Easy Reading: A Framework for Personalised Cognitive Accessibility when using Original Digital Content

Fact Sheet

Project information

Easy Reading

Grant agreement ID: 780529

Project website

Status
Ongoing project

End date
30 June 2020

Funded under:
H2020-EU.2.1.1.

Overall budget:
€ 2 237 875

EU contribution
€ 1 992 063

Coordinated by:
UNIVERSITAT LINZ
Austria

Objective

The “Easy Reading” framework will improve the cognitive accessibility of original digital documents by providing real time personalisation through annotation (using e.g. symbol, pictures, videos), adaptation (using e.g. layout, structure) and translation (using e.g Easy-to-Read, Plain Language, symbol writing systems). The framework provides these (semi-)automated services using HCI techniques (e.g. pop-ups/Text-To-Speech (TTS)/captions through mouse-over or eye-tracking) allowing the user to remain and work within the original digital document. This fosters independent access and keeps the user in the inclusive discourse about the original content. Services adapt to each user through a personal profile (sensor based tracking and reasoning of e.g. the level of performance, understanding, preferences, mood, attention, context and the individual learning curve).

The interdisciplinary project team includes users with cognitive disabilities in all phases through the Inclusive Participatory Action Research Method (IPAR) ensuring to address real users’ needs.

The “Easy Reading” framework is planned as a cloud based, open source and freely available support infrastructure. It will reach as many people with limited reading and language skills (e.g. people with cognitive disabilities - ~2,5% of the population - older adults, people with a different mother tongue) summing up to 25% in some regions or countries. Additionally, many more people will enjoy exploring new and unfamiliar content using personalised access.

This framework integrates and supports state-of-the-art and future R&D. It incorporates tools for
annotation, adaptation and translation of content by providing a sustainable user-centred eco-system for personalisation. It promotes European ideals and enables independent applications to leverage the infrastructure and socialize their application for business (profit and non-for profit) in a new EU driven growth market.

Field of Science

/social sciences/psychology/cognitive psychology/mental processes/emotion
/social sciences/psychology/cognitive psychology/mental processes/attention
/social sciences/economics and business
/social sciences/economics and business/business and management/commerce
/social sciences/psychology/cognitive psychology/mental processes/learning
/humanities/languages and literature/languages - general
/social sciences/sociology/governance/public services

Programme(s)

H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

Topic(s)

ICT-23-2017 - Interfaces for accessibility

Call for proposal

H2020-ICT-2017-1

See other projects for this call

Funding Scheme

RIA - Research and Innovation action

Coordinator
UNIVERSITAT LINZ
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Activity type
Higher or Secondary Education Establishments
EU Contribution
€ 324 875
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Participants (8)

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Other
EU Contribution
€ 134 375
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Contact the organisation
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<th>Country</th>
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<td>TEXTHELP LTD</td>
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**ATHENA I.C.T. LTD**

Israel

**EU Contribution**

€ 205 625

**Contact the organisation**

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