

# IS1404 E-READ: Evolution of Reading in the Age of Digitization

## Position paper

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WG(s): WG1 *Continuing/skilled (PISA-age) reading*

### 1. **Potential research contribution** in light of, or linked to

#### A. WG interest and Scientific programme:

I am a junior researcher (PhD received in 2012) studying eye movements during seeking information from internet in a Academy of Finland -funded eSeek! -research project for years 2014-2017 in the Department of Psychology, University of Jyväskylä.

Among EREAD work groups I'm most interested about WG1, due usage of eye tracking methodology. WG topics my work in eSeek! project will directly contribute are:

- tasks: reading vs information seeking;
- type of texts: expository, narrative, procedural; simple, complex; short, long;
- attention: simple vs double tasks.
- Both qualitative and quantitative analysis will be carried out. Integrating all these measures later by means of classifying techniques will also enable isolating reader profiles.
- Qualitative metrics: questionnaires (comprehension), R/K procedure (memory)
- Quantitative metrics: eye movements (vision), pupil dilation (stress), blink rate (fatigue), beep, task (attention).

#### B. Action objectives (pages 7-10 in the MoU):

The following are the most relevant EREAD action objectives my work in the eSeek! -research project will contribute:

### **C.2 Objectives**

The overall objective translates into the following concrete secondary objectives:

- to provide evidence-based recommendations to educational practitioners and policy makers;
- to prompt systematic, empirical, interdisciplinary research transcending established boundaries between scientific disciplines involved in reading research;
- to facilitate joint scientific publications and new, radically interdisciplinary, collaborative research projects (esp. across humanities/social sciences and natural sciences);
- to establish long-term theoretically and methodologically innovative research collaboration;

Expected deliverables:

- Collections of existing empirical data on digital text reading;
- Scientific publications resulting in visibility in scientific communities in the different fields (e.g., psychology, pedagogy, literature and media studies, cognitive and visual ergonomics, interface design)
- Interdisciplinary paradigms for measuring the impact of digitization on text reading;
- Relevant indicators of reading (different kinds of texts) on paper vs. screens;
- Recommendations for the pedagogical field;

### **C.3 How networking within the Action will yield the objectives?**

The Action will unite research teams from different countries and disciplines, which are already funded by their own research institutions/affiliations, or by national research councils, but which have no specific funding to support the building of a European community.

### **C.4 Potential impact of the Action**

The main benefit of the Action is the advancement of scientific progress by:

- providing a bottom-up, interdisciplinary, empirically derived understanding of the effects of digitization on a range of aspects of reading;
- developing theoretically and methodologically innovative research paradigms enabling systematic empirical measurement of the impact of digitization;
- facilitating the emergence of new reading research teams and labs by connecting junior/early career researchers with senior ones;

### **C.5 Target groups/end users**

The main beneficiaries of the Action are:

A) The scientific community.

2. Interest in

A. organizing and/or participating in a **short-term scientific mission (STSM)**.

*Optional:* pursuing what research questions/projects; where to/with whom; linked to what objective(s) of the Action:

Yes, I'm interested to participate in STSMs and connect with European researcher's studying reading of digital media at the level of eye movements.

B. organizing and/or participating in a **Training School** (please indicate what kind of training [theoretical; methodological; technical]).

*Optional:* linked to what objective(s) of the Action:

Yes, I'm interested to participate in Training Schools focusing especially on eye tracking methodology for the research of digital reading.