

Food (animal protein)

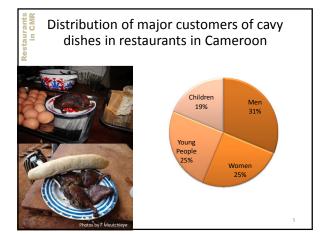
Eastern DRC

Alternative meat source

Cameroon

Basic for nutrition security





Economic empowerment of women and youth

Cameroon

- Large scale production by female farmers
- Sizeable business around cavy production, trade and restaurants



Eastern DRC

- Subsistence production and small scale trade
- Convertible rapidly "petty cash" or a "currency" for paying teachers' salaries or for barter trade

Cavy sales at Mugogo market

Cavy trade and export

- Losing his job triggered the start with cavy culture 'for survival'
- He has been a cavy salesman for the last 23 years
- He sells more than 300 animals/week
- Mostly in Yaoundé
- Currently exports to Gabon and Equatorial Guinea

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Cavies and natural resource management

Cameroon & eastern DRC

- Soil fertility management
- Manure
- Vegetables/Arrow root
- Alternatives to poaching (bushmeat) – preserving natural ecosystems and their biodiversity



Cultural aspects of cavies

Cameroon

- Tradition, ceremonial and ritual in the rural area of the Forest Zone
- New delicacy in towns
- Specialized cavy restaurants for the rich and the famous
- Generally no cultural inhibitions

Eastern DRC

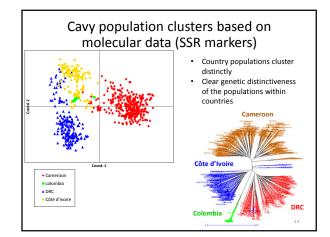
- Part of the gifts in marriage negotiations in Nord-Kivu
- Consumed like a snack with beer in the bars
 - Generally no cultural inhibitions

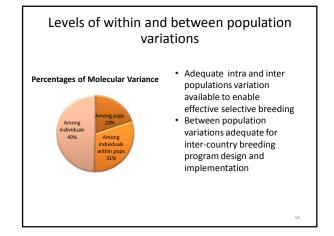
Science from the lab – genetics



CURRENT ACHIEVEMENTS

- Science from the lab genetics
- Science from the field feeds & feeding
- Socio-economic aspects
- Capacity building
- Communication and profile lifting





	Challenges identified and ranked by farmers in eastern DRC						
Problems	Muhon- goza ranking	Cirunga ranking	Tubimbi ranking	Kaman- yola ranking	Overall frequency (no.)	Mean overall ranking	
Little knowledge on husbandry techniques	2	1	2	1	4	1.5	
Animal health and veterinary services	4	4	3	5	4	4.0	
Lack of good quality forage throughout the year	5		5	4	3	4.7	
No access to market	1			2	2	1.5	
Lack of money/poverty		2	1		2	1.5	
No access to credit	3			3	2	3.0	
Insecurity		5	4		2	4.5	
Lack of improved breeds		3			1	3.0 15	

Breeding feedback from field observations • Improved breeds were Inference

- requested by participants in IP meetings
- No empirical data yet to inform breeding
- Farmers use social networks to source breeding stock
- Genetic potential and breeding related constraints identified in all the countries and sites - Traits of importance
 - Growth • Adaptability (survival)

 - Fecundity
- Planned breeding program needed

Conclusions from the genetic study

- The populations in the different countries are significantly separated
- Substantial within-country population differences
- Levels of inbreeding are relatively high, but can be easily addressed
- > The potential for improvement is huge, but health and nutrition have to improve to fully harness this

Science from the field – feeds & feeding

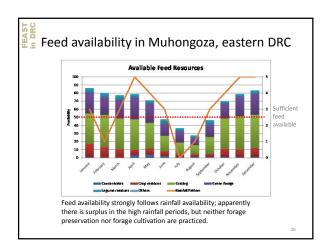
Cameroon

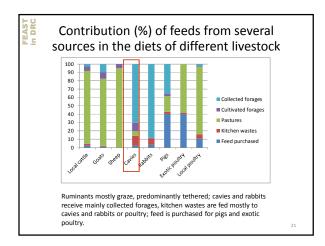
- Feed inventory
- Draft manual on forages
- Feeding trials to optimize the use of locally available feed resources and mineral supplementation/vitamins
- Feed assessment training using the FEAST tool

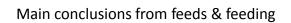
Eastern DRC

- Feed inventory
 - Feed assessment using the FEAST tool
- Forage demonstration plots in 4 sites
- Forage planting materials distributed to 34 farmers in 4 sites for participatory assessment









Cameroon

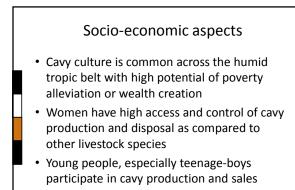
- Feed is not a primary constraint
 However, cavy keepers have limited knowledge about feed requirements and potential feed stuffs
- There is a need for formulating optimal ratios

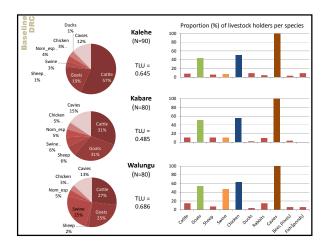


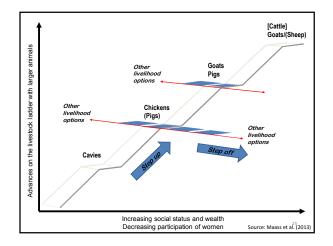
Eastern Congo

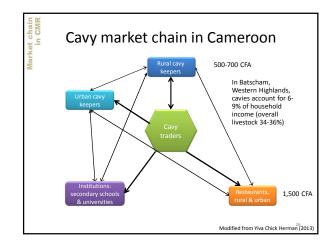
- Feed is not perceived as a primary constraint due to very low overall livestock holdings

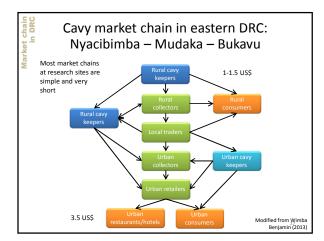
 However, underfeeding could show its effects in disease susceptibility and high mortality rates
- To move from mere livestock 'keeping' to livestock production, improved and differential feeding according to physiological state, age and sex is crucial

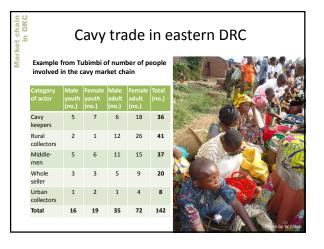




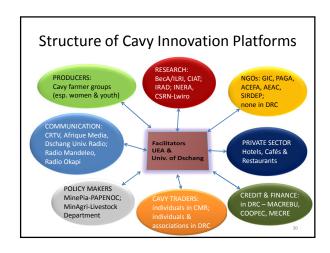


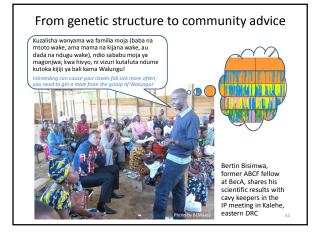


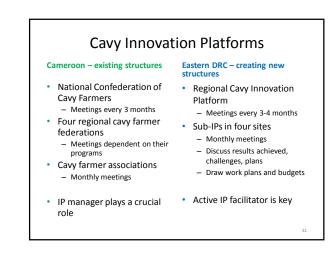






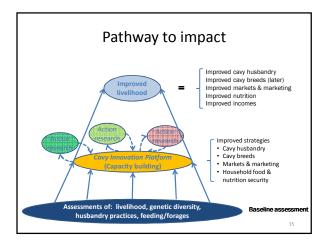


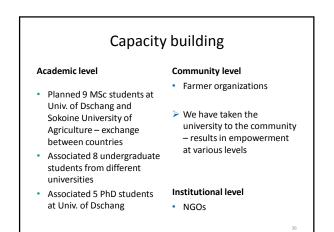




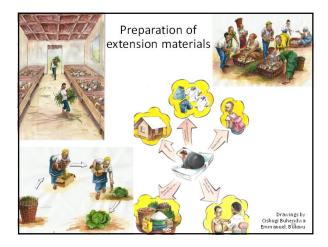


								DRC
S-IP & Traders Associations	Monthly meeting day	Members (no.)			Account no.	Banking institution		Action site
		Female	Male	Total				
Kalehe	Last Wednesday/ month	73	33	106		COOPEC Ihusi- Kalehe	BULONZA*- Muhongoza	
Kabare	2nd Sunday/ month	44	11	55		MECRE- Bagira	AECO*- Nyacibimba	Cirunga- Nyacibimba
Kamanyola	Last Sunday/ month	35	27	62		COOPEC Kawa	UECO*- Kanyola	Kamanyola Walungu
Tubimbi	Last Friday/ month	37	17	54	-	-	S-PF* Umoja	Tubimbi- Walungu
	Total keepers	189	88	277				
Mudaka T-A	1st Thursday/ month	2	4	6	-	-	UCCM*- Mudaka	Mudaka- Kabare
Mugogo T-A	Last Saturday/ month	15	13	28	-	-	UCCM*- Walungu	Mugogo- Walungu
	Total traders	17	17	34			0.	0.



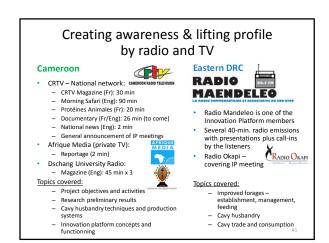




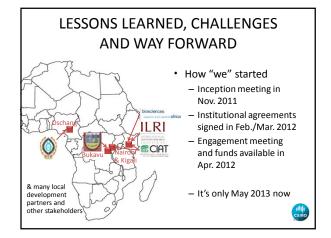














Lessons learnt

- Improved cavy production and marketing can contribute to poverty alleviation in resourcepoor communities
- Government support is important, but it must be backed up by political will (effective strategies and budgets)
- · Effective leadership is important at all levels
- Capacity building is necessary especially at the initial stages

Challenges

- Cavies are not in the mainstream livestock agenda
- Cavy production and marketing is mainly considered as part time business by smallholder farmers
- Slow attitude/behaviour change among stakeholders, especially NGOs
- Perpetuated dependency syndrome in post-conflict areas
- Shortage of forage seeds & propagation materials
 - Occurrence of animal health challenges not understood
- Several internal leadership changes
- Weak administrative system(s) – also need for institutional capacity building, e.g., in DRC
- Communication among the team, incl. students

SILENCE IS NOT AN OPTION!

Gaps

- Knowledge gaps for research
 Good estimate of cavy populations and keepers per
 - populations and keepers per country – Comprehensive economic data of
- Comprehensive economic data of cavy impact at HH level
 Effect of cavies for human
- nutrition, especially for poor children under five
- Socio-cultural and anthropological aspects
- Misconceptions (e.g. feeding with the right feed stuffs)
- Comprehensive phenotype information
- Genetic diversity only incipiently known from Sud-Kivu

Institutional/policy gaps – Breeding strategy/

45

- Breeding strategy/ programs
 Lack of policies/curricula
- that include cavies as livestock at different levels – Inter-institutional
- Inter-institutional cooperation at national level in Africa needs to be established (incipient between Cameroon and DRC)

The way forward

- Address gaps and challenges identified
- Broaden the knowledge on cavy genetics within sub-Saharan Africa through ABCF and other opportunities
- Engage the scientific capacity built by the project
- Network for outreach identify potential future projects
 Expansion to Tanzania, e.g., application by a Tanzanian to the Australian PhD scholarship
 - Potential collaboration with VSF, FAO, IFAD, and others
 - Expansion of cavy support as an alternative to poaching
- Selective breeding
 - Dispersed nucleus breeding (both station and community based)
 Smart/graduated germplasm exchange between countries would benefits farmers
 - Streamline markets Support IPs to maturity

