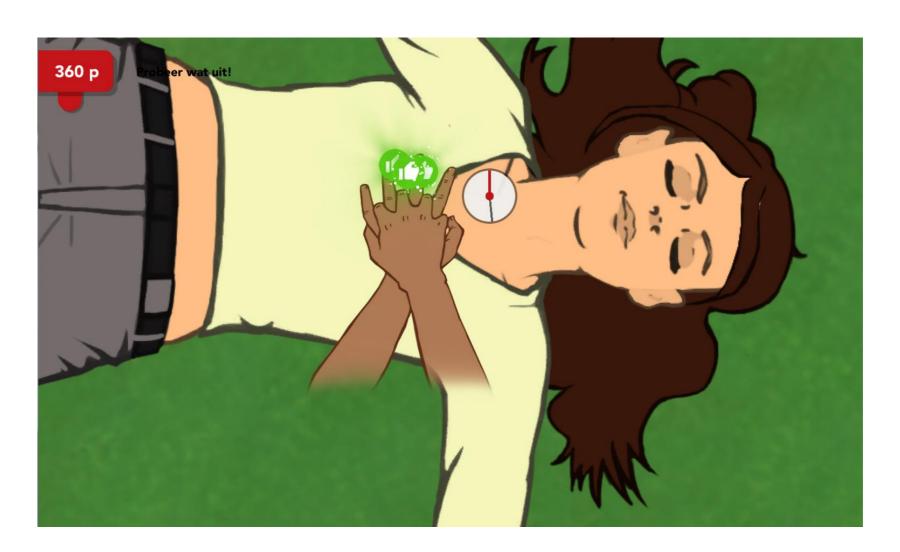
BE A HERO

HELD - A SERIOUS GAME FOR RESUSCITATION EDUCATION



SIMON TIEMERSMA, HEIDE LUKOSCH

DELFT UNIVERSITY OF TECHNOLOGY
FACULTY OF TECHNOLOGY, POLICY AND MANAGEMENT (TPM)



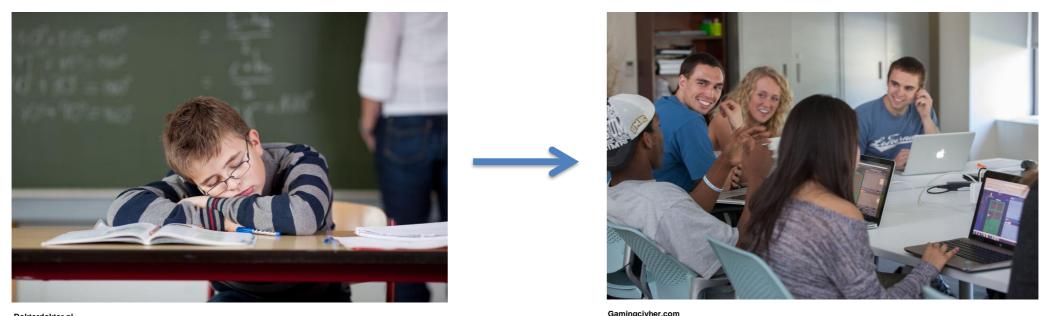






GOAL OF THE PROJECT

- ENHANCING KNOWLEDGE ABOUT THE RIGHT PROCEDURES
 IN A RESUSCITATION SITUATION
- ENHANCING MOTIVATION TO LEARN CARDIOPULMONARY RESUSCITATION (CPR)
- SHORTENING THE PHYSICAL PART OF THE COURSE ON SCHOOLS, WITH THE SAME RESULT



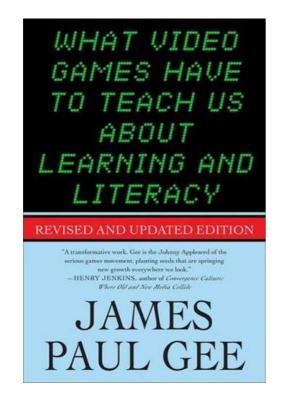


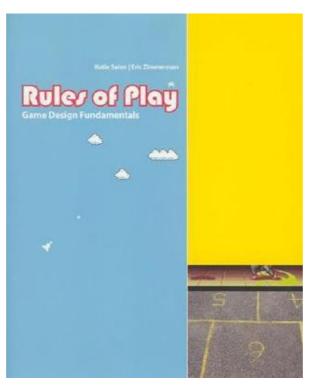


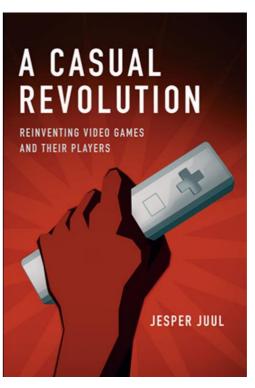


USE OF A SERIOUS GAME

- GAMES FIT THE TARGET GROUP VERY WELL ('DIGITAL GAME NATIVES')
- GAMES ENGAGE AND MOTIVATE
- GAMES CAN HAVE A POSITIVE EFFECT ON (PRACTICAL)
 LEARNING PROCESSES



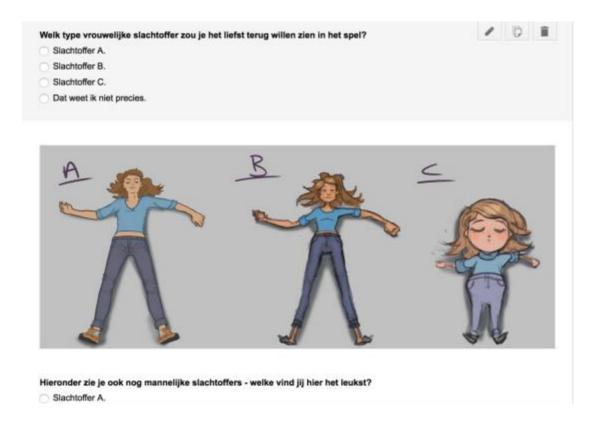






DEVELOPMENT OF HELD

- EXPERIENCED GAME DEVELOPERS
- In close cooperation with the Dutch Heart Foundation (Hartstichting)
- TESTING THE PROTOTYPE AND ART STYLE WITH THE TARGET GROUP





GAME CONCEPT

- SELF-EXPLORATIVE LEARNING
- ADDING COMPONENTS ONE STEP AT A TIME
- RANDOM TOP-DOWN SCENARIO'S
- REWARD AND FEEDBACK AFTERWARDS
- COMPETITION AND COLLECTIBLES

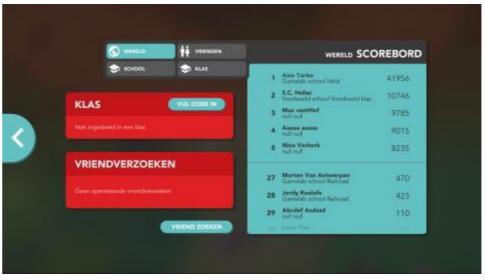








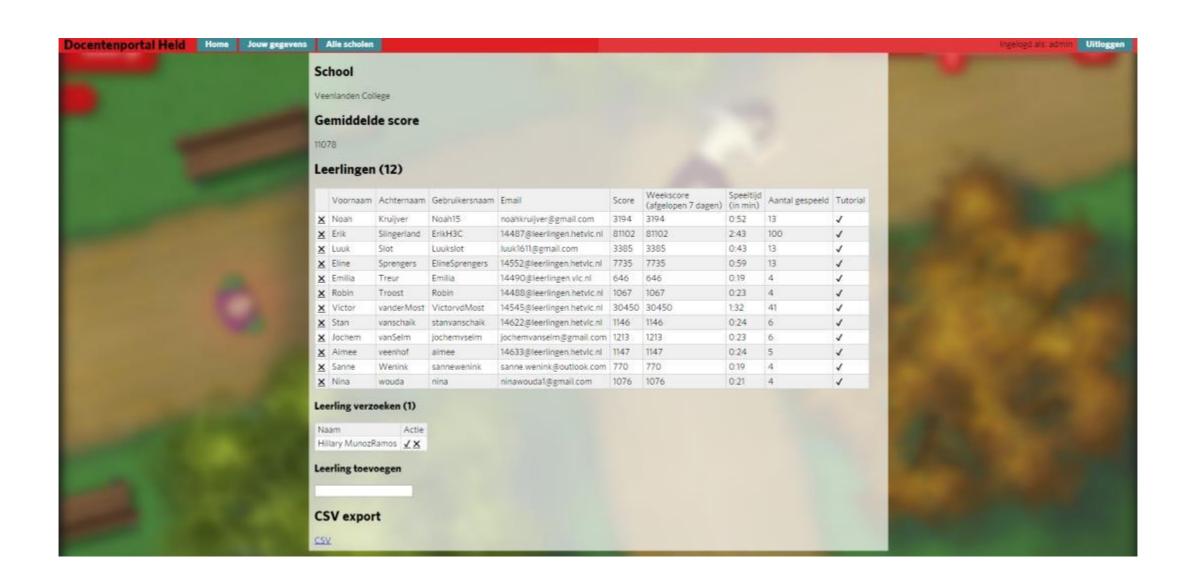






TEACHER PORTAL

 WEB PORTAL FOR TEACHERS TO KEEP TRACK OF PROGRESS









METHODS AND MATERIALS

- RESEARCH ON THREE DUTCH SECONDARY SCHOOLS (VWO, HAVO, VMBO/MAVO, MBO) WITH 177 TEST SUBJECTS (70 BOYS, 107 GIRLS)
- GAMING GROUP OF 91, CONTROL GROUP OF 86
- KNOWLEDGE TEST PRECEDED THE COURSE (QUESTIONNAIRE)
- OBSERVATIONS DURING THE COURSE BY

 EXPERTS USING THE CARDIFF-LIST

 OVER SCORE

 OVER S
- DATA USED FROM THE PRACTICE DOLL!
- QUESTIONNAIRE 3 MONTHS AFTER THE COURSE WITH 23 SUBJECTS



Compressions











RESULTS AND DISCUSSION



RESULTS

- EXPERTS COULD NOT SEE ANY DIFFERENCE BETWEEN THE GAME GROUP AND THE CONTROL GROUP DURING THE PHYSICAL COURSE
- THE GAME GROUP ACHIEVED BETTER RESULTS ON THE PRACTICE DOLL (BUT NOT SIGNIFICANT)

 THE CONTROL GROUP WAS A LITTLE BETTER RECITING THE KNOWLEDGE





DISCUSSION

- HELD CAN LOWER THE FACE TO FACE TIME NEEDED FOR AN EFFECTIVE CPR COURSE ON SCHOOLS
- THE GAME CAN BE USED FOR SELF-STUDY
- THE GAME FITS THE LEARNING BEHAVIOUR OF THE TARGET GROUP











SEARCH FOR: 'HELD'

