

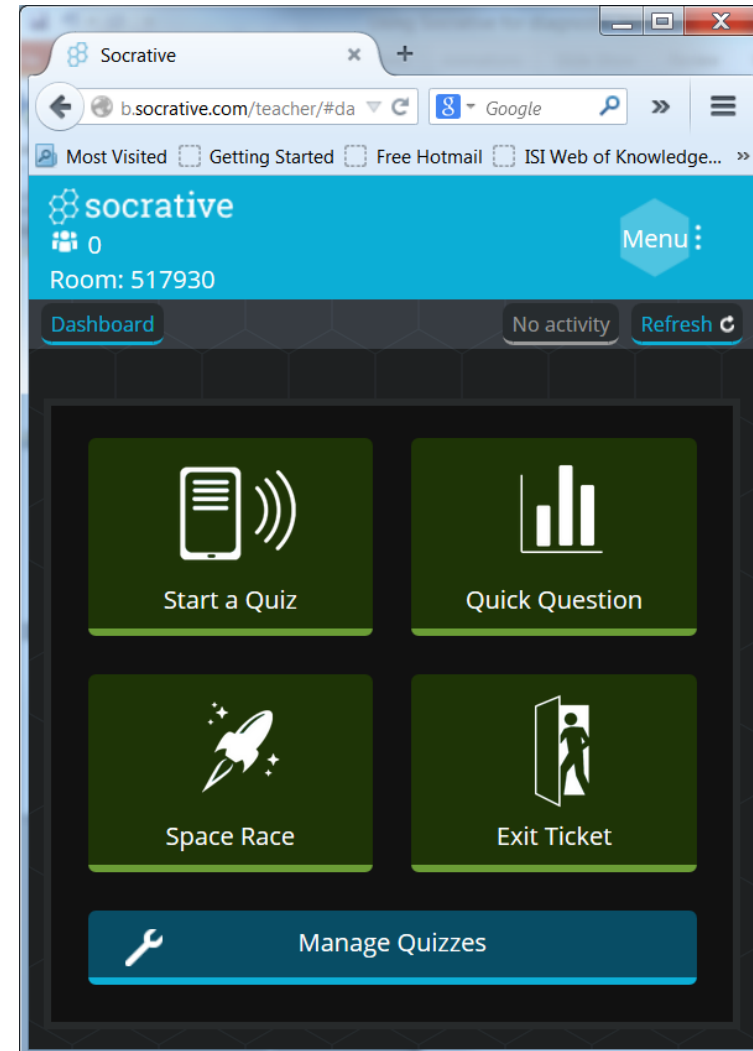
# Using Socrative for diagnostic tests

*Matthieu van der Heijden – BMS - IEBIS*

- <http://www.socrative.com/>
- Free student response system
- Up to 50 students
- Voting tool in classroom (but: 50 students is a limitation!)
- Method for **diagnostic test**
  - Used in Supply Chain Management module of Industrial Engineering and management (BSC, year 1, quarter 4)
  - Run two (or more) copies **in parallel**; you need multiple accounts for that!

# Diagnostic testing using Socrative: *Teacher*

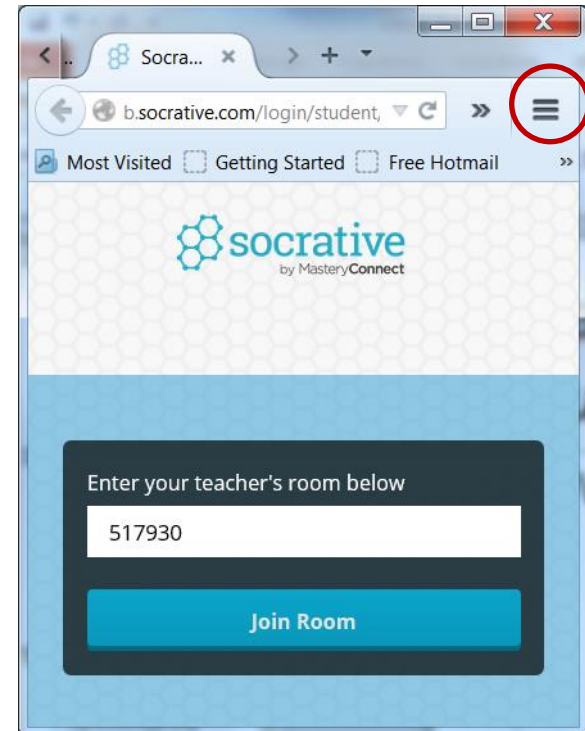
- Sign-up at Socrative.com
  - **web** or use app
- Construct and save test
- Release test -> provide “room number” to students
- Wait... (an hour, a day, a week...)
- Collect results
- Next year: Reuse test (after possible modification)



# Diagnostic testing using Socrative *Student*

- Via internet ([www.socrative.com](http://www.socrative.com) )
  - ... or app (to be downloaded for free)
- Enter room number and start test
  - matthieu

Hand phone



# Diagnostic testing using Socratic

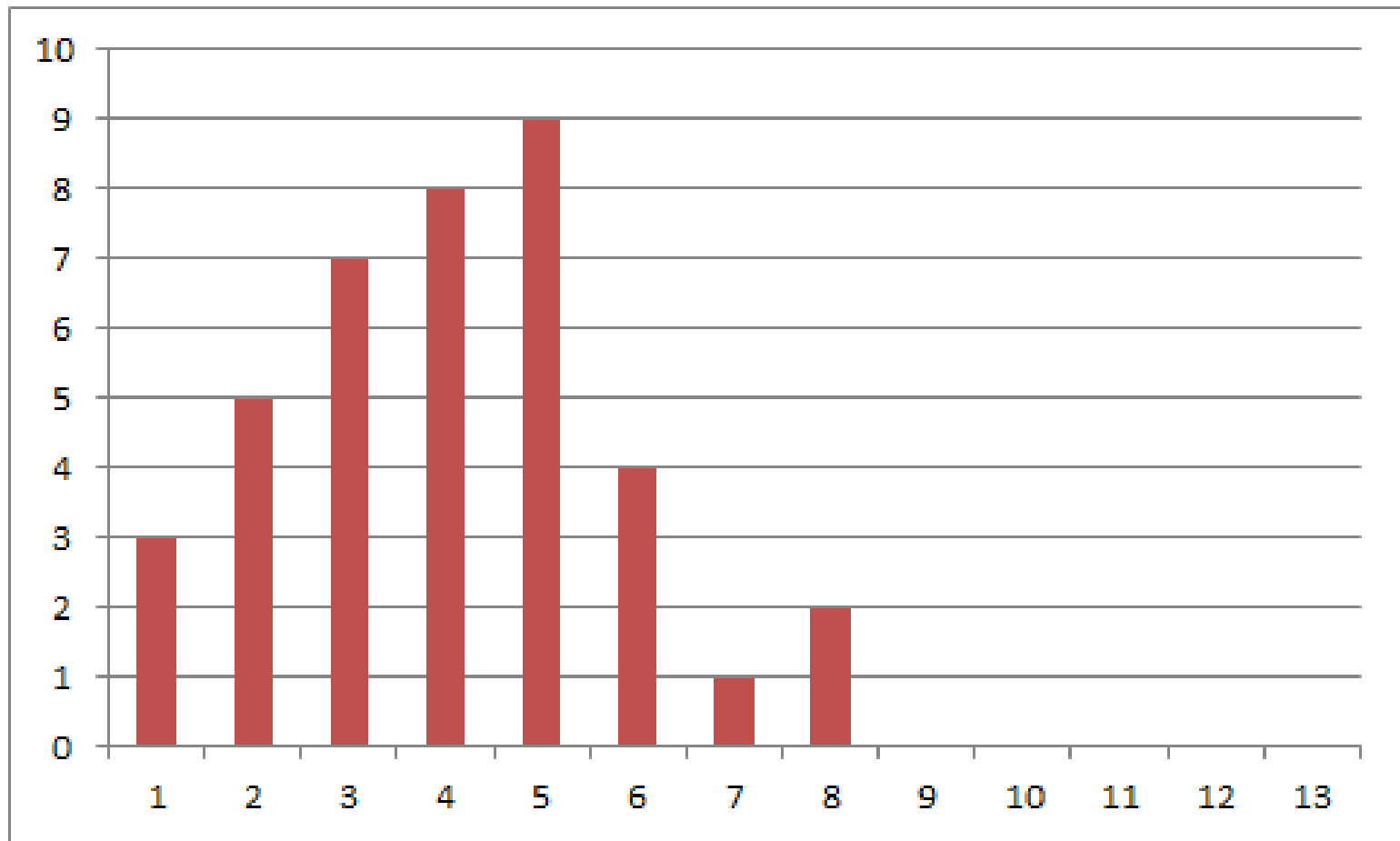
## *Experience from last year*

- **Diagnostic test 1** on the first half of the theory, to be made in a lecture room at the UT (scheduled lecture hour, followed by an explanation
  - 13 multiple choice questions
  - about 4 weeks before the full exam
- 91 students in the course
- 52 students enrolled via a sign-up list on Blackboard (after several reminders)
- 39 students turned up in the lecture room

# Diagnostic testing using Socratic

## *Experience from last year*

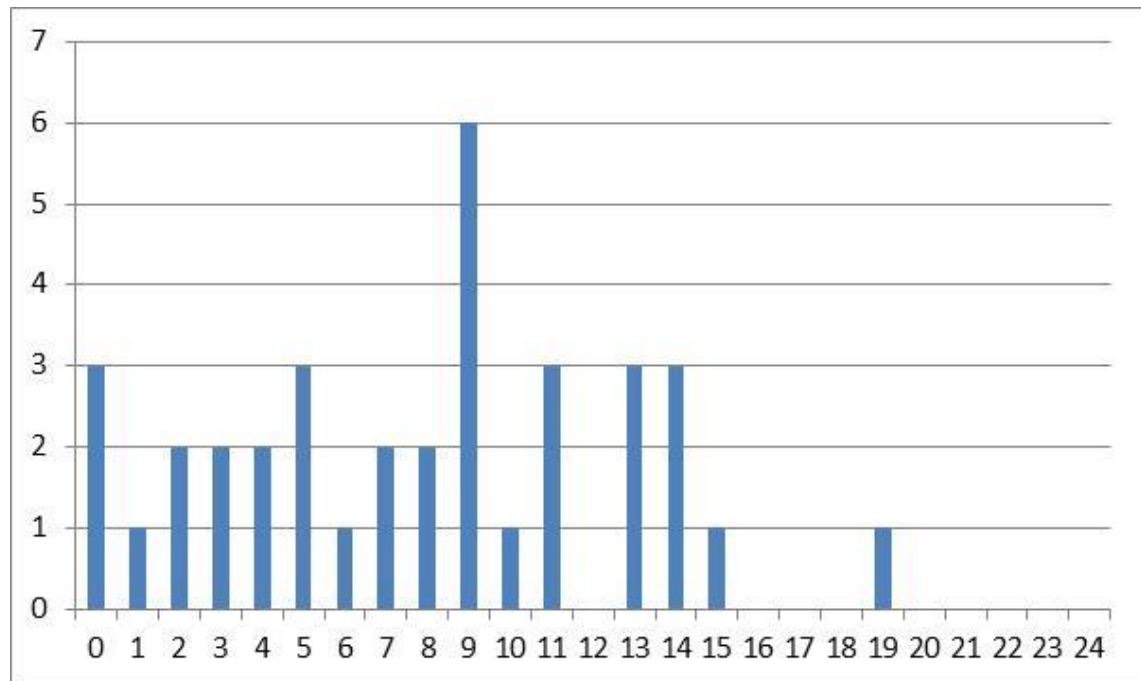
- Results (first trial only):



# Diagnostic testing using Socratic

## *Experience from last year*

- **Diagnostic test 2** on all theory, to be made at any place during 1 day, 3 days before the formal exam
  - 24 multiple choice questions
- 36 students started the test (*but only 23 completed the test*)



# Diagnostic testing using Socratic

## *Experience from last year*

- Feedback from the students (last question in test):
  - 16 students responded
  - 10 students are (very) positive:
    - I get immediate feedback
    - I can do it at home
    - I can choose the time I prefer (within certain limits)
  - Most frequent remark: It is a pity that we don't see the question anymore when we get the true answer
    - issue has been **solved** in the new release, except for figures
  - 2x negative: I prefer a test on Blackboard; I prefer setting as in a real exam.
  - 1x: feedback not elaborate enough (e.g. reference to book)
  - 3x fuzzy answer

# Diagnostic testing using Socratic

## *Experience from last year*

- **Again: Diagnostic test 2** on all theory, to be made at any place during 2-3 days, just before the **resit**
  - 24 multiple choice questions
- 21 students started the test (14 completed the test)
- Feedback from 8 students, all positive
- New remark: I have to make all the questions, and that takes quite some time. I would prefer to select the questions that I want to make myself
  - is **solved** in new release: Option student paced – student navigation



# Overall experience

- Socratic works very nice, and students are generally (very) **positive** about this way of making a diagnostic test
- Drawback is the **limit of 50 students**; workaround:
  - run multiple copies in parallel (on the same computer),
  - assign students to groups (e.g. surmane starting with A-K in Room 1, other students in Room 2)
  - merge the results afterwards
  - less practical for use in classroom as student response system during a lecture with >50 active students
- Some improvements have already been implemented (more than 5 answers to MCs, read back question, students may select the order in which they make the questions)
- Students don't get an **overall score** at the end of the test
- Use of **special characters and mathematical formulas** is not feasible yet (Socratic promises that this option will be added in FAQs).

# Regarding the maximum number of students (from FAQ Socrative):

## **“What class size is possible?”**

Socrative is an instant response tool designed for the K-12 environment. At this time the max that can comfortably function in a single Socrative classroom is 50. You can try to exceed the limit, however the system was not built to support bigger numbers so we cannot promise it will function as intended. Feel free to give it a try, and please let us know if you have issues or if it ends up working out for you.”