

#### AGRICULTURAL SUPPORT SYSTEMS: Empowerment of Black Farmers in the South African Potato industry

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# **Presentation Outline**

- 1. Study background
- 2. Defining empowerment
- 3. Operationalising
  - SA context
  - International context
- 4. Research study & findings
- 5. Nexus relationship to land reform
- 6. Lessons learnt

## BACKGROUND Empowerment through FSP (Farmer Support Programmes)

- FSP is a dimension contributing to farmer empowerment
- Has been applied (DBSA) and continues to be applied by government to support farmer development (DAFF)



# Farmer Support FSP's context to empowerment study

- DBSA FSP: developmental approach targeting small scale farmers
- Objective to spread effects of agriculture projects to farmers
  - Providing complementary coordinated and timely services
- Potential to increase utilisation efficiency of resources and productivity
- Farmer settlement strategy 1987 to 1993
   Singini & van Rooyen, 1995.

# FSP's (cont.)

- DAFF and Provincial Departments of Agriculture FSP's (Mr. Msomi)
- E.g. W. Cape FSP
  - Broad developmental agenda
  - Design & implementation of SHF support
  - Enhance land reform programmes: facilitation of capacity & skills development and resources to achieve equitable and diverse sector
  - Impact measurement, partnership leverage
  - Extension support, address food security

# **Problem statement**

- Potato industry undergoing transformational challenges evidenced by low numbers of black potato farmers visible in industry and known to commodity organisation PSA
- PSA serves interests of only its members reflecting few black farmers
- Little empirical evidence testing the state of empowerment in SA potato industry
- Seed potato industry supplies growing volumes of seed potatoes to black farmers (Wesgrow, 2016)

### Empowerment

- In order to assess empowerment status need to have clear definition
- Described as a latent, complex and multidimensional phenomenon occurring over many aspects of people's lives (Ibrahim and Alkire, 2007: Mahmut *et al.*, 2012).
  - Is centred on transformation of power relations
- Is difficult to observe and measure (What gets measured gets done)
- Characterised by definitional disparities

# Definitions

- Multiple and context-specific definitions
   (Ibrahim and Alkire, 2007) including:
- An emancipatory process where the disempowered and disadvantaged are enabled and empowered to exercise their rights and agency in decision-making to gain access to resources and capabilities, therefore enabling them to actively participate in decisions to positively enhance their livelihoods Lutrell *et al.*, 2009

# **Definitions (cont.)**

- Empowerment is the expansion of assets and capabilities of individuals to participate in, negotiate with, influence, control and hold accountable institutions that affect their lives Narayan, 2002
- In an agricultural context Alkire et al., (2013) describe empowerment as one's ability to make decisions on matters related to agriculture as well as on one's access to the material & social resources needed to carry out those decisions

# Operationalising empowerment: SA context

- Operationalised through the application of the AgriBEE sector codes, whose key objective is to ensure increased access and equitable participation in all levels of the agriculture value chain
  - Focus of codes primarily targets agribusinesses, commodity organisations, employees, entrepreneurs
  - 2008: 7 pillars and 2017: 5 pillars
  - Farmer-centric empowerment not clearly defined

# SA: Operationalising (cont.)

Period	Transformation Guideline
1998	No specific transformation allocation
2001	Minimum of 10 % statutory levy
2005	Approximately 20 % statutory levy
2009	Minimum of 20 % statutory levy
2015	Minimum of 20 % statutory levy across 7 pillars
2017	Minimum of 20 % statutory levy across 5 pillars

# SA: Operationalising (cont.)

2008 Transformation Pillars (7)	2017 Transformation Pillars (5)
Ownership and land ownership	Ownership
Management control	Management control
Employment equity	
Skills development	Skills development
Preferential procurement	Enterprise development
Enterprise development	
Socio-economic development	Socio-economic development

# Transformation Guidelines NAMC

Element	Percentage
Enterprise and Supplier Development	60 %
Skills Development	20 %
Management Control Ownership Socio-Economic Development	20 %

# Limitations

- Potatoes commodity organisation services needs of its members, thus excluding nonmembers (PSA, 2015)
- Contrary to spirit of AgriBEE sector codes, MAP Act of 1996, SA constitution, Ntsebesa et al., 2009. Excludes majority of black potato farmers
- Data are aggregated
- Measurement variables not specific and telling on individual farmers and their empowerment

# Operationalising empowerment: global context

- Transformation through empowering individuals from lower position to higher one resulting in significant changes to lives and livelihoods targeting 3 aspects
  - Means (enabling factors including rights, resources, capabilities, opportunities)
  - Processes (decision-making actions including internal empowerment capabilities)
  - Ends (greater control of livelihood assets)

Bartlett, 2004

# **Operationalising (cont.)**

- Longwe, 1991 (degrees of empowerment)
- Sen, 1999 (interplay between agency and capability: existence of choice, use of choice, achievement of choice)
- Narayan, 2002 (opportunity structure / institutional climate, agency/ assets and capabilities leading to development outcomes)
- Gaventa, 2003 (power cube levels, spaces and forms of power)
- Alsop and Heinsohn, 2005 (agency, opportunity structure, empowerment outcomes)
- OPHI,USAID, IFPRI, 2012 WEAI addressing 5DE (Women's Empowerment in Agriculture addressing five domains of empowerment)

# WEAI and 5DE methodology

- The study applied the Women's Empowerment in Agriculture (WEAI) focusing on five domains of empowerment (5DE production, resources, income, leadership, time)
- Advantages over BEE methodology focused on single domain
  - Agriculture-specific tool, measurable, tracks progress over time, assesses empowerment state and prevailing barriers, enables targeted interventions and policies, disaggregates data (region, demographics, scale, etc.)
  - A survey-based instrument which can be adapted and contextualised
  - Enables targeted and needs-based farmer support to facilitate empowerment in agriculture

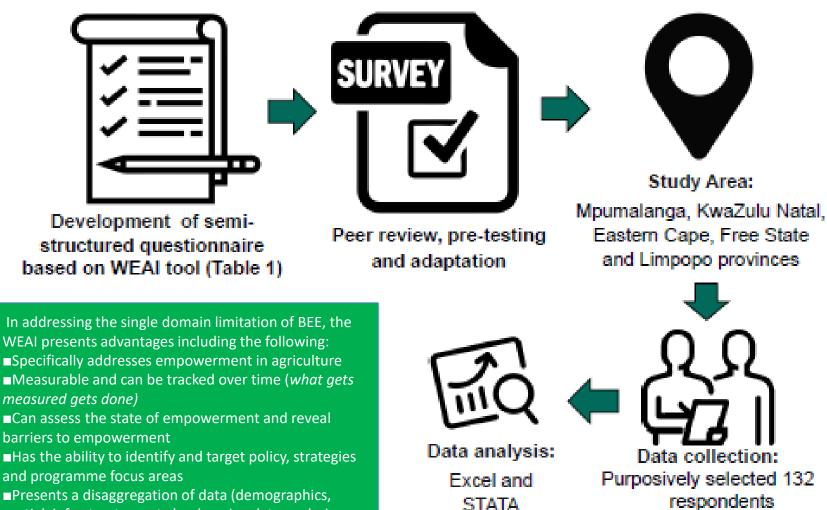
## **Methods and procedures**

- Cross-sectional and mixed methods research designs including qualitative and quantitative approaches conducted across 5 provinces Mpumalanga, KwaZulu Natal, Eastern Cape, Free State, Limpopo
- Areas defined as agriculturally significant StatsSA (2017) and key to addressing poverty alleviation through agricultural production DAFF(2016)
- Addressing research objectives
- Non-random sampling covering132 respondents who planted disease-free certified seed potatoes over past 2 seasons individual households, co-operatives drawn from various data bases
- Varied locations within PSA defined production regions geographic and ephidatically diverse areas, multiple and heterogeneous locations

# Methods (cont.)

- Semi-structured questionnaire interrogating socio-economic, demographic, farming systems, and empowerment domain indicators
- Data cleaned, captured, coded, exported to Excel and STATA 14 for analysis
- Descriptive analysis, inferential analysis applied

# **Summary of Methodology**



spatial, infrastructure, etc.) enhancing data analysis.

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# Limitations

- Limited sample used (132)
- Time and resources
- Limited testing of full extent of WEAI methodology and its analysis

# Methods: WEAI and 5DE

Domain	Indicator
Production	<ul> <li>Input in productive decisions (autonomy in production)</li> <li>Potato yield per ha</li> <li>Land tenure institution</li> </ul>
Resources	<ul> <li>Tractor access or ownership (asset)</li> <li>Information through extension</li> <li>Frequency of extension access per season</li> </ul>
Income	<ul> <li>Attained income from agricultural production during previous season</li> <li>Control over income use</li> </ul>
Leadership	<ul><li>Leadership effectiveness</li><li>Capacity to influence change</li></ul>
Time use	Indicator not explored as study focus not of a gender-specific nature

# **Results Summary and Findings**

Domai	Selected Indicators	Responses	МР	KZN	EC	FS	LP	Total
	Who makes decisions on input	Government or other Institution	0%	0%	0%	0%	32%	7%
		Outside household female	14%	13%	20%	0%	4%	12%
	use?	Outside household male	Imment or other Institution         0% <t< td=""><td>27%</td><td>7%</td><td>25%</td></t<>	27%	7%	25%		
		Household jointly	46%	67%	49%	73%	57%	56%
ion		0-4t/ha	32%	30%	31%	0%	21%	26%
luct	Potato Yield per	4-10t/ha	57%	50%	46%	0%	21%	48%
Production		10-20t/ha	11%	17%	17%	27%	25%	20%
	Hectare	Over 20t/ha	0%	3%	6%	73%	32%	5%
		Not certain	17%	18%	10%	29%	0%	18%
		Private land-title deeds	2%	0%	0%	3%	0%	4%
	Land tenure	Tribal land –PTO	71%	68%	80%	68%	82%	64%
		Private land lease	10%	14%	10%	0%	18%	14%
S	Tractor	No	100%	83%	91%	45%	11%	70%
Resources	Ownership	Yes	0%	17%	9%	55%	89%	30%
SSO	·	No	54%	50%	71%	18%	21%	48%
Å	Information Through Extension	Yes	46%	50%	29%	82%	79%	52%
	Extension	Never	54%	50%	71%	18%	21%	48%
		Once a season Twice a	18%	33%	14%	9%	33%	23%
		season	29%	3%	12%	73%	46%	27%
	Frequency	More than 2 times a season	0%	7%	3%	0%	0%	20%

# **Results Summary and Findings**

Domain	Selected Indicators	Responses	MP	KZN	EC	FS	LP	Total
		<r42000< td=""><td>69%</td><td>87%</td><td>38%</td><td>9%</td><td>50%</td><td>56%</td></r42000<>	69%	87%	38%	9%	50%	56%
	Income	R42000-R100000	17%	3%	18%	36%	7%	14%
		R100001-R150000	10%	7%	21%	27%	4%	12%
e		R150001-R200000	3%	0%	0%	0%	0%	1%
Income		Over R200000	0%	3%	24%	27%	39%	17%
	Who makes	Family outside household	0%	0%	0%	0%	11%	2%
	decisions on revenue	Outside household female	14%	7%	26%	0%	0%	9%
	use?	Outside household male	39%	10%	20%	18%	11%	20%
		Within the household	46%	83%	54%	82%	79%	69%
		Not effective Fairly	46%	13%	54%	54%	9%	32%
٩	Leadership	Effective	18%	10%	9%	9%	9%	4%
shi	effectiveness	Very effective	36%	77%	37%	37%	82%	64%
der		Yes but with great difficulty	0%	10%	6%	18%	0%	5%
Leadership	Capacity to	Yes but with great difficulty	0%	30%	0%	9%	29%	14%
	influence change	Yes fairly easily	0%	23%	3%	45%	50%	20%
	Capacity to	Yes very easily	100%	37%	91%	27%	21%	61%

# Nexus relationship to land reform

- Conceptual model linking land tenure with agricultural sustainability and productivity
  - Reference: Roth and Haase (1998)

## Lessons learnt

- Important to quantitatively measure empowerment
- Evaluate applying agriculture-specific tool
- Disaggregate data reflecting farmer heterogeneity as per DAFF; Pienaar (2013) typology
- Capture domain specific impact of interventions
- Track and evaluate domain-specific progress over time

# Challenges, solutions and lessons

- Survey too long (respondent fatigue)
- Apply shorter adapted version of WEAI (5DE: 10 indicators to 5DE 6 indicators)
- Cognitive challenges with autonomy module in particular
- Apply cognitive testing of challenging modules to enhance responses and data quality: adapt and contextualise

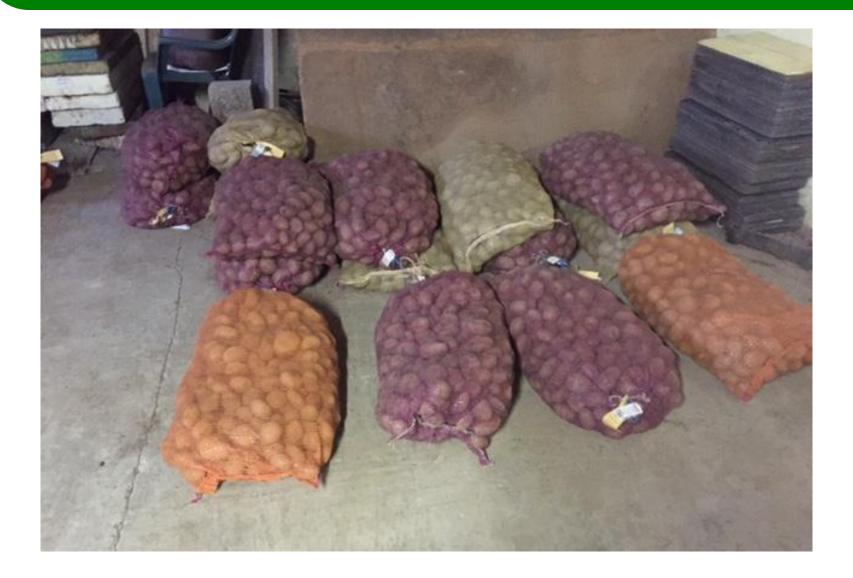
# Lessons (cont.)

- Engage in further quantitative research in empowerment in agriculture
- Enhance validation of farmer empowerment by commodities adding to current industry empowerment measures currently applied
- Add questions on StatsSA household surveys and census' related to farmer empowerment

# Lessons (cont.)

- Farmers were found to be
   heterogeneous
- Are diverse
- Farming systems are dynamic and constantly evolving
- Farming systems are **complex**
- Services need to consider these factors

## **Certified Potato Seed**





#### Baba Khanyile

Maswaimane

# Select challenges experienced



#### Production



Marketing

# Challenges





