

LANTERN - a colourful assistance in your classes

A project of EPFL of Hamed Alavi and Prof. Pierre Dillenbourg



What is LANTERN?

A set of interactive lamps making visible information that is often invisible to the teacher.

How it works?

COLOR indicates which exercise students are working on.

BRIGHTNESS shows how much time is spent on this exercise.

BLINKING it blinks if the students call for help.

FREQUENCY signifies how long they waited for help.

Research shows that LANTERN:

1. Improves students' individual productivity - from 38% to 94%

$$1 - \left(\sum_{i=1}^n \left(T_r(d_i) - \frac{[T_a(d_{j+1}) - T_a(d_j)]}{2} \right) / \frac{[T_a(d_{j+1}) - T_a(d_j)]}{2} \right) / n.$$

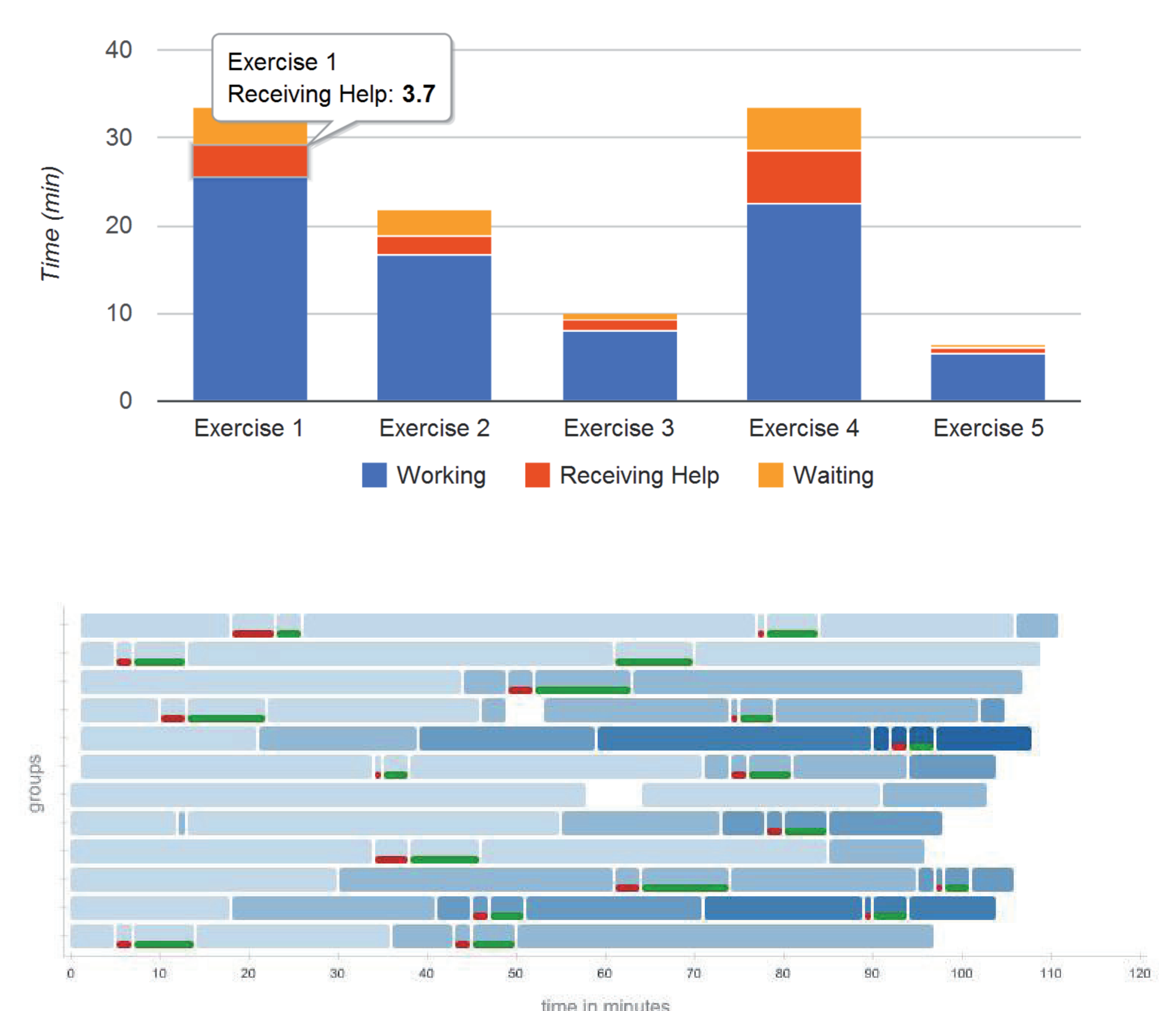
2. Increases collaboration among students

3. Facilitates the interaction between students and teachers (Classroom Orchestration)

As an Ambient Awareness Tool



As a Learning Sensor



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