



How to make a game changer from approaches like systems thinking and co-designing of research and innovation agendas?

Elke Rogge | Fleur Marchand

Just testing

Farm machines likely to get smarter, autonomous

Revealed: How two thirds of us are overweight - and only two out of 53 European countries are fatter

OBESITY BRITAIN

ONLY two of 53 European nations are fatter than Britain, a report reveals today.
The UN study found that two in three of us are overweight and one in four is obese. It blamed the crisis on lack of exercise, poor diet and heavy drinking. Campaigners said the

By Ben Spencer
Medical Correspondent

figures were frightening and warned that deaths from diabetes and heart disease could spiral without urgent action. The obesity rate of 28 per cent is led only by Turkey with 32 per cent, and Malta at 29 per cent. The European average is 20 per cent. Obesity is defined as a body

mass index (BMI) score of more than 30. A tally higher than 25 is seen as overweight. The Government has to work and quickly if the UK is to avoid shortly becoming the 'fattest nation on Earth', said Tim Fry of the National Obesity Forum. 'It is frightening, but there are millions of children whose current obesity will 'kill' them to die

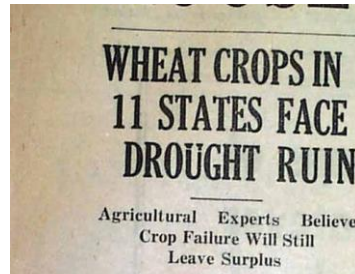
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The modern pollution problem

THE HINDU • SUNDAY, FEBRUARY 19, 2012

'Agriculture sector needs visionary policy making'



Time to cut our greedy farmers down to size

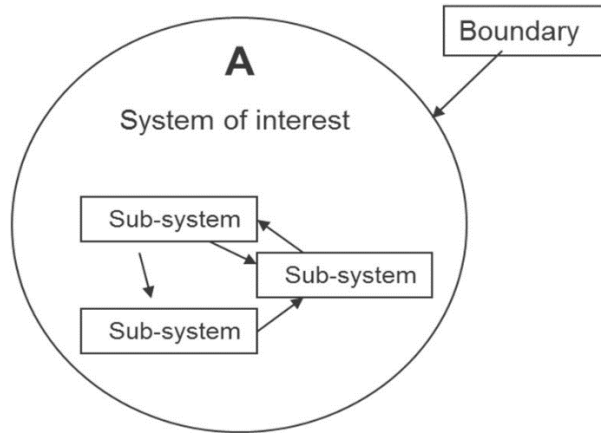
wicked problems



systems thinking

systems thinking

Environment



➔ CONTEXT

➔ RELATIONS

➔ FUNCTION



emergent properties



time

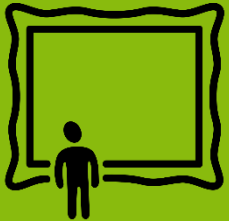


space

systems thinking



cyclical thinking



gaining a bigger picture



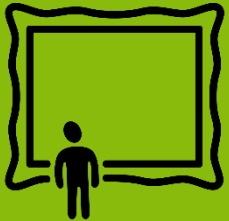
include other people's perspectives



systems thinking



cyclical thinking



gaining a bigger picture



appreciating other people's perspectives

participation and co-creation

Who is in the room?

participation and co-creation

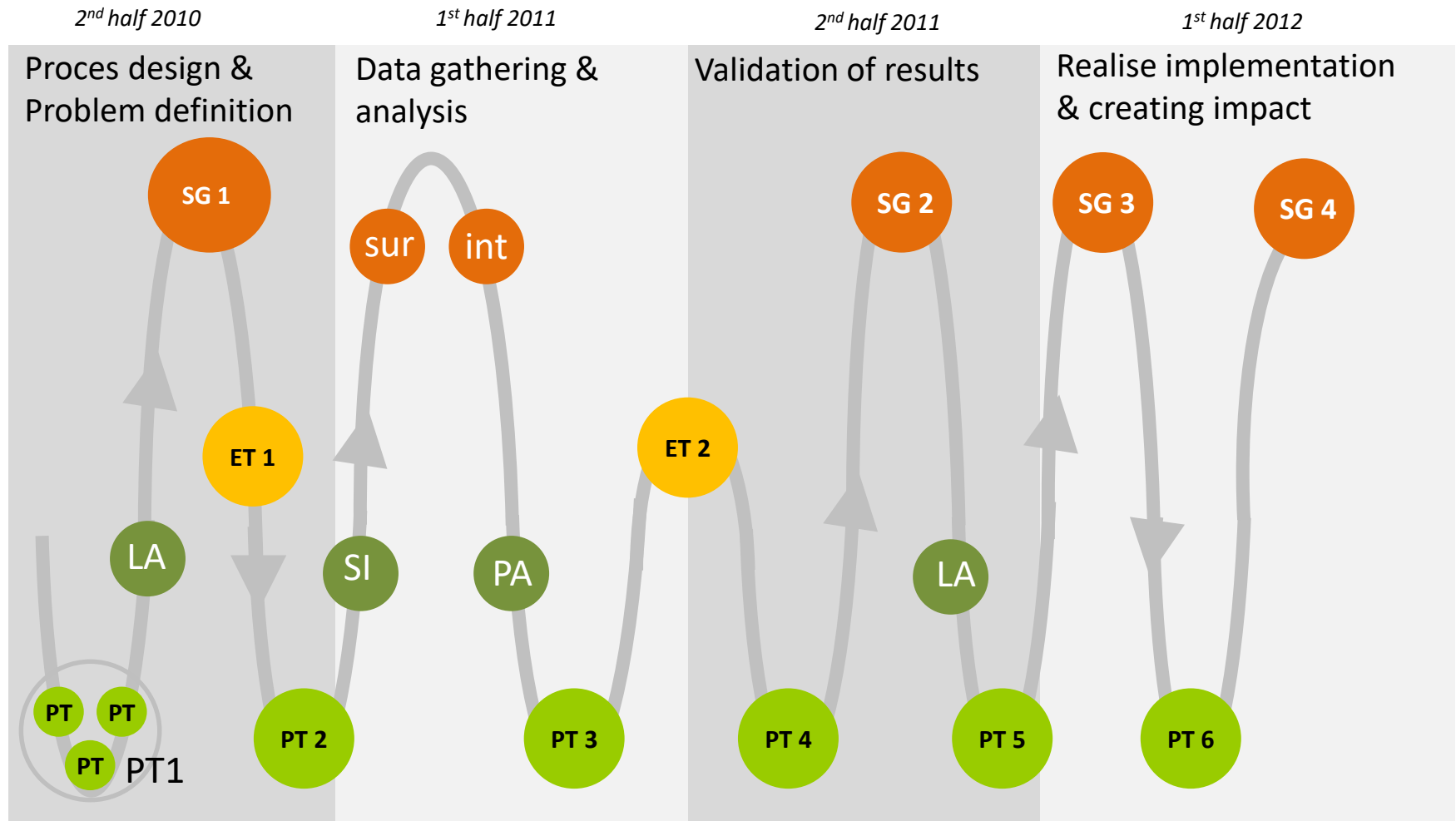


- Methodological argument
- Content argument
- Democratic argument
- Social argument

participation and co-creation



participation and co-creation



include regular REFLEXION MOMENTS!!

ILVO

Variety of actors

Variety of levels

Variety of methods



Strategic level 1



ILVO
Instituut voor Landbouw-
Visserij- en Voedingsonderzoek

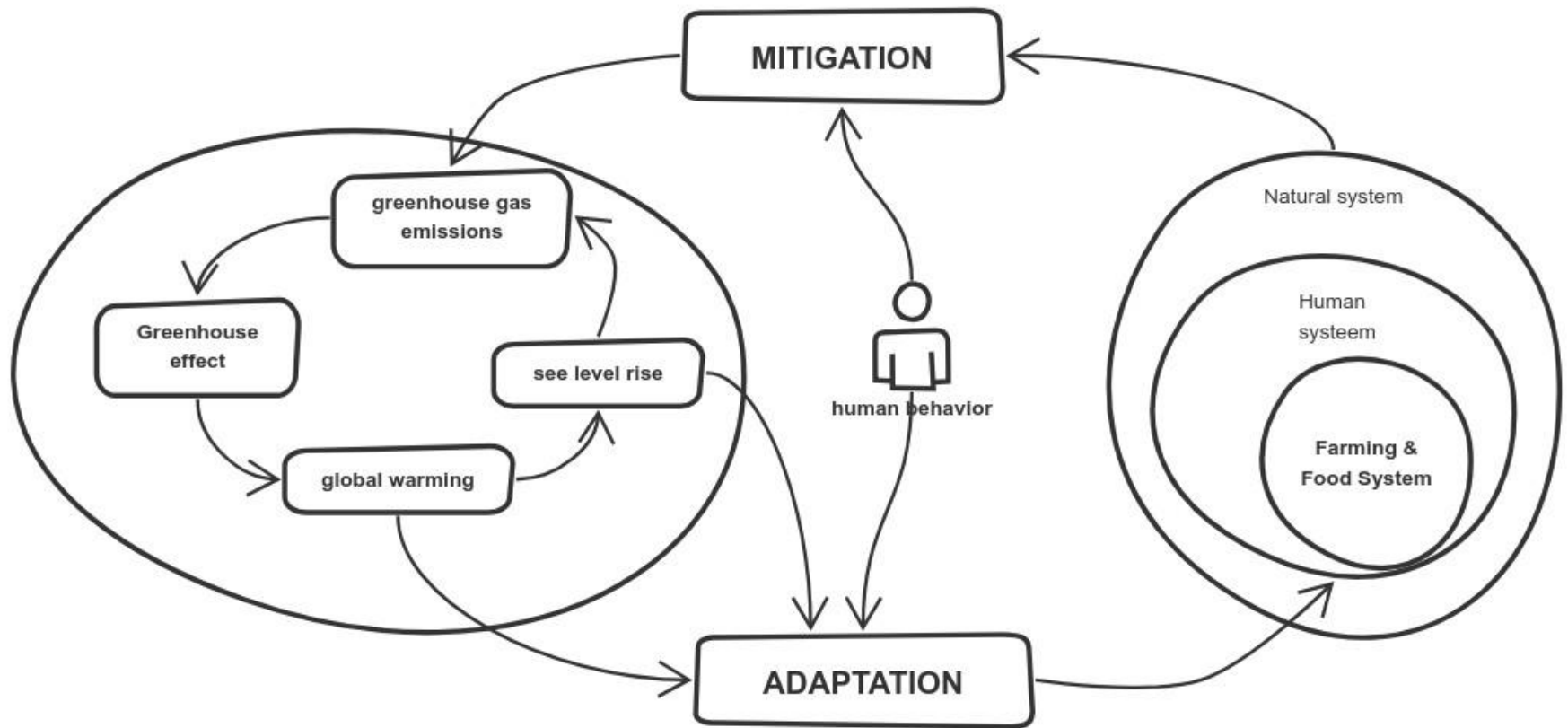
**Toekomstvisie
ILVO:
naar 2020
en verder**

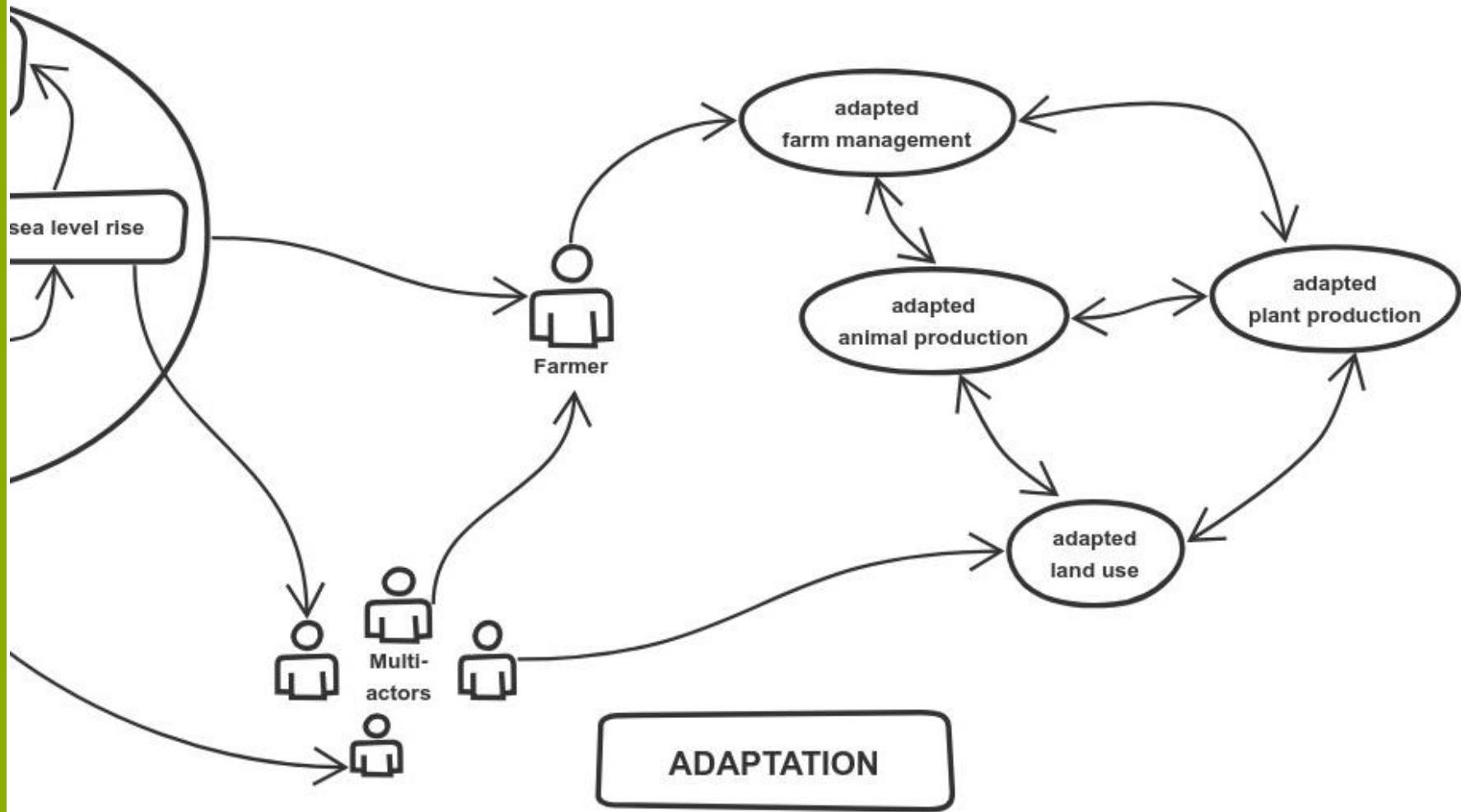
Onderzoek voor
een duurzame
en rendabele
landbouw-
en voedselproductie

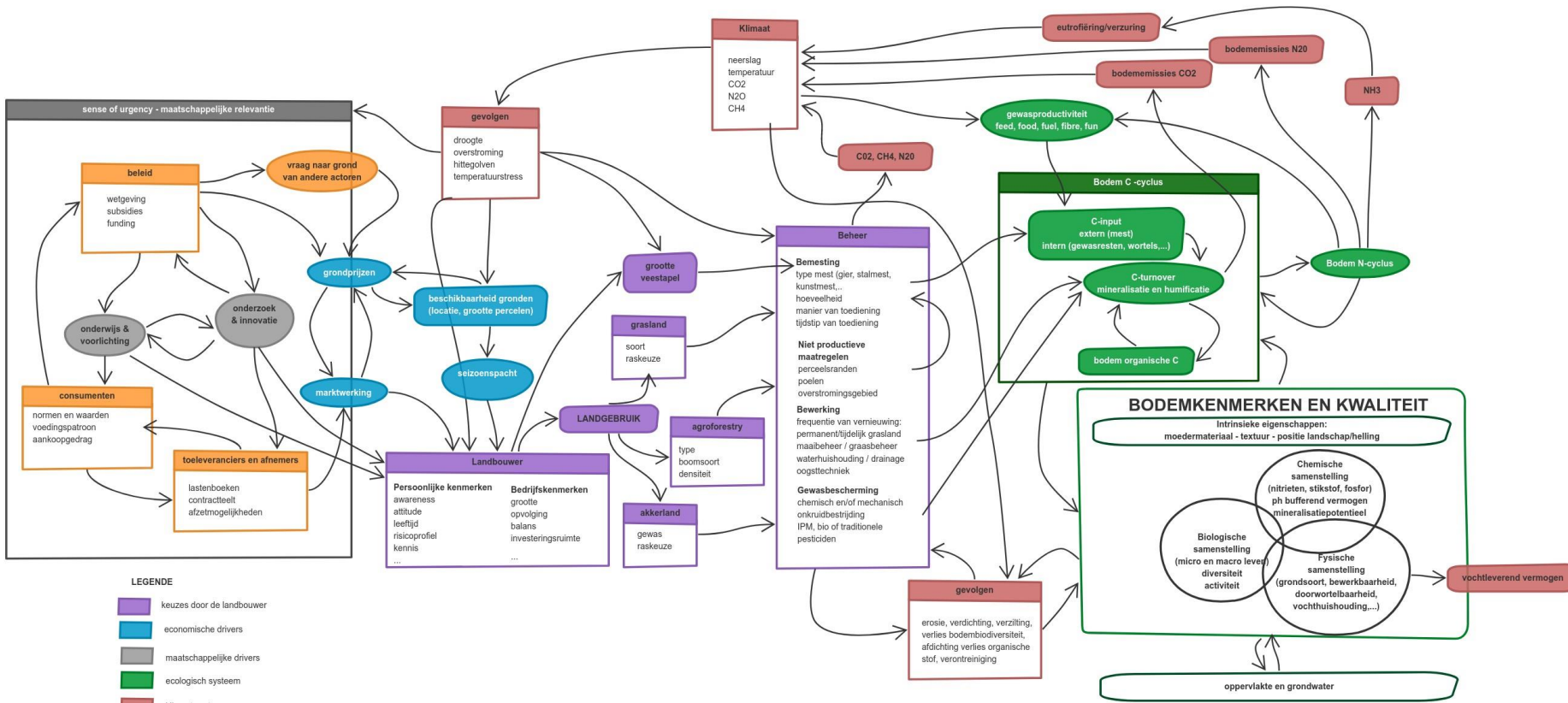
 **Vlaanderen**
is landbouw & visserij



Strategic level 2







Strategic level 3

ILVO
LIVING LABS



FOOD PILOT



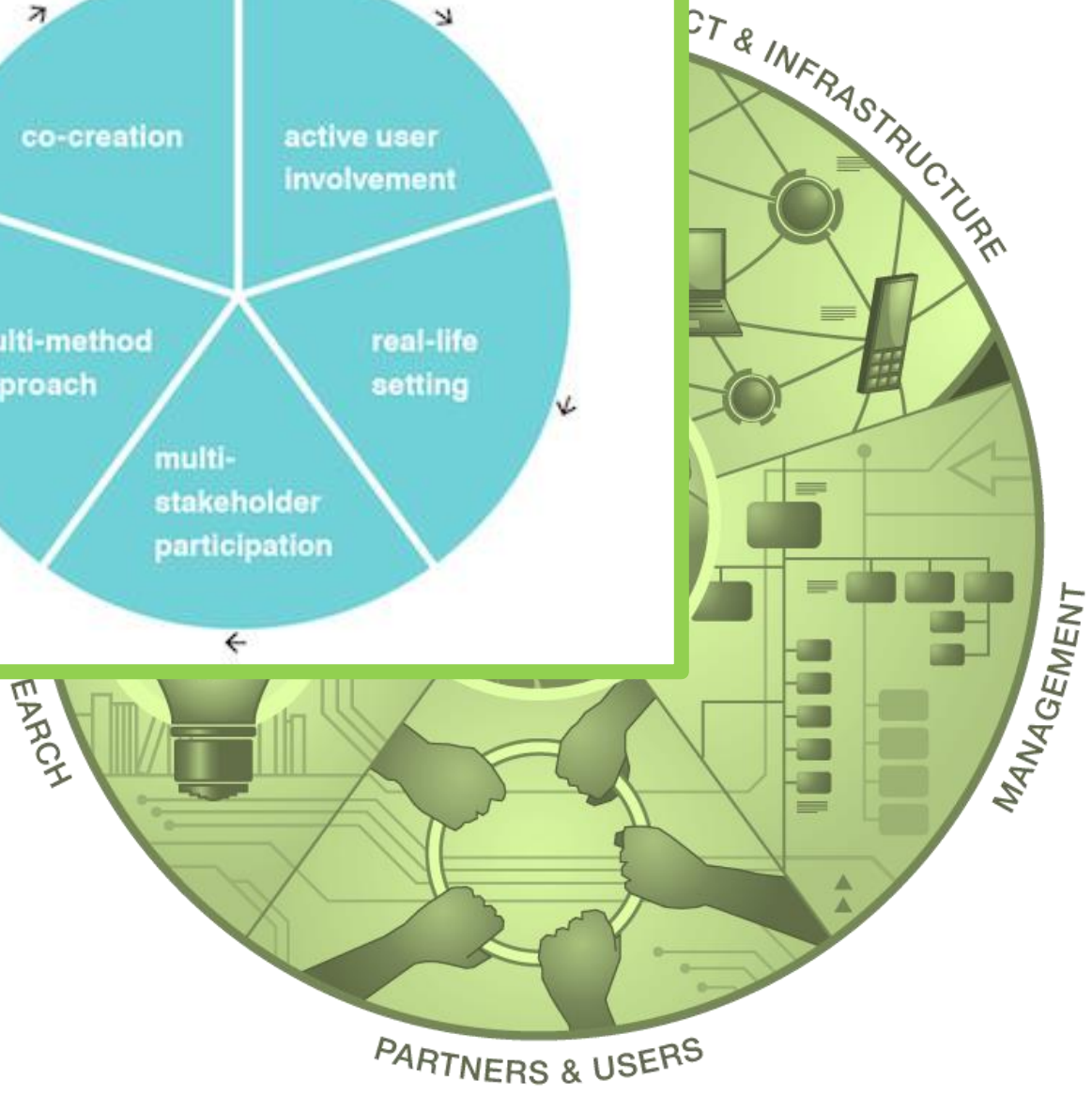
**PRECISION
AGRICULTURE**



**LIVESTOCK
FARMING**

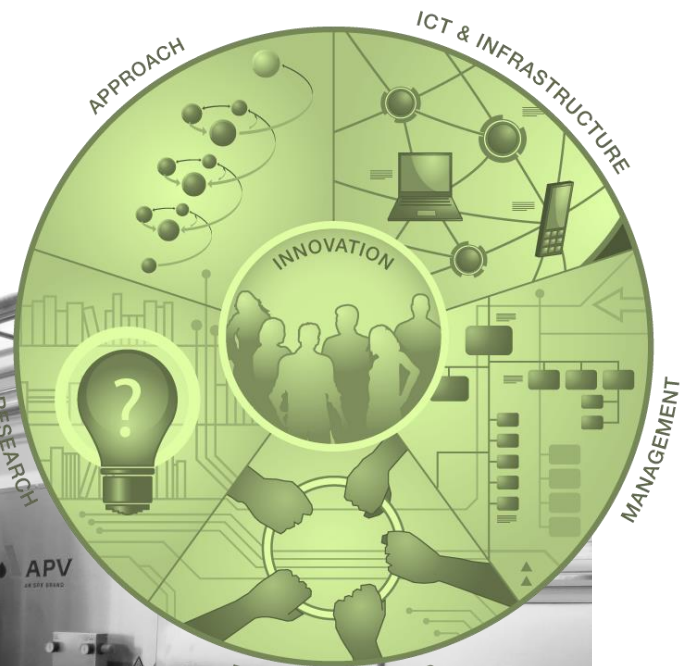


**AGRO ECOLOGY
& ORGANIC AGRICULTURE**





FOOD PILOT





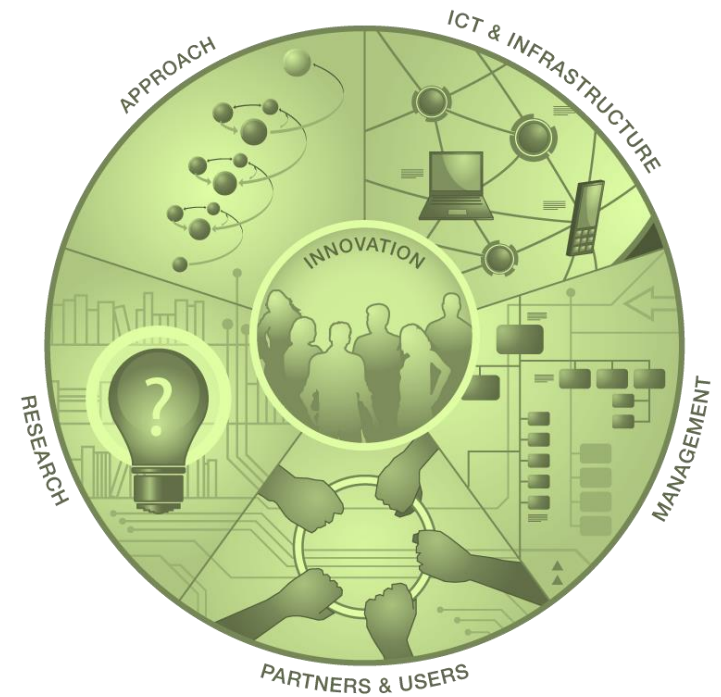
AGRO ECOLOGY & ORGANIC AGRICULTURE

CONNECT all actors

RESEARCH in real life context

EXCHANGE KNOWLEDGE in all directions

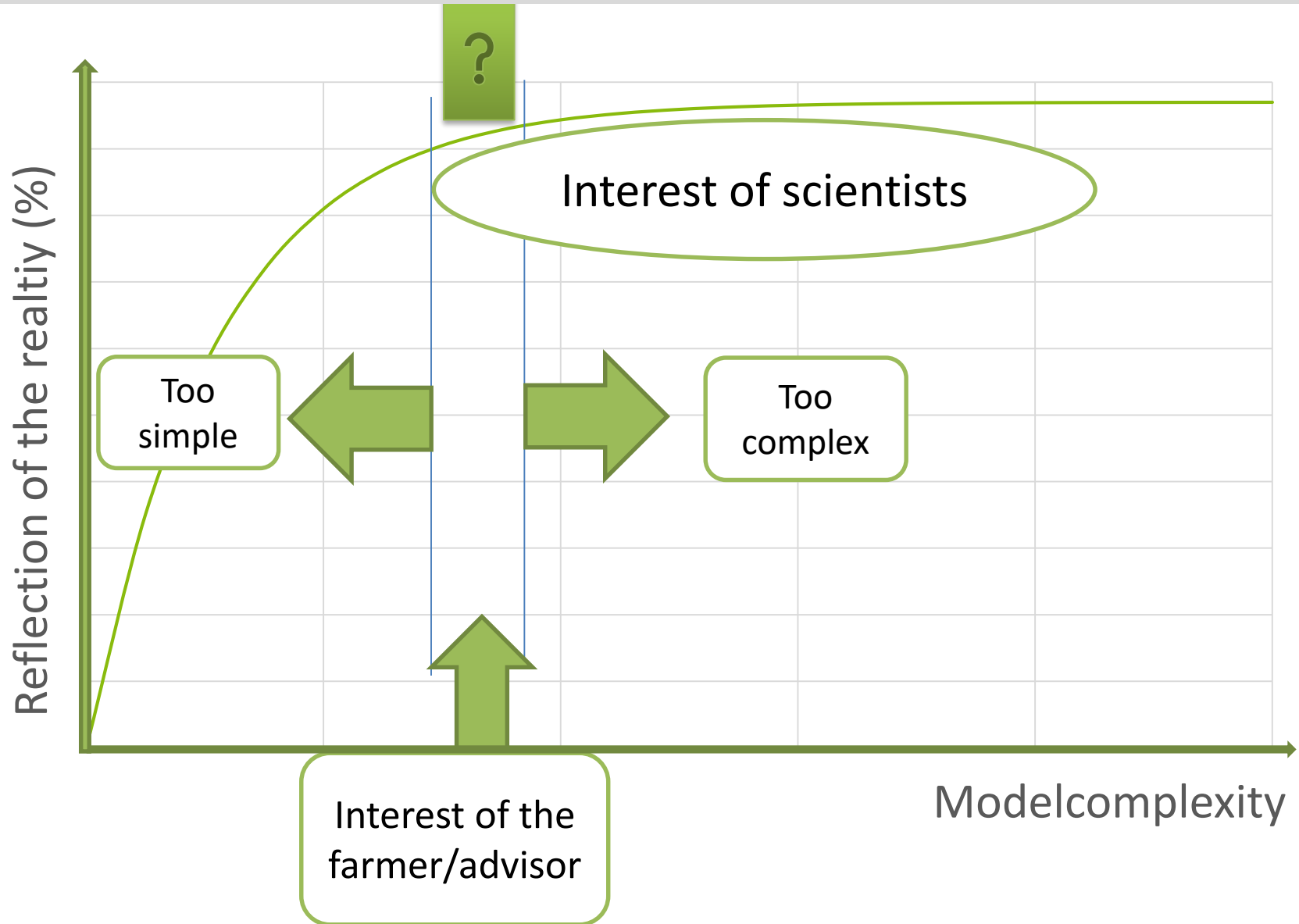
INNOVATE through co-creation



AGROFORESTRY in VLAANDEREN

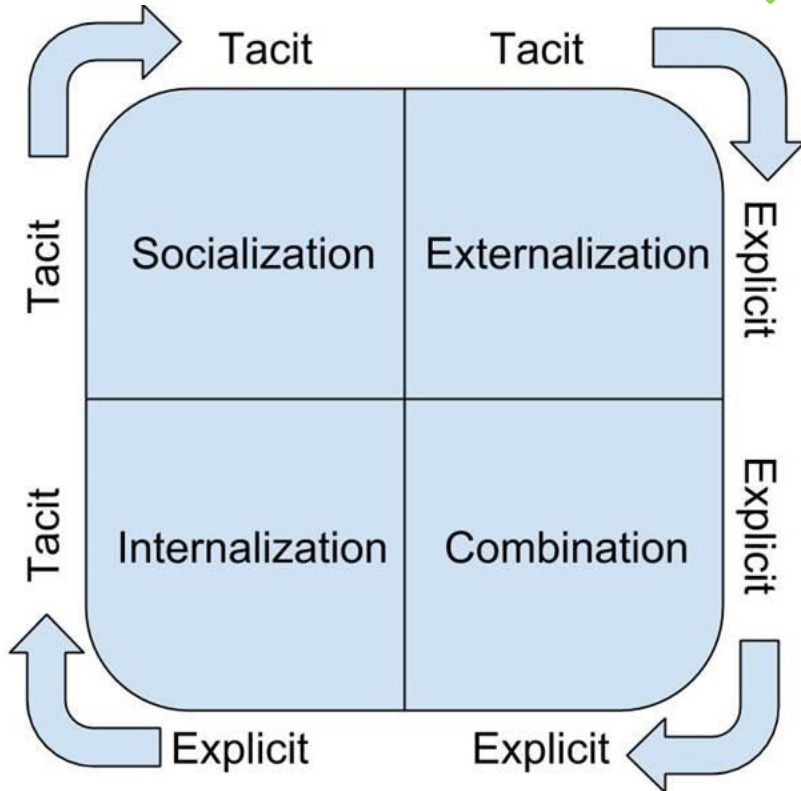
What is the value for your institute to engage in systems thinking and participation on a strategic level?

Micro level



Micro level

DATA GATHERING



Nonaka et al. 2000

Micro level

DATA GATHERING

Knowledge of local environments

Knowledge gained through experience

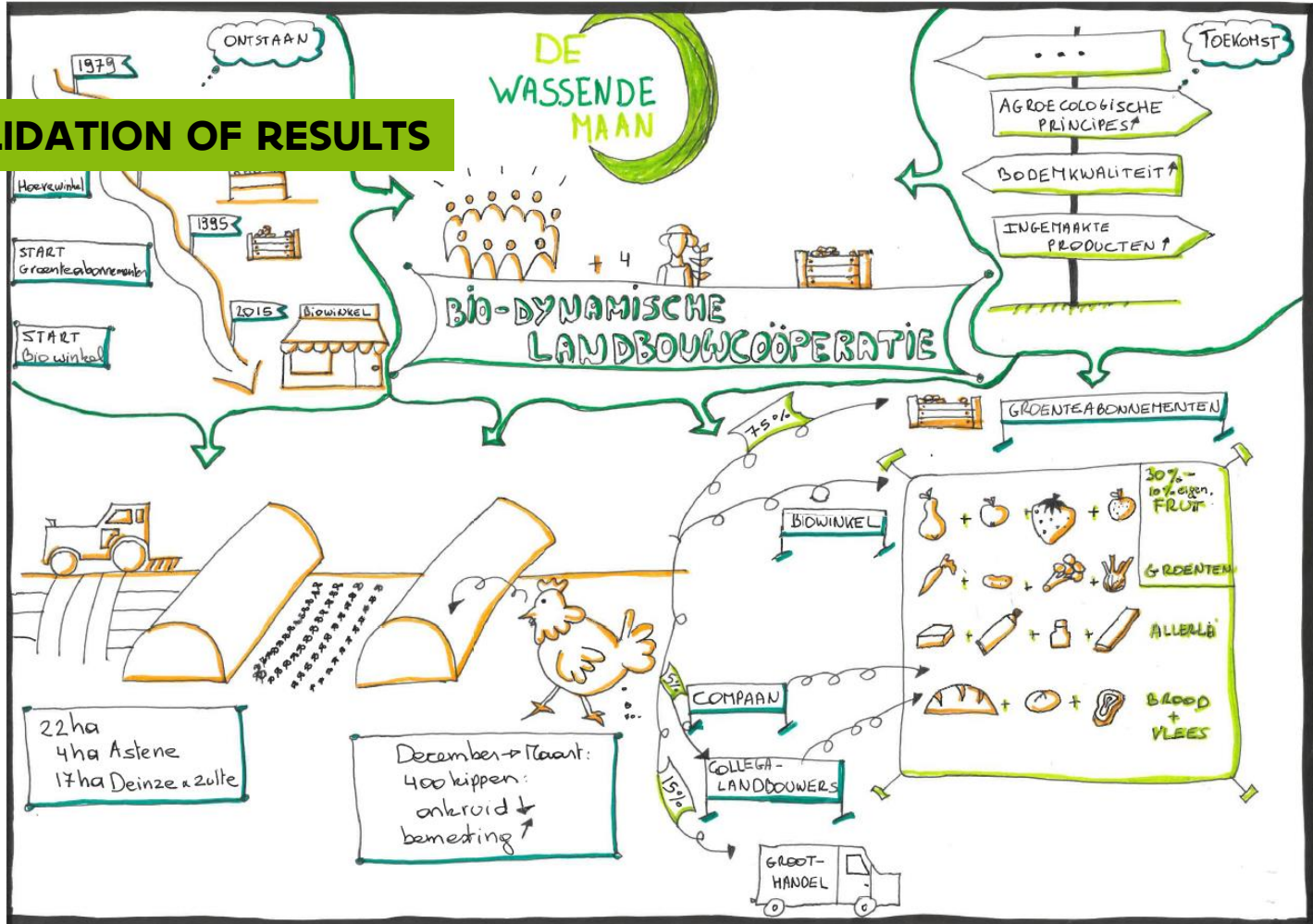
Submission of scientific data by large numbers of citizens



CITIZEN SCIENCE

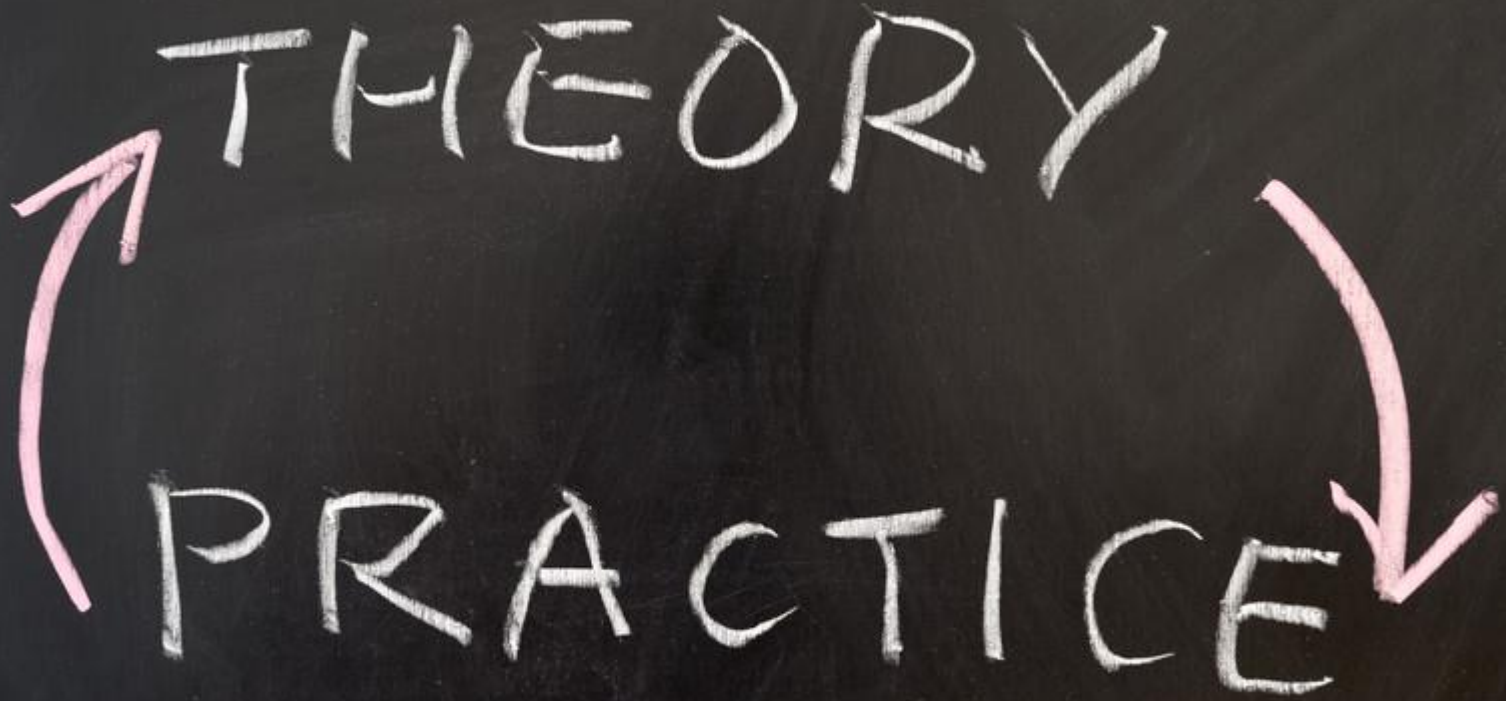
Micro level

VALIDATION OF RESULTS





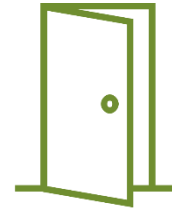
Does your institute engage in systems thinking or participation?



Let's change the game



Mindshift



Open your doors



Long process



Common values



Resistance



Tools & Facilitation

What do you take home today?

ILVO

Instituut voor Landbouw-
en Visserijonderzoek

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