### Is modern agriculture key for economic development?

By Daniel Motinga October 2020



### a Key definitions @ What do we mean by modern agriculture? a What do we mean by economic development? @ Problem statement (what do we want to solve?) a Where is Namibia's agriculture in 2020 in terms of modernization? constraints?

@ Quick wins and low hanging fruits



- @ How can we appropriately pace modernization of local agriculture given the



The evolving approach to agricultural innovations and farming practices that help farmers increase productivity, and efficiency without diminishing available water and soil and energy resources

o Thus sustainability is at the core of a modernized agriculture in my view

e Changing farming lechniques to produce more sustainably

### Defining a modernized

## Defining econcondec acvelo pmache

- @ Development is more than growth or changing incomes
- @ Il's multi-dimensional:
  - @ Health, life expectancy, better nutrition,
  - @ Access and acting out on opportunities as they arise
  - @ literacy, limited poverty, access to sanitation, low infant mortality

@ It's the positive balance following the interplay of economic forces and socio-economic outcomes

- @ Bringing about economic development in its broadest sense?
- water sources at a reasonable margin to farmers?
- technologies?
- @ Enabling farmers to deal with predator control using technology
- @ Further reduce aggregation and storage cost for farmers?
- @ Household level food security during stress events?

### What is it we need to solve?

@ Accelerate the production of food with sustainable use of local soils, and constrained

@ Production of surplus for potential "exports" (local market for crops being develop)?

a Making farmers production cycles contrarian to rainfall and pest cycles with better

### Mhere is our agriculture in 20202

- GDP
  - crops&forestry it was negative for 11/40.
  - @ It's relative share in measured GDP fell from 7% in 80's to below 4% in 2020
- entrants!!
- some level of domestic self-sufficiency

@ Agriculture remains highly volatile by nature and has become relatively less important in

@ Between 1980 - 2020 (growth was negative for 21/40 years for livestock) For

a However, in absolute terms it is still a N\$7 billion industry and there is no shortage of new

@ There is scope for further growth through the right risk mitigation and diversification. @ Covid-19 pandemic has shown that when the "trade music" stops; ideally there is need for

### Key challenges enroule lo modernisation

Agri-census of 2013/14 showed the following major investment shortcomings at farm enterprise level:
2.6% of farms used a combined harvester
27% used a tractor in those preceding 12 months
Private ownerships of capital intensive machinery is low
15% of farms shared a wheelbarrow!!
17% shared a hoe

@ 29.6% shared a planter

only 55% of farms used a vaccination gun in the preceding 12 months
18% of farms any type of loading ramp for livestock
61% of loans were for livestock acquisition

# The way forward (some quick wins)

- @ Need to reduces earnings volatility in the sector
  - Support investment in solar pivots, drip irrigation to enable out of rainy season production
  - a We need to encourage mega-farmers to exploit scale
- Accelerate mechanization where it make sense (AfDB facility mentioned in Mid-term Budget)
- Overgrazing is big problem. Agri-census 2013/14 reports that approx 40% of soil erosion caused by overgrazing
- @ Extension outreached is highly constrained and is critical for sustainability
- @ Getting the STUD industry to respond to commercial production needs

 Yes modern agriculture is key for economic development because of the backward and forward linkages that are pervasive in the Agri value chain

But we are not there yet on the basis of anecdotal evidence that shows current low investment in mechanisation and productivity enhancing equipment (only 24% of farmers used scales in 2014)