## DELIVERABLE D10.1
**Adult User Requirements and Specification**

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<td>Agnieszka Rynkiewicz (ASCM)</td>
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<td>Mariola Błażewicz (ASCM)</td>
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Declaration by the scientific representative of the project coordinator

I, as scientific representative of the coordinator of this project and in line with the obligations as stated in Article II.2.3 of the Grant Agreement declare that:

- The attached report represents an accurate description of the work carried out in this project for this reporting period;

- The project (tick as appropriate):
  - □ has fully achieved its objectives and technical goals for the period;
  - ■ has achieved most of its objectives and technical goals for the period with relatively minor deviations;
  - □ has failed to achieve critical objectives and/or is not at all on schedule.

### ACHIEVED OBJECTIVES

- Recruitment of 40 Polish parents of high-functioning children with ASC and children with ADHD, initial assessment of adults needs. – ACHIEVED

### NOT ACHIEVED OBJECTIVES

- Parents will play with some elements of the platform by allowing the collection of data to be used for essential and statistical analysis in the next stage of the project.

Name of scientific representative of the Coordinator:

*BJÖRN SCHULLER*

Date: 15/03/2014

Signature of scientific representative of the Coordinator:

[Signature]

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1. Executive Summary

ASCM recruited a group of Polish parents and their children. PSI-3 test were conducted during the first stage of the task 10.4. Additionally EyeTest, FaceTest, and AQ Adult test were prepared. The resulting data is being analyzed to understand how competent parents of children with ASC are to guide a child in the program.

BIU and UCAM prepared the group comparison and recruitment for RCT in the existing panels of families, already included in the project.

2. Introduction

This report comprises a detailed description of the achievements on the work package WP10 – Adult & Child Cooperative playing – for ASCM until M28 of the project. The main objectives of WP10 for ASCM during the whole project are: to recruit 40 parents of ASC and ADHD Polish children, do psychological experiments, asses and then re-assess both parents and children with the battery of tests, to identify the needs of the adults as active users of the system, analyse what the unique needs of parents are in learning about the recognition and expression of emotions for themselves, as well as on the best way for adults to communicate and tutor their children on these skills, and finally to prepare Polish translation of the ASC-Inclusion program.

3. WP10.1 - Adult Users Requirements and Specification

The main activities carried out as part of the Adult User Requirements and Specification work package with sub-task 1 have been to recruit a group of 40 Polish parents of high-functioning children with ASC and children with ADHD, assess adults and identify the needs of this target audience.

The first stage involved the recruitment of the parents. The formal preparation to the recruitment included appropriate documents which were created (Fig.3-1):

- Information Letter for Parents,
- Information Letter for Children,
- Consent Form for Audio and Video Recordings,
- Consent Form for Participation in ASC-Inclusion.
Recruitment criteria - All recruited parents had children with the following criteria: age 5-10 year old (+/- 6 months), with official diagnosis of ASD or ADHD, high-functioning (IQ average or above). Initially it was planned to have a group of parents of 20 ASD and 20 ADHD children. However, more parents of ASD girls were recruited. Provided that it is rare to have ASD diagnosis among females, the project could benefit from such minority group by analyzing how males and females can play the program and which differences they show in using it.

Database of families - The project was presented to ASCM’s regular clients (families and their children) who are on the regular caseload in ASCM. Information about the recruitment was sent to Autism Centers, Health Clinics, School and Medical Boards in Poland and presented during the conferences when Dr, Rynkiewicz lectured. It was also placed on the Spectrum ASC-Med website (Fig.3-2). A database of all the families who expressed their willingness to participate in the project was created. The final group of 40 families was selected. The rest of the families in the database were placed on the waiting list. All
families were informed via phone calls on their status in the project and were presented a plan of the assessments.

Figure 3.2: Example of information to parents on ASC-Inclusion on Spectrum ASC-Med website.

**Final group** - As a result of above activities a group of 40 parents and their children were recruited to the project. Out of final group 40: 6 families had ADHD child, 34 has ASD. The final recruited group consists of parents of 21 boys and 19 girls.

BIU and UCAM: the existing panels of families, already included in the project.

**Literature review** - The work on this task also included carrying out a literature review and gathering feedback to identify the preferences and interaction style of Polish parents with their children with ASC and ADHD. Part of the review included also the genetic influences in the development of autism and whether relatives manifest genetically related milder phenotypes [Baily et al., 1988], [Piven et al., 1997]. The notion that genetic factors might be related to the causes of autism was also addressed in [Costantino et al. 2006] where social responsiveness was studied among siblings of autistic probands form multiple-incidence families. Besides looking at the genetic factors, an imbalance in parent-child turn-taking and reciprocity behaviours has been demonstrated in [Elder et al., 1996]

**Requirements and specifications** - The material of the program that is being prepared in Polish language within task WP10.8 and the first stage of experiments within task WP10.4 are a base for analyzing of the practical needs and requirements of the adults and
predicted interaction with a child. This analysis comes from the feedback collected by the project’s workers during the experiments, direct interaction with the families and also with the online survey which has questions and scales to them. The online survey is regarding the key elements of the program and has also open questions for adults. The survey reflects key aspects for requirements and specification. It is completed by a parent/adult soon after he finishes working on the element of the program.

Adults’ comments are collected and analyzed based on this survey. It reflects:

- Computer specification and the Internet access,
- How easy the program is to navigate,
- How friendly the graphic interface of the program is,
- How clear the directions in the program are,
- How universal and attractive the activities of the program are for both ASD boys and ASD girls.

ASCM prepared necessary versions of ARC tests (revision): FaceTest and EyesTest, both for adult and child. ASCM obtained the appropriate agreements and licensing to the project from the publishers: PAR and WPS to the tests used in the project (PSI-3, ADOS-2, SCQ Lifetime, and SCQ Current). During FaceTest and EyeTest a parent and a child interacted with each other in front of the touchscreen computer in ASCM’s office. The feedback was collected and supported the dimensional approach to the study of autistic traits in parents of ASC children. The collected feedback needs to be analyzed and statistically prepared in next stage of the project. In particular, the following will be considered:

- Statistical analysis of the results from the tests: EyeTest, FaceTest, and AQ Adult.
- Statistical analysis of the results from the PSI-3 test which measures the magnitude of stress in the parent-child system.

4. Deviations

Considering the minor deviation in task 10.8 [D10.8], it was decided to proceed in the analysis of parts/fragments of the program. Parents will work on some elements of the platform by allowing the collection of data to be used for statistical analysis in the next stage of the project.

5. References


