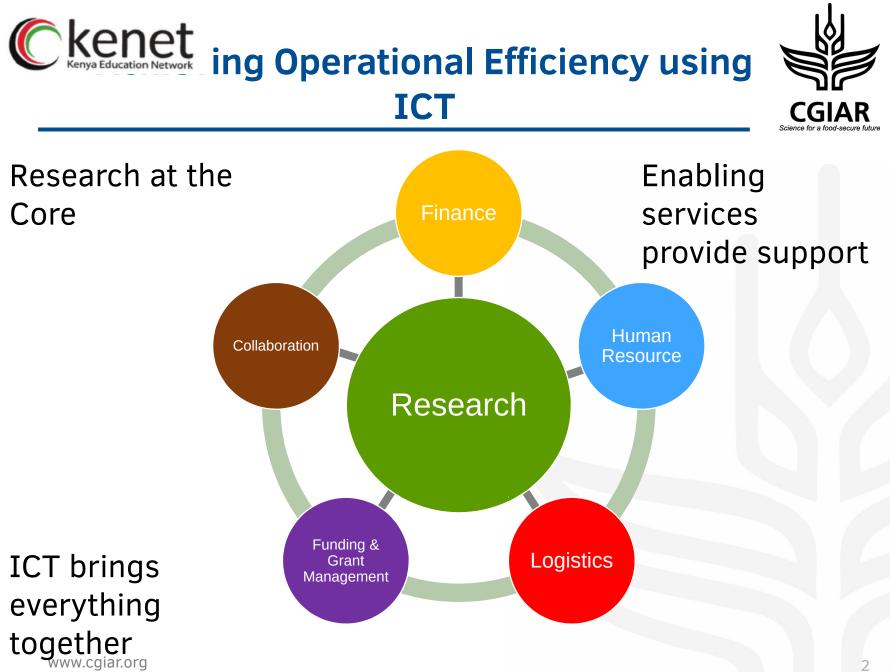




CGIAR is a global research partnership for a food secure future

Achieving Operational Efficiency of Research Institutes using ICT 16th April 2018



Big Data: unlocking the future for Agriculture!

COMMUNITY NEWSLETTER WHERE WE ARE BLOG INTERVIEWS CALENDAR OF EVENTS

Big Data can provide new efficient decision making tools for helping agricultural development as well as biodiversity protection. New acquired, aggregated and shared data is a breeding ground for extracting and sharing useful information and knowledge among different actors involved in agriculture or biodiversity domains, as well as for combining large data sources (thus obtaining new data sources) with advanced crop and environment models to provide actionable on-farm decisions.

When you're trying to reach a goal, data not only tells you if you're succeeding, but it also suggests which activities you should do more of in order to improve your results (Bill Gates).

Semantic Web an ideal playground for Big Data research



A collection of data sets so large and complex that it becomes difficult to process using on-hand databace management tools or traditional data processing applications. The challenges include capture, curat storage, search, sharing, transfer, analysis, and visualization (Wikipedia; mike2.0 Big_Data_Definition

BigDdata is big news. But what is Big Data, and how we use it? Simply put, Big Data is data that, by virtue of its Velocity, Volume, or Variety [and V the four V's of Big Data], cannot be easily stored or analyzed with traditional methods (Tech

and Concepts of Big Data). Analytics is a helpful tool to extract knowledge from Big Data, i. gain insights from data and make decisions by applying analytical methods from mathema





A technological revolution in farming led by advances in robotics and sensing technologies looks set to disrupt modern practice.

Technology that Will Change Agriculture in 2017

🕐 March 22, 2017 🛔 Guest Authors 🗁 Agriculture, Science 📿 0

nature.com > nature > outlook > article



Photo by Mauricio Lima | Flickr | CC license

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	Borneo - Sumatra Sentinel Landscape Dataverse	Mekong Sentinel Landscape Dataverse	Nicarugua - Honduras Sentinel Landscape Dataverse	Western Ghats Sentinel Landscapes Dataverse	
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1 (124)		Rural households living in tropical ecosyste	ms depend heavily on forest trees for valuable r		
4 (124) 5 (102) 2 (67)		o , , , ,	tudy assessed early survival and growth of Alla	anblackia stuhlmannii (Clusiaceae), a nor	ntimber tree





To Store and Process AgData

- Capabilities and expertise
- Large Storage capacity
- High Performance Computing
- High speed internet
- Software & Applications
- Sources of funding











- IT becomes an operating expense
 - No more large capital investments, pay by subscription or pay for what you use
- TCO of high standard data centre space
 - Certifications, security standards, best practice processes

Universal access

Each campus or mobile user has equal access

Up to date software

Keeping up to date is a continuous, incremental process

Flexibility

Fast deployment, upgrade or downgrade on demand in minutes

Working together



- ICT Shared Services
- Build Capabilities & Expertise
- Standardisation



- Automating and remotely managing processes
- Full cost recovery of services
- Sharing of experiences and resource
- Negotiate bulk discounts





One Corporate System

One Corporate System (OCS) is a CGIAR Centres' initiative to implement Unit4 Business World (UBW) as their common ERP.

A single solutions design document was developed from which a core base client was built. Incorporates Finance, Human Resources, Logistics, Planner, Research Management, PCB, Timesheets and Payroll.

Centres add local process requirements to create the flexibility required by independent organisations



common

directors

