



Welcome!

Strategic conference on AgriTransformation

Representation of Lower Saxony to the European Union,
Brussels | November 6, 2019



**Niedersächsisches Ministerium
für Ernährung, Landwirtschaft
und Verbraucherschutz**

Strategic conference on AgriTransformation

Nov 6 Brussels



Niedersächsisches Ministerium
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und Verbraucherschutz



- **Objective 1:** New, multidisciplinary network
- **Objective 2:** form a consortium of researchers and practitioners that participate within the new framework Horizon Europe.
- **Idea:** a systematic platform for practice-oriented ideas, approaches, blueprints to proactively shape the transformation process in Europe
- **Mission:**
 - Preserve diversity, ensure competitiveness
 - creating ecologically, socially , ethically and economically resilient AgriFood systems
 - Ensure sustainability of agricultural regions

Agenda I

- 14:00 **Welcome & Introduction:**
Barbara Otte-Kinast, Minister of Food, Agriculture and Consumer Protection in Lower Saxony
- 14:15 **Intro impulse:** “Agriculture in transition: Societal, ecological and economic challenges”
 - » Prof. Dr. Diana Pretzell, WWF Germany
 - » Dr. Barbara Grabkowsky, Coordination Center for transformative research in areas of intensive agriculture
- 14:45 Horizon Europe: Mission & funding opportunities:
Dr. Kerstin Rosenow, European Commission
Directorate-General for Agriculture and Rural Development
Unit B2 – Research and Innovation
- 15:15 Introduction round, aims & expectations for the day
- 15:30 **Coffee Break**

Agenda II

- 16:00 Transformation processes in European farming systems: Regional challenges & related research - **Prof. Dr. Frank O'Mara**, Teagasc Ireland
- 16:30 Country reports:
Belgium: Erwin Wauters, ILVO
France: Christine Roguet, IFIP-Institut du porc
Germany: Nicole Kemper, TiHo
Netherlands: Peter Paree, ZLTO
Spain: Joan Bonany, IRTA, Catalonia
- 17:00 Interactive mission quest: Common ground for thematic networks/clusters, transformation pathways & mission perspectives
- 18:30 Next steps: Mission milestones & closing statement
- 19:30 **Get together and reception with drinks & snacks**

Welcome & Introduction

Barbara Otte-Kinast

Minister of Food, Agriculture and Consumer Protection
in Lower Saxony



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Agriculture in transition: Societal, ecological and economic challenges

Diana Pretzell
WWF Deutschland



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Agriculture in transition: Societal, ecological and economic challenges

Barbara Grabkowsky

trafo:agrar



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Horizon Europe - Mission & funding opportunities

Kerstin Rosenow

European Commission, Directorate-General for
Agriculture and Rural Development
Unit B2 – Research and Innovation



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50 Jahre Club of Rome...

„Wenn die gegenwärtige Zunahme der Weltbevölkerung, der Industrialisierung, der Umweltverschmutzung, der Nahrungsmittelproduktion und der Ausbeutung von natürlichen Rohstoffen unverändert anhält, werden die absoluten Wachstumsgrenzen auf der Erde im Laufe der nächsten hundert Jahre erreicht.“

US-Ökonom Dennis Meadows **1972** in 'Die Grenzen des Wachstums'

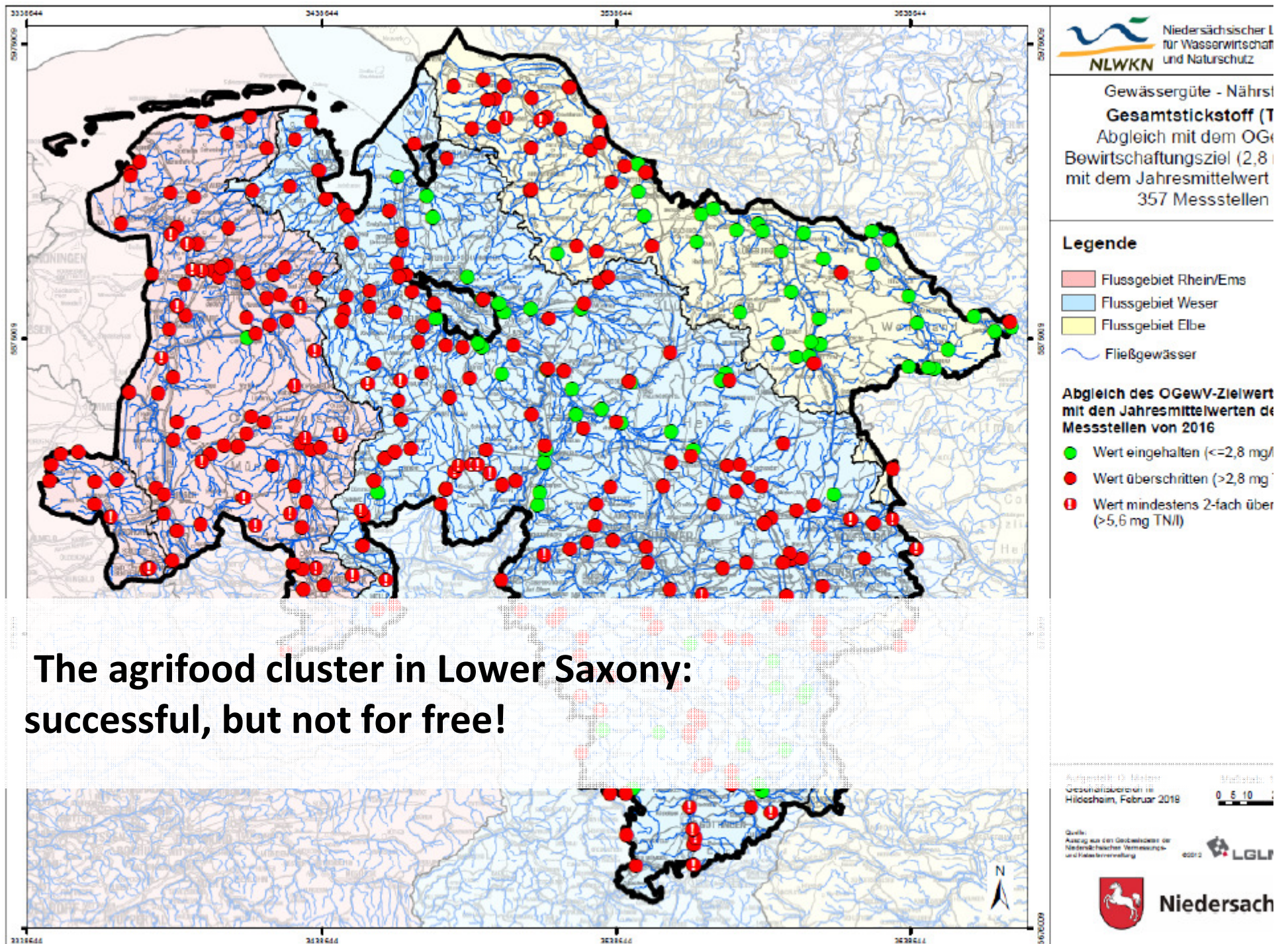


50 years Club of Rome...

„If the current increase in world population, industrialization, pollution, food production and exploitation of natural resources continue unabated, the absolute growth limits on Earth will be reached over the next hundred years."

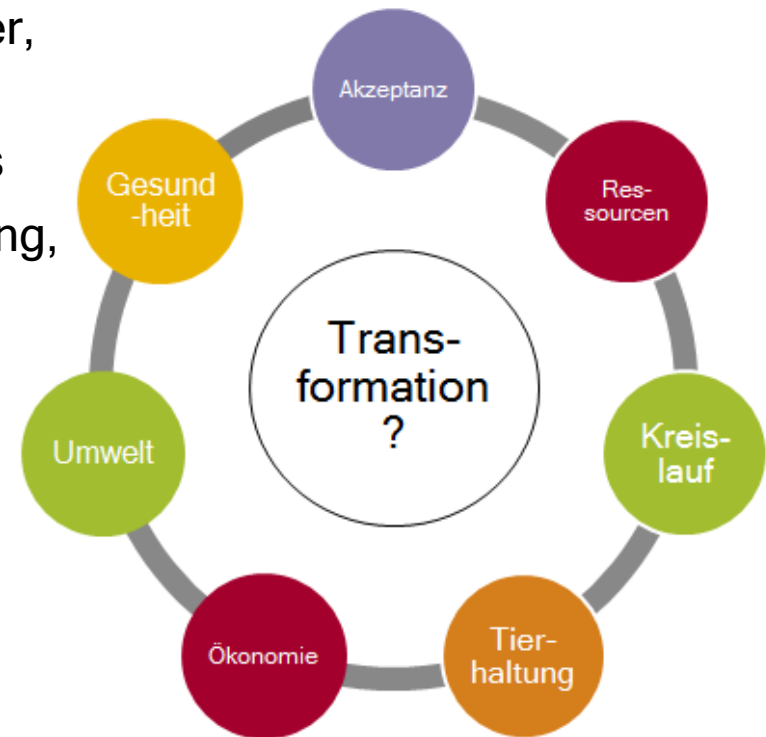
US-Ökonom Dennis Meadows **1972** in 'Die Grenzen des Wachstums'





Limits to growth

- **Ecological:** soil/water/air, nitrate, groundwater, Climate change, reduced biodiversity
- **Economic:** price pressure, saturated markets
- **Structural change:** 3 K questions: Sow housing, castration, tail cropping (e.g.: 50% of sow holders want to quit (source: ISN, 2018))
- **Digital Transformation:** New technical requirements & opportunities & German Angst
- **Societal:** Acceptance for Traditional Production, Ethical Concerns for Intensive Agriculture
- **New products:** Demand for new products, production methods and business models
- ...



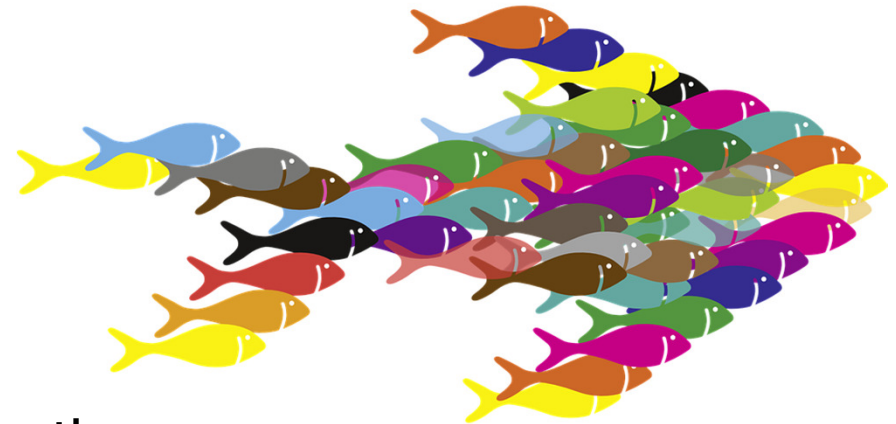
The key future question for regions of intensive agriculture: shaping or waiting?



Change is a MUST, inherits a lot of risks but also opportunities

Common ground:

„Only together can we transform the challenges into solutions.“



- ➔ Intelligent, qualitative growth
- ➔ Goal: Ensure sustainable competitiveness

*Coordination Center for transformative
research in areas of intensive agriculture*

Research



GEORG-AUGUST-UNIVERSITÄT
GÖTTINGEN

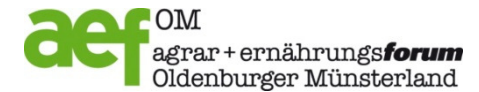


Society



MWK, ML

Economy



Normative framework and starting point for intelligent and sustainable growth: The SDGs



.. focused on regional requirements

- Social acceptance of animal husbandry
- Housing systems, stable of the future
- Optimization of animal welfare and animal health
- feeding
- Climate adapted and climate friendly
- ...

- Soil, water, air
- Nutrient management and cycles (N, P), logistics
- biodiversity
- ...

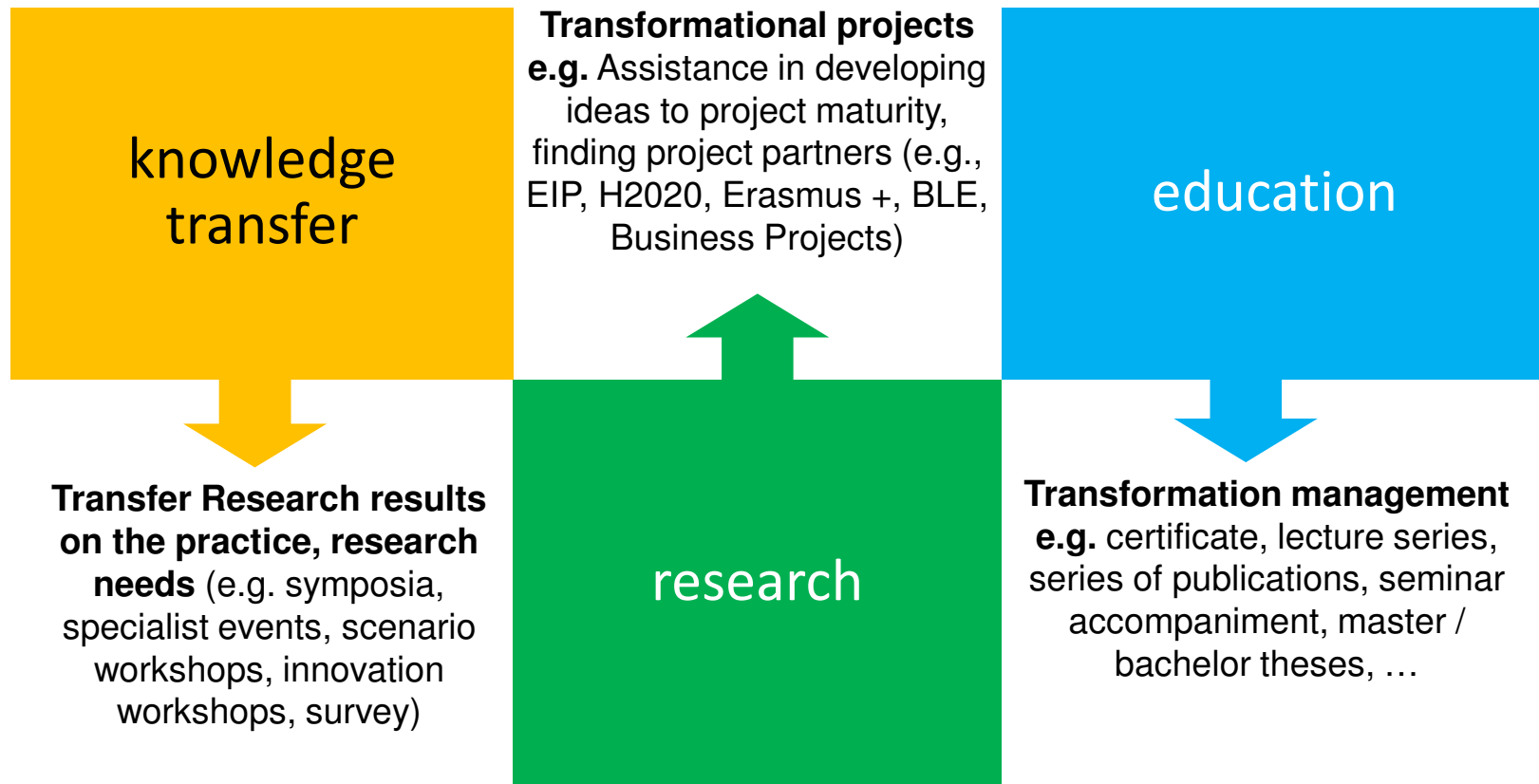
**Future
AgriFood systems**

**Digitization of value
chains**

**Sustainable resource
responsibility**

- Multi-level information systems
- Communication systems and platforms
- Food Safety
- traceability
- Alternative business models...

A core task of the coordination office: Networking of the partners ...



Unser Leitbild / Our Mission:

**Transformative Forschung und Innovation für eine
zukunftsfähige, verantwortungsbewusste und
vielfältige Agrar- und Ernährungswirtschaft.**

*Transformative, collaborative research and innovation for
sustainable, responsible and diverse agrifood systems*

„Window of opportunity“

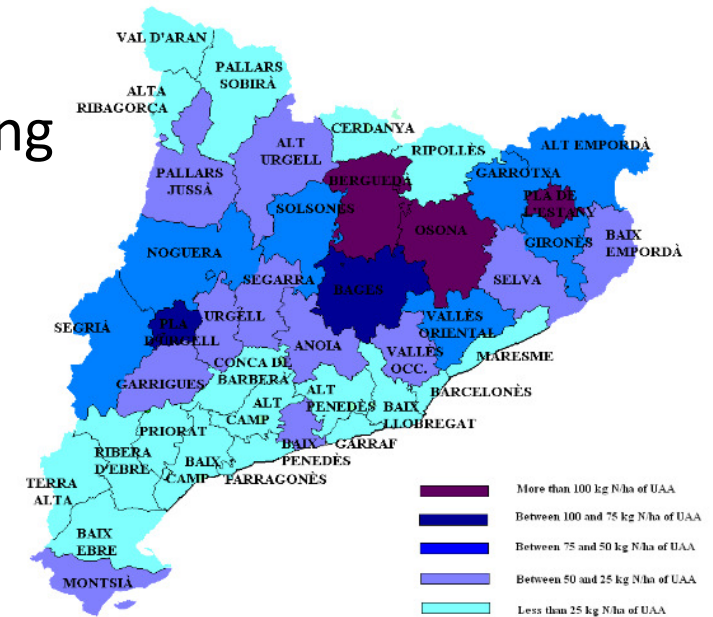


**„Shaping the future:
Farm / product 2050“**



Dynamics of transformation processes in Europe

- Business sectors & regions with >> intensive farming << are currently facing major challenges
- Environmental problems in all regions with "intensive farming" clearly recognizable
- Signs of structural change
- Consumer acceptance of traditional production methods
- Field of tension: Cost vs quality leadership



Source: GESFER, 2008.



Dynamics of transformation processes in Europe

Pig population, live swine (EUROSTAT 2019)

GEO/TIME	2008	2018
EU-28	153.707,01	148.191,61
Belgium	6.207,60	6.209,13
Germany	26.718,62	26.445,40
Ireland	1.510,75	1.572,15
Spain	26.289,62	30.804,10
France	14.810,00	13.713,00
Netherlands	11.735,00	11.934,00
Sum	87.271,59	90.677,78
Share (%)	56,8	61,2

- We do have impact: 61.2 % of the swine population in EU-28 in the countries represented here today
- Use time now, be pro-active, together.

Thank you