The future of livestock in Africa

CONNECTING THE DOTS

Ugo Pica-Ciamarra (ASL2050)

LD4D meeting, Rome, 4-6 February 2020
AFRICA SUSTAINABLE LIVESTOCK 2050

Policy project to:
explore the future (2050) to anticipate emerging livestock-related opportunities and challenges ....

... and provide evidence for improved policies and investments
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Characterization of existing livestock production systems and assessment of their impacts on society (livelihoods, environment and public health)

Quantitative projections and foresight methodologies to portray the future of livestock in 2050

Recommendations for resilient policies
MEGATRENDS

- Increasing population
- Urbanization
- Consumer purchasing power
MEGATRENDS

Increased consumption of animal source foods

Urban areas will contribute about 70% to all consumption of livestock products

Meat consumption, 2015 to 2050
Africa urban and rural areas

<table>
<thead>
<tr>
<th>Year</th>
<th>Urban (Million tonnes)</th>
<th>Rural (Million tonnes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>9</td>
<td>12</td>
</tr>
<tr>
<td>2050</td>
<td>40</td>
<td>17</td>
</tr>
</tbody>
</table>

Urban: +237%
Rural: +92%
MEGATRENDS

Producers will respond to the increased demand

Production anticipated to grow almost as much as consumption

Meat production, 2015 to 2050

- Beef: 1 million tons in 2015, 5 million tons in 2050 (+170%)
- Poultry: 3 million tons in 2015, 23 million tons in 2050 (+285%)
- Small ruminants meat: 6 million tons in 2015, 19 million tons in 2050 (+170%)
- Pork: 7 million tons in 2015, 8 million tons in 2050 (+400%)
MEGATRENDS – CHANGING GEOGRAPHY OF LIVESTOCK PRODUCTION

Kampala, Uganda: human and animal population density
(observed data)

Increased relevance of urban and peri-urban livestock farms / value chains
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MEGATRENDS - HIGHER HUMAN AND LIVESTOCK POPULATION DENSITY IN URBAN AREAS

environmental issues

public health issues
LIVESTOCK-RELATED ENVIRONMENTAL AND PUBLIC HEALTH ISSUES FASTER THAN YOU THINK

Nairobi projected human population

2010

3.9 million

2050

14.3 million

THE CHALLENGE

- Per year: +295,000
- Per month: +24,000
- Per week: +6,000
- Per day: +900

Nairobi population, 2010 – 2050

Source: Hoornweg and Pope, 2016
THE CHALLENGE

Policies and strategies...

Research ....

... are path-dependent and focus on the «past» or the current situation (e.g. smallholders in rural areas and pastoralists), while Africa is changing past ...

... a perfect recipe for failure ?

Dar es Salaam

1986

Pop = 1.2 million

2016

Pop = 5.4 million

LD4D MEETING, ROME, FAO HQS, 4-6 FEBRUARY 2020
Thank you

Protec ting pe ople, a mals, and the e n vironment e very day
Bangkok, Thailand: human and animal population density  
( observed data )

Human population (person/sqkm)

Chicken population (head/sqkm)
Paris, France: human and animal population density
(observed data)

Human population (person/sqkm)

Chicken population (head/sqkm)
Kathmandu, Nepal: human and animal population density
( observed data)

Human population (person/sqkm)

Chicken population (head/sqkm)