

# Community Animal Health Worker And

## Goat Agribusiness Project



## KwaZulu Natal



rural development  
& land reform

Department:  
Rural Development and Land Reform  
REPUBLIC OF SOUTH AFRICA



**MDUKATSHANI**  
RURAL DEVELOPMENT PROJECT



agriculture  
& rural development

Department:  
agriculture  
& rural development  
PROVINCE OF KWAZULU-NATAL

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## **1. Short description of project**

### **The Community Animal Health Worker and Goat Agribusiness Project of KwaZulu-Natal**

The project has seven objectives

- Create small businesses among local youth to support farmers through a Community Animal health Worker (CAHW) program
- Commercialise local goat herds
- Improve production in local homestead herds to support food security and commercialization
- Create and strengthen value chains around goats
- Support and target academic research on issues experienced by farmers
- To expand the CAHW work into chickens and cattle as well as other livestock
- To record and write up these pilot interventions so as to roll these processes out through governmental staff in all rural areas with goat populations

The Goat Agribusiness project is targeted in five District Municipalities- uThukela, Mzinyathi, Uthungulu, Zululand and uMkhanyakude. The project is carried out in partnership between the national Department of Rural Development and Land Reform, Kwazulu-Natal Department of Agriculture and Rural Development, Heifer International South Africa and Mdukatshani Rural Development Project. The project is broader than the partnership outlined above and takes into account subprojects and funders such as the EU.

It is a co funded project with each partner bringing budget into the project.

#### Numbers at a Glance

By the end of the 5 years, there will be a total of 140 dip tanks in this project. Thukela (30) and Mzinyathi (10) Uthungulu (25) Zululand (50) and uMkhanyakude (25).

There will be 7 Livestock Associations involved.

At each dip tank 5 youth jobs will be created for a total of 700 microbusinesses managed by a Community Animal Health Worker (700 CAHWs)

The 700 microbusinesses are comprised of the following

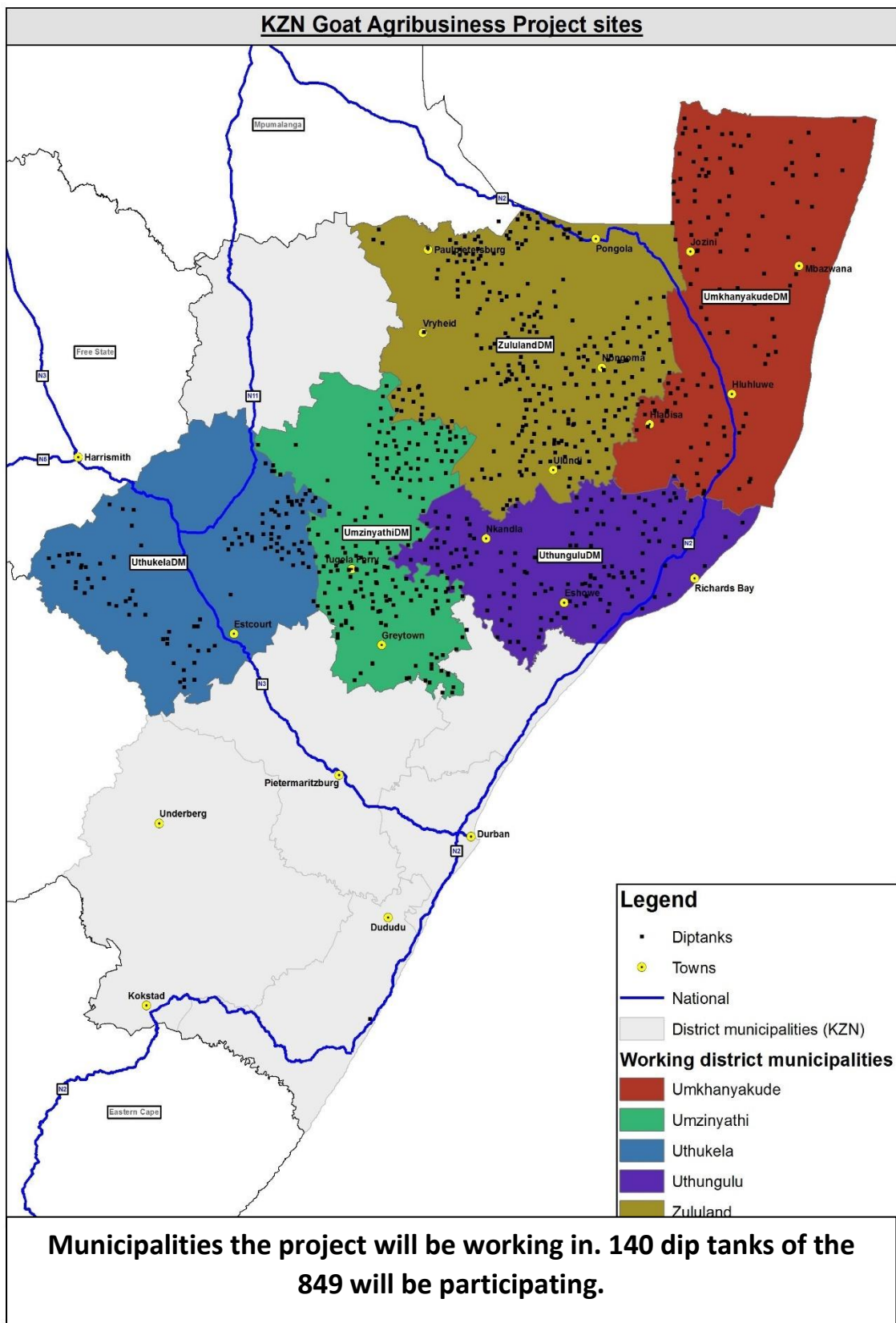
- blockmaking (140),
- skins (140), hay processing (140) and
- animal health support (280)

100 million rand extra value generated in livestock herds in the five local municipalities mentioned (Mzinyathi, Thukela, Uthungulu, Zululand and uMkhanyakude).

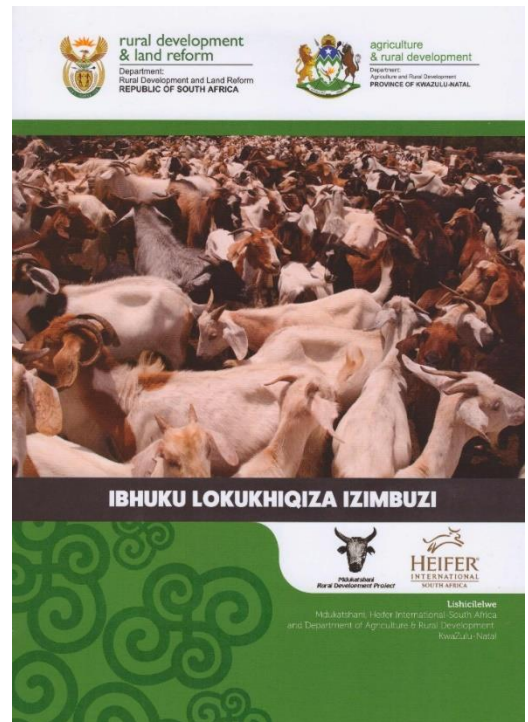
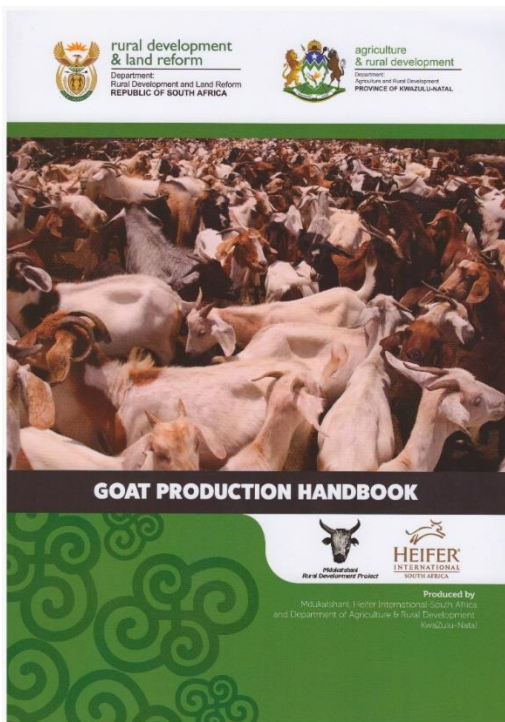
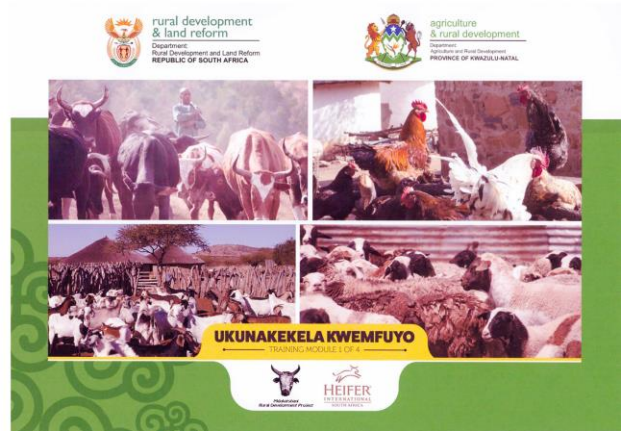
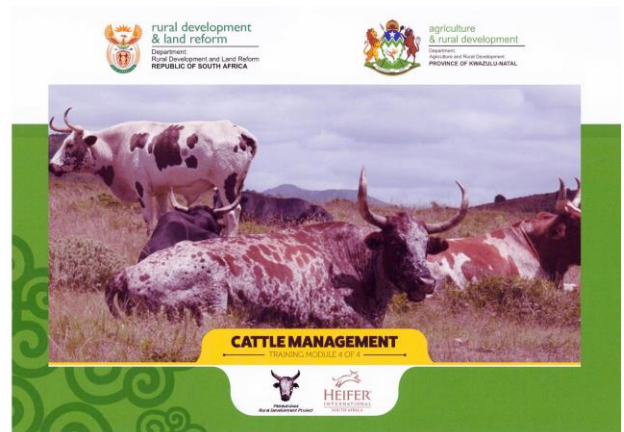
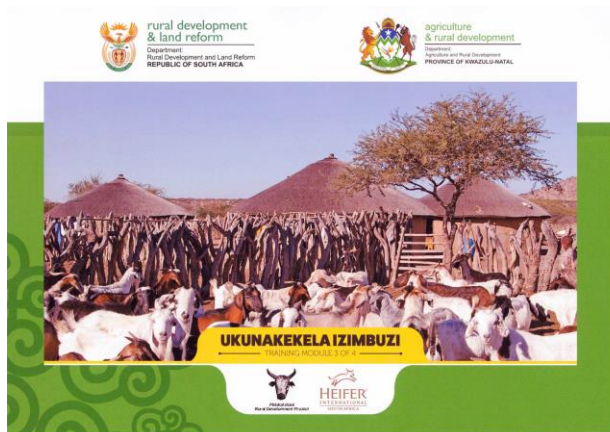
7000 farmers will be actively commercialising their herds with a focus on women farmers

Goat productivity will double in the five areas.

## 2. Map of project areas and dip tanks



### 3. Training materials



These training materials are available for free by contacting MRDP or Heifer or going to the following websites- [www.mdukatshani.com](http://www.mdukatshani.com) or [www.heifer.org.za](http://www.heifer.org.za).

## **4. Role players and contact details**

### **In the KZN Goat Agribusiness Project**

#### **Provincial Members of Project Steering Committee**

1. Mr Mthokozisi Thabete- 033 355 4300 [mthokozi.thabethe@drdlr.gov.za](mailto:mthokozi.thabethe@drdlr.gov.za)
2. Mr Mthobeli Sonjica 033 355 4300 [mthobeli.sonjica@drdlr.gov.za](mailto:mthobeli.sonjica@drdlr.gov.za)
3. Dr Dumsani Mtshali – 033 355 9100 [DRDUMISANI.MTSHALI@kzndard.gov.za](mailto:DRDUMISANI.MTSHALI@kzndard.gov.za)
4. Mr Jerry Mfusi/Mr Theo Van Rooyen- 082 570 1983 [Theo.Vanrooyen@kzndard.gov.za](mailto:Theo.Vanrooyen@kzndard.gov.za)
5. Mr Rauri Alcock – 082 856 9861 [khonya@yebo.co.za](mailto:khonya@yebo.co.za)
6. Ms Marisia Geraci – 079 444 4300 [Marisia.Geraci@heifer.org](mailto:Marisia.Geraci@heifer.org)

#### **Support Staff**

1. Ntobeko Hlatshwayo – 071 607 4672 [ntobeko.hlatshwayo@drdlr.gov.za](mailto:ntobeko.hlatshwayo@drdlr.gov.za)
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6. Sindi Ngubane – 060 792 6027 [masindimbomvu@gmail.com](mailto:masindimbomvu@gmail.com)

#### **Members of the District Technical Committee**

One member each of DRDLR, DARD Production, DARD Vet, Mdukatshani or Heifer as standing members.

An invitation will be extended to Agriculture Development Agency (ADA), Municipal Managers, Chairman of the Local Livestock Associations, Traditional Authorities.

## **5. Vision and Objectives of the KZN Goat Agribusiness Project**

### ***From KZN Department of Agriculture Goat Master Plan***

#### Vision

- Improve productivity of goat herds in KZN
- Improve nutrition of mothers and kids leading to better productivity
- Health interventions in local goat herds through use of trained Community Animal Health Workers (CAHWs)
- Research that feeds into innovation platforms
- Value chains including market linkages –skins, meat and goat exports
- Formalising and growing the marketing of goats
- Youth job creation in creating microbusinesses to provide feed and related productivity improvement measures to farmers

#### Objectives

##### On the community level:

- Livestock productivity amongst the poorest is increased improving food security
- Wealth generation in herds
- Farmers get to sell improved off take
- Youth are given job opportunities and small business opportunities
- Five District Municipalities of the poorest people in KZN are elevated out of poverty

##### Specific goat owners will benefit from the following:

- Improving productivity of their flocks through training and extension support;
- Health interventions towards improving animal productivity and kidding percentages, survival and specifically twinning;
- Generation of income from the increased offspring
- Marketing and value adding facilities.

##### At a departmental level:

- Goat training materials will have been developed and be available for extension staff across the province
- A model to support small farmers in commercialising goat herds will have been developed and documented
- An innovation platform will be meeting regularly and generating ideas for research and experimentation around critical questions in goats
- Veterinary staff to provide a Veterinary Health Calendar / management plan per pilot dip tank.
- Veterinary staff to assist with oversight of CAHW administering vaccination, dips and required veterinary remedies.
- Veterinary staff with CAHW to collate records of diseases and mortalities and provide to Local Project Goat Committee meetings.
- Promote the use of uncontaminated feed and supplements.
- Ensure adequate fresh water available at all times.

## Community Animal Health Workers

- Promote and apply goat identification through tattoos and/or ear tags.
- Record deaths, births and acquisitions of pilot.
- Record sales and exchanges of pilot.
- Promote construction and use of shelters.
- Link local sales to local pension points.
- Promote marketing through existing sale yards.
- CAHWs will conduct Farmer field days/theme days and exchanges and support small groups to be set up so that they can come together and discuss issues. Additionally, the CAHWs will work with 10 farmers (lead or experiment farmers) in each dip area to work with kid feeding (creep feeding and structures) with the goal of farmers expanding this among themselves.

## Improve productivity of flocks to reduce stock mortality

- Treat critical diseases through vaccination and management.
- Control ecto- and endo-parasites.
- Provide advice on managing the grazing lands / range for more and better feed production.
- Promote the production and strategic use of supplementary feeding.
- Record seasonal diets and supplementation.
- Promote goat identification, traceability and record keeping.
- Promote disease surveillance.
- Record births and mortalities.
- Record purchases and sales.
- Ensure that pilot research has impact – scale up technologies.
- Training of goat farmers.
- Promote the availability and use of lick blocks.
- Record the intake of licks of pilot group.
- Promote the availability and use of creep feeding of kids below 2 months.
- Collect and process Stover from the fields for goat feed.



**From MOU with Department of Rural Development and Land Reform**

1. The project will operate in the five District Municipalities of Mzinyathi, Thukela, Uthungulu, Zululand and uMkhanyakude. Each district will be considered a project area (5 projects).
2. By the end of the 5 years, there will be a total of 140 dip tanks in this project. Thukela (30) and Mzinyathi (10) Uthungulu (25) Zululand (50) and uMkhanyakude (25).
  - Year 1- 20 in Thukela and Mzinyathi; 5 in Uthungulu; 10 in uMkhanyakude and 5 in Zululand for a total of 40 dips
  - Year 2- an additional 5 in each local municipality for a total of 65 dips
  - Year 3- an additional 5 in each local municipality for a total of 90 dips
  - Year 4- an additional 5 in each local municipality for a total of 115 dips
  - Year 5- an additional of 5 each local municipality for a total of 140 dips
3. There will be 7 Livestock Associations involved.
4. At each dip tank 5 youth jobs will be created for a total of 700 microbusinesses managed by a Community Animal Health Worker (700 CAHWs)
5. The 700 microbusinesses are comprised of the following
  - blockmaking (140),
  - skins (140), hay processing (140) and
  - animal health support (280)
6. These initial 700 CAHWs will be paid stipends for the first year while they receive training. This is not included in the budgets contained within this agreement. This will be handled separately and directly with the CAHWs. Thereafter, they will receive a startup kit and the subsidy will be discontinued.
7. 100 million rand extra value generated in livestock herds in the five local municipalities mentioned (Mzinyathi, Thukela, Uthungulu, Zululand and uMkhanyakude).
8. 7000 farmers will be actively commercialising their herds with a focus on women farmers
9. Goat productivity will double in the five areas
10. Goat imports will be reduced from other provinces and African countries
11. The projects will aim for fulfilling future export demand of live foot and mouth free goats
12. A center of excellence will be created on goat research for Southern African goat farmers
13. Publications and training curriculum will be developed so as to be able to capture these learnings and be able to share them outside of these pilot areas and outside the province.

## **From Service Level Agreement**

### **Specific Responsibilities**

#### **The Department of Rural Development and Land Reform**

- Sign Contracts first year for the CAHWs
- Facilitate budget to provide vet kits
- Facilitate budget to provide uniforms for CAHWs in year one and three
- Facilitate budget for 2 portable sales yards per livestock association
- Facilitate budget for setting up Agrivet shops
- Facilitate budget for trainings and facilitations, monitoring and evaluation and project administration to the 2 NGOs for 5 years
- Facilitate budget for innovation platforms in conjunction with HEIFER and MDUKATSHANI
- Facilitate budget for the set-up of goat skin value chain businesses
- Facilitate budget supplementary feeding for small businesses and winter feeds
- Facilitate budget for training events farmers' days and cross visits
- Facilitate budget for piloting enclosures for goat kids in farmers' yards

#### **Mdukatshani and Heifer**

- Establish a system of record collection and keeping by CAHW
- Training and mentoring of CAHW
- Collect manage collate and share the baseline livestock data
- Train and support livestock associations in management and good governance
- Co-ordinate and promote relevant research to support farmers in the field
- Provide training support to workshops arranged by the Departments
- Provide training and mentoring of CAHWs in the project area
- Establish train mentor and support agrihubs with - appropriate medicine sales and cold chains in local towns
- Provision of matching funds for Msinga
- Coordinate and facilitate Innovation platforms and research and exchange visits
- Co-ordinate implementation of inputs, projects and pilots and purchase and use of the materials provided
- Monitoring of implementation for quality control
- Mentor woman goat farmers to improve home goat productivity and sales
- Initiate and co-ordinate and promote auctions in the 5 districts
- Train CAHW in small business development and provide them with starter kits and mentor them with skills to initiate and continue these businesses

## **6. Implementation Plan**

### **6.1 Program implementation plan year one**

**1 March 2016- 28 February 2017**

<b>Activity</b>	<b>By whom</b>	<b>By when</b>	<b>Detail</b>	<b>Milestone</b>
<b>CAHWs</b>				
Meet Dip tanks Livestock associations Traditional authorities and the district municipality	Mdukatshani & Heifer	May 2016	Year 1- 20 in Thukela and Mzinyathi; 5 in Uthungulu; 10 in uMkhanyakude and 5 in Zululand for a total of 40 dips	The local leadership are on board and send representatives district meetings
2 CAHWs identified per dip tank and start census	Mdukatshani & Heifer	May 2016	Year 1- 20 in Thukela and Mzinyathi; 5 in Uthungulu; 10 in uMkhanyakude and 5 in Zululand for a total of 40 dips  Total of 80 CAHWs. Trained and census carried out.	A census per dip is finalised and available for 40 dips
Training of CAHWs in basic animal health	Mdukatshani & Heifer	May 2016	80 CAHWs are trained in 2 modules and mentored in the field	Preliminary Training of 80 CAHWs is completed and the CAHWs pass practical test
Recruit further CAHWs for feed/blocks and skins processing	Mdukatshani & Heifer	May 2016	120 CAHWs recruited to start other micro businesses (40, one per dip, for each type of microbusiness)	120 CAHWs are recruited in a fair open transparent manner and are brought on board the CAHW program
Training of 120 CAHWs for feed, blocks and skins	Mdukatshani & Heifer	December 2016	120 CAHWs are trained in their specialty of blocks, feed or skins	Preliminary Training of 120 CAHWs is completed and the CAHWs pass practical test
Procure vet kits and uniforms	Mdukatshani & Heifer	May 2016	80 vet kits and 700 uniforms for all of the CAHW positions for the project	The existing trained animal health CAHWs have received vet kits and

				uniforms. The 120 other microbusiness CAHWs have received uniforms.
Procure microbusiness equipment and supplies	Mdukatshani & Heifer	December 2016	Buy hammermills, blockmakers, mix and skin equipment for 12 groups (120 CAHWs in 10 per group)	12 Microbusiness groups have are equipped to start producing blocks, winter feeds and goat skins.
<b>Livestock Associations (LAs) &amp; Dip tanks</b>				
Training LAs	Mdukatshani & Heifer	May 2016 & December 2016	4 trainings- one per quarter have taken place in management and good governance and two other topics of their choosing	7 Livestock Associations have been trained in management and good governance and two other topics of their chosing
Training dip tanks & farmers	Mdukatshani & Heifer	May 2016 & December 2016	2 trainings in Animal Health in the 40 dip tanks (80 trainings total 1 <sup>st</sup> year)	40 dip tanks have received 2 trainings in animal health.
<b>Sales Yards</b>				
Negotiate sales yard location with livestock association	Mdukatshani & Heifer	May 2016	14 possible sites (2 per livestock association). Equipment will be portable. These are not permanent sites.	14 sites have been agreed upon with the 7 livestock associations.
Auctions in each livestock association	Mdukatshani & Heifer & DRDLR	December 2016	Led by DARD Rural Dev division	At least 7 auctions, one per livestock association area, have been held
<b>Women farmers</b>				
Recruit women farmers in each district	Mdukatshani & Heifer	May 2016	20 per dip, 40 dips	800 women have been identified and are willing to take part in experimentation groups around goat nutrition and productivity
Build pilot and experimental goat enclosures for kid feeding	Mdukatshani & Heifer	December 2016	400 (10 per dip tank)	400 goat enclosures for kid feeding are being used.
<b>Innovation platforms</b>				
Set up initial innovation platform meeting	Mdukatshani & Heifer	May 2016	Starting with existing goat interest group	Initial stakeholder workshop held with further stakeholders identified

Recruit additional members/stakeholders to cover all areas of VC	Mdukatshani & Heifer	May 2016	Farmers, livestock associations, dip tanks, research, government, NGOs, sellers, animal health suppliers, auctioneers	Additional members for innovation platform identified
Hold 4 innovation platforms	Mdukatshani & Heifer	May 2016 & December 2016	Agree on research agenda to start funding/bursaries; also identify places to do exchange visits	Four innovation platforms have been successfully held
Exchange visits	Mdukatshani & Heifer	May 2016 & December 2016	Exchange visits- project to project and visit to Namibia, Kenya or other countries where goat markets are formalized (yearly).	At least one exchange visit per project (5 total) has happened with lessons learned documented. At least one visit to another country has taken place where goat markets are formalised.

## **6.2 Implementation plan Year 2 to 5**

Milestone	Year 2	Year 3	Year 4	Year 5
Animal Health CAHWs identified and trained	There are a total of 130 trained animal health CAHWs with vet kits and uniforms	There are a total of 180 trained animal health CAHWs with vet kits and uniforms	There are a total of 230 trained animal health CAHWs with vet kits and uniforms	There are a total of 280 trained animal health CAHWs with vet kits and uniforms
Censuses/diptanks	25 additional diptanks have had a census with relevant agreements in place with diptanks, LAs, tribal authorities and municipality for a total of 65 diptanks	25 additional diptanks have had a census with relevant agreements in place with diptanks, LAs, tribal authorities and municipality for a total of 90 diptanks	25 additional diptanks have had a census with relevant agreements in place with diptanks, LAs, tribal authorities and municipality for a total of 115 diptanks	25 additional diptanks have had a census with relevant agreements in place with diptanks, LAs, tribal authorities and municipality for a total of 140 diptanks
CAHWs for feed, blocks and skins	There are a total of 195 CAHWs trained for blocks, feed and skins. They have equipment and uniforms. (3 for each of the 65 diptanks)	There are a total of 270 CAHWs trained for blocks, feed and skins. They have equipment and uniforms.(3 for each of the 90 diptanks)	There are a total of 345 CAHWs trained for blocks, feed and skins. They have equipment and uniforms.(3 for each of the 115 diptanks)	There are a total of 420 CAHWs trained for blocks, feed and skins. They have equipment and uniforms.(3 for each of the 140 diptanks)
Auctions	14 sales yards (non permanent sites) are having regular auctions (2 per livestock association)	14 sales yards (non permanent sites) are having regular auctions (2 per livestock association)	14 sales yards (non permanent sites) are having regular auctions (2 per livestock association)	14 sales yards (non permanent sites) are having regular auctions (2 per livestock association)
Agri vet shops	12 agri vet shops are equipped and selling in Keithsdrift, Pomeroy, Weenen, Tugela Ferry, Nkandla top, Nkandla bottom, Nongoma, Jozini, Mkuze, Hluhlewe, Hlabisa, Manguze	12 agri vet shops are equipped and selling in Keithsdrift, Pomeroy, Weenen, Tugela Ferry, Nkandla top, Nkandla bottom,	12 agri vet shops are equipped and selling in Keithsdrift, Pomeroy, Weenen, Tugela Ferry, Nkandla top, Nkandla	12 agri vet shops are equipped and selling in Keithsdrift, Pomeroy, Weenen, Tugela Ferry,

		Nongoma, Jozini, Mkuze, Hluhlewe, Hlabisa, Manguze	bottom, Nongoma, Jozini, Mkuze, Hluhlewe, Hlabisa, Manguze	Nkandla top, Nkandla bottom, Nongoma, Jozini, Mkuze, Hluhlewe, Hlabisa, Manguze
Experiments	1300 women are taking part in experimentation groups around goat nutrition and productivity (20 per 65 dip tanks)	1800 women are taking part in experimentation groups around goat nutrition and productivity (20 per 90 dip tanks)	2300 women are taking part in experimentation groups around goat nutrition and productivity (20 per 115 dip tanks)	2800 women are taking part in experimentation groups around goat nutrition and productivity (20 per 140 dip tanks)
Goat enclosures- kid feeding	650 goat enclosures for kid feeding are being used (10 per 65 dip tanks)	900 goat enclosures for kid feeding are being used (10 per 90 dip tanks)	1150 goat enclosures for kid feeding are being used (10 per 115 dip tanks)	140 goat enclosures for kid feeding are being used (10 per 140 dip tanks)
Innovation platforms and research	Quarterly innovation platforms are taking place with proposed research topics emerging and lessons learned being documented and disseminated	Quarterly innovation platforms are taking place with proposed research topics emerging and lessons learned being documented and disseminated	Quarterly innovation platforms are taking place with proposed research topics emerging and lessons learned being documented and disseminated	Quarterly innovation platforms are taking place with proposed research topics emerging and lessons learned being documented and disseminated
Increased productivity	Goat productivity has increased by 25%	Goat productivity has increased by 50%	Goat productivity has increased by 75%	Goat productivity has doubled
Livestock Association training	7 livestock associations have received quarterly trainings in agreed upon topics	7 livestock associations have received quarterly trainings in agreed upon topics	7 livestock associations have received quarterly trainings in agreed upon topics	7 livestock associations have received quarterly trainings in agreed upon topics
Dip tank trainings	60 dip tanks have received bi annual trainings	90 dip tanks have received bi annual trainings	115 dip tanks have received by annual trainings	140 dip tanks have received bi annual trainings

Herd commercialisation	1750 farmers have commercialised their herds (250 farmers per livestock association)	3500 farmers have commercialised their herds (500 per LA)	5250 farmers have commercialised their herds (750 per LA)	7000 farmers have commercialised their herds (1000 per LA)
Exchange visits	At least one exchange visit per project (5 total) has happened with lessons learned documented. At least one visit to another country has taken place where goat markets are formalised.	At least one exchange visit per project (5 total) has happened with lessons learned documented. At least one visit to another country has taken place where goat markets are formalised.	At least one exchange visit per project (5 total) has happened with lessons learned documented. At least one visit to another country has taken place where goat markets are formalised.	At least one exchange visit per project (5 total) has happened with lessons learned documented. At least one visit to another country has taken place where goat markets are formalised.
Ongoing monitoring and evaluation	Ongoing collection, compilation and analysis of data. Lessons learned collected and shared. Annual surveys. Ongoing reporting to relevant stakeholders.	Ongoing collection, compilation and analysis of data. Lessons learned collected and shared. Annual surveys. Ongoing reporting to relevant stakeholders.	Ongoing collection, compilation and analysis of data. Lessons learned collected and shared. Annual surveys. Ongoing reporting to relevant stakeholders.	Ongoing collection, compilation and analysis of data. Lessons learned collected and shared. Annual surveys. Ongoing reporting to relevant stakeholders.