

# Plant Awareness

The journey to developing a comprehensive tool

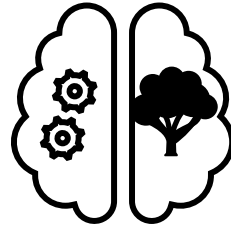
Benno Dünser & Peter Pany



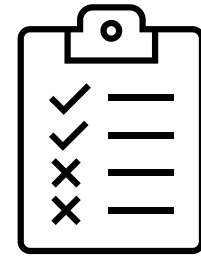
# Mainpoints



Why should  
we care?



Why is there  
no tool?



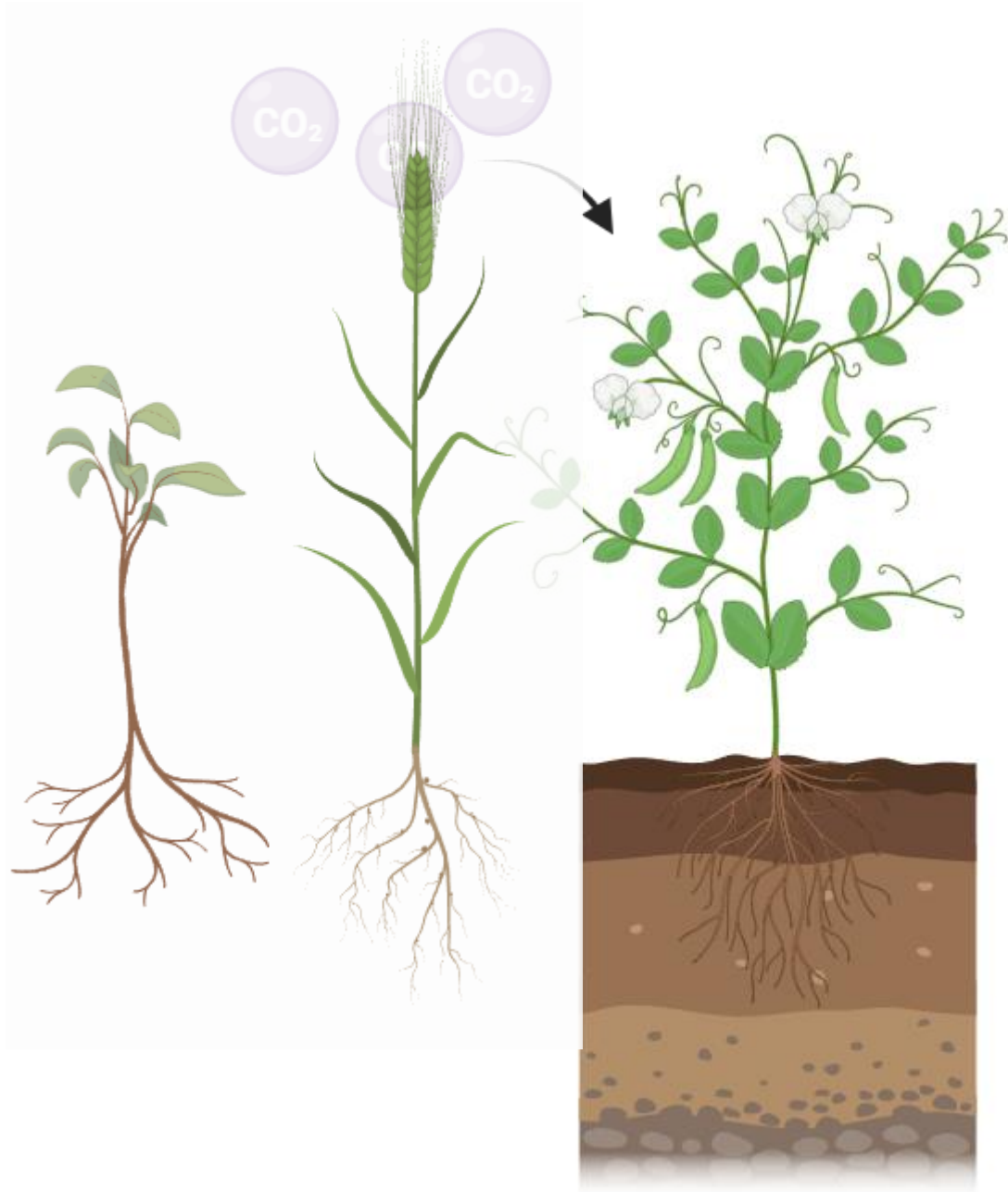
How could  
a tool look?

Why is it important to be  
aware of plants

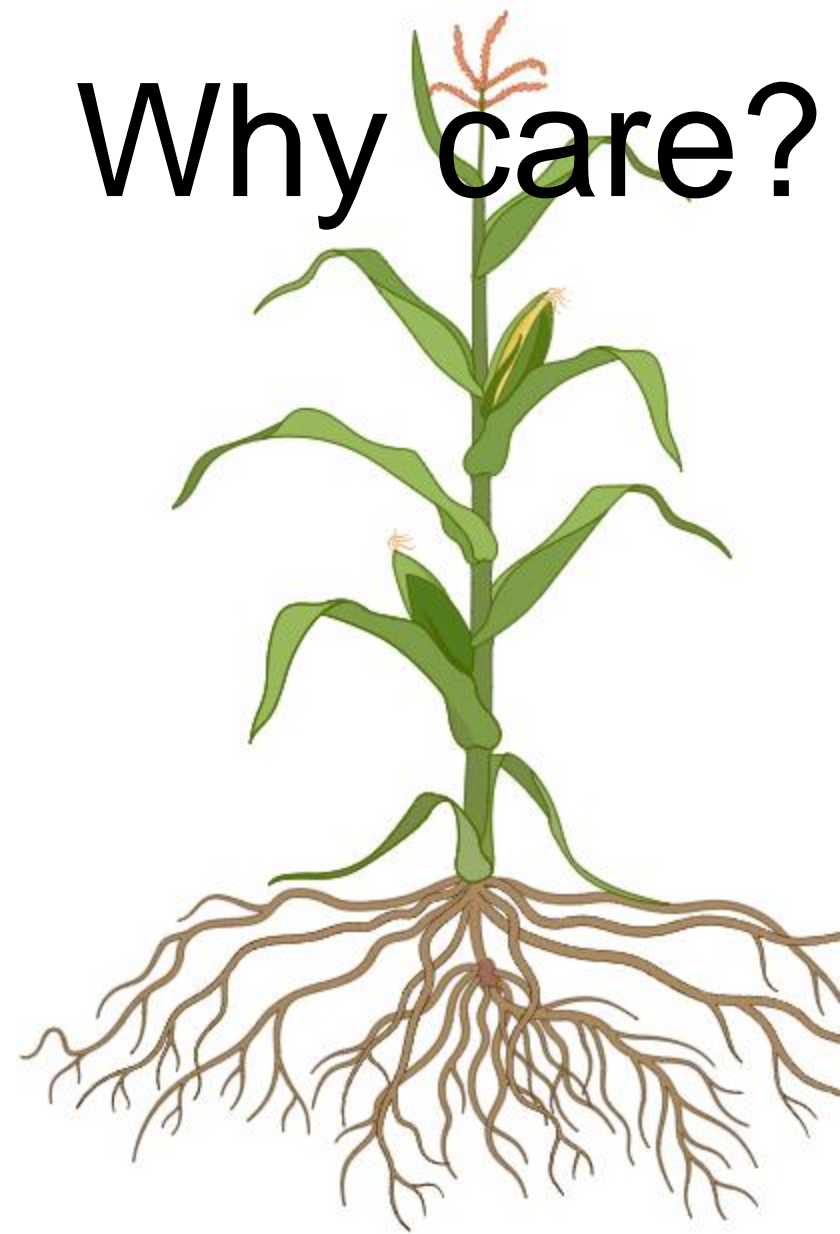
... and understand

Plant Awareness?





# Why care?



# Fostering Plant Awareness to..



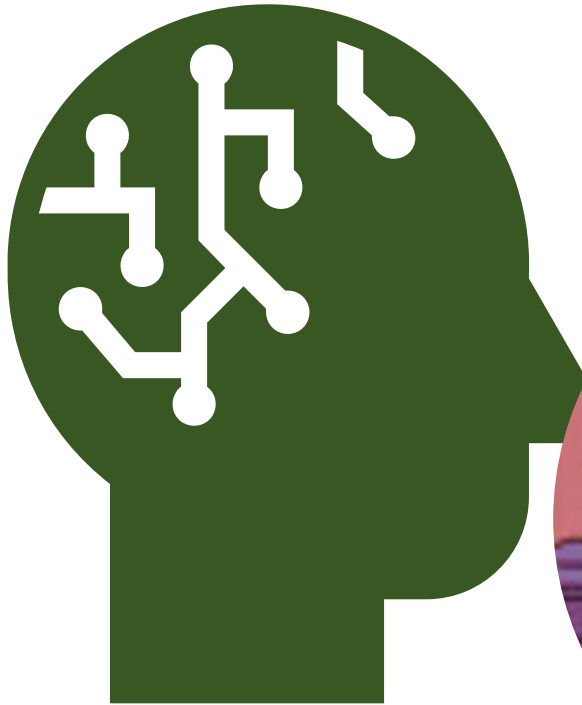
Why is there no tool  
.....yet?



# Construct

A construct is a term that specifies the nature of a

(Newman 2022)





# Delphi Study

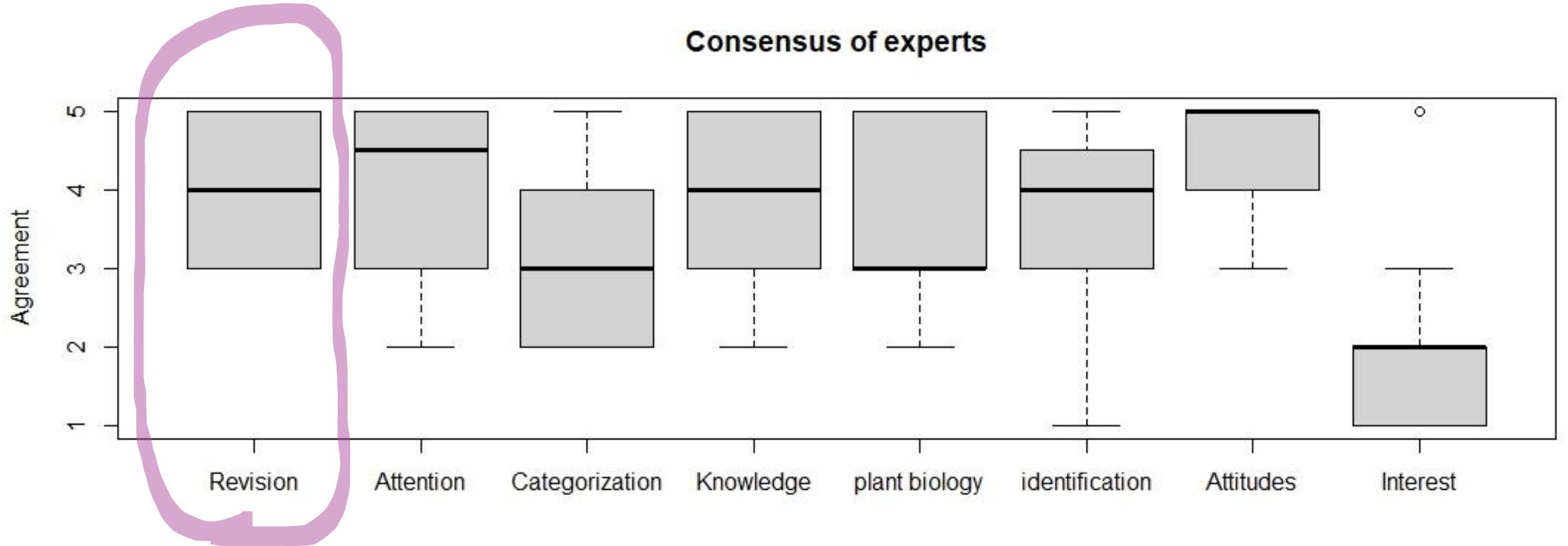
Mixed method  
Set of experts  
New field

Reflection  
Anonymity

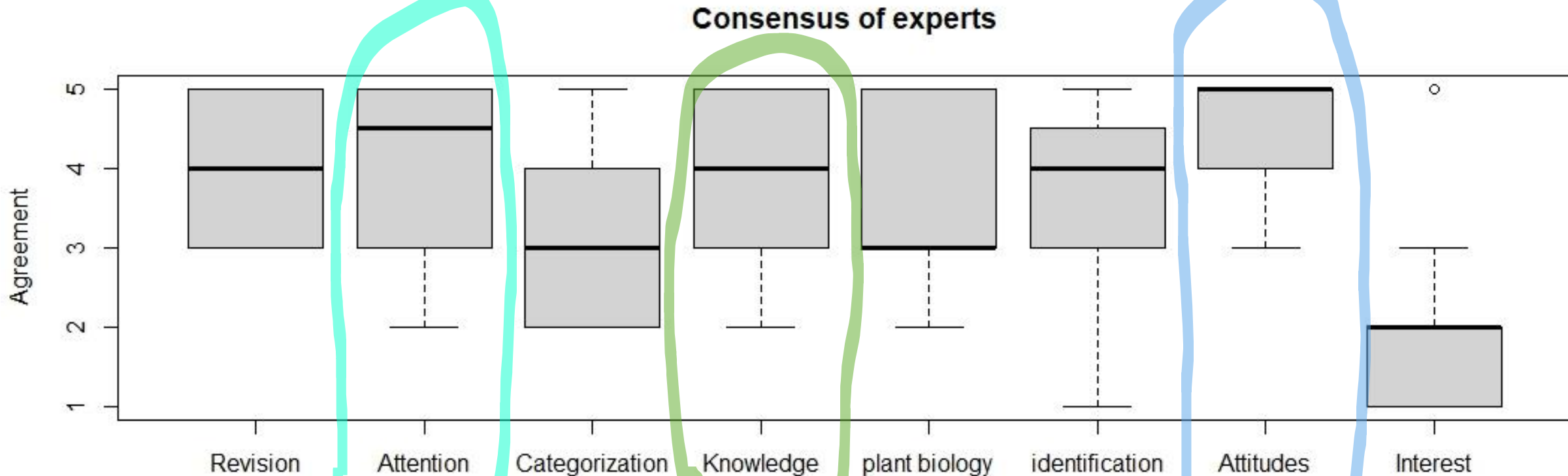




# Need for revision

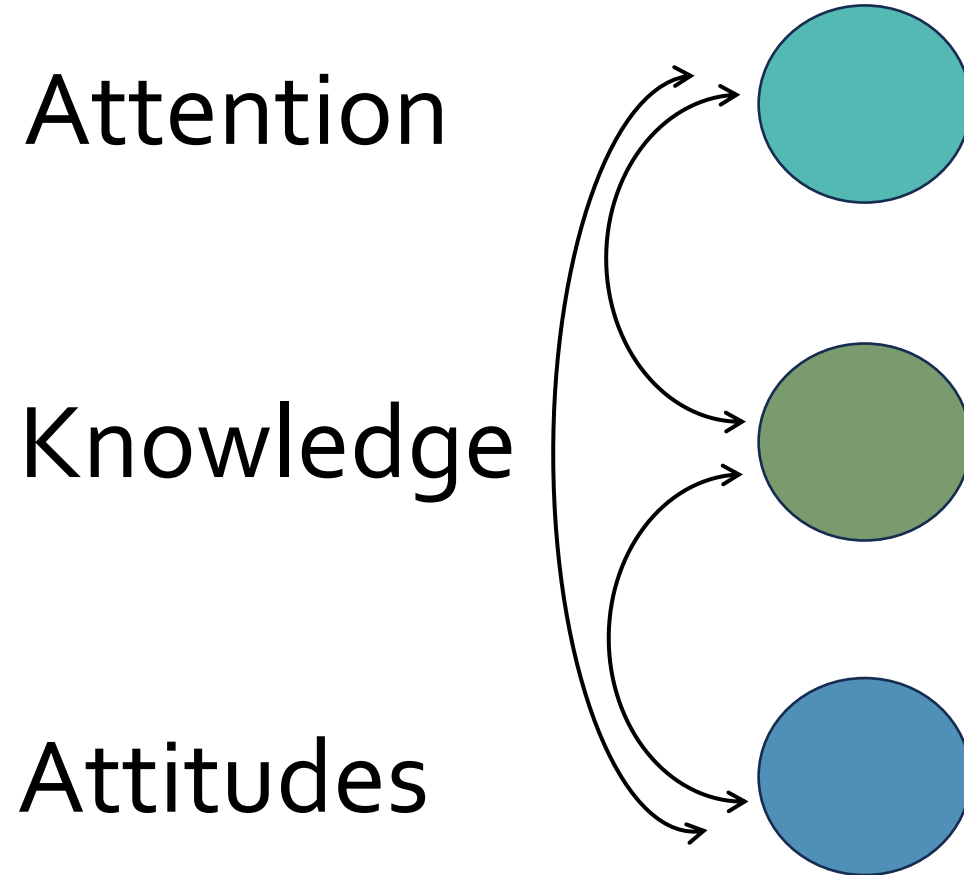


# Domains



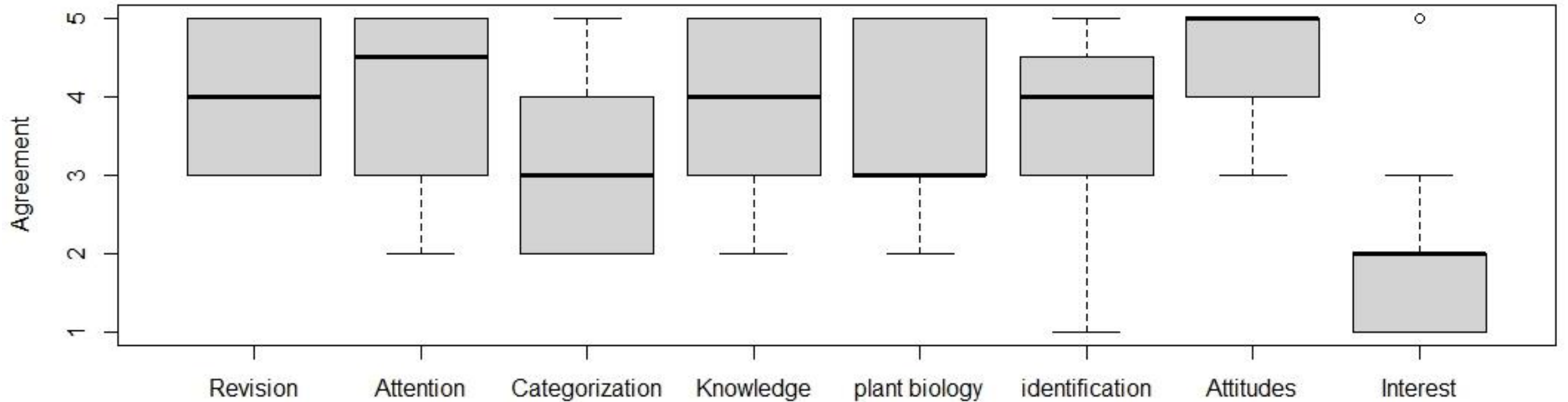
Ignore

# Proposed domains

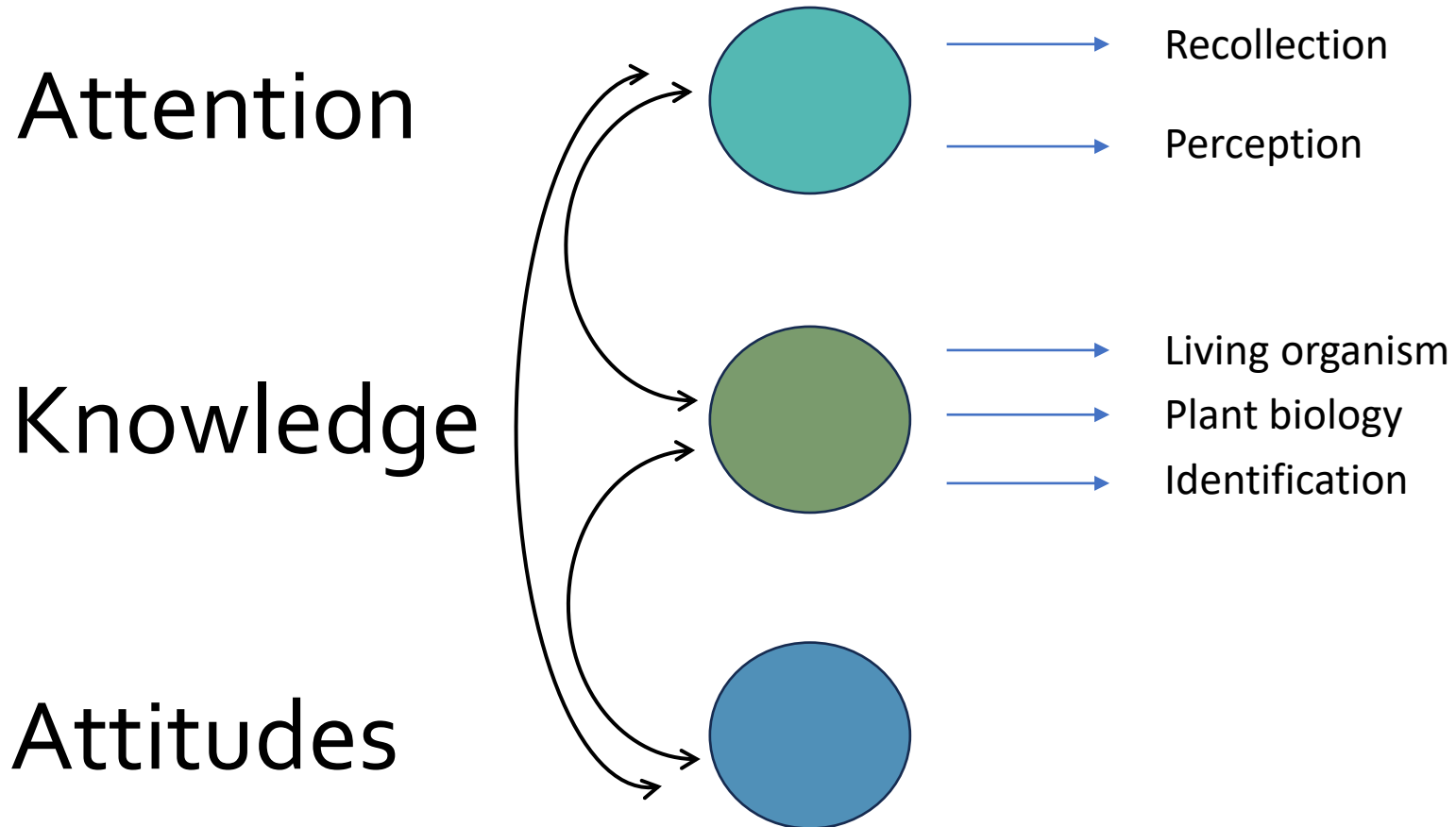


# Aspects

Consensus of experts

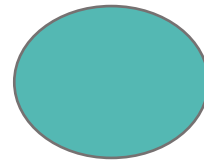


# Proposed domains

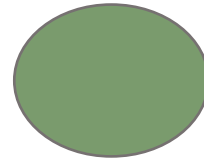


Plant Awareness is a multidimensional construct that reflects the level of someones perception, understanding, and valuation of plants.

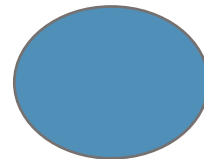
Attention



Knowledge

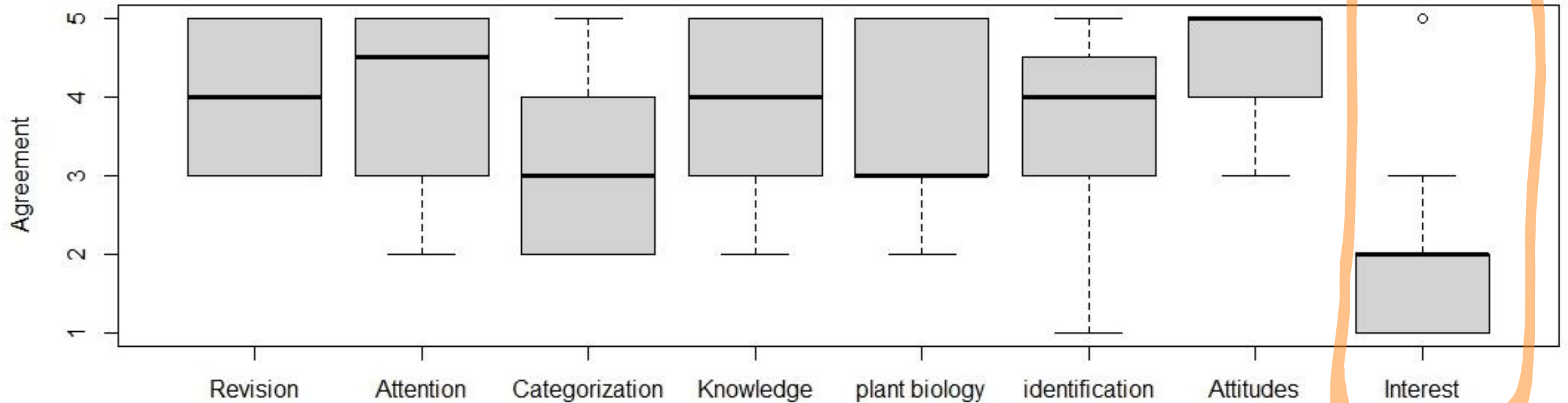


Attitudes



# Interest

Consensus of experts





*“I'm not really **interested** in plants, but I find them **beautiful**, and they also have an **important influence**, e.g. for the **production of O<sub>2</sub>**. In my spare time, however, I don't deal with it intensively.”*

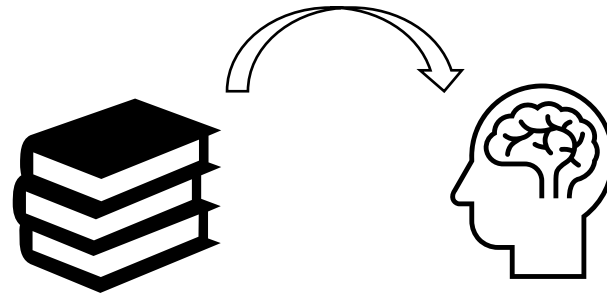
*Observation, Interviewee 309*

(Dünser, revised)

# Clues

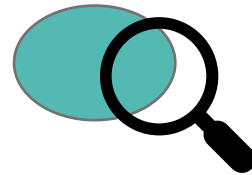
We define Clues as tools helping knowledge transfer, raising the level of a domain

Interest



Learning  
motivation

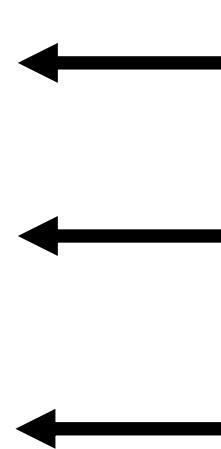
Attention



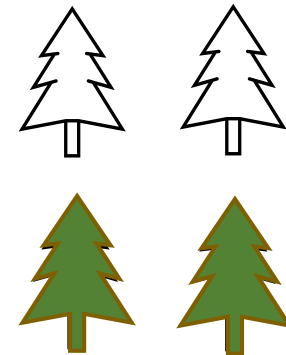
Knowledge



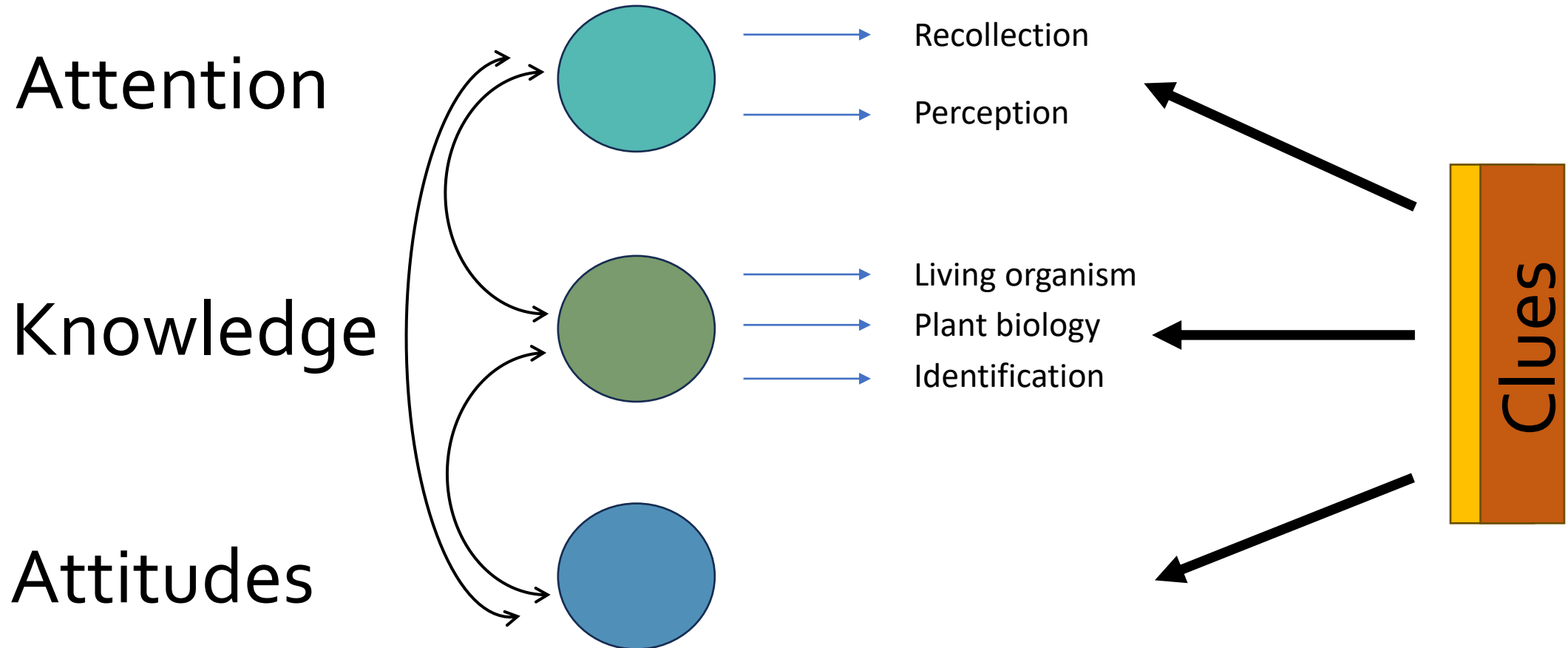
Attitudes



Clues



# Proposed construct



**So is this a guessing  
game?**



# Testing the construct with our proposed tool



# Attention



Picturepuzzle



Click on plants and objects made from plants

# Knowledge

## Categorization as living organism

	bacteria	plants	animals	fungi (Mushrooms)	Does not apply to any of the groups
Can move in a variety of ways.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Consist of one or several cells.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Uptake nutrients, convert them and release unneded substances.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
React to their environment (are irritable).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reproduce (multiply).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pass on characteristics (traits) to their offspring.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are capable of growing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Can get sick.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



# Knowledge

## Plant Identification

5. The plant in the picture is a



Check the correct answer.

- Marguerite (oxeye daisy)
- Daisy
- Dandelion
- Red clover

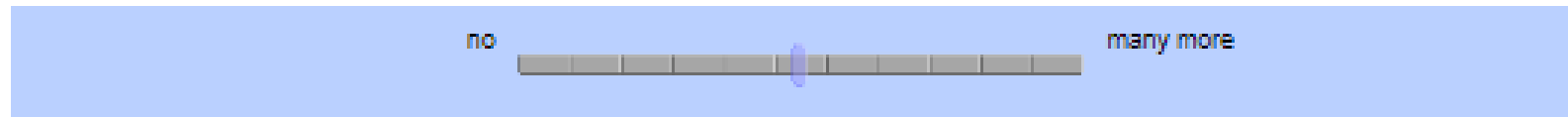
7. Which of the following pictures shows a dandelion?

Check the correct answer.



# Attitudes

17. I would like to have ..... plants in my immediate environment (e.g. home or school).



# Interest: FEIN-Questionnaire (Pany, 2016)

***How interested are you in learning about the following?***

Not interested   rather not interested   rather interested   very interested

1. In which countries vegetables (e.g. tomatoes) grow naturally
2. Plants used to produce narcotics
3. Plants used to cure inflammations (e.g. a sore throat)
4. Parts of plants used to produce oregano, chili or caraway
5. Plants for decorating my room

<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

