





# From an exam-oriented approach to an education-oriented approach

#### a paradigm shift

Jan Jurgen Huizing, director of operations CBR

Jeanine Treep program manager CBR

CBR, Netherlands

## **CBR overview**







#### Founded September 1st 1927



55 exam centres,

20 in combination with Theory





1.600+ employees:

635 examiners + 80 examiners professional exams

128 employees theoretical exams

- 173 medical professionals
- 166 customer service employees
- 202 IT employees



### **CBR** overview

2023: more than 1,7 million exams and tests





**791.269 theoretical exams** motorcycle, car and moped



**595.760** practical exams car, motorcycle, trailer, moped and microcar



**157.487** professional theoretical exams including tractor, taxi, bus, truck, dangerous goods, inland shipping, aviation



**53.055** professional practical exams including tractor, taxi, bus and truck



105.966 intermediate tests

754.781 practical exams and tests

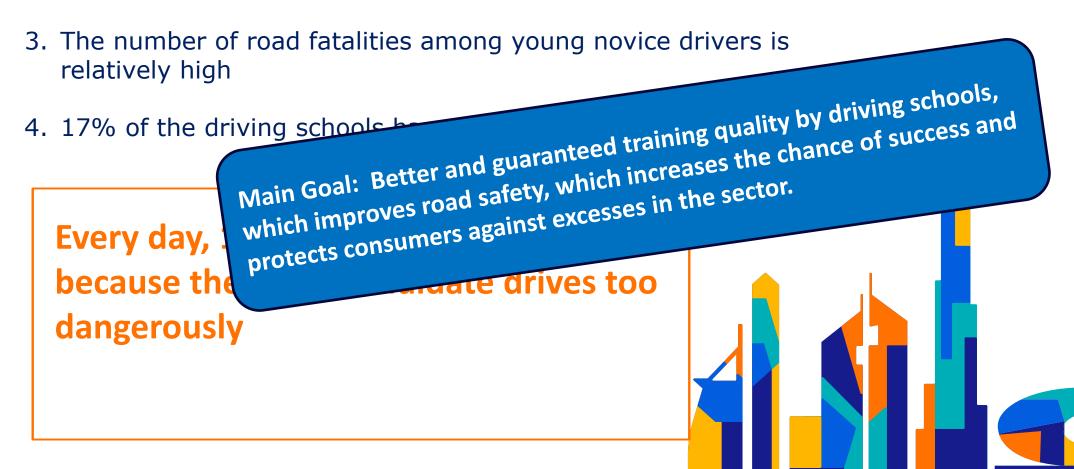


### The Dutch context





- 1. 7000 driving schools; average pass rate 50%
- 2. Regular abuses in the driving license training industry

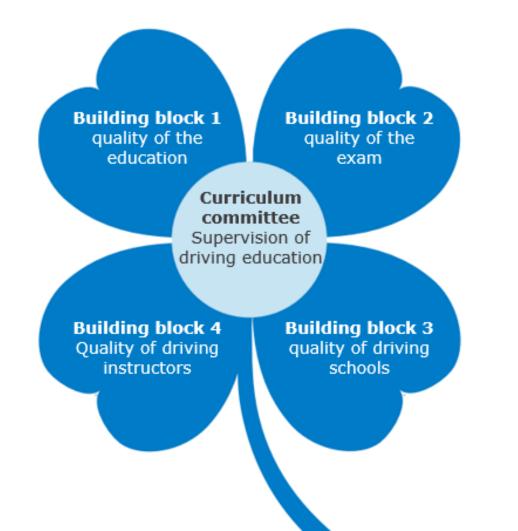


### Summary of the Roemer Report, drivers licence B





**19 measures summarized in 4 building blocks** 



What does this mean:

- Compulsory curriculum for driving license B
- Compulsory curriculum for driving instructors
- Modular examination path with multiple exams
- Requirements for the operation of driving schools





### What will improve the quality of driving education?

- 1. A **mandatory** national curriculum, containing the learning objectives on higher order skills
- An embedded, corresponding and competence-ba 2.



# The challenges when it comes to competence based examination





- 1. Constructive alignment with the national curriculum (Biggs, 1996)
- 2. integration theoretical knowledge and practical skills
- 3. Testing Higher order skills must be part of the assessment program

Higher order skills are part of the <u>competency</u> of a novice driver.

Testing higher order skills cannot be sufficiently done in only one driving examen.

Therefore a competency-based examen program with multiple and different assessments is needed.

### **Competency profile novice driver B (1)**





**Description:** The novice driver is able to independently participate in traffic with a passenger car in complex traffic situations, safely, socially, responsibly and according to the rules. The novice driver knows how to choose the moment of departure and which route is best for him to drive. The novice driver has insight into which personal circumstances, weather conditions and traffic conditions he must take into account.

The core qualities of a competent novice driver are:

Driving

- 1. independently,
- 2. safely,
- 3. socially
- 4. responsibly

For each core quality we formulated **performance standards for driving** 

Core qualities + performance standards = **competency profile** 

### **Competency profile novice driver B (2)**







### Assessment rationale behind cbr competency based -examination



Which testing principles make learning more sustainable so, that it remains internalized after the exam and influences future behavior?

- a) A competency profile is the starting point, it is the base for what we want to see in a novice driver, who is ready to hit the road independently.
- **b) Cumulative testing**: assessments building up in complexity and repetition of previously learned
- c) The 4-eye principle: testing by both the trainer and the CBR
- d) A method mix: theory, practical tests, driving tests by trainer, effort obligations, criterion-oriented interview for feed forward

### Proposal: multiple embedded assessments



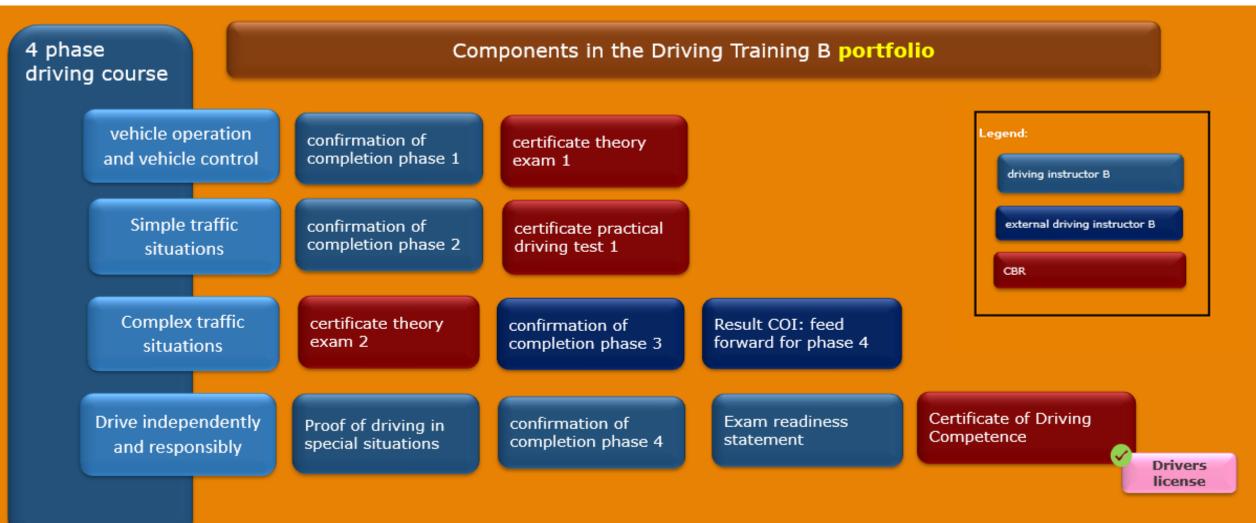




## **Portfolio: required components**











- Easier to pass, because it is much more manageable, smaller, we 1. expect a higher pass rate
- Due to the moment of administration, there is a direct link with the 2. practical lessons,
- Repetition makes the lesson material stick much better, as retention 3. research\* shows.

So even after obtaining a driver's license, it is expected that more knowledge will be retained in the memory.











- 1. Automated vehicle control is the basis for further driving training, but this is sometimes too easily dismissed in the training
- 2. the basics are already in order during the 2nd driving test, which makes the 2nd exam less exciting
- 3. The 2nd driving test clearly emphasizes independent, safe, social and responsible participation in traffic
- 4. We expect a higher pass rate





## THANK YOU