



24-25 Oct 2013: KAS – NWU
Conference
Risks posed to protecting the right to food and food security

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Scoping Sustainable Diets in Rural South Africa

Linking nutrition, food systems and environment at local level

World Food Day Theme



ON HEALTHY FOOD SYSTEMS

Sustainable Food Systems for Food Security and Nutrition World Food Day • 16 October 2013





Jungle of terms



Food Security

(1974/1996)

→ Access, availability and adequacy of food



Nutrition Security

(1995/1999)

→ Nutritional wellbeing, social and non-food components



Right to food

(1948, UDHR)

→ Availability, accessibility and adequacy of food



Food Sovereignty

(1996)

→ Right of people to define their own food systems



Sustainable Diets

(2012)







Jungle of terms

Sustainable Diets are:

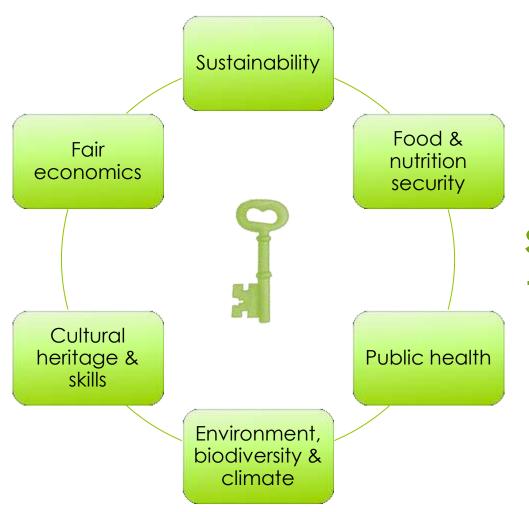
"diets with low environmental impact which contribute to food and nutrition security and to healthy life for present and future generations. Sustainable diets are protective and respectful of biodiversity and ecosystem, culturally acceptable, accessible, economically fair and affordable, nutritionally adequate, safe and healthy; while optimizing natural and rural resources"

(FAO/Bioversity International, 2012:2)





Jungle of terms



Sustainable diets

- key components

(adopted from Lairon, 2012)





Motivation



Imbalances of the global food system:

- Increasing concentration of global corporations in agriinput and agro-food industries → Large-scale industrialised corporate farming
- Ongoing disposession of the world's small-scale farmers
- GMO's + specialised monocultures → biodiversity loss
- ◆ Agro-fuel production → competing with grain supplies for human consumption
- Rising levels of toxic chemicals in 'industrially' grown and processed foods → health consequences
- Nutrition transition 'Junk food culture' → rising rates of overweight and obesity and related non-communicable diseases
- Large greenhouse gas emissions, deforestation, soil erosion, chemical contamination and water shortage
 nvironmental impact





Motivation



Consequence:

842 million people suffer from hunger and over **1.4** billion people are overweight and obese (FAO 2013, WHO 2008)



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Motivation



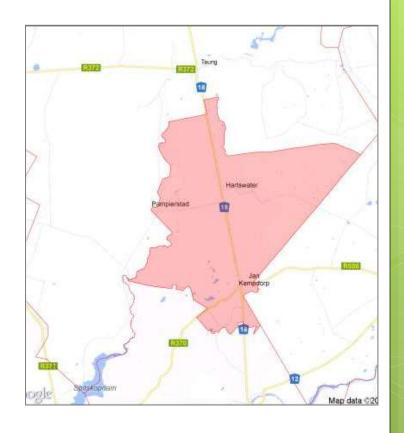
South Africa:

- Mainly large scale commercial farmers produce 95
 % of market outputs → national food security
- 26% of the population experienced hunger, 29% are living at risk of being hungry
- Increased obesity levels (39% and 11% among female and male population) and increased prevalence of nutrition related diseases
- High percentage of people living in poverty, esp. in rural areas
- ? What are the challenges and opportunities for sustainable diets in rural resource-poor communities ?



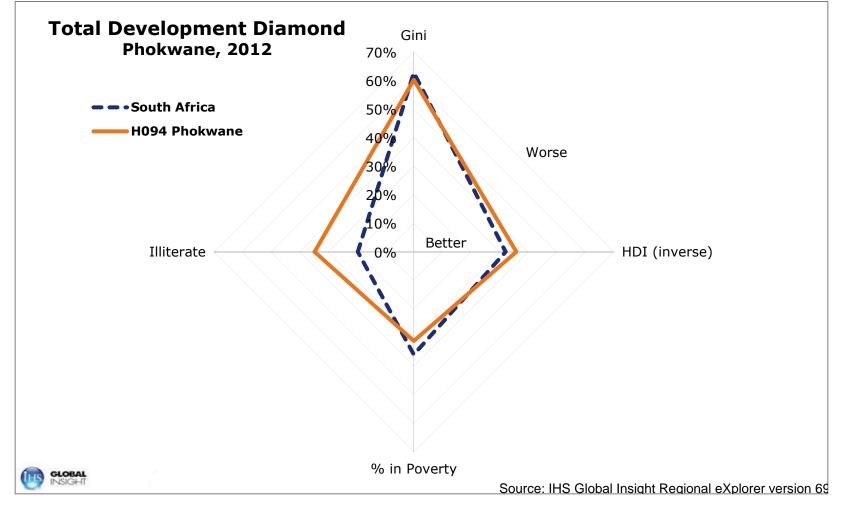


- Vaalharts Irrigation Scheme is the largest in the South Africa covering 32,000ha
- Focus area: Phokwane municipality (Jan Kempdorp, Hartswater, Pampierstad): 60 505 people (2012) → 5 percent of NC population
- + broader area around (Taung, Christiana, Barkly West)



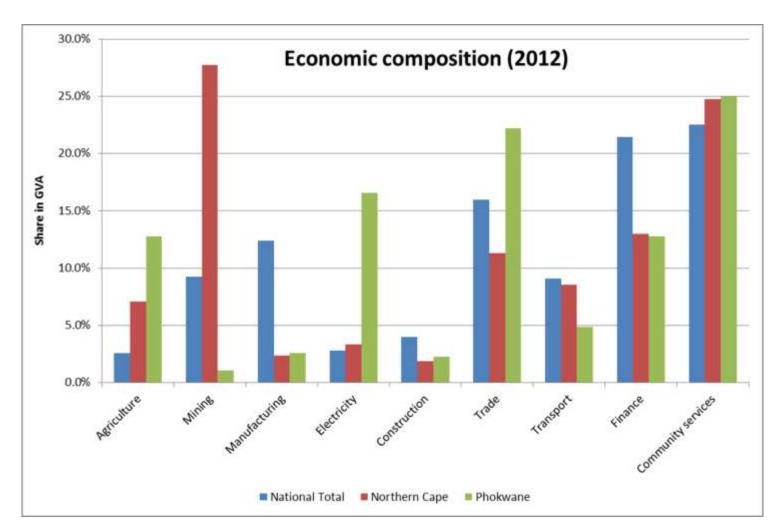
















Main agricultural production:

- Grains and nuts
- Oranges, grapes, watermelons
- Potatoes
- Vegetables
- Cattle & chicken







Needs assessment (2011):

- access to basic government services (i.e. to register births, apply for an identification document/passport);
- basic municipal services (i.e. electricity, water);
- education or training-related services (i.e. tertiary education scholarships, school supplies, early childhood and elderly stimulation);
- employment (i.e. job opportunities, career guidance);
- agriculture (knowledge, seeds, irrigation systems);
- infrastructure/additional facilities (i.e. housing, roads, sports grounds, recreational/youth centres);
- health/welfare (shelters, coping skills, medicine, food);
- safety and security;
- emergency services;
- awareness campaigns.



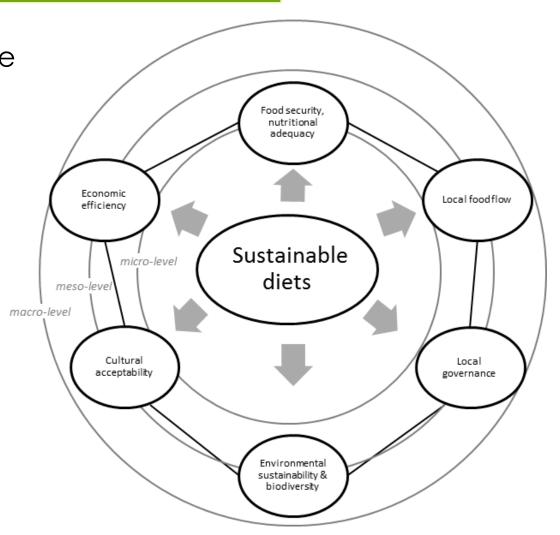






Research framework

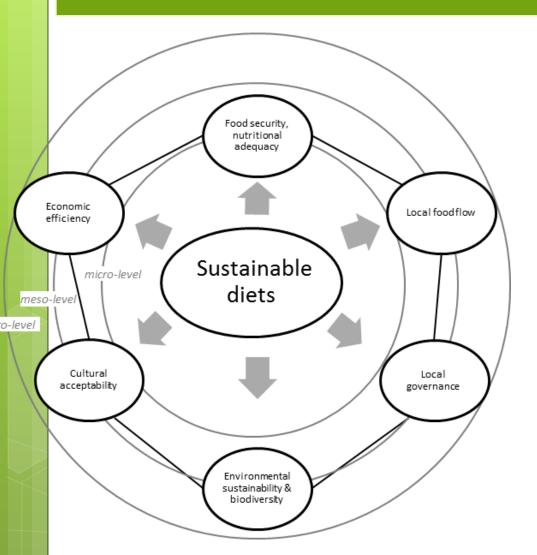
The study explores the food security and nutrition situation of rural households and in which ways it is framed by the local food system, considering the biodiversity, environmental sustainability, economic efficiency as well as sociocultural perceptions.







Research framework



Multi-disciplinary team

Nutrition



Dr Nicole Claasen (AUTHeR)

Dr Namukolo Covic (CEN)

Agricultural economics

Ernst Idsardi

Dr Flippie Cloete

 Environmental Science and Management

Prof Francois Retief

Botany

Prof Sarel Cilliers

Department Gender and Nutrition

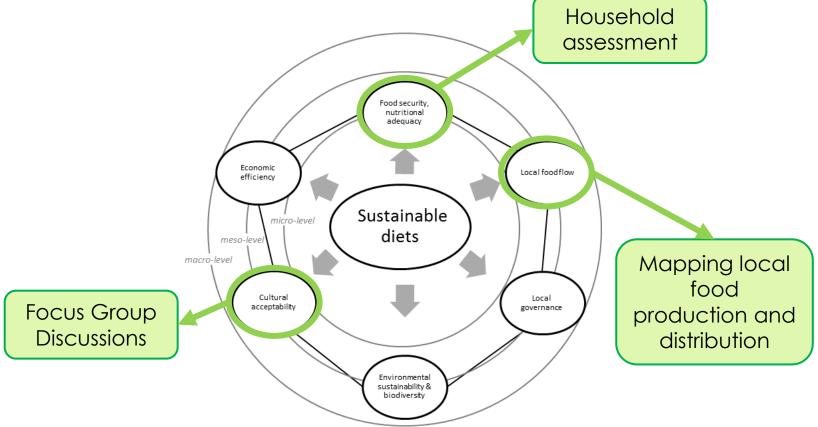
Dr Stefanie Lemke







Field phase 1 (Sept – Dec 2013)







Household food securtiy and nutrition assessment







Focus group discussions with community members





Tell us about the foods you use in your household and where do you get them from?

- Knowledge of local food production
- Perceptions on locally produced foods (quality, taste, health, price, access, seasonal availability)
- Perceived benefits of local food production
- Support needed for better access to food





Mapping local food production and distribution

- Key-informant interviews with different stakeholders in the food supply chain (small & large scale farmers, shop owners, supermarket managers, local bakeries, schools, hawkers, etc.)
- Mapping of food flows for commonly consumed food items











Outlook

Field phase 2 (April – July 2014)

- Environmental impact assessment of agricultural production and household food consumption
- Local governance and other regulatory institutions
- Economic efficiency of local food systems for producers and consumers

Connected project proposal: "Innovating sustainable diets – Transdisciplinary networks linking nutrition, agriculture and environment"

 to innovate, integrate and promote Sustainable Diets in existing agro-food systems in the global North and South through the establishment of transdisciplinary knowledge exchange networks. (South Africa, Kenya, Egypt, Portugal, Austria and Germany)





Conclusions

- Food security is a complex concept and cannot stand alone any more
- Food security cannot only be defined by the number of hungry people, neglecting the rising rates of obesity and related diseases
- Interlinked dimension defined in sustainable diets: nutrition, public health, environment, social & cultural acceptability, economical fairness and sustainability
- Food systems are crucial in addressing food security and sustainable diets
- More research needed on underlying social and structural issues concerning the link between food systems, food security and sustainable diets





Conclusion



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Thank you!



