

ANIPLAN:

Minimising medicine use in organic dairy farms through animal health and welfare planning



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Overview

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1. Partners , Objectives and Method
2. Main results
 - Farms and Health & Welfare Planning
 - 8 Principles of Health & Welfare Planning
 - Minimising Medicine Use
3. Link to main end users and Application of results
4. Gaps in knowledge and new research questions generated
5. Conclusions

1. ANIPLAN Objectives

To minimise medicine use in organic dairy herds through active and well planned animal health and welfare promotion and disease prevention.

- **Application of animal health and welfare assessment**
 - Develop animal health and welfare planning **principles**
 - Develop **guidelines for communication** about animal health and welfare promotion
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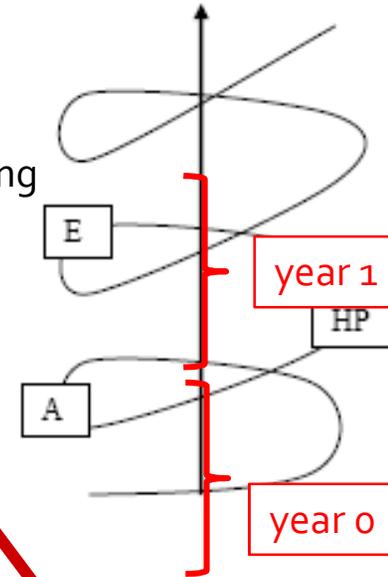
1. ANIPLAN Countries & Partners



Austria	BOKU; VUW; FIBL	39 farms
Switzerland	FIBL	15 farms
Germany	Univ. Göttingen	42 farms
Denmark	Univ. Aarhus	15 farms
Netherlands	Univ. Wageningen	10 farms
Norway	Bioforsk, Nat. Vet. Institute	6 farms
UK	Dutchy College, Univ. Aberystwyth, Soil Association	20 farms
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ANIPLAN total		147 farms

1. ANIPLAN Method

A = assessment
 HP = health planning
 E = evaluation

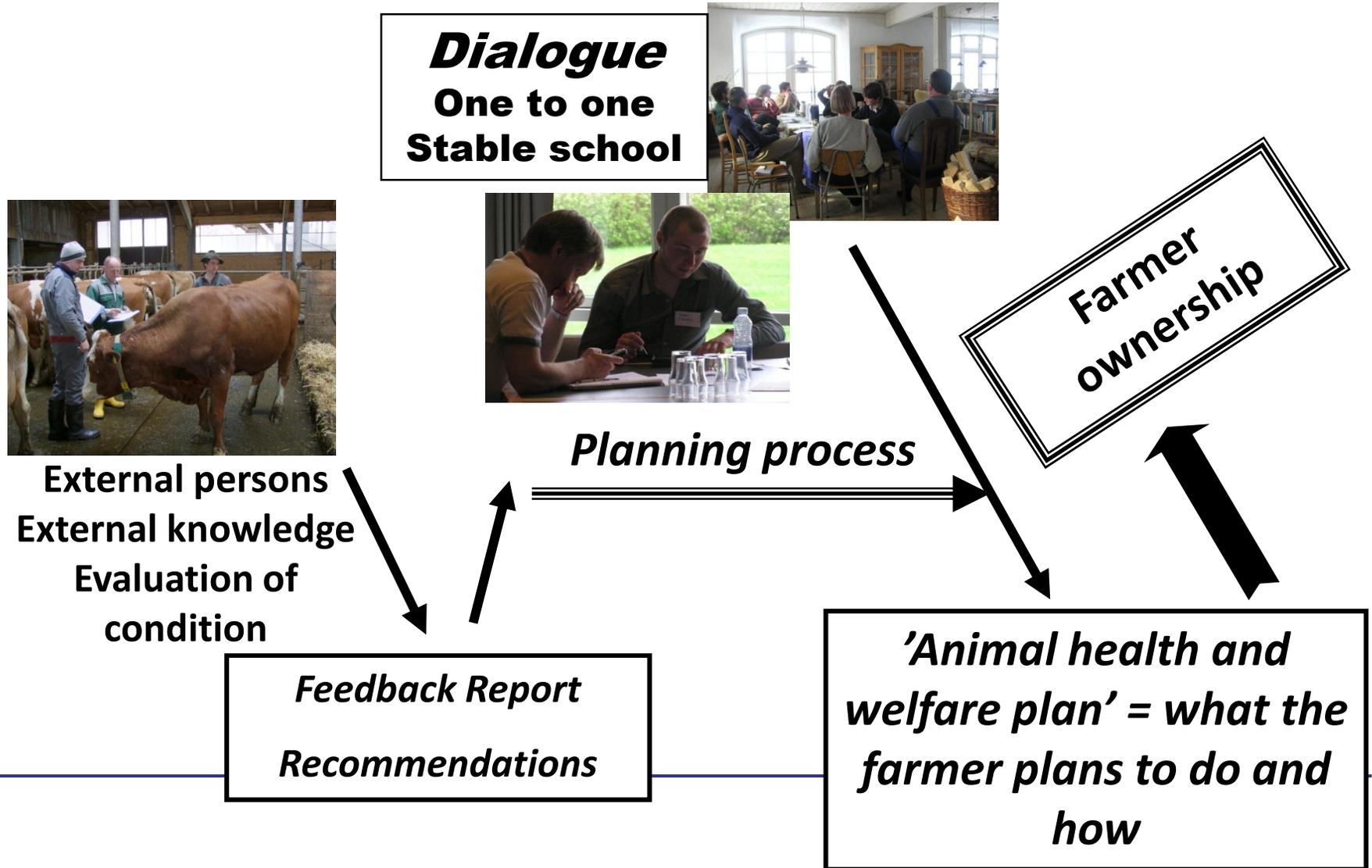


A set of principles developed

In each country a process started:
 Assessments => feed-back
 Dialogue => Health Planning
 Evaluating

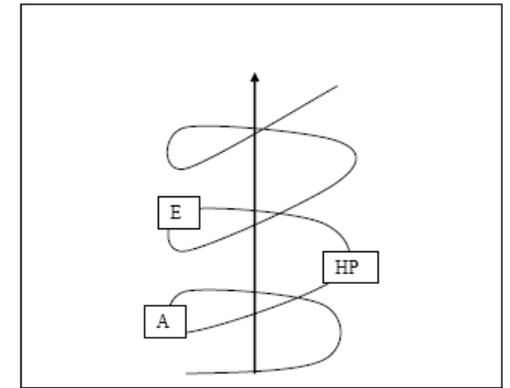


2. Results- Health and Welfare Planning



2. Results – 8 Principles

1. The process => continuous improvement
2. Farm specific
3. Farmer ownership
4. External person(s) should be involved
5. External knowledge
6. Organic principles framework
7. Written
8. Acknowledge good aspects



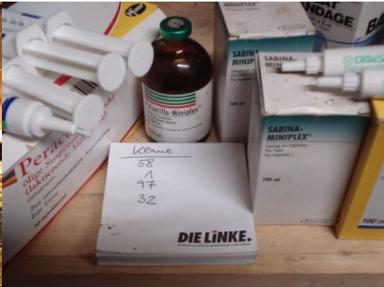
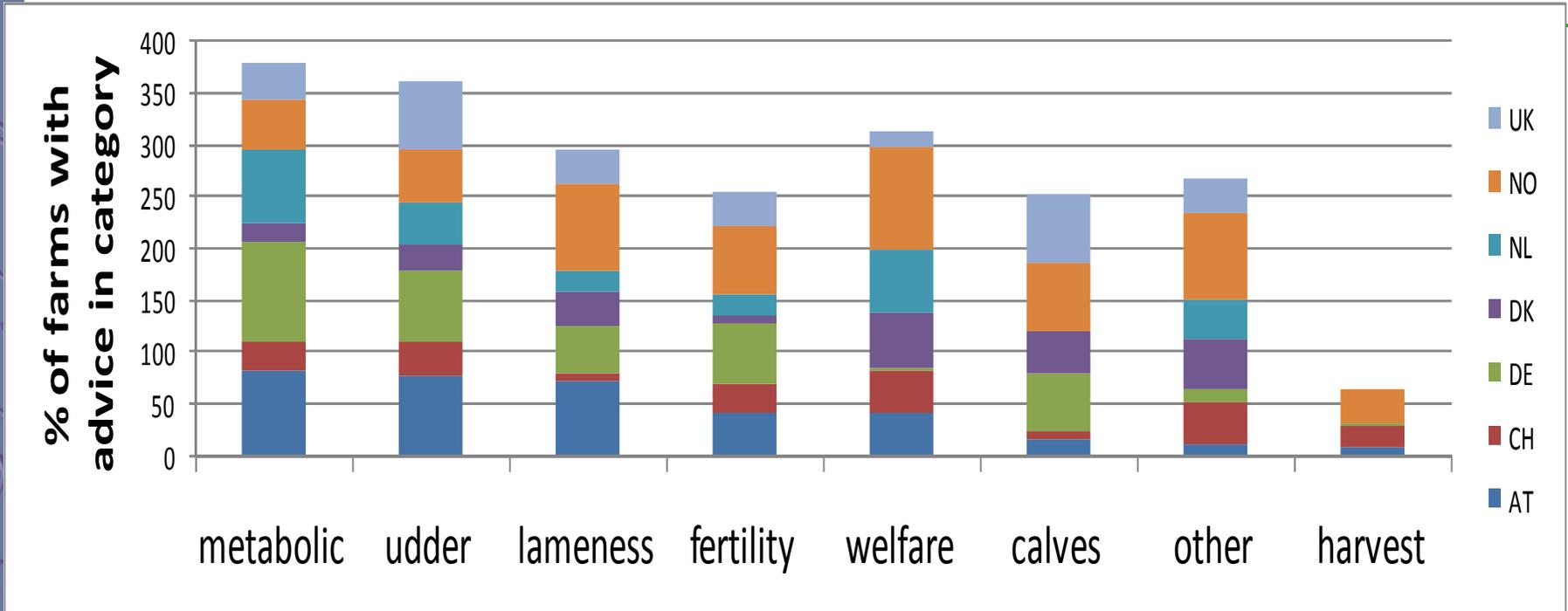
2. Results- ANIPLAN farms



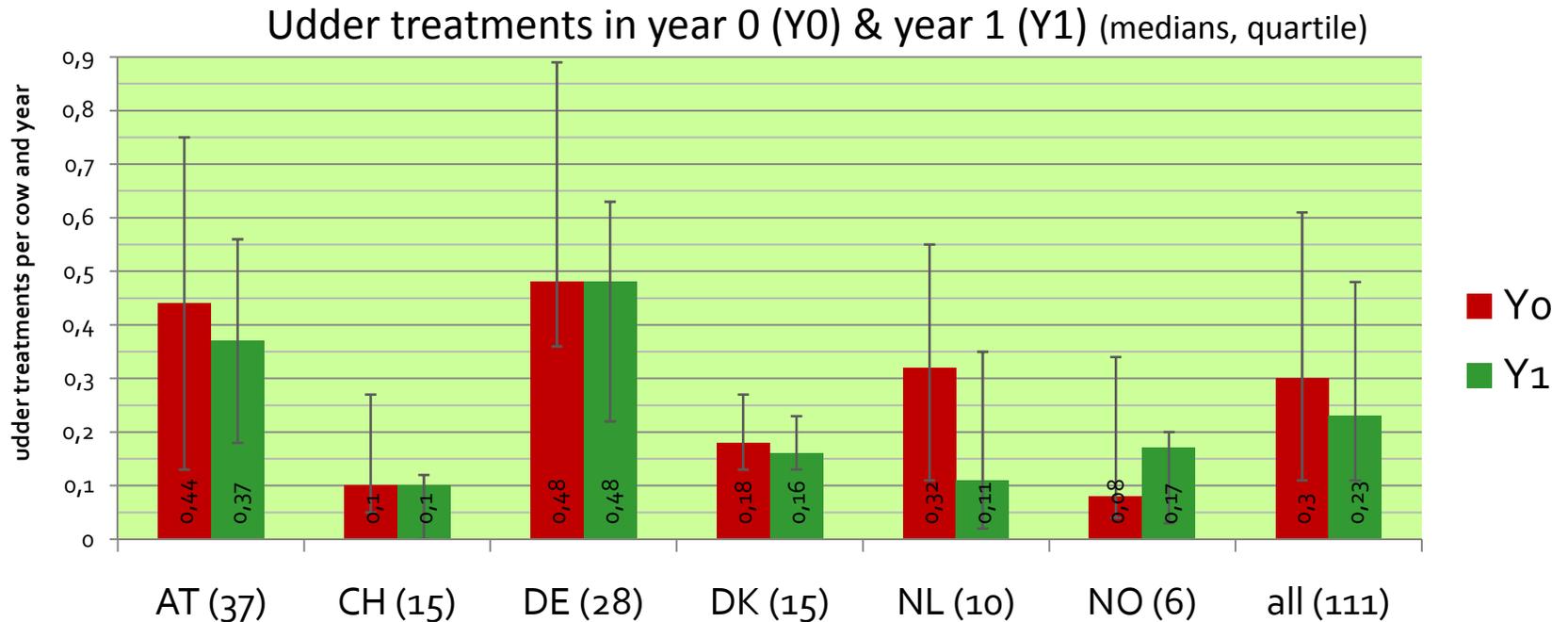
	AT (n=39)	CH (n=15)	DE (n=42)	DK (n=15)	NL (n=10)	NO (n=6)	UK (n=20)
herd size (number of cows)	40 (22 - 63)	31 (14 - 75)	70 (32 - 159)	129 (43 - 251)	62 (35 - 138)	21 (13 - 27)	225 (77 - 412)
daily milk yield (Ø kg)	22.5 (± 2.9)	19.3 (± 3.2)	22.1 (± 3.5)	24.1 (± 3.5)	20.6 (± 3.2)	21.3 (± 2.8)	-
number of lactations (Ø)	3.2 (± 0.6)	3.7 (± 0.5)	3.1 (± 0.6)	2.5 (± 0.3)	3.2 (± 0.4)	2.3 (± 0.2)	-



2. Results – Focus areas (371 focus areas /119 farms)



2. Results – Antibiotic udder treatments



GLM with udder treatments as repeated measures (factor: year)

Factors	Level ¹	F	P	
intercept		91.21	< 0.001	
year	within	8.85	0.004	Y0 > Y1
country	between	5.71	< 0.001	
FAUH	between	3.00	0.086	

¹ within = within subject effects; between = between subject effects, FAUH = focus area udder health

3. Link to main end users

Farmers

- Strong links in all participating countries for participating farmers
- Connected projects

Advisory systems

- Advisors/vets informed/invited to participate during health planning process
- Qualitative interviews existing national advisory structures



3. Application of Results

Application in other projects/advisory systems

- Austria: "Kuhpraktiker" (with BIOAUSTRIA)
- UK and Norway: Facilitator training for Stable schools
- Germany: Stable school Project

The concept is flexible describes a process and how to adjust it to different conditions



applicable in all countries

4. Gaps in knowledge and new research questions generated

- Strategies for successful implementation
 - Practical questions related to organic farming relevant solutions
 - Long term process
 - Other animal production systems, species & age groups
 - Different advisory systems and intensity
 - Non/monetary expectations and outcomes of farmers
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5. Conclusions

- **8 Principles for Health and Welfare Planning**
 - **Communication:** different ways following the same principles (e.g. one- to-one, stable schools)
 - Health and welfare planning allows **improvements and reduction of antibiotics**
 - The **process of planning** is crucial, not “having a plan”.
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Thank You!



- For Listening!
- All participating farmers and advisors
- All ANIPLAN Partners and other Project participants
- All National funding bodies and CoreOrganic!