

Innovations for a future-oriented consumption and animal production NOVAnimal

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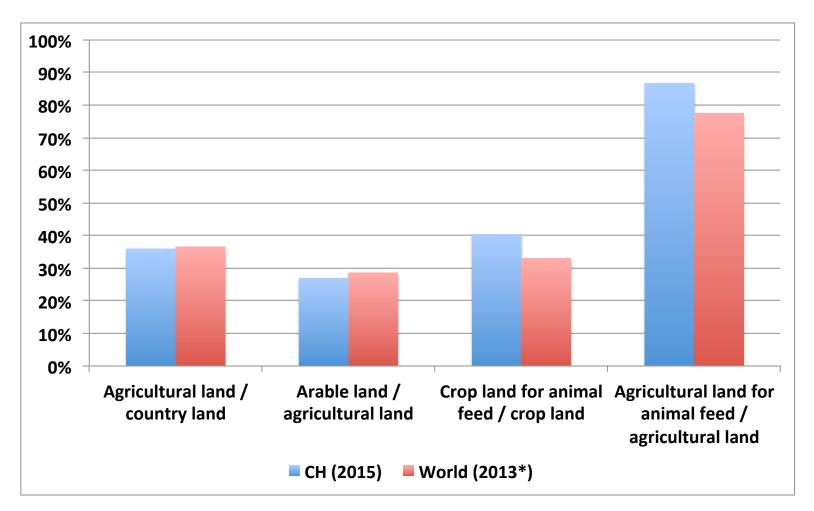


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1. Global context and national challenges

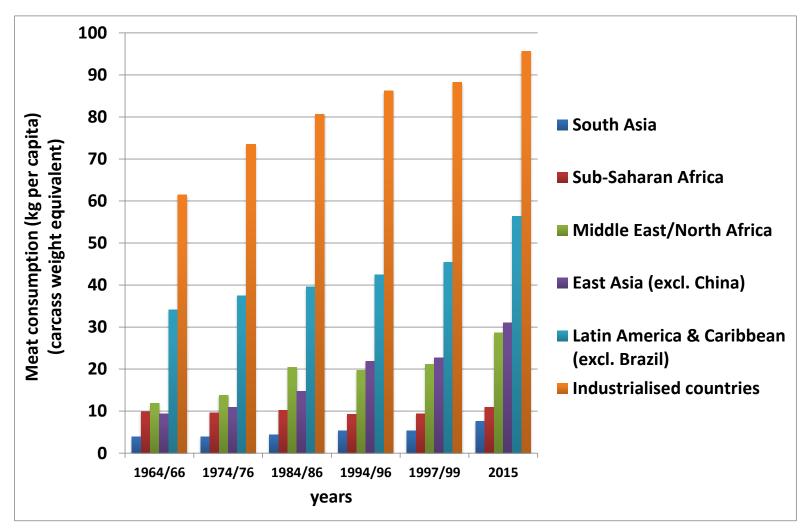
Nutrition and natural resource use: e.g. land use for animal feed



Sources: CH 2015: Swiss Federal Statistical Office.

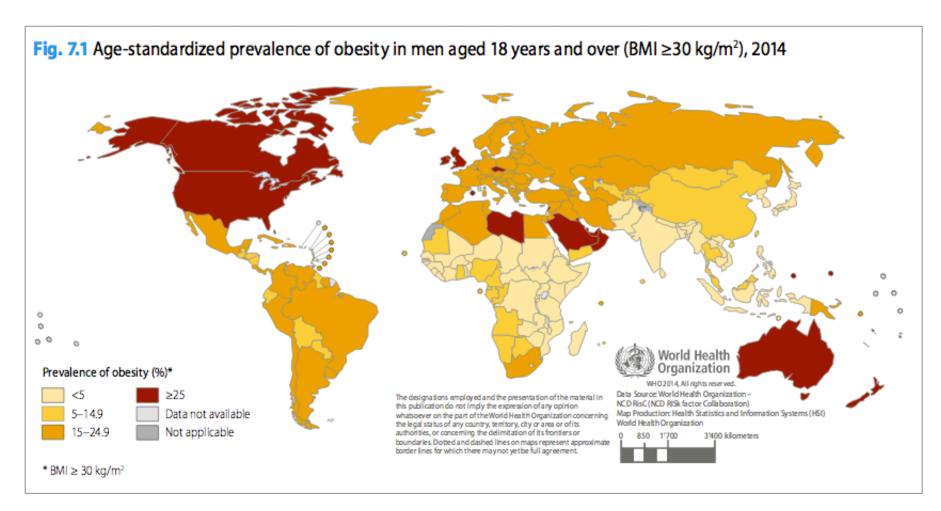
World 2013*: FAOSTAT (2013); crop land for animal feed (FAO 2012).

Per capita consumption of meat: continuous rise with regional differences



Source: http://www.fao.org

Nutrition and public health: e.g. regional differences of obesity in men



Source: WHO. 2014. Global Status Report on noncommunicable diseases.

Swiss food culture centres around dairy and meat



Source: Priska Baur (idea), Daniel Burkhard (realisation) (2015)

2. Research questions and objectives

Research questions

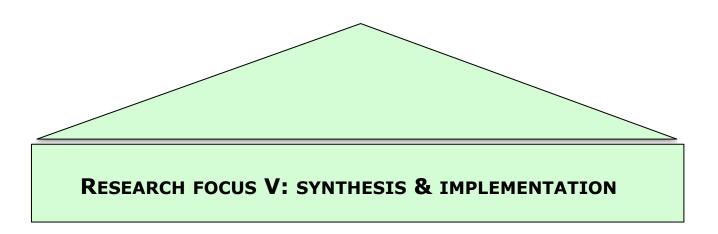
Which **innovations** along the **animal product** value chains contribute to decreasing the detrimental impacts on the environment and on public health, and how can their implementation be fostered?

Objectives

- -Reduce the **per capita** natural resource use of nutrition
- -Reduce negative impacts of nutrition on **public** health

3. Project organisation

Five research foci



RESEARCH FOCUS II: PRODUCTION & PROCESSING

RESEARCH FOCUS III:
DEMAND & CONSUMPTION

RESEARCH FOCUS IV:
POLICY & PUBLIC HEALTH

RESEARCH FOCUS RF I: INNOVATIONS & SCENARIOS

Thirteen work packages (WP)

RF V: SYNTHESIS & IMPLEMENTATION

WP V.1: Strategies & recommendations

WP V.2: Communication & dissemination activities

RF II: PRODUCTION & PROCESSING

-WP II.1: LCAs

-WP II.2: Cost analysis

-WP III.3: Menus & costs

RF III: DEMAND & CONSUMPTION

-WP III.1: Menu choice

-WP III.2: Menu offer

-WP III.3: Vocat. education

RF IV: POLICY & PUBLIC HEALTH

-WP IV.1: Policy analysis

-WP IV.2: Public health

-WP IV.3: Policy making

RESEARCH FOCUS RF I: INNOVATIONS & SCENARIOS

-WP I.1: Determining innovations & building scenarios for animal product chains

-WP I.2: Simulation model & scenario analysis

Seven research institutions

Zürcher Hochschule für Angewandte Wissenschaften





University of Applied Sciences and Arts Northwestern Switzerland School of Life Sciences



Epidemiology, Biostatistics and Prevention Institute





Bern University of Applied Sciences



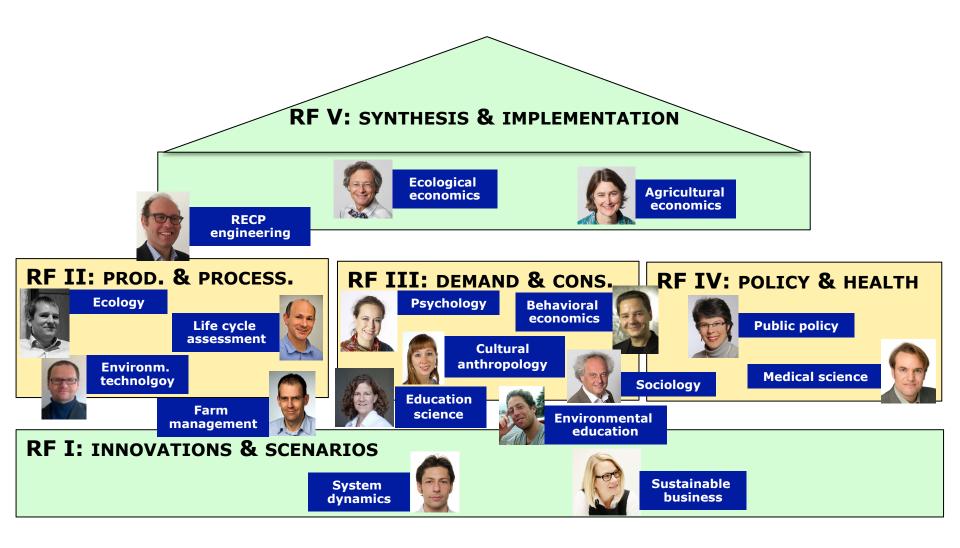
Agroscope



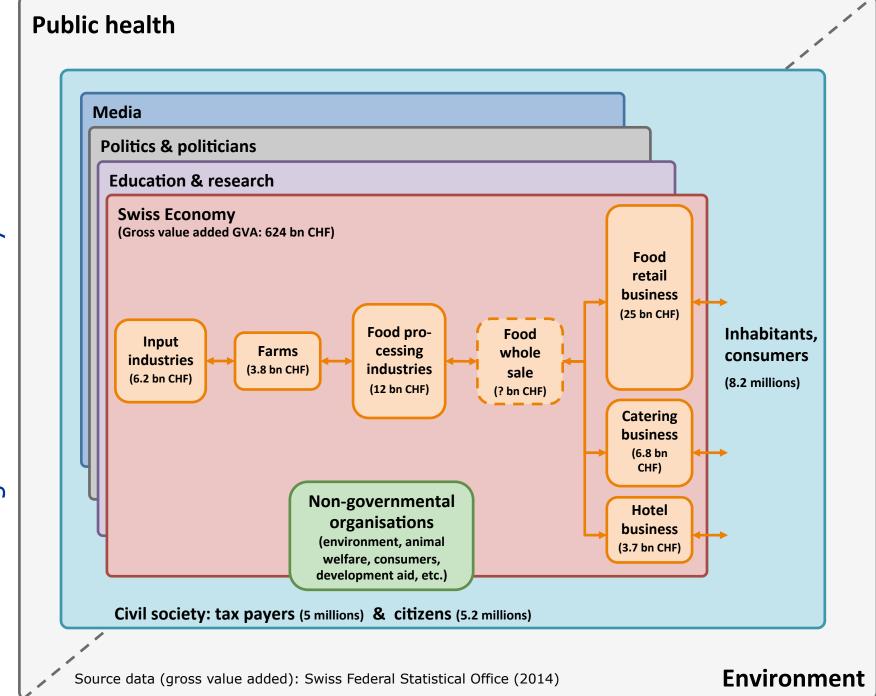
Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra

4. People and skills

Multidisciplinary team



5. Conceptualisation of innovations and scenarios



Technology – behaviour scenario matrix

16 technology – behaviour scenarios associated with different per capita resource use (p.c.RU)

Resource use per kg animal pro- duct (tech- nology)	p.c. animal products consumption (behaviour)			
	71	→	\(\)	77
71	Scenario 1.1:	Scenario 1.2:	Scenario 1.3:	Scenario 1.4:
	p.c.RU 77	p.c.RU 7	p.c.RU →?	p.c.RU 1.7?
→	Scenario 2.1:	Scenario 2.2:	Scenario 2.3:	Scenario 2.4:
	p.c.RU: 7	p.c.RU →	p.c.RU 🐿	p.c.RU
4	Scenario 3.1:	Scenario 3.2:	Scenario 3.3:	Scenario 3.4:
	p.c.RU: →?	p.c.RU 🐿	p.c.RU 44	p.c.RU צוצו
עע	Scenario 4.1:	Scenario 4.2:	Scenario 4.3:	Scenario 4.4:
	p.c.RU: 🔌?	p.c.RU มม	p.c.RU ענע	p.c.RU צעעע

6. Expected results and implementation

Expected results

- Determination and prioritisation of effective innovations
- Identification of drivers of and constraints on innovations
- Strategies and recommendations for overcoming constraints and fostering implementation of innovations
- Evidence based guidelines and tools for the target groups

Implementation activities

- Transdisciplinary research approach
- Communication throughout the project
- Novel implementation activities

7. Positioning NOVAnimal in the NRP 69

Complementing and substantiating NRP 69

- Picking out global trends with major impacts
- Tailoring NOVAnimal to the Swiss context
- Integrating the animal product value chains
- Emphasising inter- and transdisciplinarity

8. Contribution to the NRP 69 goals

NOVAnimal contributes to answering the NRP 69 key questions

How can ...

- ... healthy and sustainable eating be encouraged in Switzerland?
- ... enough and safe food products be made available at affordable prices?
- ... the production, processing and distribution of food be managed efficiently with the least impact on the environment?

NOVAnimal contributes to a transformation of the Swiss food culture

If the dairy and meat per capita consumption declines over the coming years, Switzerland could become an interesting **role model** of how with growing income and prosperity, and knowledge and education, animal products consumption can return to an ecologically sustainable and arguably healthier level.



Thank you for your attention



