

## DIARKAZ Workshop WP 2.2.

### Teaching Methodology Module 1

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# Workshop Module 1

## Envisaged Competences

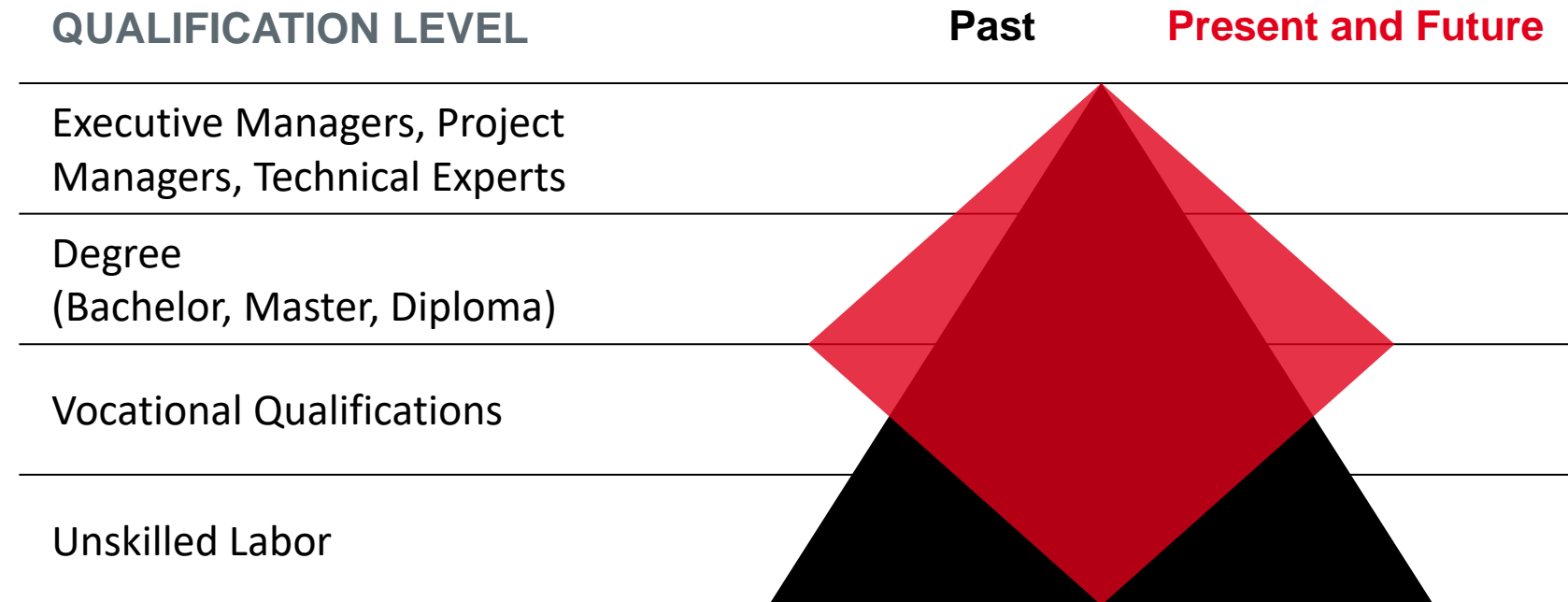
### and adapted Teaching Methodologies for Dual HE

Situation:

- new fields of action in the corporate sector
- process of change in many industries
- knowledge becomes outdated rapidly
- various skills required
- entrepreneurial mindset is needed

→ what can be expected of students and job-starters?

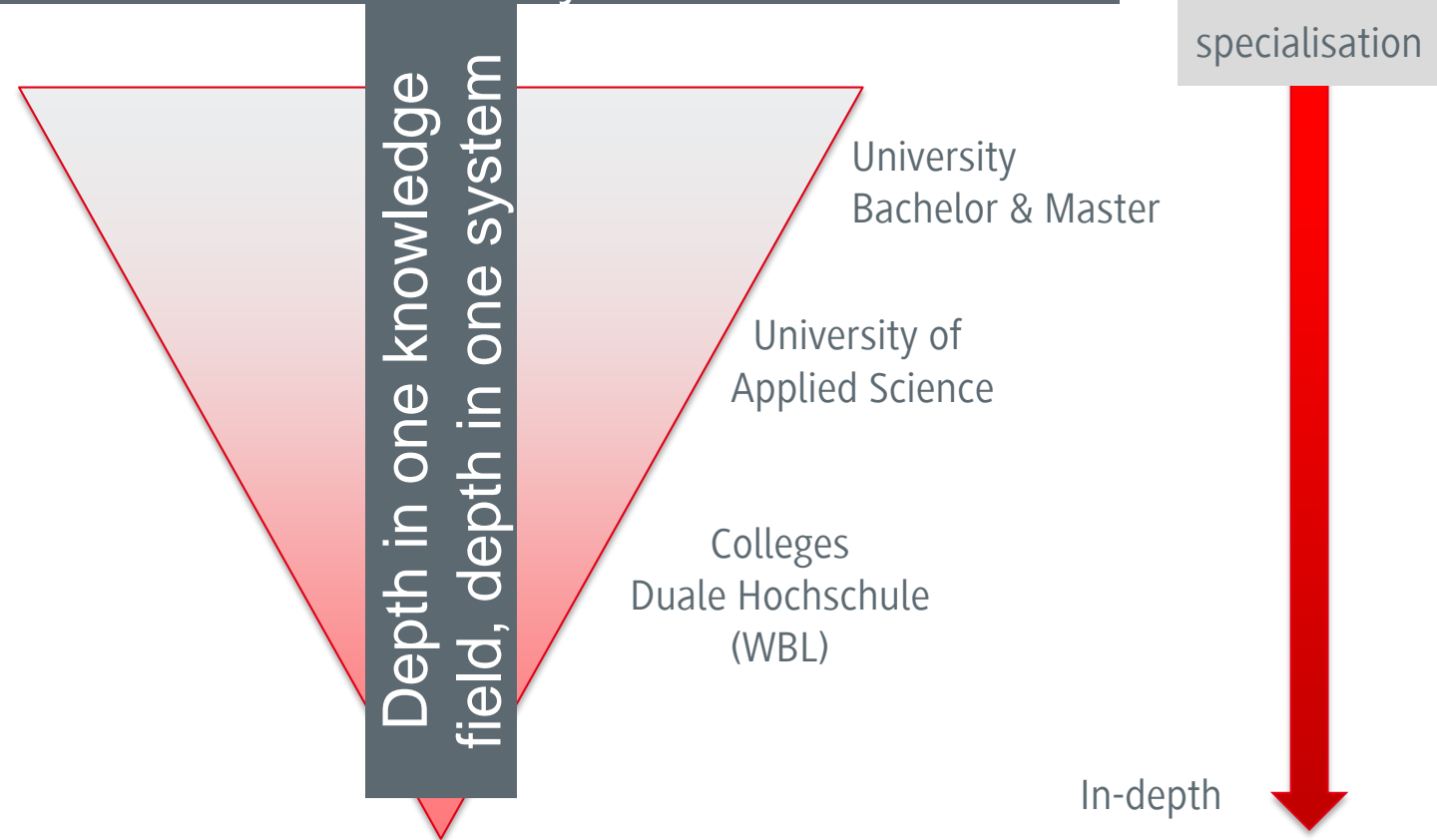
# Shift in Qualification demand:



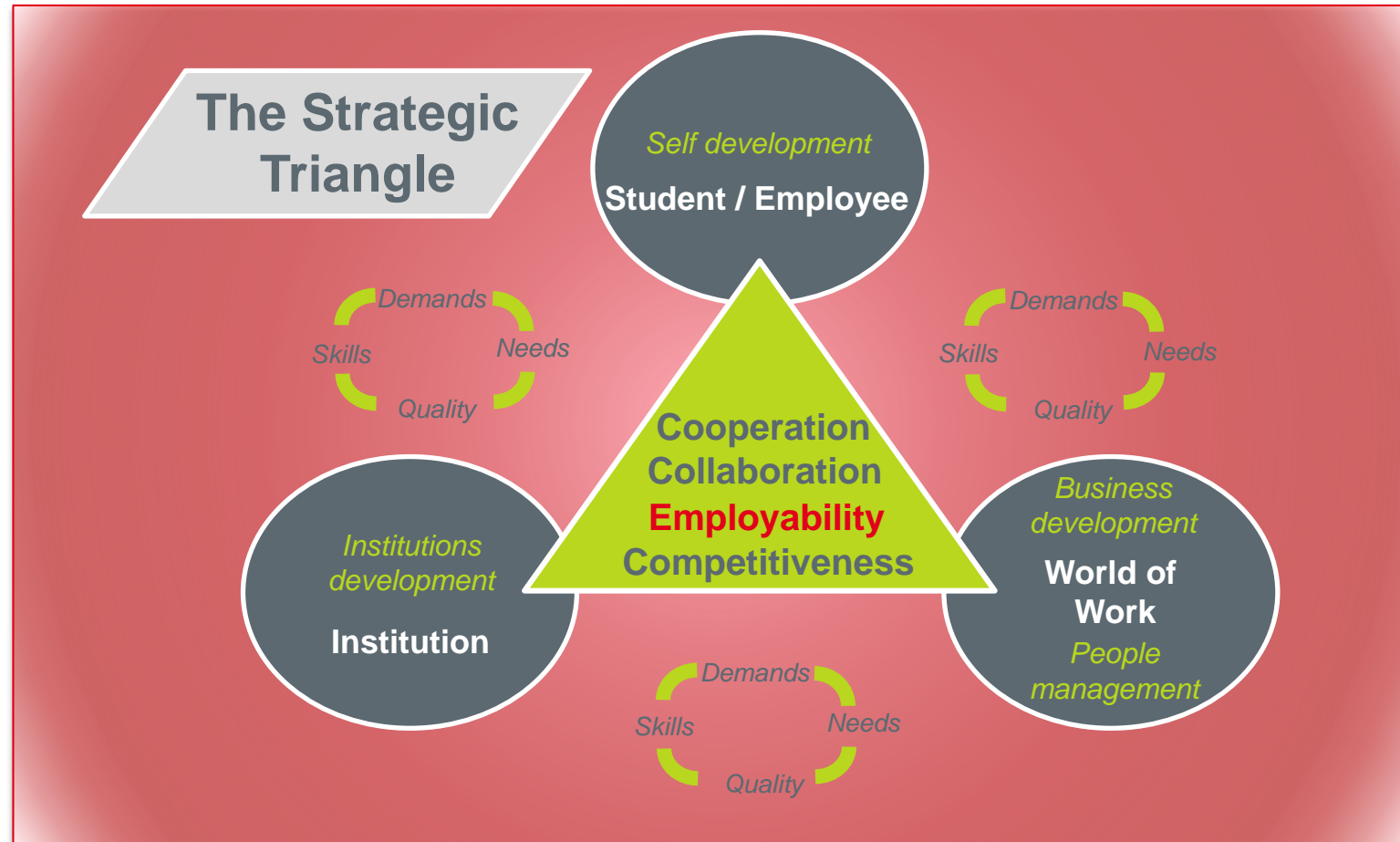
\* Source: Prof. Matthias Landmesser. *Challenges of the Academic Further Education from the Corporate Perspective*. KIT, March 2013.

# T-Shaped Professionals needed

Ability to act successful across disciplines,  
contexts and systems



# Focus: „Employability“



# What is graduate employability?

‘...a **set of achievements** – skills, understandings and personal attributes – that makes graduates more likely **to gain employment** and **be successful** in their chosen occupations, which **benefits themselves**, the **workforce**, the **community** and the **economy**.’

*(Prof. Mantz Yorke, 2004)*

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# Chance & Challenge of Dual HE:

connect **theoretical** dimension  
with the **practical** dimension

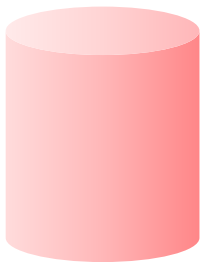


- analytical scientific thinking
- skills transfer into real work situation
- problem solving

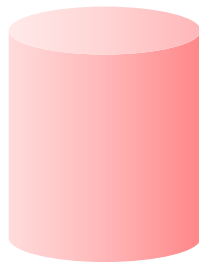
in addition to subject-specific knowledge

At DHBW, holistic **dual teaching**

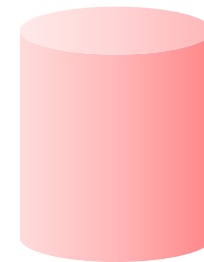
- **is competence-oriented**
- builds and develops **knowledge, skills and attitudes**
- aims for empowering students to gain the comprehensive **ability to decide, organise and act → employability**



knowledge



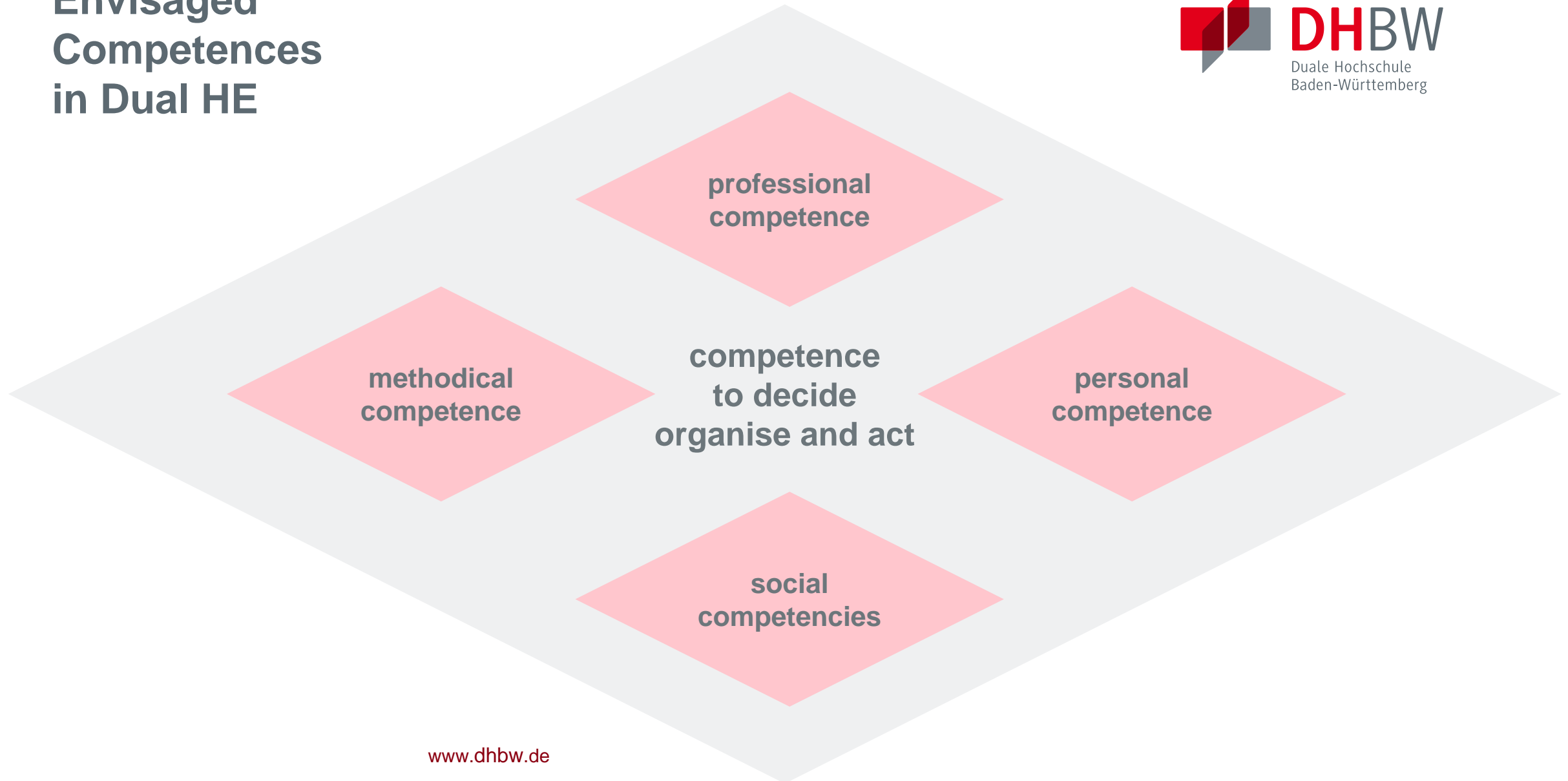
skills



attitudes




# Envisaged Competences in Dual HE





**professional  
competence**

- subject and industry related
  - knowledge & understanding corresponds with state of relevant literature
  - specialist knowledge is based on the latest developments in research
  - **core elements:**
    - \* comprehensive knowledge in study subject
    - \* critical understanding
    - \* evaluation of applicability of theories in practical cases
- expanded by practical experiences in the **Dual partner company**, e.g.
- understanding organisational structures, products, measures & processes
  - familiarity with relevant legal frameworks of the business sector



**methodical  
competence**

- procedures, methods and tools are used for exploring a subject topic with scientific methods
  - broad range of experience with methods and tools
  - **core elements:**
    - \* technical and practical selection of methods and tools
    - \* assessment and evaluation of practicability and limits
    - \* world of work or lab experience with methods and technology
- implemented at the **Dual partner company**, e.g.
- application of approaches and methods related to respective industry
  - development of concepts and planning,  
combined with solid project management



- high reflexivity and ability to deal with change in complex situations
  - autonomous adaption of own knowledge and skills according to existing challenges and requirements
  - **core elements:**
    - \* personal learning capability & reflexive work process
    - \* autonomous and self directed exploration & determination of appropriate solutions
    - \* creativity and incentive for advancement and innovation
- realised with the **Dual partner company**, e.g.
- world of work requires e.g. diligence, sense of duty or constructive criticism
  - responsibility for new tasks and projects & sovereignty in dealing with failure
  - keeping work-life balance



**social  
competencies**

- assumption of responsibility in teams
  - contribution to group attainment by co-operative conduct
  - **core elements:**
    - \* valid and reasonable argumentation
    - \* visualisation of discords and conflicts of objectives as well as promoting their resolution
    - \* reflection of social, ethical, societal and ecological implications
- experienced, practised and internalised at the **Dual partner company**, e.g.
- successful team co-operation
  - proficient handling of conflict situations & intercultural challenges
  - consideration of social, ethical and ecological aspects in workplace

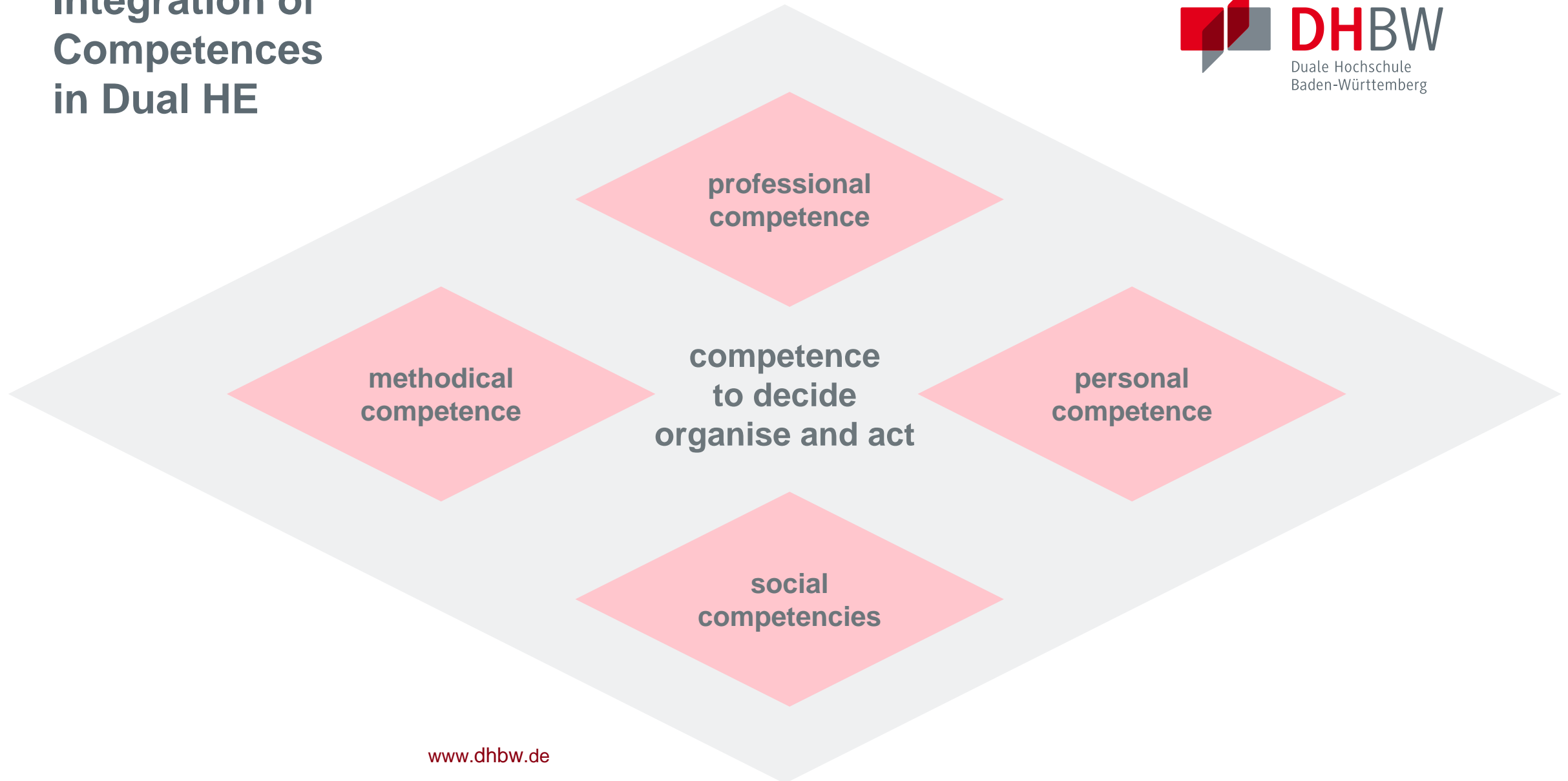
graduate's **competence to decide, organise and act** in real work environments

- **use of theoretical knowledge** as well as **reflected experiences**, in order to **react adequately** to social professional situations **with authenticity and success**

- ability to perform
  - \* **self-responsibility** and (entrepreneurial) **initiative**,
  - \* assessment & **evaluation of applicability** of theories or models in practical tasks
  - \* **reflection on suitability and transfer** / application in **real work situations**

➔ realised at the **Dual partner company**: successful **acting in complex situations** with continuously changing requirements possibly in varying teams

# Integration of Competences in Dual HE

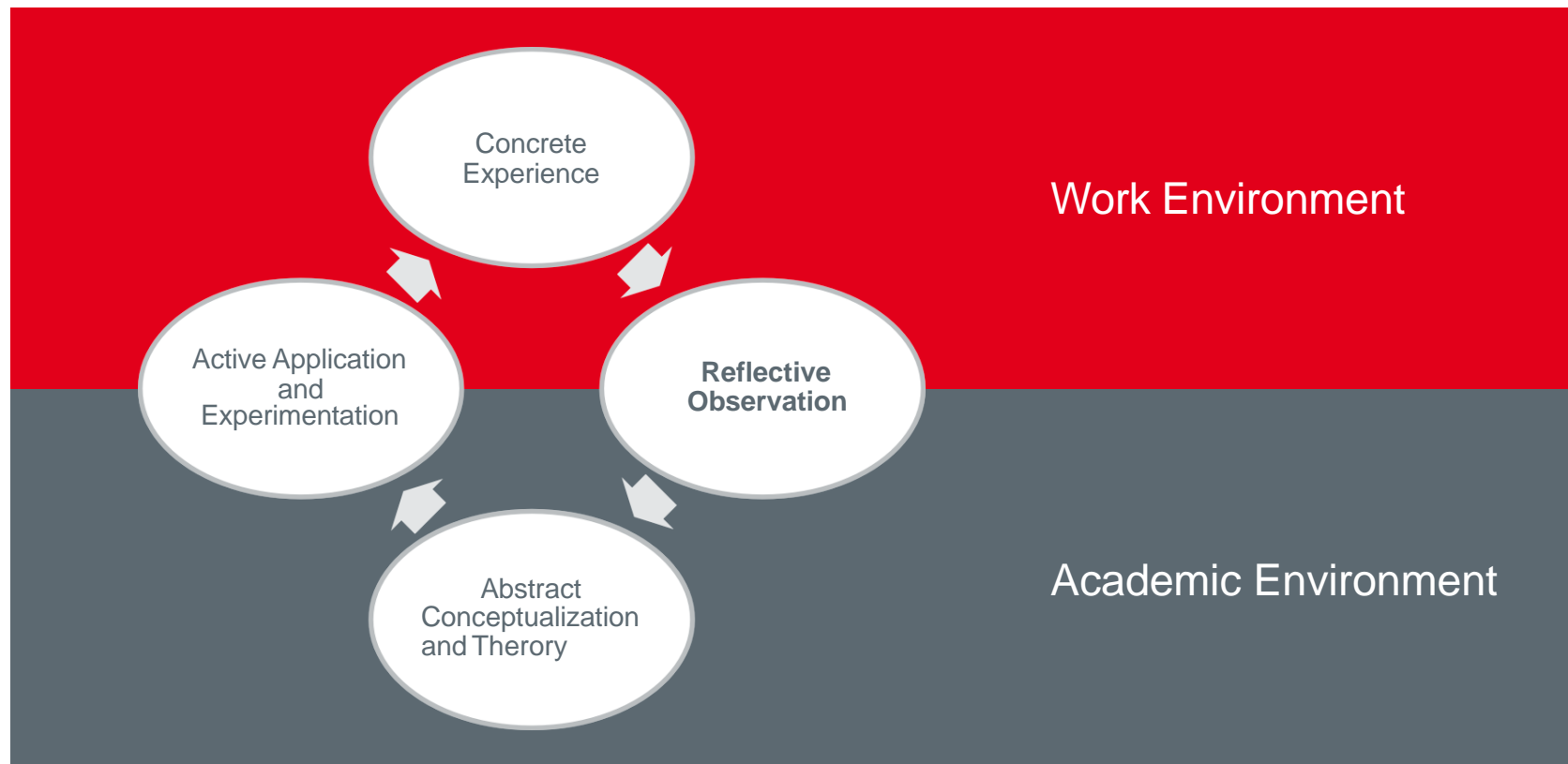


The **overall aim of Dual HE teaching** is to

- reveal the **potential** of the student
- impart and enhance **competences**
- develop the **personality** of the student
- create **perspectives** for a fulfilling professional occupation  
(with sustainable remuneration)

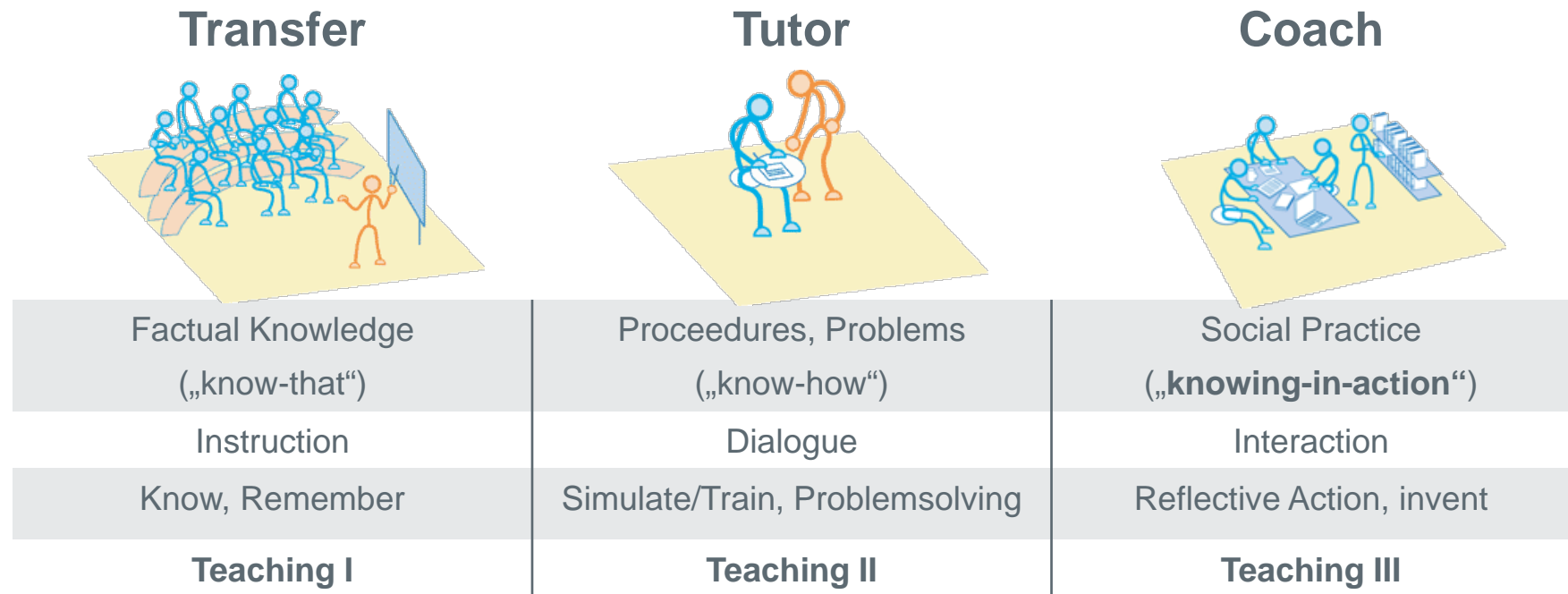


# DHBW TEACHING AND LEARNING MODEL



\* Kolb, D. (1984). Experiential Learning: experience as the source of learning and development. Englewood Cliffs, NJ: Prentice Hall. p. 21

# Are we fit for challenges in Professional Higher Education?



(Baumgartner 2004)

*Focus on Theory*

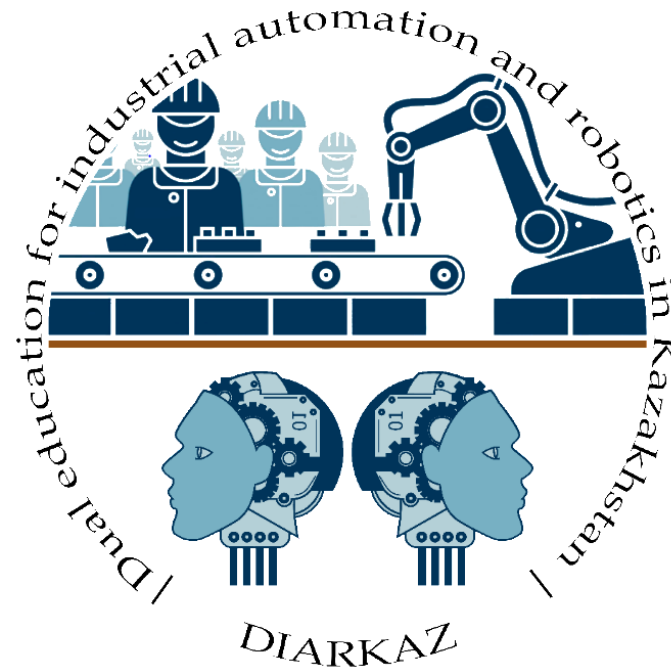
*Focus on  
Practice and Competence*

# Focus of Dual Teaching at DHBW



four features which complement or substitute ideas of classical academic teaching at universities:

1. Teaching by **Experts from company partners** (lecturers)
2. Teaching in **Laboratories** and **Learning Factories**
3. Quality assured **Practical Learning at real workplaces** with company partners \*
4. **Practical** real world **Project Studies** and **Bachelor Thesis**



more about DIARKAZ: <http://diarkaz.kineuprojects.kz/>  
and more about DHBW: [www.dhbw.de](http://www.dhbw.de)

email: [ursula.goez@heilbronn.dhbw.de](mailto:ursula.goez@heilbronn.dhbw.de)

**Thank you  
for your attention!**

