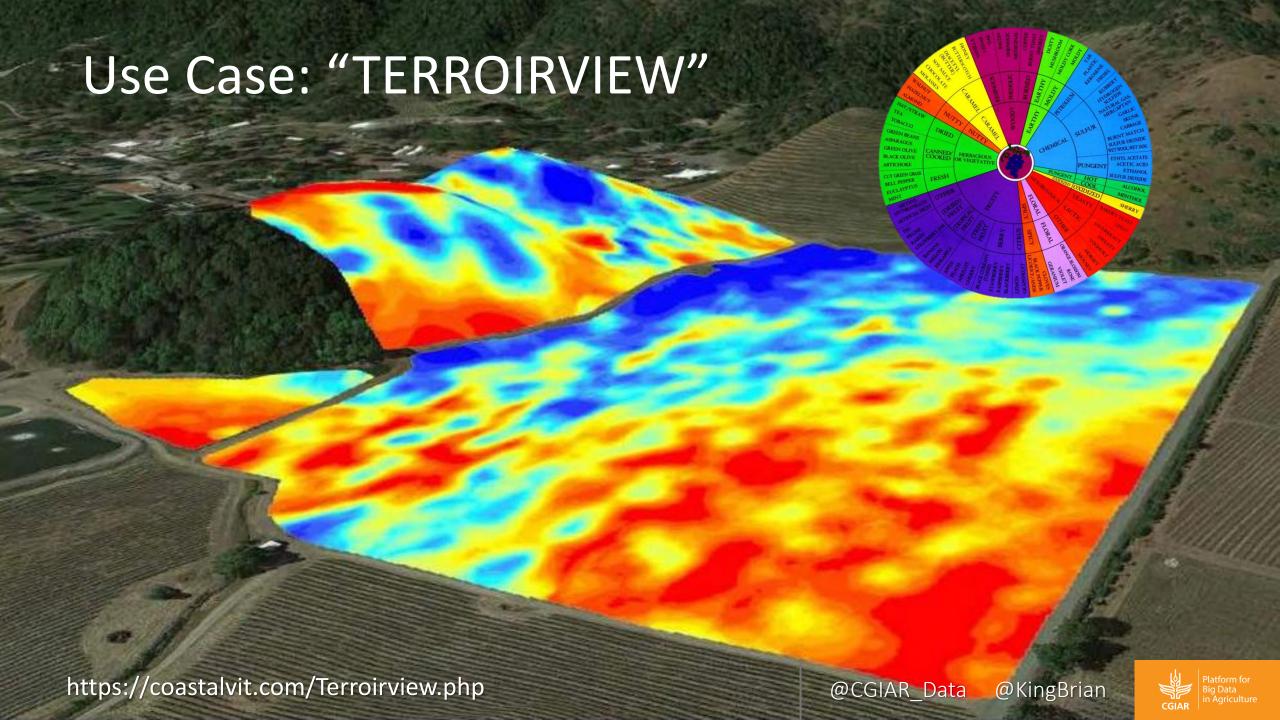
Sensor technologies



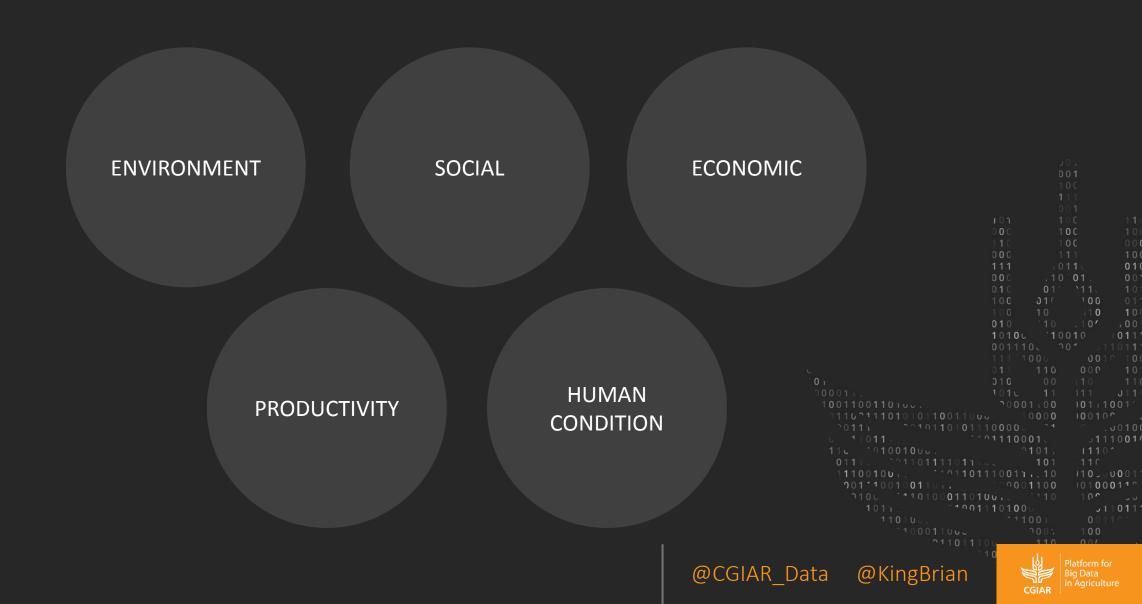
Computational power analytics capacity

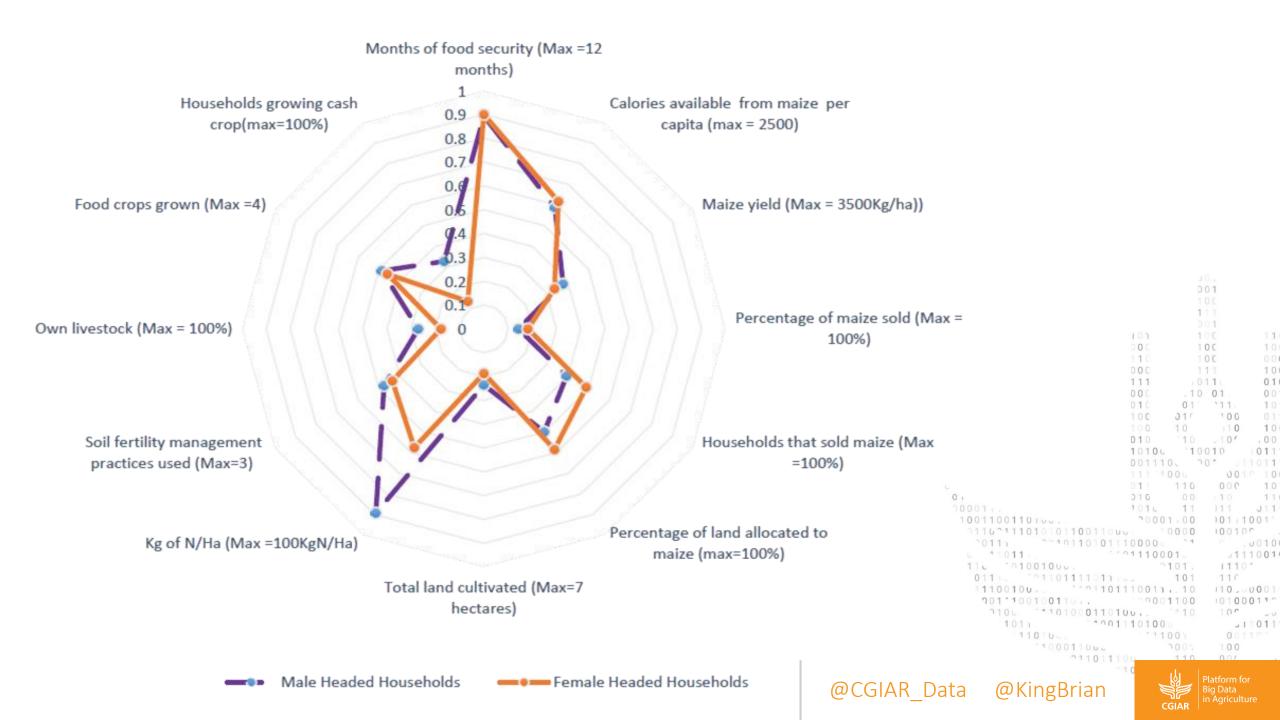






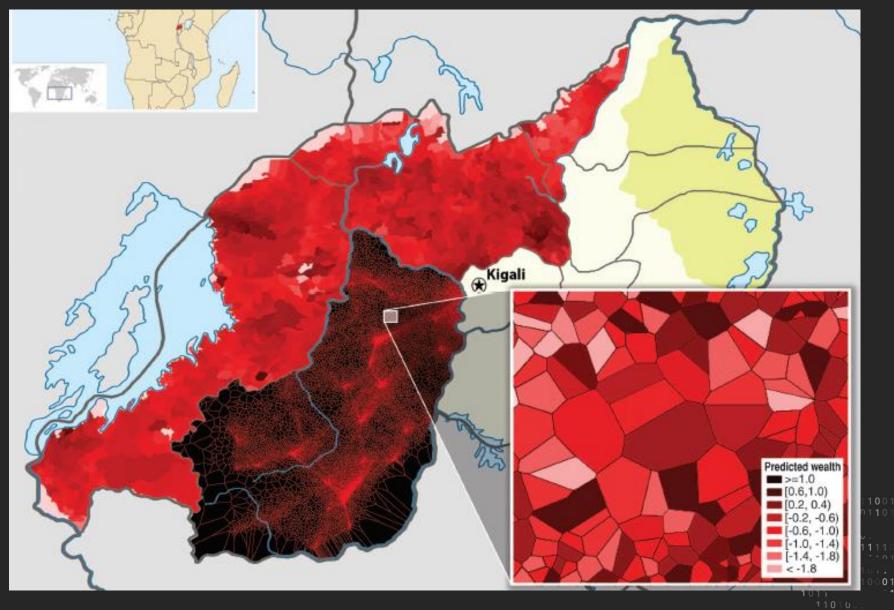
Use Case: Sustainable Intensification





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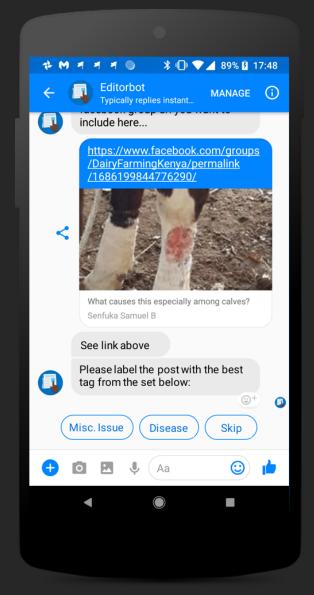


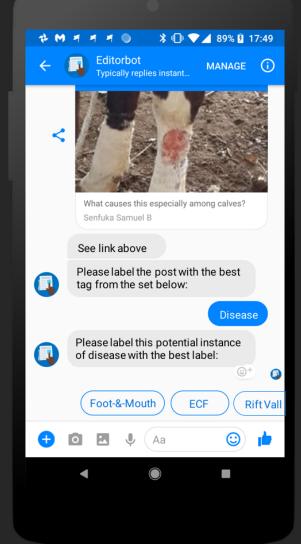


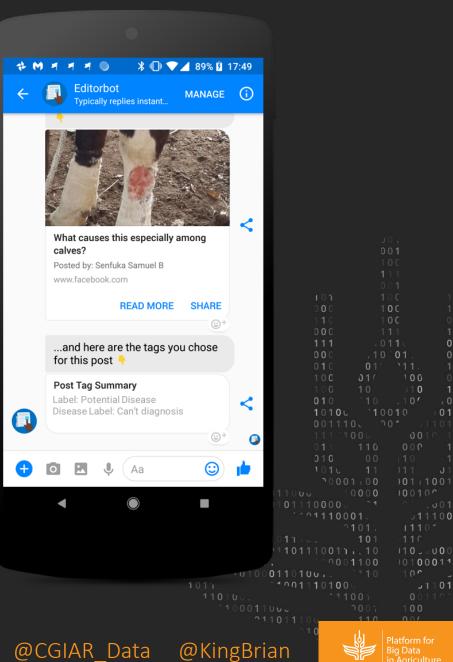
Joshua Blumenstock, Gabriel Cadamuro, Robert On "Predicting poverty and wealth from mobile phone metadata," Science 27 Nov 2015:Vol. 350, Issue 6264, pp. 1073-1076 DOI: 10.1126/science.aac4420



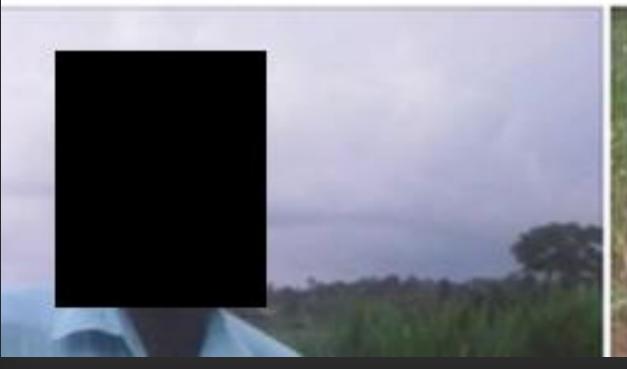








natoka Sasa... Ripping what u saw is now accomplished!





Thank you!

bigdata.cgiar.org



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