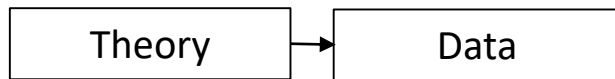


FORMULATING A PROBLEM STATEMENT & RESEARCH QUESTIONS

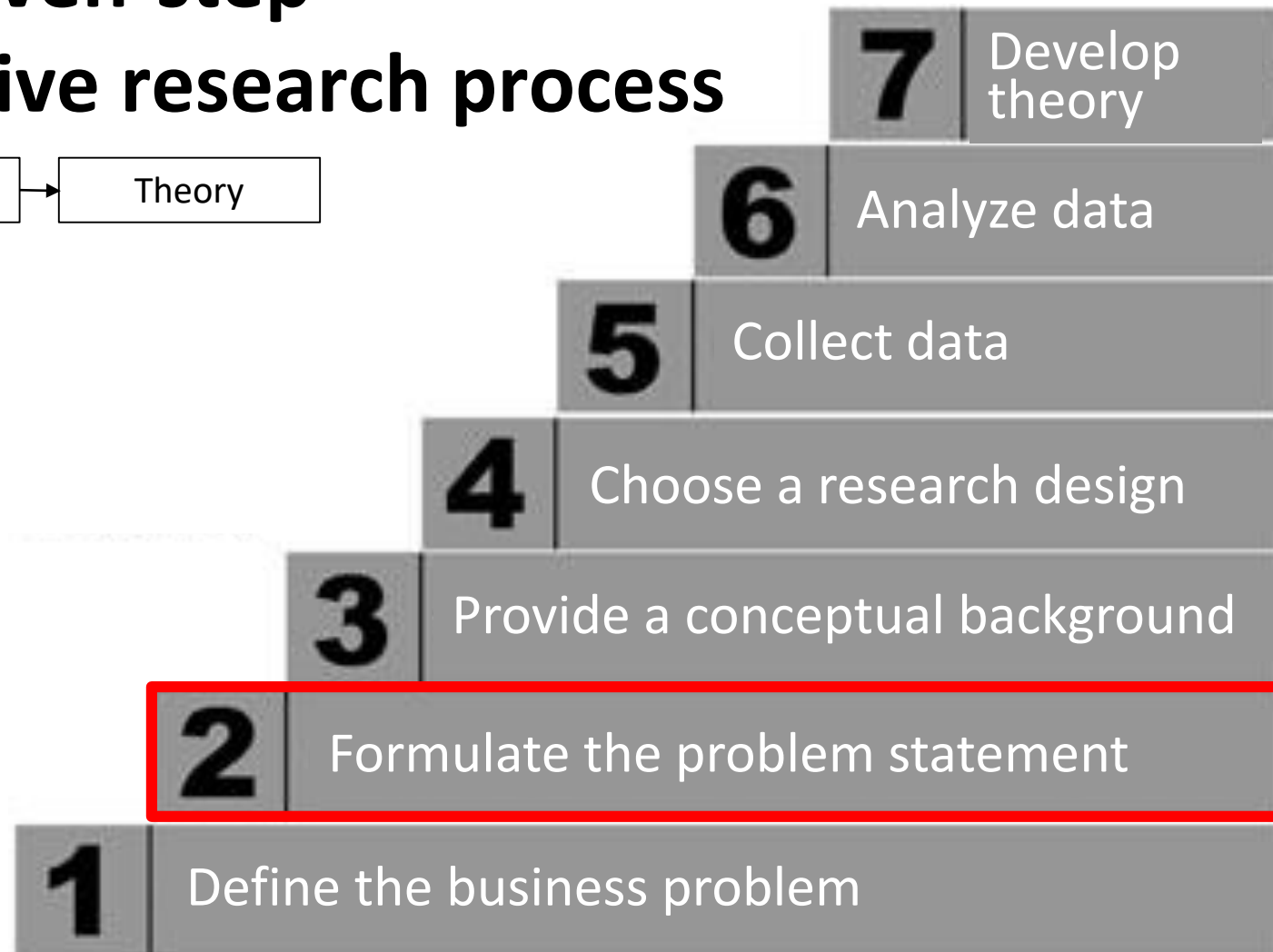
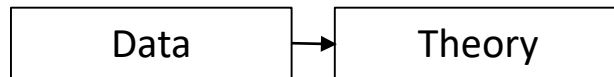
BUSINESS RESEARCH



The seven-step **deductive** research process



The seven-step **inductive** research process

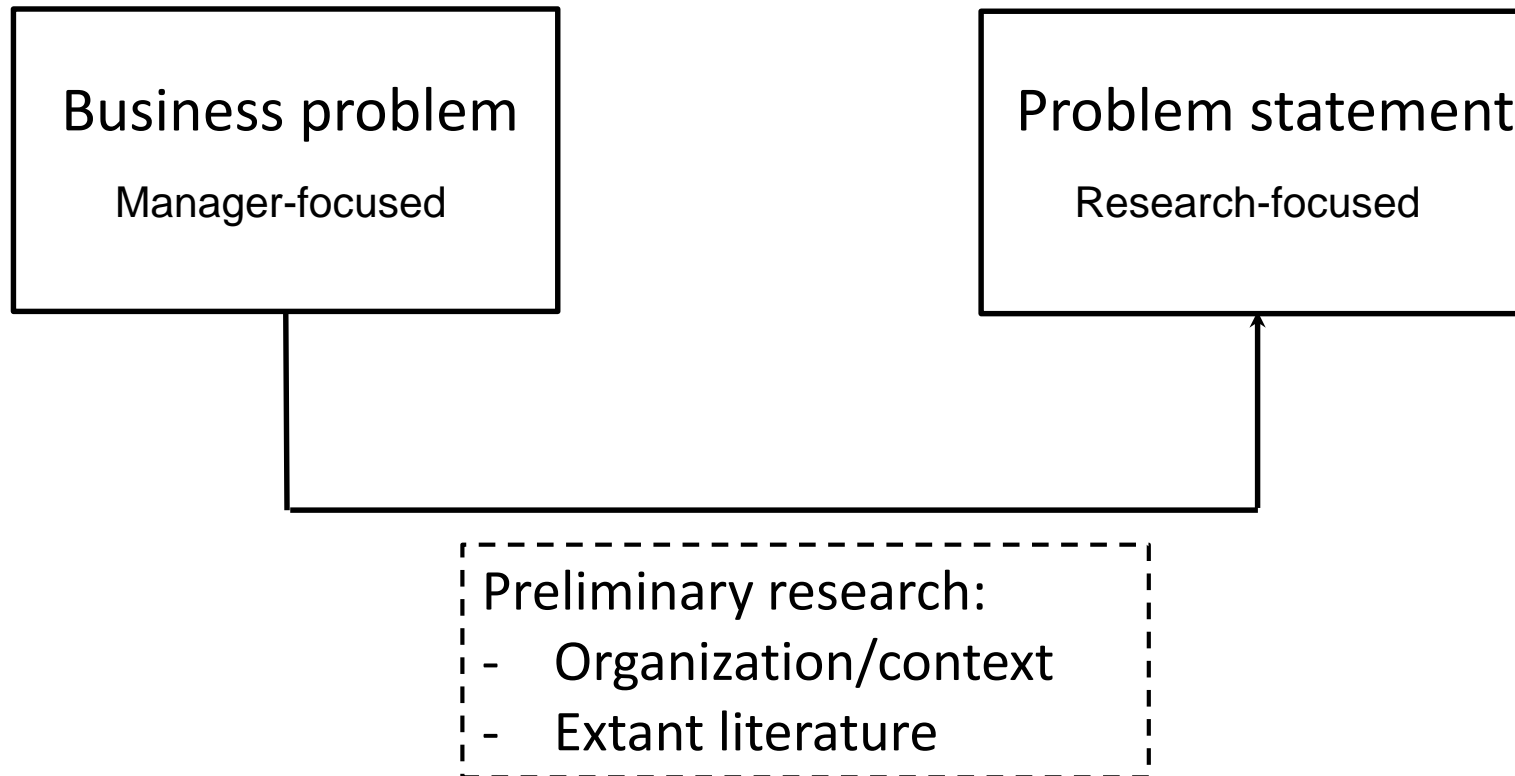


Agenda

- What makes a good problem statement?
- What makes good research questions?

1. What makes a good problem statement?

From business problem to problem statement



Example

- Business problem:



Ahold and Delhaize have merged. Several employees of Delhaize have taken on an unmotivated attitude. Ahold-Delhaize would like to know whether communication by the CEO can help to increase employee morale.

- Problem statement:



To what extent does the CEO's communication style after the merger increase employee morale, and to what extent does this effect depend on employees' pay package?



What makes a good problem statement?

- ☐ Formulated in terms of
 - ☐ variables, and
 - ☐ relations
- ☐ Open-ended question
- ☐ Stated clearly/unambiguously

[Is managerially and academically relevant]

Example

- Problem statement:



To what extent does the **CEO's communication style** after the merger increase **employee morale**, and to what extent does this effect depend on **employees' pay package**?

- ☐ Formulated in terms of
 - ☒ **variables**, and
 - ☐ relations
- ☐ Open-ended question
- ☐ Stated clearly/unambiguously

[Is managerially and academically relevant]

Example

- Problem statement:



To what extent does the CEO's communication style after the merger **increase** employee morale, and to what extent **does this effect depend on** employees' pay package?

- ☐ Formulated in terms of
 - ☐ variables, and
 - ☒ **relations**
- ☐ Open-ended question
- ☐ Stated clearly/unambiguously

[Is managerially and academically relevant]

Example

- Problem statement:



To what extent does the CEO's communication style after the merger increase employee morale, and **to what extent** does this effect depend on employees' pay package?

- ☐ Formulated in terms of
 - ☐ variables, and
 - ☐ relations
- ☒ **Open-ended question**
- ☐ Stated clearly/unambiguously

[Is managerially and academically relevant]

2. What makes good research questions?



What makes good research questions?

- ☐ Should collectively address the problem statement
- ☐ First theoretical, then practical research questions
 - In the same order as they will be addressed in your research report!
- ☐ Stated clearly/unambiguously

Theoretical research questions

- Context question (*e.g.*, “What is ...”)
 - Only if context needs elaboration
- Conceptualization question(s) (*e.g.*, “What is”)
 - Only for the key variable(s) that need(s) elaboration
- Relationship questions (*e.g.*, “Which variables ...”;
“How does ... affect ...”
“How does the effect of ... on ... depend on ...”)
 - All relationships in the problem statement should be covered

Theoretical research questions: Example

- Problem statement:



To what extent does the CEO's communication style after the merger increase employee morale, and to what extent does this effect depend on employees' pay package?

- Theoretical research questions:
 - What is the effect of a merger on employee morale?
 - Which different communication styles can be used by a CEO after a merger?
 - How does a CEO's communication style after a merger influence employee morale?
 - How does the effect of CEO communication style on employee morale after a merger depends on employees' pay package?

Practical research questions

- Relationship questions (*e.g.*, “*To what extent ...*”)
 - To what extent does X affect Y?
 - What is the (relative) magnitude of the relations?
- Implication question
 - How can practitioners implement your results?
 - Open question

Practical research questions

- Theoretical research questions:
 - What is the effect of **a** merger on employee morale?
 - Which different communication styles can be used by **a** CEO after **a** merger?
 - How does **a** CEO's communication style after **a** merger increase employee morale?
 - How does the effect of CEO communication style on employee morale after **a** merger depend on employees' pay package?
- Practical research questions:
 - To what extent does **the** CEO's communication style after **the Ahold-Delhaize** merger increase employee morale?
 - To what extent does the effect of CEO communication style on employee morale after **the Ahold-Delhaize** merger depend on employees' pay package?
 - Does CEO communication after **the** merger help **Ahold-Delhaize** to increase employee morale, and should the same communication style be used for employees with different pay packages?

Final notes

- The problem statement is the general question you try to answer in your research.
- Research questions help to answer the ‘overarching’ problem statement, step by step.
- Drawing up a problem statement and research questions is difficult and time consuming, but oh-so-important. They determine the contents and the structure of your research report.

Wise words to remember

