



#### Introduction

- Since 2016, the Wallonia-Brussels Federation (FWB - French speaking part of Belgium) prepares the implementation of a substantial reform of its educational system.
- One of the axes of that project called 'Pact for Excellence in Education' (PEE) deals with a deeply modification of the core curriculum that will emphasize 8 domains.
- Among these domains, one directly involves physical education (PE): "Physical Activities, Wellbeing and Health".
- It means that there is a **need to redefine PE** teachers' missions and priorities as well as preparing them to implement actions in health education.

#### Purposes

The Ministry of Education mandated a group of experts (the "CAPBES") from the 12 French-speaking institutions involved in physical education teacher education (PETE) in order to identify, design and share teaching resources respecting the principles advocated by the PEE and aiming to promote physical activity, wellbeing and health.



Figure 1: Logo of the "CAPBES".

The aim of this presentation is to give an overview of some data collected up until now.

#### **Methods**



- teams.

Jérémy Bonni, Jean-Philippe Dupont, Benoit Vercruysse, Sylvie Herreman & Marc Cloes University of Liege (SIGAPS) - Belgium

• The specificity of the approach is based on the collaboration between teacher educators and practitioners at each step of the project, in line with the collaborative didactic engineering model (figure 2).

Figure 2: The collaborative didactic engineering model (Goigoux, 2012; Sénéchal, 2016).

• The selection of a sample of good practices implemented in FWB and/or other countries (Bonni et al., 2018) was based on evidence or field practice.

• In addition, the group of experts had to test several projects in order to validate them in the specific context of the FWB' schools.

6 original projects inspired by the international literature were set up by several CAPBES

Each project was analysed on the basis of an analysis grid – common to the different consortiums of the PEE.

#### Results

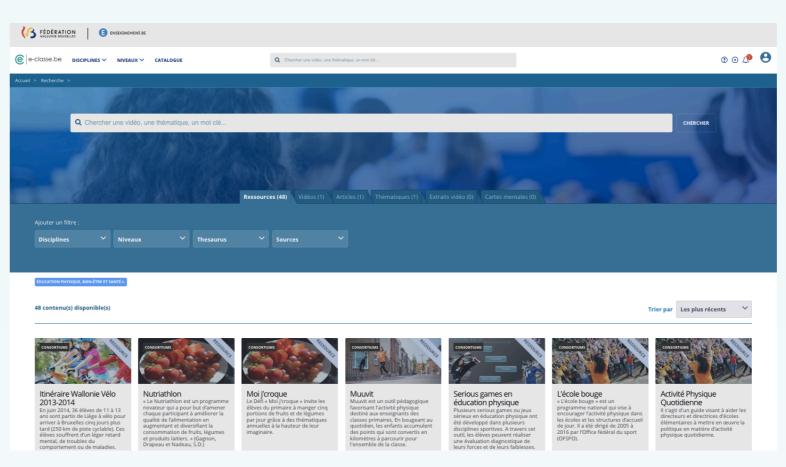
- The 6 evaluated projects are titled:

  - 2. "Nutriathlon"

  - "Dare to save at school".
  - 6. "Playground layout"

	Purposes	Validation type Approaches		Subjects	Resultts
1. Development of the playground	<ul> <li>Measure the level of physical activity through a living environment.</li> <li>Evaluate the impact of a device co-built with educational actors (teachers, teacher in physical education, management) whose goal is to meet the objectives targeted by the teaching team (management of social reports, level of physical activity).</li> </ul>	Longitudinal study	<ul> <li>Mixed methodology :</li> <li>Qualitative</li> <li>Quantitative</li> </ul>	Samples of 20 students per school, mixed and equal (8 schools)	
2. Nutriathion	<ul> <li>Bring each participant to improve the quality of their diet by increasing and diversifying the consumption of fruits, vegetables and dairy products.</li> </ul>	Longitudinal study	Quantitative	72 students (41 girls and 31 boys)	<b>_</b>
3. Oblomov: move, play, createl	<ul> <li>To propose an original educational method aimed at combating physical inactivity in adolescents and testing it with at least 1,000 young Europeans aged 11 to 13 years old.</li> <li>Help young people to adopt healthy behaviors (diet, health behaviors), promote autonomy through expression and decisionmaking (management of emotions), involve the young person's entourage (parents, family, school, associations) in its efforts to combat a sedentary lifestyle.</li> </ul>		<ul> <li>Mixed methodology :</li> <li>Qualitative</li> <li>Quantitative</li> </ul>	- Students: 178 - Teachers: 5 - Teaching staff: 8 - Directors: 4	
4. PAPS (Physical Activity Pauses at School)	<ul> <li>Allow students to meet their need for physical exertion in the classroom.</li> <li>Promote physical activity.</li> <li>Reduce periods of inactivity.</li> <li>Improve attention, concentration and focus on students' tasks following this break in learning.</li> </ul>	Case study	<ul> <li>Mixed methodology :</li> <li>Qualitative</li> <li>Quantitative</li> </ul>	20 teachers of primary schools	
5. Dare to save at school	<ul> <li>Analyze the impact of a first aid cycle, taught in physical education classes, on the theoretical knowledge and practical skills of students in secondary 5-6, secondary III, and primary 5-6.</li> </ul>		Quantitative	<ul> <li>S-6 secondary: 155 students, 6 teachers.</li> <li>Secondary III: 112 students, 5 teachers.</li> <li>S-6 primary: 186 students, 5 teachers.</li> </ul>	
6. Playground layout	<ul> <li>Studying the behavior of children in the playground before and after setting up a teaching device.</li> </ul>	Quasi-experimental study	Quantitative	<ul> <li>Havré site: 3 teachers and 48 students</li> <li>Morianwelz site: experimental courtyard (9 teachers and 196 students); witness court (12 children and 284 pupils)</li> </ul>	

#### Conclusion







#### References

- Bonni, J., Dupont, J.-P., Vercruysse, B., Draye, C., & Cloes, M. (2018). The physical education reform in Federation (Belgium). In : AIESEP World Congress 2018, Edinburgh (Scotland), 25-28 July 2018.
- Goigoux, R. (2012). Didactique du français et analyse du travail enseignant. À quelles conditions la didactique ne deviendra-t-elle pas un luxe inutile ? In M.-L. Élalouf, A. Robert, A. Belhadjin et M.-F. Bishop (dir.), Les didactiques en question(s). État des lieux et perspectives pour la recherche et la formation (pp. 33-42). Bruxelles : De Boeck.
- Sénéchal, K. (2016). Expérimentation et validation de séquences didactiques produites selon une ingénierie didactique collaborative : L'enseignement de la discussion et de l'exposé critique au secondaire. Thèse de doctorat, Université Laval, Québec.

## Institutions involved



"Development of the playground"

"Oblomov: move, play, create!" "PAPS" (Physical Activity Pauses at School)

Figure 3: Analysis grid of the 6 evaluated projects (main criteria) completed.

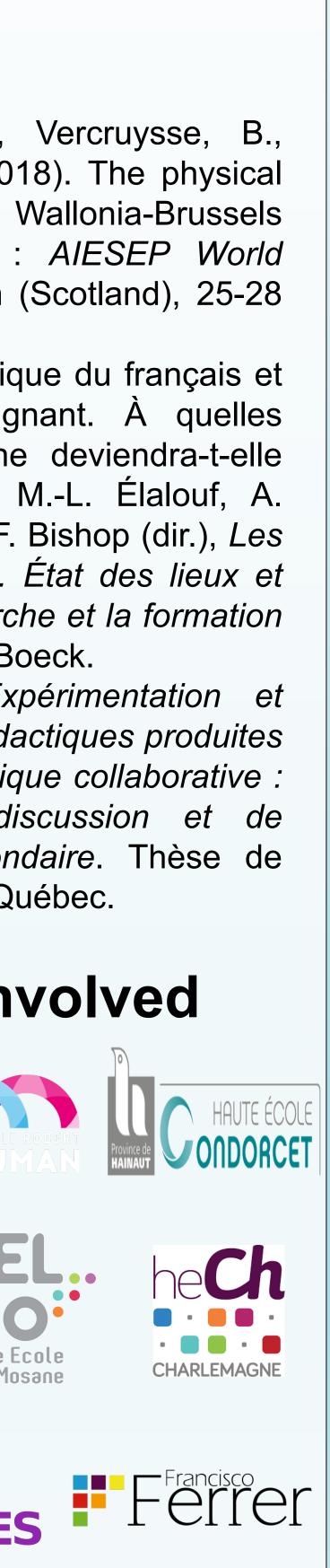
The projects are expected to be shared on an educational digital platform, named "e-classe", managed by the educational authorities.

Figure 4: Illustration of the educational platform "e-classe".

TAP TO GO

**BACK TO KIOSK** 

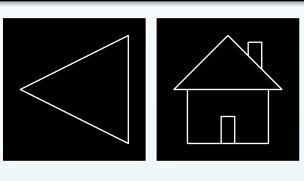
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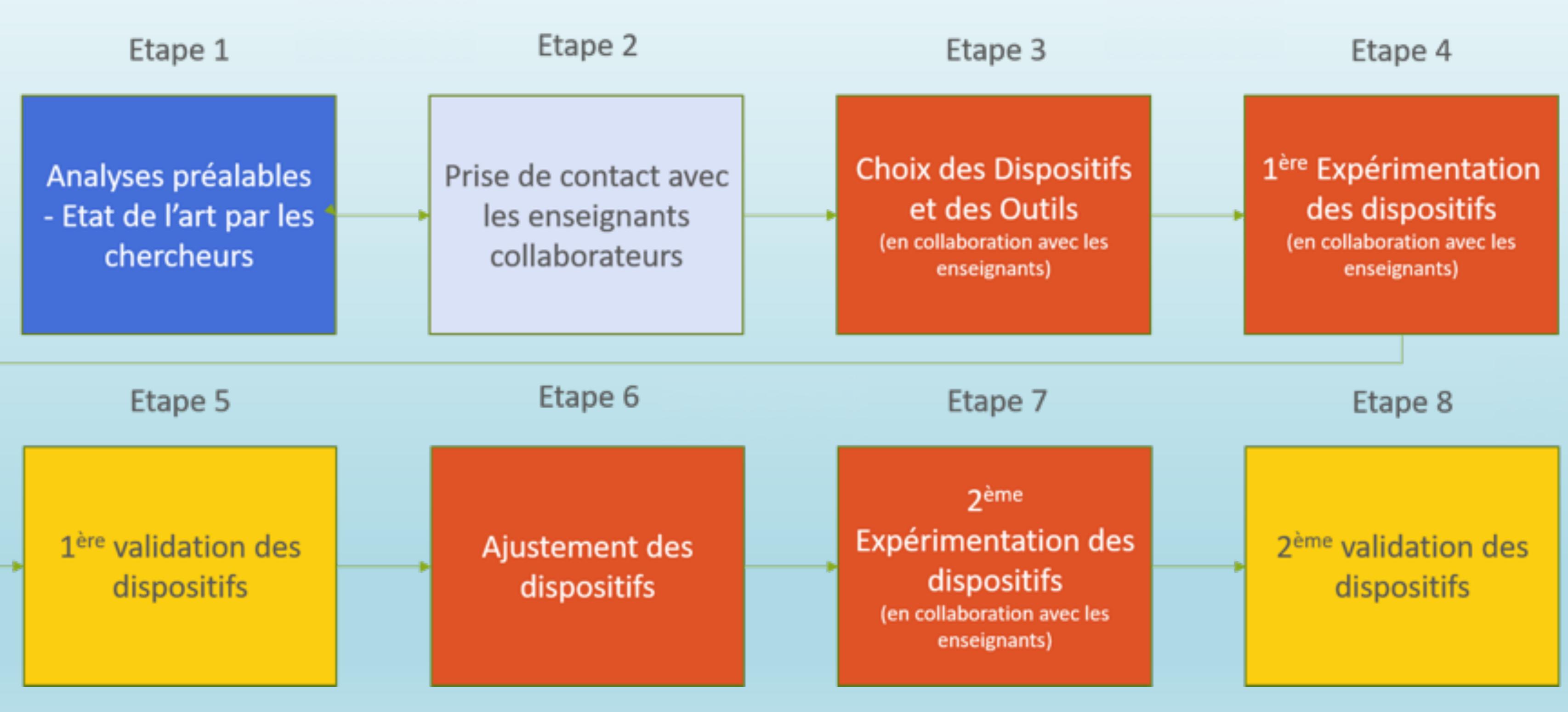


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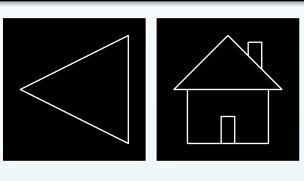
Figure 1: Logo of the Consortium "Physical Activities, Well-Being and Health".



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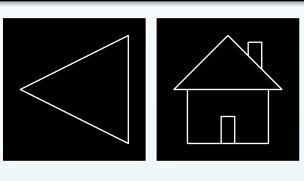


*Figure 2:* The collaborative didactic engineering model (Goigoux, 2012; Sénéchal, 2016).



Purposes			Approaches	Subjects	Results
1. Development of the playground	<ul> <li>Measure the level of physical activity through a living environment.</li> <li>Evaluate the impact of a device co-built with educational actors (teachers, PE teachers, management) whose goal is to meet the objectives targeted by the teaching team (management of social reports, level of physical activity).</li> </ul>		<ul> <li>Mixed methodology :</li> <li>Qualitative</li> <li>Quantitative</li> </ul>	Samples of 20 students per school, mixed and equal (8 schools)	
2. Nutriathlon Nutriathlon Nutriathlon Nutriathlon Nutriathlon Nutriathlon Nutriathlon Nutriathlon Nutriathlon Nutriathlon Nutriathlon	- Bring each participant to improve the quality of their diet by increasing and diversifying the consumption of fruits, vegetables and dairy products.		Quantitative	72 students (41 girls and 31 boys)	
3. Oblomov: move, play, create!	<ul> <li>To propose an original educational method aimed at combating physical inactivity in adolescents and testing it with at least 1,000 young Europeans aged 11 to 13 years old.</li> <li>Help young people to adopt healthy behaviors (diet, health behaviors), promote autonomy through expression and decisionmaking (management of emotions), involve the young person's entourage (parents, family, school, associations) in its efforts to combat a sedentary lifestyle.</li> </ul>	study	<ul> <li>Mixed methodology :</li> <li>Qualitative</li> <li>Quantitative</li> </ul>	<ul> <li>Students: 178</li> <li>Teachers: 5</li> <li>Teaching staff: 8</li> <li>Directors: 4</li> </ul>	
4. PAPS (Physical Activity Pauses at School) <b>UNDERSTANCE</b>	<ul> <li>Allow students to meet their need for physical exertion in the classroom.</li> <li>Promote physical activity.</li> <li>Reduce periods of inactivity.</li> <li>Improve attention, concentration and focus on students' tasks following this break in learning.</li> </ul>		<ul> <li>Mixed methodology :</li> <li>Qualitative</li> <li>Quantitative</li> </ul>	20 teachers of primary schools	Image: A marked black
5. Dare to save at school	- Analyze the impact of a first aid cycle, taught in physical education classes, on the theoretical knowledge and practical skills of students in secondary 5-6, secondary III, and primary 5-6.		Quantitative	<ul> <li>5-6 secondary: 155 students, 6 teachers.</li> <li>Secondary III: 112 students, 5 teachers.</li> <li>5-6 primary: 186 students, 5 teachers.</li> </ul>	
6. Playground layout	- Studying the behavior of children in the playground before and after setting up a teaching device.	Quasi-experimental study		<ul> <li>Havré site: 3 teachers and 48 students</li> <li>Morlanwelz site: experimental courtyard (9 teachers and 196 students); witness court (12 children and 284 pupils)</li> </ul>	

## Figure 3: Analysis grid of the 6 evaluated projects (main criteria) completed.



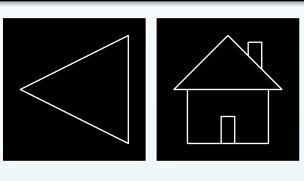


1. Development of

	Results
f the playground	The preliminary results show that the variables are r the implementation of the device "Active Court ».

Figure 3.1: Focus on results from project "Development of the playground".

related to the type of material but also to



2. Nutriathlon	1) Effective participation: we observe
	2) Student satisfaction: 40% of the state the challenge were the health aspect challenge (5%). 10% of participants re
	3) Feasibility of the implementation of teachers of the partner school. The loc family (94%). It should also be mention well as the proposal of fruits and veg dedicate more than one hour of their type of project, the latter taking up spa
	4) Eating habits: 25% of the students is higher than those obtained in a p students were able to increase this of increase in fruit and vegetable cons products per day. In our case, we obs 2.05 servings per day. It then decreas servings per day at the end of the exp meat and fish per day. This consum observed in the last week with 1.51 course of the project, these amounts increase in consumption with 0.61 an per day (during the week) and this pro- week).



#### Results

that 51% of the students claim to have participated throughout the project.

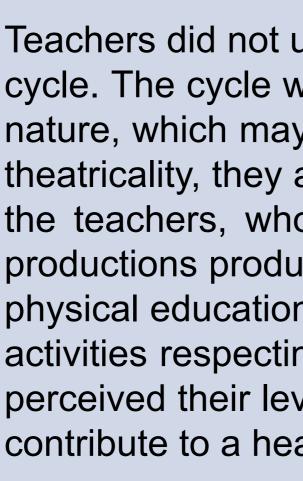
students said they were not interested in the challenge while 36% indicated they were. 24% did not answer the question. The different aspects assessed in of these (31%), the awareness that it brings (20%), the fun induced (15%), the method used (10%), the social aspect (9%) and finally the accessibility of the refrained from answering.

of this type of device: the implementation of the device has encountered some difficulties concerning the involvement of parents and physical education ow involvement of parents could have been a major factor in the student's motivation. We noted that most students participated in the challenge without their ioned that only one parent attended the adult information session. According to K. Chamberland, parents are a factor of success through encouragement as getables or healthy picnics. Regarding the teachers, we noticed a lack of enthusiasm. Despite the request of the participants, the teachers weren't willed to course to this project. It is difficult for us to know the reasons for this refusal. We assume that the teacher did not see the any benefit he can derive from this pace.

say they have changed their eating habits. The consumption of fruits and vegetables in week 1 was 4.7 portions on average per day (weekdays). This result pre-test by Chamberland (2016) in Quebec, where young people reported eating an average of 3.5 portions per day. In contrast, in the Canadian study, consumption of fruits and vegetables over the weeks to reach an average peak of 6.4 servings per day. In our research, we did not observe a significant sumption. Regarding the consumption of dairy products, Chamberland (2016) observed that Quebeckers consumed an average of 1.6 servings of dairy oserved that our students consumed 1.67 servings of dairy products in the first week. This consumption increased significantly in week 2 with an average of eased in the third week to return to an average consumption of 1.97 servings in the last week. In comparison, Canadians have managed to average 3.5 periment (Chamberland, 2016). In terms of meat and fish consumption, we observe that in the first week, students consumed an average of 1.27 servings of nption increased to 1.35 servings in the second week and decreased to 0.98 servings per week at the end of the experiment. Peak consumption were servings on average per day. Finally, drinking water and tea at the beginning of the experiment were 0.52 and 0.33 portions per day on average. In the ts decreased progressively, reaching 0.47 and 0.16 portions per day on average during the third week. Only in the last week we observed a significant nd 0.37 portions per day. In our project, we also asked students to mention their sports practices. We observed that the students practiced 0.37 times of sport ractice increased in the second week to 0,51 times of sport per day. At the end of the experiment, we found the initial score wit 0.4 times per day (during the

Figure 3.2.: Focus on results from project "Nutriathlon".

#### Oblomov: move, play, create!

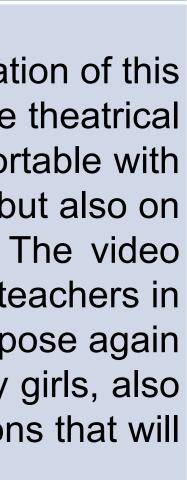




#### Results

Teachers did not use this type of pedagogical approach with their students (health, use of HIIT, expression, use of the video tool) but seem open to the experimentation of this cycle. The cycle was relatively appreciated by all teachers. All seem to adopt this new pedagogical approach, with success. However, some reluctance persist. The theatrical nature, which may frighten most teachers at the beginning of the cycle, has proved to be a welcoming aspect. Even though some teachers are not yet quite comfortable with theatricality, they are rather supportive of this concept and are not averse to change their habits. The health messages had a considerable impact on the students but also on the teachers, who became aware of the importance of these messages but also of their role in promoting a healthy and active lifestyle for their students. The video productions produced by the students are enthusiastically adopted by teachers and management. The four directors and the majority of the incumbents hope that teachers in physical education will continue to implement activities using the principles of open scenario. With regard to teachers in physical education, all are motivated to propose again activities respecting the principles of the Oblomov approach. The Oblomov cycle allowed students to acquire theoretical knowledge of health. Students, especially girls, also perceived their level of physical activity to be increased following the introduction of the cycle. Most students have made concrete, simple and accessible adaptations that will contribute to a healthy lifestyle. In contrast, eating habits, emotional intelligence, and emotion management have not improved.

Figure 3.3 : Focus on results from project "Oblomov: move, play, create!".

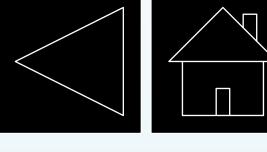


#### 4. PAPS (School Physical Activity Breaks)

#### Results

20 teachers participated in the training; 14 of them answered the initial questionnaire; 3/14 did not participate in this project (reason given: lack of time to implement this new device in their class). 11/14 replied to the final questionnaire. Of these 11 teachers, for whom pre- and post-test data were available to us: 7 teach in basic education: 2 in primary and 5 in kindergarten, 4 in specialized primary education (T1 to T8). Overall: the teachers interviewed feel able to set up PAPS (x-bar = 3,2 / 4), even if the implementation of these does not seem easy at first (s = 2,1). They generally evoke the constraint of the class-space as a brake (x-bar = 2,8). Concerning the students, these teachers have a particular interest for PAPS at home (x-bar = 3,8), while identifying positive effects on their attention (x-bar = 2,8) and their motor skills (x-bar = 2,7). There is a potential bias for the insertion of PAPS: the school levels concerned (maternal and primary). In nursery schools, children are naturally led to be more active throughout the day (special teaching situations, in the form of free workshops). Such breaks in physical activity would not seem so relevant for this level. This is particularly observable in view of the lack of participation of kindergarten teachers.

Figure 3.4: Focus on results from project "PAPS".



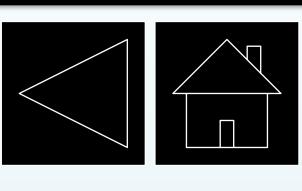
#### Dare to save at school



Secondary 5-6 study: from T0 to T2, significant improvements in knowledge of the RCP + DEA protocol were observed (from 7 ± 3.4 / 20 to 16 ± 2.4 / 20, p < 0.001) The mean score from the scorecard was 16 ± 1.7 / 20 at T1 and remained fairly constant at T2 (15.3 ± 1.8 / 20). The first aid cycle has improved students' knowledge, skills and confidence. Teachers in physical education felt valued and able to contribute autonomously to this major public health challenge. Secondary III study: a highly significant improvement in theoretical knowledge between T0 and T2 was measured (from 5.11 / 20 to 11.62 / 20, p < .001). ). The mean score obtained from the evaluation grid was 9.77 / 20 in T1 and slightly increased in T2 (10.31 / 20) significantly (p = 0.04). Students' confidence in their ability to help a victim of cardiac arrest increased steadily throughout the project. A growing interest of students in the cycle and its introduction in physical education classes has been observed. The first aid cycle was well received by the teachers and their colleagues, by the school management and by very receptive students. Primary 5-6 study: highly significant improvements in first aid knowledge among students were observed between T0 and T1 (4.8 ± 3.69 to 11.75 ± 3.6 / 20, p < .001). This average then decreased very significantly between T1 and T2 (11.09 ± 3.4 / 20 in T2). The mean score at the practical assessment was 17.08 ± 1.82 / 20 in T1, before decreasing highly significantly (p < 0.001) and reaching 15.53 ± 2.16 / 20 in T2. Theoretical knowledge, practical skills, as well as student confidence have been improved following the first aid cycle. Physical education teachers were satisfied with the cycle that was proposed and judged the training to be appropriate.

#### Results

Figure 3.5: Focus on results from project "Dare to save at school".



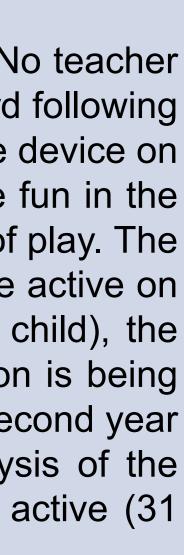
#### Playground layout



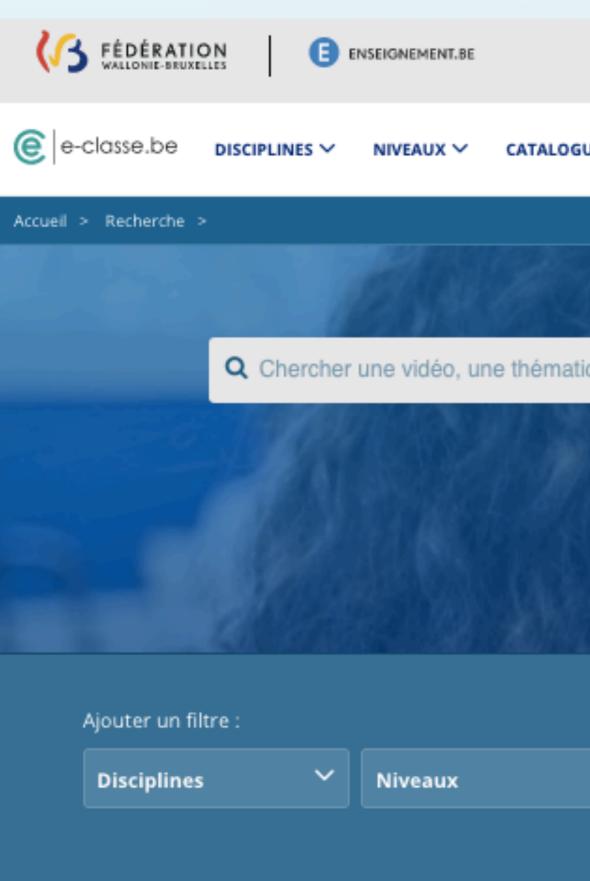
#### Results

STEP 1 - All the teachers said that they appreciated the system put in place but they also encountered difficulties during the supervision of the court. No teacher has had control of the rules of the games in the trunk or how to use the equipment. Opinions are divided concerning the presence of conflicts in the yard following the presence of the trunk of games. The teachers have also suggested ways of improvement that have been taken into account for the adaptation of the device on the Morlanwelz site. STEP 2 - The average satisfaction level of pre-development teachers is 5,75 / 10. All teachers report that children seem to have fun in the yard and point out different behaviors in boys and girls. The entire team is also subject to conflicts, mainly due to non-respect or ignorance of the rules of play. The children identified their favourite activities. STEP 3 - Before the intervention, in the experimental yard (6,33m<sup>2</sup> surface available / child), the children are active on average 336,23 seconds (s = 91.76) of which 189,91 seconds in displacement (s = 71.78). While in the control yard ( $6.31m^2$  of available space / child), the children are active on average 351.93 seconds (SD = 99.) Of which 206.06 seconds in displacement (s = 81,26). Data collected after the intervention is being processed. STEP 4 - A total of 149 parents responded to the questionnaire (75 girls and 74 boys). Of these, 29 are in the first year (19,5 %), 22 in the second year (14,8%), 27 in the third year (18,1%), 26 in the fourth year (17,5%), 14 in Grade 5 (9,4%) and 31 in Grade 6 (20,8%). At the end of the analysis of the questionnaire and based on the activity time at home, three groups of children were formed: few (92 children), moderately (28 children) and very active (31 children). Data provide information about the child's living environment, eating behaviors, sleep and family.

#### *Figure 3.6:* Focus on results from project *"Playground layout".*



## Identification and validation of good practices promoting physical activity, wellbeing and health through a collaborative didactic engineering approach Jérémy Bonni, Jean-Philippe Dupont, Benoit Vercruysse, Sylvie Herreman & Marc Cloes University of Liege (SIGAPS) - Belgium



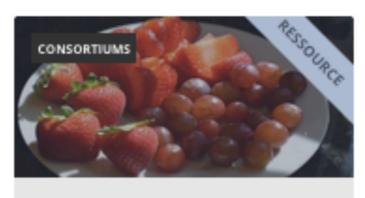
#### ÉDUCATION PHYSIQUE, BIEN-ÊTRE ET SANTÉ

#### 48 contenu(s) disponible(s)



#### Itinéraire Wallonie Vélo 2013-2014

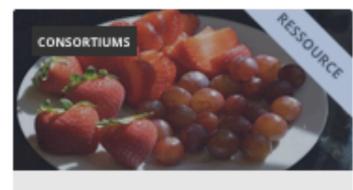
En juin 2014, 36 élèves de 11 à 13 ans sont partis de Liège à vélo pour arriver à Bruxelles cinq jours plus tard (250 km de piste cyclable). Ces élèves souffrent d'un léger retard mental, de troubles du comportement ou de maladies.



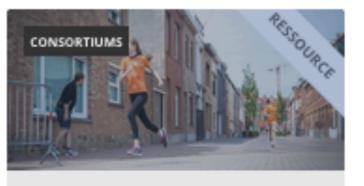
Nutriathlon

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« Le Nutriathlon est un programme novateur qui a pour but d'amener chaque participant à améliorer la qualité de l'alimentation en augmentant et diversifiant la consommation de fruits, légumes et produits laitiers. » (Gagnon, Drapeau et Nadeau, S.D.)

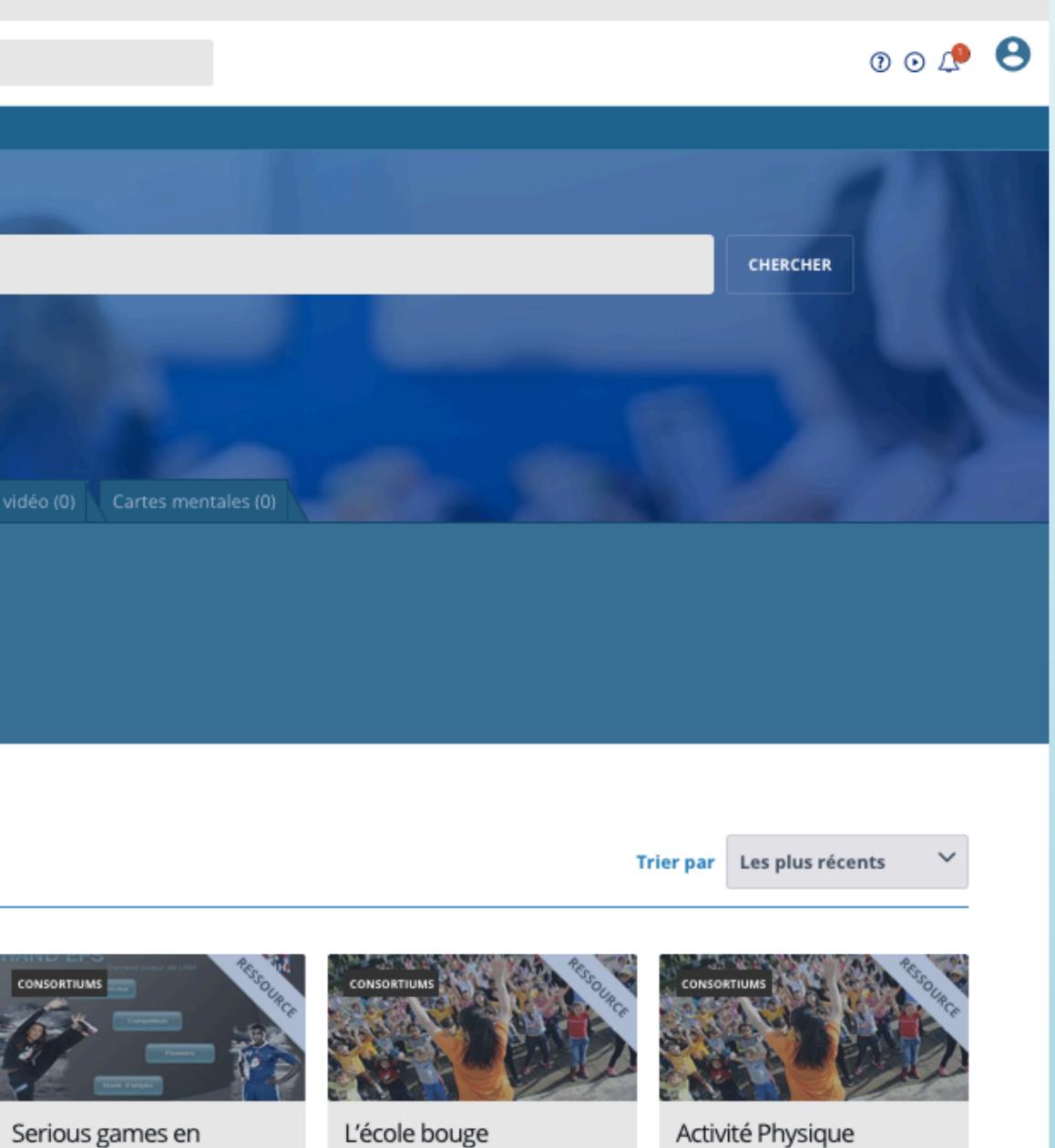


Moi j'croque Le Défi « Moi j'croque » invite les élèves du primaire à manger cinq portions de fruits et de légumes par jour grâce à des thématiques annuelles à la hauteur de leur imaginaire.



Muuvit

Muuvit est un outil pédagogique favorisant l'activité physique destiné aux enseignants des classes primaires. En bougeant au quotidien, les enfants accumulent des points qui sont convertis en kilomètres à parcourir pour l'ensemble de la classe.



Serious games en éducation physique

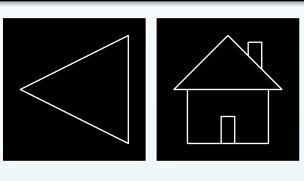
Plusieurs serious games ou jeux sérieux en éducation physique ont été développé dans plusieurs disciplines sportives. A travers cet outil, les élèves peuvent réaliser une évaluation diagnostique de leurs forces et de leurs faiblesses.

#### Figure 4: Illustration of the educational platform "e-classe".

« L'école bouge » est un programme national qui vise à encourager l'activité physique dans les écoles et les structures d'accueil de jour. Il a été dirigé de 2005 à 2016 par l'Office fédéral du sport (OFSPO).

Quotidienne Il s'agit d'un guide visant à aider les directeurs et directrices d'écoles élémentaires à mettre en œuvre la politique en matière d'activité physique quotidienne.



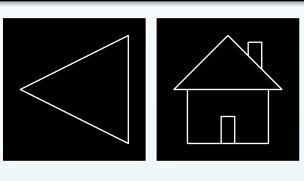


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# <u>University of Liege</u>

**Representatives : Pr. Marc Cloes & Jérémy Bonni** 



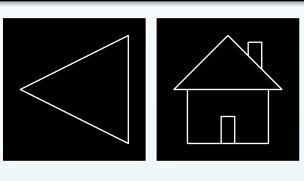
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## Haute Ecole Leonard De Vinci



Representatives : Pr. Jean-Philippe Dupont & Xavier Flamme

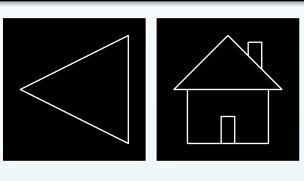


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## Haute Ecole Robert Schuman

# HAUTE ÉCOLE ROBERT SCHUMAN

Representatives : Pr. Benoit Vercruysse, Nicolas Bodard & Amélie Brau

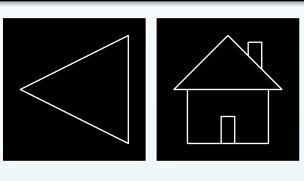


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# Haute Ecole Condorcet

**Representative : Sylvie Herreman** 

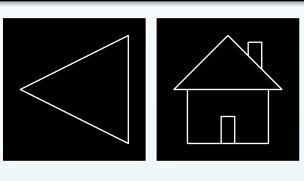


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# **Université catholique de Louvain**



## **Representative : Pr. Cécile Delens**



Jérémy Bonni, Jean-Philippe Dupont, Benoit Vercruysse, Sylvie Herreman & Marc Cloes University of Liege (SIGAPS) - Belgium



# Haute Ecole de la Province de Liège

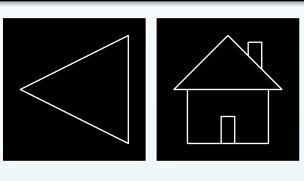
# Haute Ecole de la Province de Liège

## **Representative : Annick Lapierre**









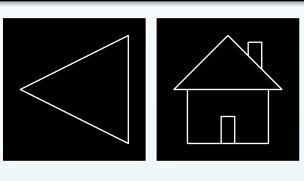
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## Haute Ecole Libre Mosane

# Haute Ecole Libre Mosane

# **Representatives : Véronique Drosson & Isabelle Magnée**



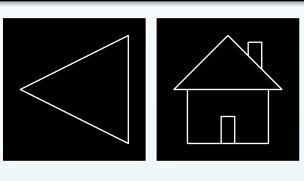
Jérémy Bonni, Jean-Philippe Dupont, Benoit Vercruysse, Sylvie Herreman & Marc Cloes University of Liege (SIGAPS) - Belgium

# Haute Ecole Charlemagne



**Representative : Nicolas Wintgens** 

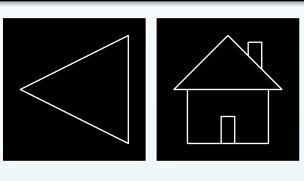




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# <u>Université Libre de Bruxelles</u>





Jérémy Bonni, Jean-Philippe Dupont, Benoit Vercruysse, Sylvie Herreman & Marc Cloes University of Liege (SIGAPS) - Belgium

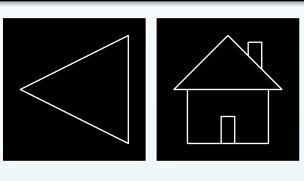
# Haute Ecole Liège-Namur-Luxembourg (HENALLUX)



## **Representative : Valérie Mees**







Jérémy Bonni, Jean-Philippe Dupont, Benoit Vercruysse, Sylvie Herreman & Marc Cloes University of Liege (SIGAPS) - Belgium



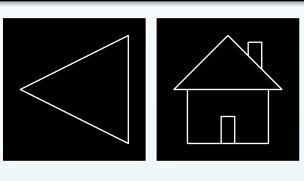


# <u>Haute Ecole Bruxelles-Brabant (HE2B – Nivelles)</u>

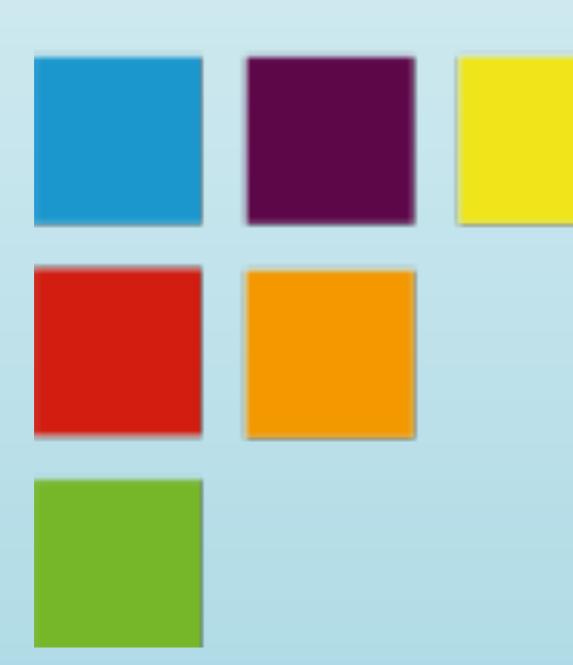
## **Representative : Fabrice Remacle**







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## Haute Ecole Francisco Ferrer



**Representative : Céline Dandois** 

