

nanotec for schools

Switzerland



15th Science Projects' networking event
Sustainability of projects

Galway, 24 may 2019

*GO NANOTECH in the context of the promotion
of STEM basic skills projects in Switzerland*

Speaker : Mehdi Hihi

Introduction

nanotec for schools is a Swiss non-profit association with ideal goals located in Lausanne. Its first objective is to promote STEM through knowledge sharing and within specific projects.

We give organisations a learning methodology with modules, pedagogical material and training.

This device can also be used for schools and adult organizations between students at national and European level.

Context : basic skills in Switzerland

According to the Adult Literacy and Lifeskills Survey, **ALL**, 2003

- 800'000 swiss : difficulties to understand a newspaper article
- 400'000 swiss : difficulties to solve a simple problem in math
- 16% swiss : low competencies in reading

According to the Desk Office of work and social policies, **BASS**, 2014 :

- 60 % of swiss with reading difficulties work : lower salary and oldest than the active population
- 36% of swiss in unemployment : reading difficulties
- 40% of swiss : NO professional training background

According to the Swiss conference of social action Institutions, **CSIAS**, 2014 :

- Welfare rate (young adults) : 3.9 %
- Welfare rate (Swiss population) : 3.1 %

Context : basic skills in Switzerland

Causes

- School failure and inadequate teaching
- Lack of integration measures
- Increasing social and professional requirements

Consequences

- Low competencies in reading costs 1 billion CHF to the employment insurance
- Impact on the companies productivity
- Social and professional exclusion

Context : basic skills in Switzerland

Basic skills development for adults : central thematic in lifelong learning

- Local, regional and national initiatives : pilots projects
- **National competencies referential for adults trainers in basic skills**, september 2016
- **Federal Law on continuous training, LFCO (in preparation)**
- **Integration of the basic skills development for adults in the LFCO**

ALL Survey, 2003

GO Project, FSEA, 2009 – 2011

GO 2 Project, FSEA, 2012 – 2015

GO – nanotec, 2016 - 2017



Introduction

- ✓ GO NANOTEC project : Swiss national funded project
- ✓ January 2016 – June 2017
- ✓ Partners

Swiss Federation for Adult Learning (FSEA)
nanotec for schools

Mode d'Emploi Foundation

with the support of the Swiss Federal Office
of Social Insurances (OFAS) in the context
of the national program of prevention
against poverty.



GO – nanotec project

- **Needs analysis of the foundation** (on-site visits and interviews)
- **Needs analysis of the participants** (personal interview)
- **Pre-test** and **Post-test** realization (math, ict, math & ict for logistic)
- **Pedagogical material** realization (math, ict, math & ict for logistic)
- **Participants training**
- **Trainers training** in the foundation
- **Global evaluation** of the training framework
- **Promotion** of the training framework

GO – nanotec project

- **Workplace** Mode d'emploi foundation
- **Domain** Logistic (Math, ICT)
- **Work situations** Warehouse management
Inventory management
Expeditions optimisation
Palletization
Logistics costs
- **Public** Young adults (18 – 25 years old) in welfare and in school failure
Preparation to the vocational schools entrance exams

Sustainability (1)

Presentation in a national conference, OFAS, Berne, 2017

Test of the device in the Qualife foundation (www.qualife.ch), Geneva, 2018

Presentation to Future Plus organization (www.futureplus.ch), Lausanne, 2018

Internet Web Sites

GO and GO nanotec projects in the companies

Sustainability (2) Brakes

Funding

Change to resistance

Partners



Commission
de l'éthique
en science
et en technologie

Québec 



Théâtre Parminou

*40 ans de théâtre
populaire de création*



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Thank you !

For more information :

www.nanotec-for-schools.org

info@nanotec-for-schools.org

