

Part B Project Summary

Project Title: Virtual Reality-based Training Programme (vPAD) for social adaptive and emotional training on school-aged children with Autism Spectrum Disorder (ASD)

(1) Goals and objectives:

- 1.1 To improve the emotional control of students with Autism Spectrum Disorder (ASD) by facilitating these learners to acquire skills for:
 - the recognition and appropriate response to facial emotional expression;
 - developing self-awareness of emotion and expressing emotions and
 - 3rd party perspective thinking (theory of mind)
- 1.2 To develop their generic skill on complying with basic social rules in common social situations.
- 1.3 To promote the generalization of their adopted social skill to new social situations.
- 1.4 To develop a psycho-educational protocol on training social adaptive and emotional control for children with ASD.

(2) Targets, expected number of beneficiaries:

- 2.1 100 P1-P6 students with Autism Spectrum Disorder (ASD) from at least 10 primary schools
- 2.2 20 Teacher Champions for the vPAD training programme
- 2.2 A vPAD resource Centre with the following potential beneficiaries:
 - 2,600 Students with ASD of mainstream primary schools and their family members
 - Over 500 teachers and related professionals in special education and rehabilitation organizations

(3) Implementation method, process and schedule (January, 2015 to June, 2017)

Jan 2015 to Dec 2015	Jan 2016 to Dec 2016	Jan 2017 to Jun 2017
<ul style="list-style-type: none"> • Setting up VR-based ASD Training Environment • Design and development of vPAD training modules • Training sessions with teachers and ASD students • Psycho-educational sessions with ASD students 	<ul style="list-style-type: none"> • Fine tuning training modules • Preparation of Training Protocol • Evaluation of the effectiveness of vPAD on social adaptive function and emotional control 	<ul style="list-style-type: none"> • Publication of Training Protocol • Evaluation of the effectiveness of vPAD on social adaptive function and emotional control • Dissemination seminars and publications to professionals and public • Preparation of Resource Center

(4) Expected deliverables/outcomes

- 4.1 A social adaptive and emotional training program for inclusive primary school students with ASD
- 4.2 Six vPAD training modules for student with ASD
- 4.3 Student training protocol with vPAD and Introductory training seminar for teachers
- 4.4 Evaluation report on effectiveness of vPAD for social adaptive and emotional control training in students with ASD
- 4.5 vPAD Teacher Champion Training Programme and related publication for professionals
- 4.6 A Resource Centre and vPAD website

(5) Budget

Item	Amount
1. Staff cost	\$1,546,650
2. vPAD Equipment and Resources Centre Set up	\$658,000
3. Services	\$140,000
4. General Expenses	\$108,050
5. Contingency	\$10,000
Grand Total:	\$2,462,700

(6) Evaluation parameters and method

- 6.1 Evaluation of the effectiveness of vPAD for social adaptive and emotional control training in students with ASD
- 6.2 Pre- and post-study assessment on student's performance.
- 6.3 Questionnaires for working team, parents and users.