



# Systematic monitoring of skill requirements for the design of vocational training

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Bonn, 08. September 2022

## Introduction

**Duration of the project:** January 2022 until December 2024

**Team:** Dr. Inga Schad-Dankwart, Dr. Uwe Neugebauer, Dr. Hannelore Mottweiler, Miriam von Kiedrowski, Thomas Felkl, Markus Bretschneider, Tanja Brungs

### **Key questions of the presentation:**

- Why do we run the project, with which aim?
- How can this help to identify changes in VET?
- What is the significance of the project for the design of training regulations?

## Agenda

1. Motivation and Intention
2. Methodology
3. Reasons for adjustment
4. Identification of indicators – next steps

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## Motivation and Intention

### Early identification in skills research means:

- Identification of ongoing changes
- Analyses of the effects on work

### Focus in the project:

- Identification of those effects, which lead to an adaptation in curriculae
- Development of measurable indicators as a basis for systematic occupational monitoring

## Motivation and Intention

### Main Questions:

1. Which factors lead to a need of adaptation and can be used as indicators?
2. How can these indicators be measured?
3. At what intervals should these indicators be monitored?

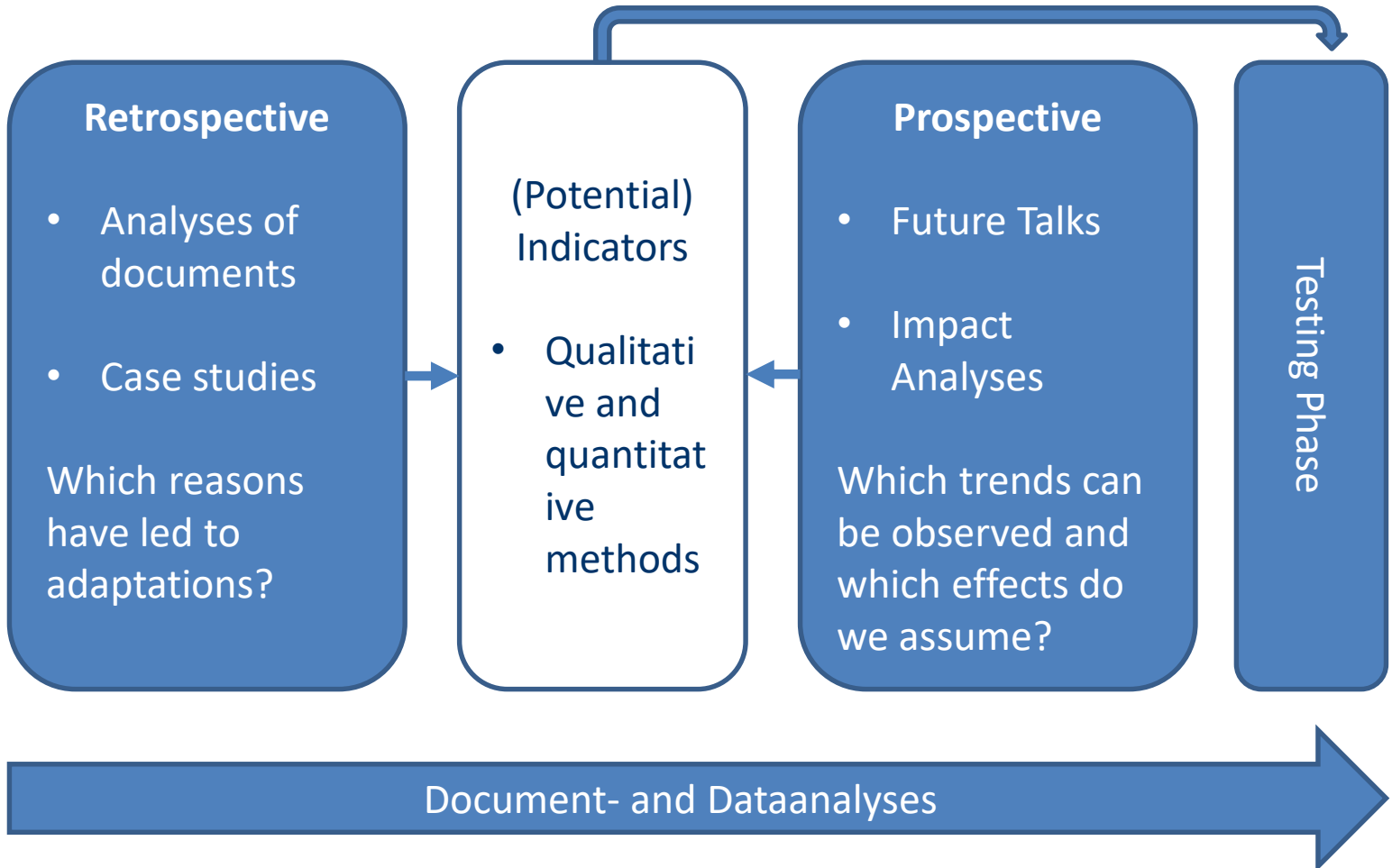
### Aim:

Preparing of job-specific information „on demand“

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## Methodology





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## Reasons for adjustment – document analyses

### Protocol of application discussion

- Very long
- With a lot of information exceeding reasons for adjustment

### Project application

- Reasons are mentioned
- Kind of summary of the application discussions

### directive

- Formal character
- Very few content

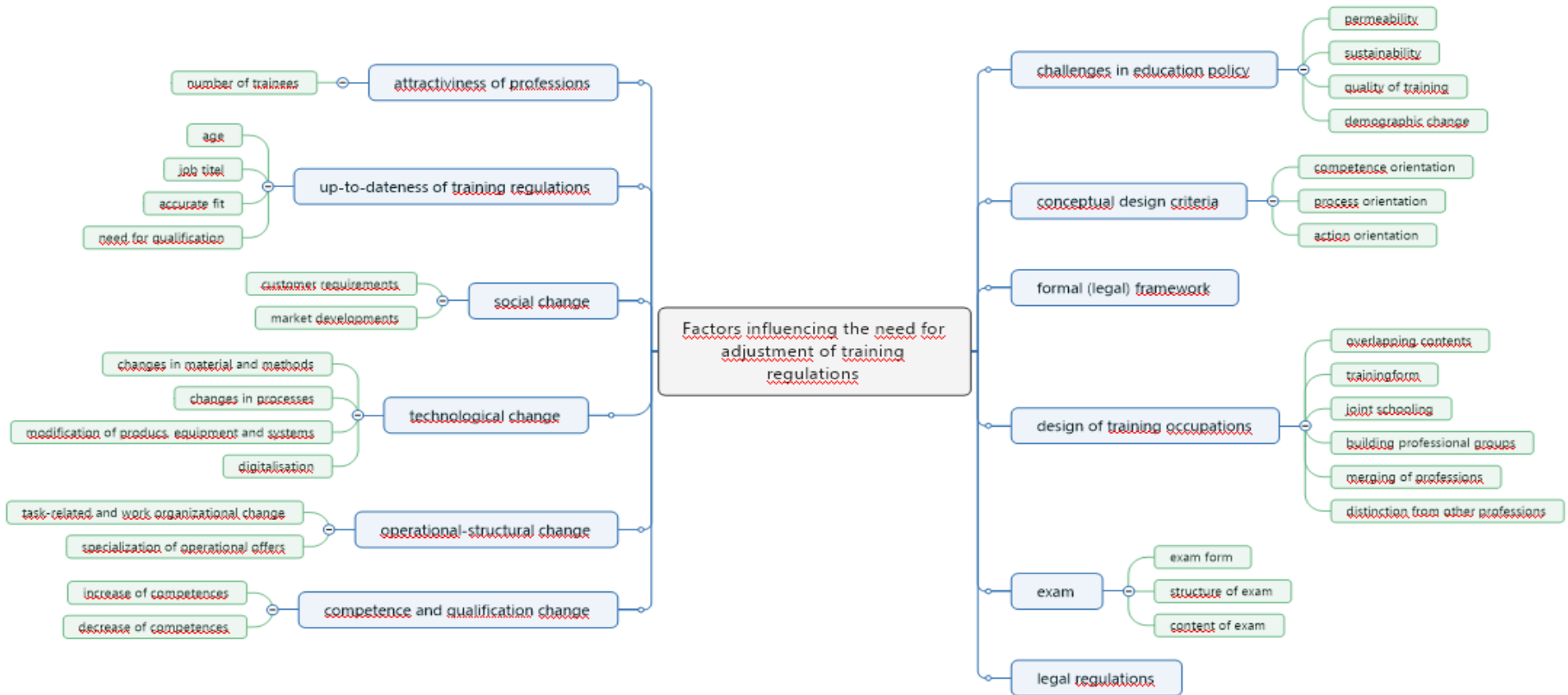
Quelle: eigene Darstellung

## Reasons for adjustment

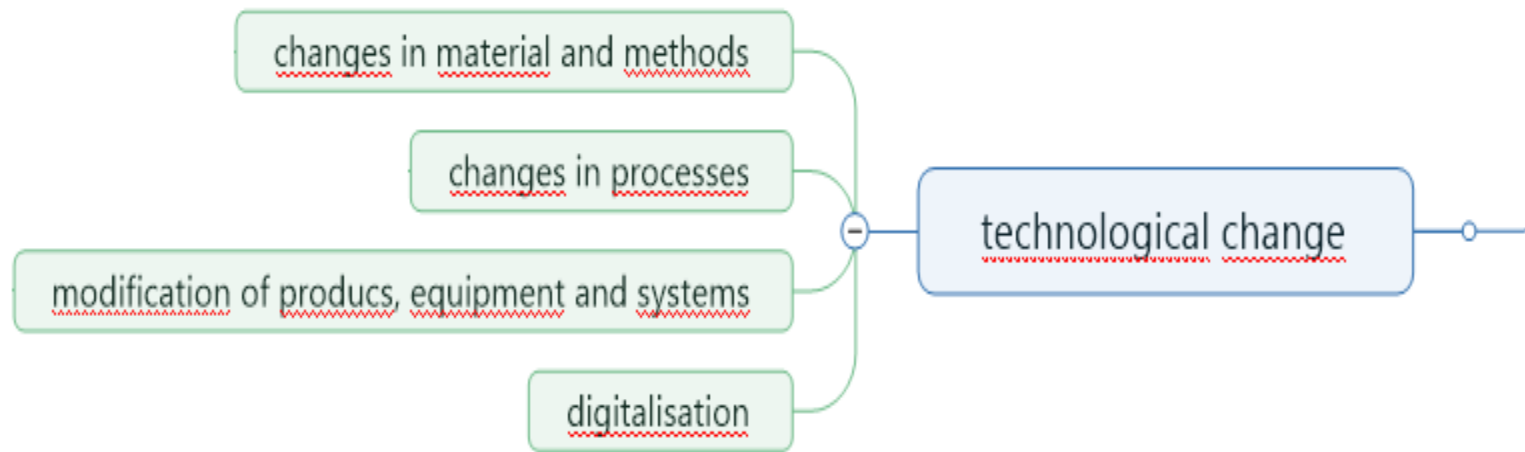
Database:

- Period: 2010-2021
- Applications of 141 regulatory processes
  - 136 adjustments
  - 5 creation of new professions
- Development of the categories from the material
- Assignment of the text passages

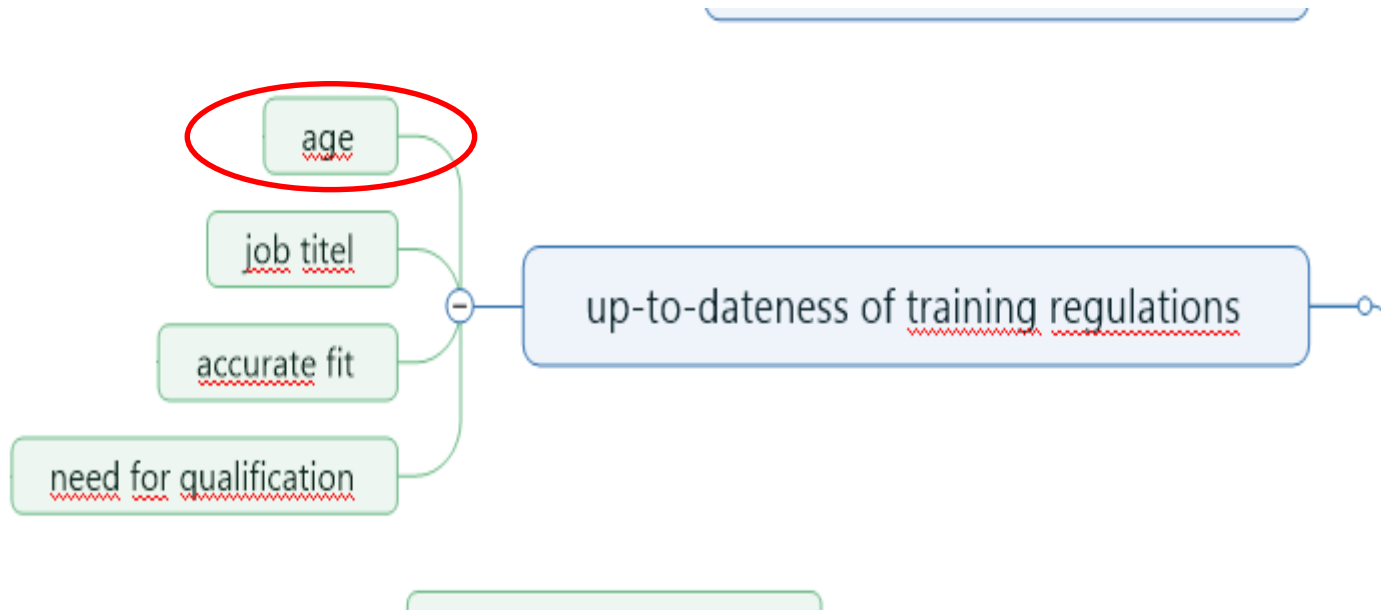
# Reasons for adjustment



## Reasons for adjustment



## Reasons for adjustment



## Reasons for adjustment

### Step-by-step procedure for determining relevance

Is „age“ an indicator for adjustment?

- Calculation of validity: Example Optometrist: average (2022-2011; 2011-1997; 1997-1976; 1976-1969; 1969-1934) = 18 Jahre.
- Mean value of the currently valid training regulations: 16 Years
- But: There are huge differences between the ages of training regulations.

## Reasons for adjustment

„Age“ is often called as a reason for adjustment in documents:

- But there is no significant difference in the average validity of those regulations mentioned in the code „age“ and those which are not mentioned.
- Age alone is not an indicator for adjustment

**Observations and analyses of interrelations and the effects are necessary!**



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## Identification of indicators

### Assumptions:

- Not every reason is an indicator for adjustment.
- The relevance of the (single) reasons for adjustment increases when they occur in relation to other reasons.
- The relevance of an identified indicator differ from occupation to occupation

## Identification of indicators

### Next steps:

- We need to find a way to measure/operationalize the codes,
- we need to identify the relevance of the single reasons,
- We need to identify relevant interrelations.

Questions?

Recommendations?