

Making Livestock Smart and Sustainable

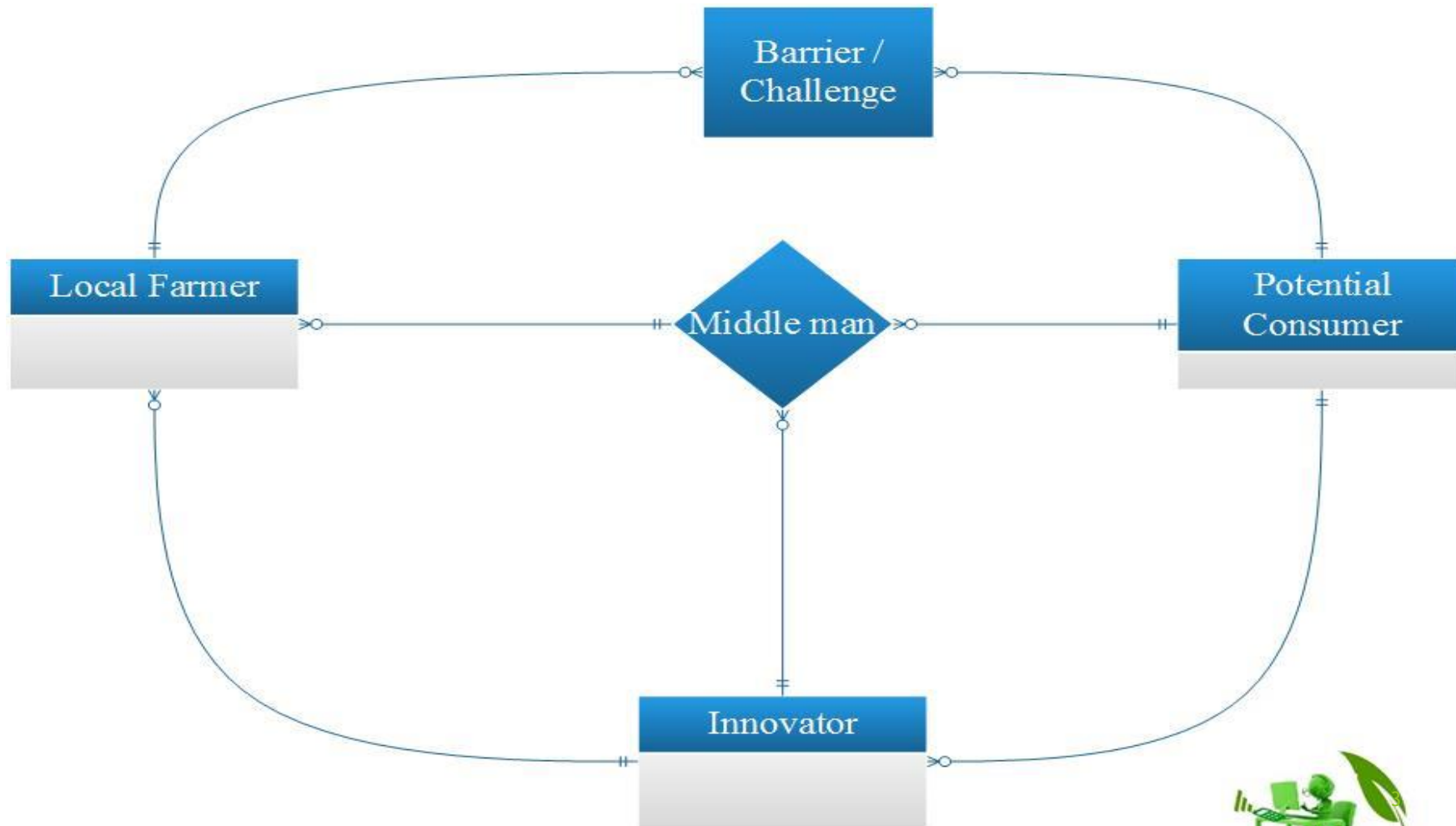


The background of the slide features abstract, overlapping green geometric shapes, primarily triangles and polygons, in various shades of green, creating a modern and dynamic visual effect.

How?

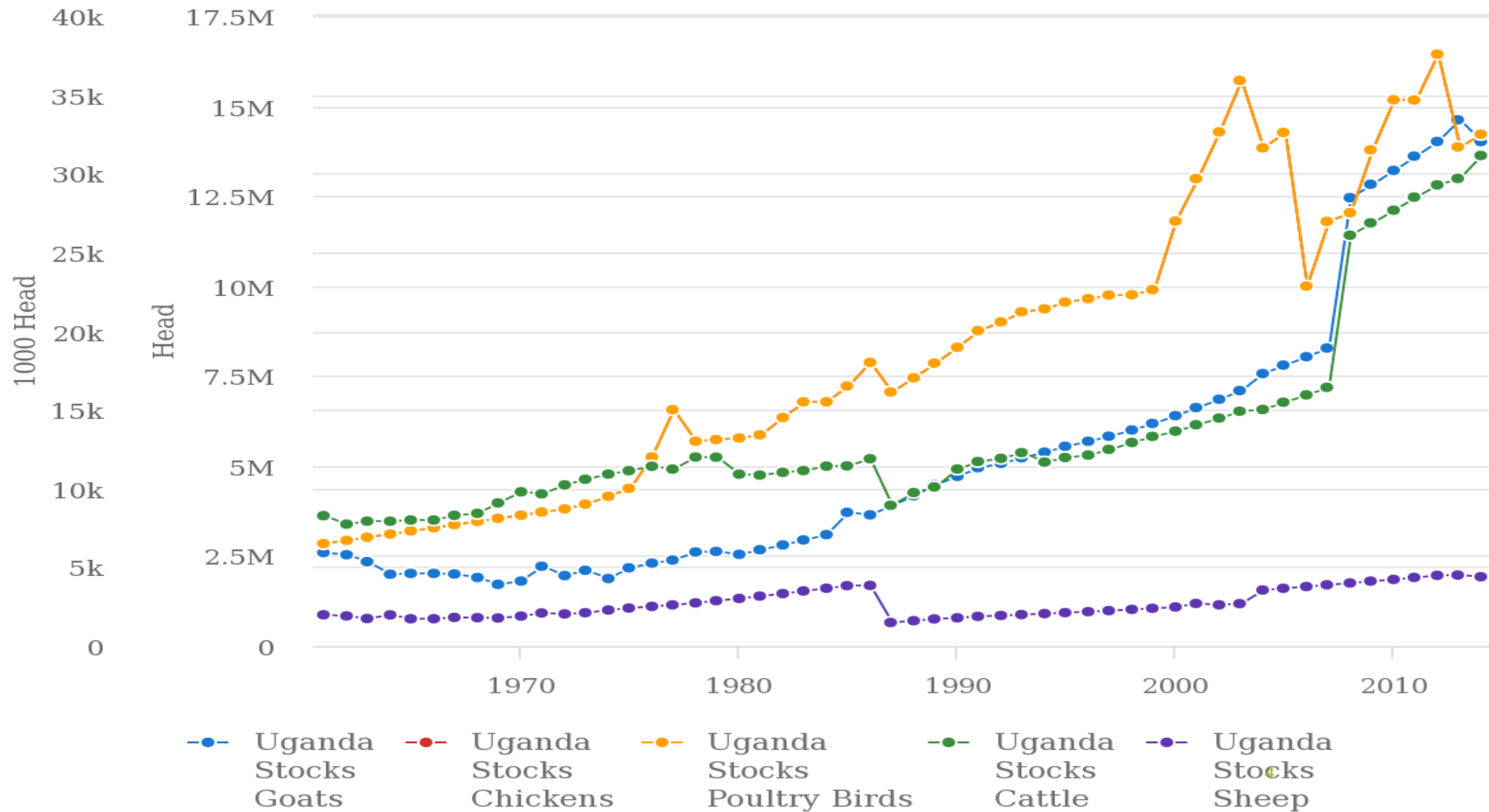
ICTs and Open data

My Role.....



Trend of livestock production in

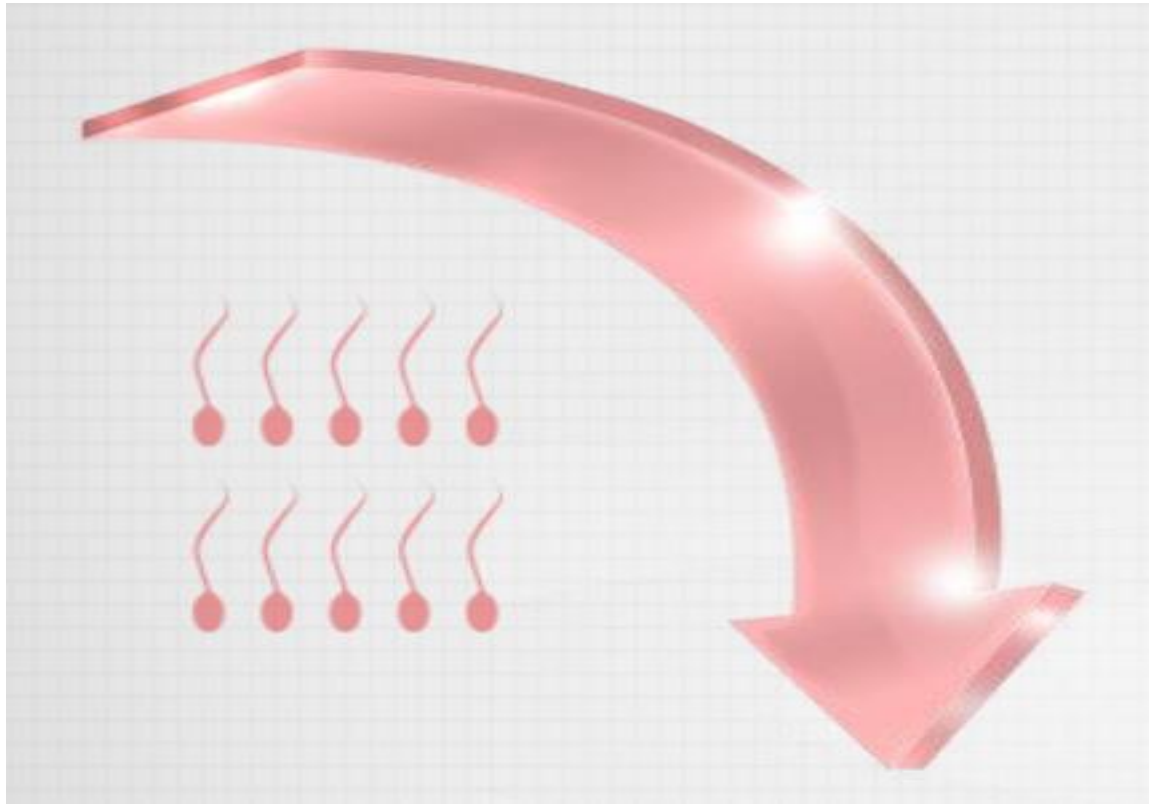
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Source: FAOSTAT (Sep 21, 2017)

Global situation in Livestock keeping.....

- FERTILITY RATES DECREASING



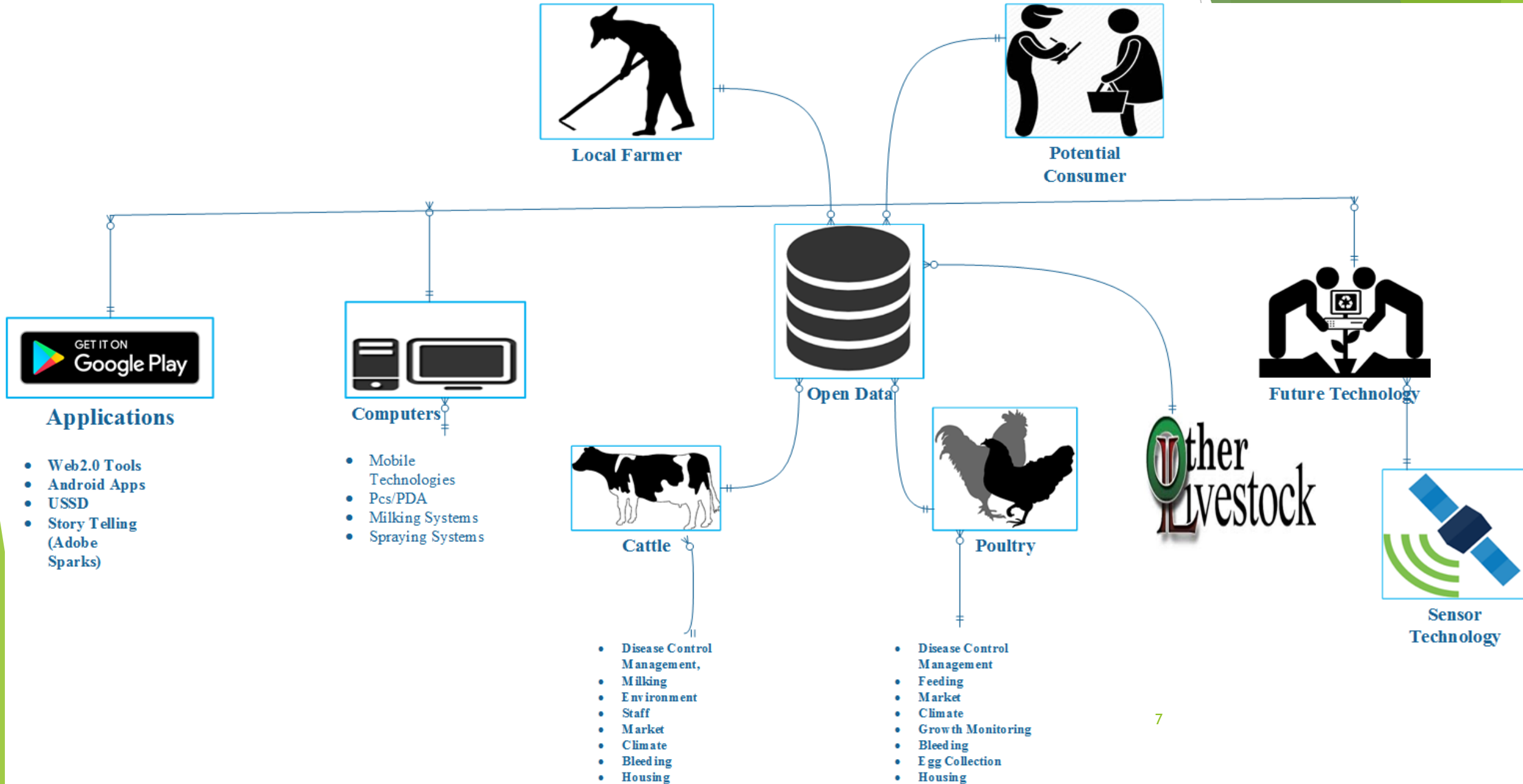
- WORLD POPULATION INCREASING



Can open data and ICT be the solution??

Will this make it sustainable and smart??

Smart and Sustainable

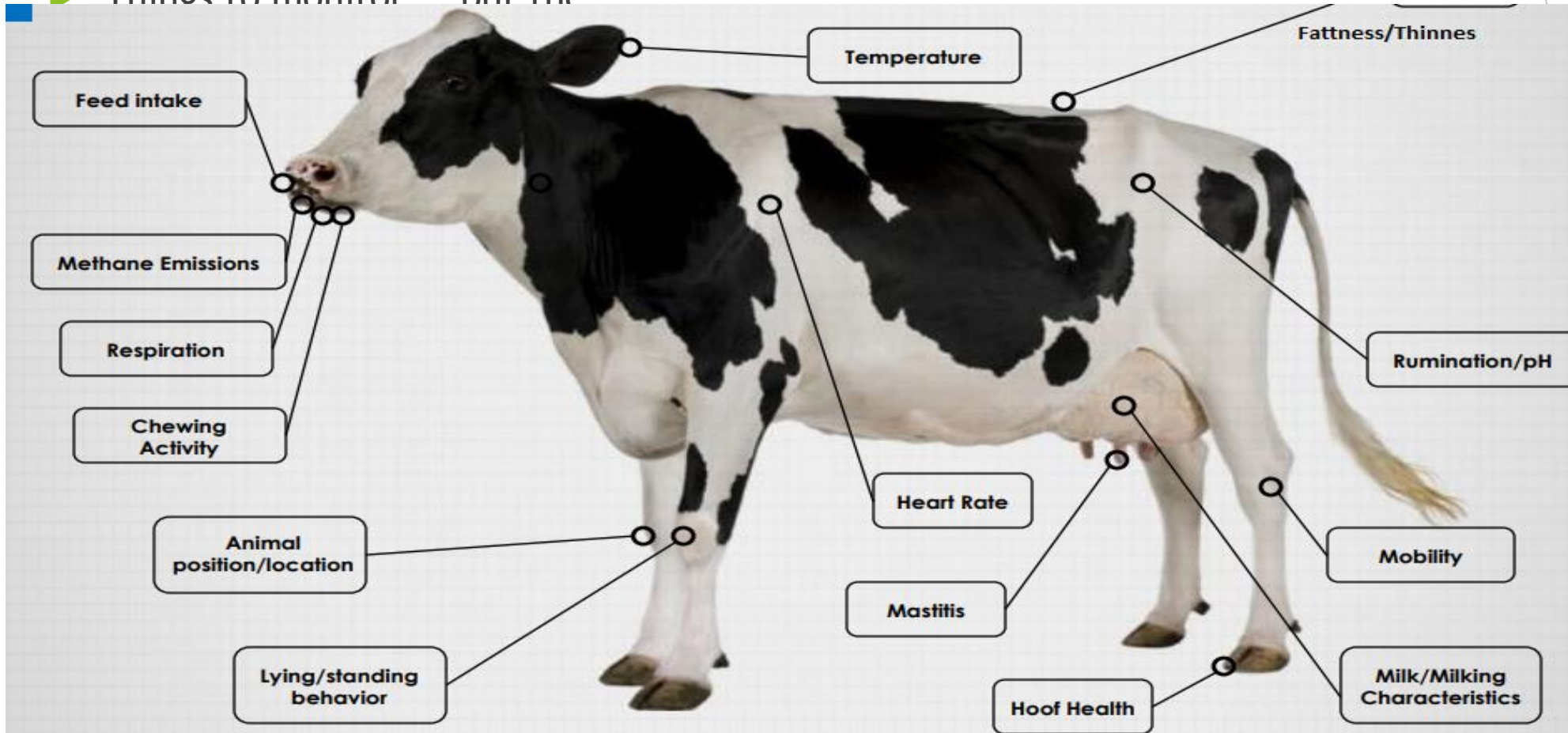


Applications.....with....Computing systems

- ▶ Web 2.0 tools for home of kuroilers.....
- ▶ Apps4ag.org
- ▶ USSD Messages

Current Technology in Cattle keeping.....

► Things to monitor----put the



Feed & Water.....



Health

- Disease/ Illness have a negative impact on milk production and quality. Most critical period is transition period importance dry cow & fresh cow management & feeding to prevent metabolic disorders lameness & mastitis after calving



Access Your Data Anywhere Anytime



Contactless Data Entry

- Simply swipe your phone over a tag to read the information contained within.
This is the same technology used in contactless credit card payments



Sensor Technology

GET BEHAVIOUR ALERTS

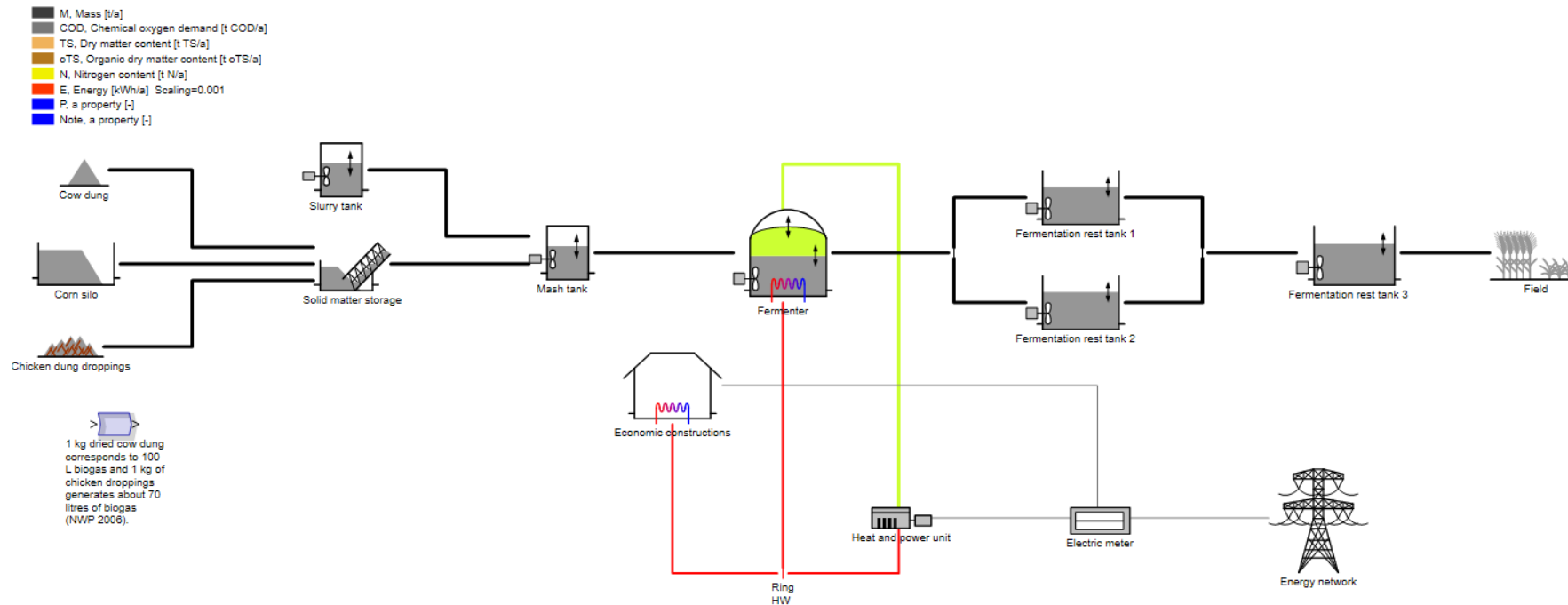
Identify changes in the normal behaviour ▶

Turning Cow poo to Power one million homes

- ▶ According to the Environmental Protection Agency estimates that more than three million tons of greenhouse gas emissions were eliminated last year by Homestead and the 246 other US livestock farms which have installed biogas recovery systems.
- ▶ That's equivalent to taking more than 630,000 cars off the road

At yitedev-Uganda, we are designing biogas models to fit in the local context. We are using data sets from MIAAF and other sources to compute for the methane gas from certain quantities of cow dung

ADM for accessing the potential of green energy



Challenges

- ▶ Complexity/Abstract data
- ▶ Remote Data
- ▶ Data Accuracy
- ▶ Data privacy

What should be done

- ▶ Capacity Development
- ▶ More story telling especially in customized languages
- ▶ Communicate Science to Local Farmers
- ▶ Free information flow
- ▶ Webinars

Thank You

Paul Kasoma

@kasomapaul1

paulkasoma01@gmail

+25675477206

