

Rethinking Schools as a Setting for Physical Activity Promotion in the 21st Century—a Position Paper of the Working Group of the 2PASS 4Health Project

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Title page

Rethinking schools as a setting for physical activity promotion in the 21st Century - A

position paper of the working group of the 2PASS 4Health project

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1 Title page

- 2 Rethinking schools as a setting for physical activity promotion in the 21st Century A
- 3 position paper of the working group of the 2PASS 4Health project
- 4 Abstract (130/150 words)
- 5 Schools are ideal settings to promote adolescent physical activity (PA), yet school-based
- 6 interventions have failed to exert any long-term impact. This position paper presents key issues
- 7 inhibiting school-based interventions. Multi-author expertise and collaborative conceptual
- 8 thinking through literature reviews, evidence syntheses and online and in-person meetings
- 9 advanced our opinion. **Key arguments:** 1) the adoption of a systems approach, which
- maximizes partnership action and leverages policy is crucial for understanding the complexities
- of implementing whole school programs; 2) a reorientation to an assets approach, with greater
- emphasis on the full range of physical, cognitive, emotional and social benefits that PA
- provides, and 3) a move beyond traditional research design to advance our knowledge of what
- works better, for whom and in what context. We provide suggestions for researchers,
- specifically advocating for systems approaches, as a realistic way to improve how we support
- 16 PA in schools in the future.
- 17 Keywords: Adolescents, whole school programs, systems approaches, partnerships, assets
- 18 approach

Introduction

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The benefits of physical activity (PA) are widely understood in the research community. Regular engagement in PA affords multiple physical, cognitive, emotional and social benefits (Pesce et al., 2016). Yet, despite an increasing body of research output, worldwide progress to increase PA has been slow, largely due to lack of awareness and investment (World Health Organisation (WHO) 2019). Proportions of school-aged children meeting guidelines of on average 60 min of moderate-to-vigorous PA daily remain persistently low, with no meaningful progress being made for girls or boys across low-, middle- and high-income countries (Aubert et al., 2018; Guthold et al., 2020). Schools are settings, in theory, ideally placed to provide children and adolescents with opportunities during, before, and after school hours to meet a substantial part of current international PA guidelines, while also giving them the necessary tools to be autonomously active across the lifespan (van Sluijs et al., 2021). To this end, a whole-school approach is currently recommended as the gold standard of practice, consistent with the principles of the WHO and United Nations Educational, Scientific and Cultural Organization initiative *Making* Every School a Health Promoting School (WHO & UN2020). A whole-school approach involves prioritizing and promoting PA to the entire school community through supportive policies, environments and opportunities (Milton et al., 2021). Schools are seen as a universal context to access and influence all children, however, the potential of school-based interventions to positively impact children's PA behaviour remains unfulfilled or uncertain at best (Love et al., 2019; van Sluijs et al., 2021; Rodrigo-Sanjoaquín et al., 2022). In the context of an Erasmus+ Sport project called Promoting PA at Secondary Schools for Health (2PASS-4Health; project number 622733-EPP-1-2020-1-FR-SPO-SCP) we used the following process to elaborate this position paper. We conducted multi-author expertise and

collaborative conceptual thinking through literature reviews, evidence syntheses and online and in-person meetings to advance our opinion. As a result of this group reflection, we propose that greater attention to key issues is needed to fully realize the potential of schools as an ideal PA promotion setting. These issues include 1) a systems approach, including the role of partnerships and policy, 2) an assets perspective, and 3) the nature of evidence required to bridge the evidence and implementation gap, sustain and scale-up school-based innovations and solutions to address inactivity. We provide case study examples of school-based interventions that align, in part, to a systems approach across three EU countries.

1) A systems approach to PA promotion in schools

The Global Action Plan for PA (GAPPA) advocates for a systems approach, indicating that a comprehensive, integrated and inter-sectoral effort is needed to increase population levels of PA (WHO, 2019). The social ecological model points to a multi-level response that addresses personal, environmental, and policy factors acknowledging the interconnectedness between the individual and their environment (Sallis et al., 2006). In brief, no single solution has been effective in addressing physical inactivity to date, consequently a complex systems model of public health which conceives issues such physical inactivity, irrespective of context, as requiring multiple interdependent factors within a connected whole may hold promise (Rutter et al., 2017). This approach acknowledges the complexity and non-linearity of PA behaviour, its multiple influences and the importance of the connections, interactions and feedback between intervention levels and components (Allender et al., 2015; Peters, 2014; Rutter et al., 2019; Rutter et al., 2017). This approach would aim to corral key stakeholders relevant to the school setting to make their actions and efforts coherent in a way that addresses the complexity of PA promotion for all children in their school.

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Much of the work that is undertaken in schools to promote PA does not take a systems approach, rather most of the intervention literature describes single-component interventions (e.g. changing aspects of physical education only or focusing only on change at the individual level) (Borde et al., 2017; Jones et al., 2020). Many of these interventions operate within a reductionist and deficit paradigm, aiming to change certain elements of the system (e.g., they may be pertinent to first year students only, or they may focus on individuals reducing sedentary behaviour over a 6-week period). This fragmented approach, relies on isolated, often topic- and target group-specific activities/strategies in the school setting. The systems approach, we believe, provides another lens within which to analyze the inactivity challenge among school children. It provides a framework to help examine the factors involved in the problem, recognising that actions should be integrated across political, societal, cultural, economic and scientific domains (Rutter et al., 2019), and that these domains are inherently linked to each other. We believe this enhanced understanding of the context within which school-based interventions take place; is crucial to overcoming current limitations in this area. Different frameworks that align with the systems-based approach exist in the literature and are available for those who want to promote PA through a systems-based rather than a fragmented approach. The Health Promoting Schools (HPS) approach emerged as a holistic intervention strategy aligned with the principals of the Ottawa Charter for health promotion (WHO 2017). The HPS approach stands in contrast to the fragmented approach and works best when developed from within schools and the educational system (Dadaczynski et al., 2020). Conceptually similar, the 'whole-school approach' provides another example of a framework for action that identifies the multiple levels and components required to establish schools as a complex sub-system (Milton et al., 2021). This facilitates comprehensive, coordinated PA intervention design and implementation by engaging all relevant stakeholders to co-create supportive social, physical and policy environments and drive change at the system level

(Gamble et al., 2017). Daly-Smith and colleagues (2020) developed the Creating Active 92 Schools (CAS) framework using a systems approach to provide clarity on the components of a 93 94 whole school concept. This framework conceptualizes the school as a complex adaptive system where an "active school" is central to the school's beliefs, customs, and practices that 95 drive school policy. 96 97 However, the application of systems science principles in school settings is not without its challenges. It is necessary to have a sufficient understanding of systems thinking and the 98 process of generation and application of new knowledge to foster system improvement (Rosas, 99 2017). This requires understanding contextual factors relevant to the school system. All 100 individuals within the school setting and in a role that either directly or indirectly influences 101 PA are important to the systems approach. In addition, information on the schools' 102 demographic profile, its' built and policy environments, its' facilities, equipment and level of 103 staff training, the interest of students and the schools' priorities in relation to PA are all 104 105 important parts of a systems approach. To understand how the different parts of, and people within the system may relate to one another, Allender and colleagues (2015) recommended 106 developing a "systems map" or a visual depiction of the system. This would involve engaging 107 108 all key stakeholders in the process, and through an iterative approach, build and revise maps to better understand the system within their school. This can lead to a better communication 109 between, and an enhanced understanding of, the different actors and actions and their reciprocal 110 interactions relevant to the promotion of PA within a school setting (Rutter et al., 2019). This 111 approach can also help stakeholders understand why the school system functions as it does to 112 promote PA (or to maintain physical inactivity), and to identify modifiable points within the 113 system, key levers for change, that if amended could lead to better opportunities for increasing 114 population levels of PA throughout the whole school. 115

The importance of leadership to PA promotion in schools

One of the guiding principles of the GAPPA incorporates a call for "partnerships for action" to
foster collaboration across and between stakeholders at all levels of the systems and sub-
systems involved in the vision of achieving the multiple benefits of a physically active world
(WHO 2019). Similarly, the International Society for PA and Health's (ISPAH) 'Eight
Investments that Work for PA' (Milton et al., 2021) and their 'Toronto Charter for PA' (GAPA
& ISPAH 2010) urge PA promotion actors to move away from isolated interventions in their
respective silos, to collaborative, cross-sectoral efforts e.g., schools, health, transport, sport,
community services and so on.
The sustainability of a systems-based approach to PA promotion requires appropriate
governance (Milton et al., 2021). In schools, a key governance factor contributing to the extent
of implementation of PA, or other health initiatives, is the presence of visible, competent and
supportive leaders, which in some cases need to be appointed and trained for such purposes
(McMullen et al., 2022; Webster et al., 2015). Storey et al. (2016) found that supportive school
principal involvement for the implementation of a comprehensive school health approach
included prioritizing the initiative in the school's agenda, actively serving on the
implementation team, and being an advocate and role model for the initiative. How to get
administrator 'buy in' and support for school-based PA promotion initiatives, including how
to change the school 'ethos' (Lee & Welk, 2019), should be a priority on researchers' agenda
(Haerens et al., 2007).
However, consistent leadership and management structures alone are insufficient to achieve a
systems approach. Partnerships, both within and outside of the school community, working
in complementary, synergistic ways is necessary to improve the system and ultimately increase
levels of PA for children in the school setting. This involves internal and external partnership
supports, adequate resources, opportunities for professional development and supportive
policies help realize a systems approach (Rosas, 2017). The creation of a systems map

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(described earlier) will help to clarify who should be involved and delineate roles and responsibilities for program success.

The role of policy for PA promotion in schools

Among the wide range of potential solutions that have been identified to address the inactivity challenge, there is increasing recognition of the importance of upstream or policy responses (Lakerveld et al., 2020). Fittingly, the role of policy is to change systems rather than individuals, to create supportive contexts in which programs and environments jointly promote health. Policy interventions should not be confounded with other types of program or environmental interventions; rather, policy interventions create the framework where programs or environmental changes are tendered, developed, funded, or implemented (Gelius et al., 2020). Several strategic documents advocate for the use of policy as an instrument to promote health within the school setting, while providing a useful conceptual starting point for understanding the potential direct and indirect effects of policy on PA. Recently, Woods et al. (2021) provided the first systematic attempt at reviewing and assessing the evidence for the impact of school policy on PA outcomes. The policy areas for which the authors found evidence of impact on PA were physical education (PE), school sport, classroom-based PA, active school breaks, and shared use agreements. However, they pointed out that the range of policy options implemented and evaluated in the school setting remains limited and requires additional research attention. Providing children and adolescents with meaningful opportunities to be physically active through policies implemented in the school setting is an area ripe for applied and conceptual work. Examples of upstream policy responses are observed across many countries, including the five 2PASS-4Health countries. In the Portuguese secondary school system for example, PE is a mandatory core subject, has a minimum duration (timetabled for 150-minutes per week), key

curricular content - two team-sports, one gymnastic, one expressive rhythmic activity and two of athletics, skating or rackets and others – and contributes to accessing University. There are three levels for each curricular content: Introductory, Elementary and Advanced. Students shift from the Introductory to the Advanced level in all the sports taught from the 10th- 12th years building their knowledge related to the interpretation and participation in social structures and phenomena outside school in which PA is carried out.

2) An assets perspective to PA promotion in schools

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Approaches to the promotion of health are often based on a deficit or risk model, emphasizing patterns of ill-health and diseases, their prevalence and how to treat and/or avoid the diseased condition through the design of effective interventions (McCuaig et al., 2013). Applied to the school context, this approach involves emphasizing the harms of physical inactivity and how inactive our children are. Conversely, salutogenic health theory, first proposed by Antonovsky in the late 1970's, is an asset approach where the focus is on resources for health and wellbeing. The model suggests that a strong sense of coherence – shaped by life experiences – helps one mobilize resources available (Mittelmark & Bauer, 2017). A salutogenic approach aims to focus on all people in the system (and not only those at risk), while addressing and promoting 'salutary' factors (and not only remove risks) (Boonekamp et al., 2021). Translated to the school context, an assets approach involves helping students and staff recognize and focus on their available resources, including their abilities, experiences, places, and networks of support with respect to being active (Boonekamp et al., 2021). Arguably this approach has not been sufficiently maximized in research and policy to date in the PA promotion space and more specifically in school-based contexts (Sagy, 2014). Linked to this strength-based approach to health promotion, is the perspective that PA should be viewed as a right. Children's right to play - and be physically active - is enshrined in the UN Convention on the Rights of the Child (UNCRC) (UN & Childrens Right's Alliance2013) and indeed is considered as one of the most

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innovative aspects of the UNCRC (Davey & Lundy, 2011). Pesce et al. (2017), echoing a Swahili proverb, eloquently argue that we should "hitch the plough of PA promotion to the child's right to play and to be physically active"; and that this should not merely be operationalized as health-enhancing amount of PA, but as 'thoughtful moving' implemented within multi-sectoral contexts as enjoyable free play and deliberate activity.

Case study examples of a systems approach in action

Nobles and colleagues (2021) developed the Action Scales Model (ASM), a simple tool to help stakeholders conceptualize, identify and evaluate actions for change within complex adaptive In brief, the ASM describes four levels of influence on how a system functions: events, structures, goals and beliefs. Within these levels, leverage points on which to intervene to change the system can be identified. The deeper levels –goals, beliefs- providing greater challenge but also more potential to achieve real change in how the system functions and in turn, the main outcomes of the system. Events describe the observable behaviors and outcomes that result from the system working as designed. In our case, students may spend considerable time sitting and being insufficiently active as part of their regular school day. Physical (e.g., built environment), relational (e.g., relationships, rules) and informational (e.g., information flows) structures, in turn, cause events to occur. For example, lack of appropriate facilities combined with inefficient communication regarding the existence and importance of policies to support PA through the school day may hinder efforts to increase the time students are physically active during regular school hours. Goals describe the targets that the system aims to achieve, influencing how the system is structured and, consequently, how it works and the outcomes it produces. Back to our example, the explicit goal of an 'active' school may be to provide sufficient opportunities for students to be physically active throughout the school day. However, the school may not be taking the necessary steps to realize these aspirations, underlying the important distinction between 'stated' goals and 'observable' goals (Nobles et

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al., 2021). The final level of the ASM, *beliefs*, captures the values, norms or attitudes of individuals within the system, particularly those with influence and power, which are in turn reflected in the system goals. In our example, goals related to PA and sitting time may not be sufficient ambitious because the school leadership may not consider PA, and student health, as important enough in the context of other school priorities. Table 1 provides details on the application of the ASM to present three case studies across three European countries—Ireland, France and Spain- as examples of interventions aligned to the systems approach with varying levels of success.

In Ireland, the second level Active School Flag (ASF; https://activeschoolflag.ie/) program aims to increase adolescent PA by creating an active school through providing opportunities for student voice and leadership in PA (ages 12-18 years) (Ng et al., 2019; McHale et al., 2022). ASF is an initiative of the Department of Education and was developed using a co-designed approach with students, teachers, parents and the local community. The multi-level, multi-component program is led by senior students in their fourth year (aged 16 years) who are guided by two ASF coordinators (teachers) and a whole-of-school approach (Figure 1). Each school completes a needs assessment (survey) at the start of the school year, and the results are used to inform the schools action plan to promote PA for that year. There are three stages to achieving the ASF: i) Try it out (assesses readiness to engage with the program), ii) Certificate (focus on improving PA within the school environment) and iii) Flag (focus on improving PA in the community). A set of criteria is used to determine a schools' progression from one stage to the next stage, and currently 28 secondary schools are engaged in ASF. The process of completion of the ASF program and awarding of the flag can take from 3-5 years but is ultimately flexible to the schools' requirements.

- The French Mouv à l'école (Move at school) intervention aims to evaluate the 2. effectiveness of a school-based intervention designed to promote PA and reduce sedentary time of children (6-10 years old) from two schools recruited in a disadvantaged neighborhood (Bernal et al., 2021; Bernal et al., 2020). This multi-level, multi-component intervention offered five workshops to children to help them understand the intervention. Researchers also trained the teachers on active classrooms, sedentary breaks and educated them to the challenges regarding PA and sedentary behaviour. Researchers proposed to the city hall some changes to improve the daily PA and reduce sedentary time levels (changes in lunchtime, drawings in the school yards). Workshops with city sport educators were also conducted so that interventions can be sustainable and duplicated in other schools.
 - 3. The Sigue le Huella (Follow your footsteps) intervention in Spain seeks to involve all school actors (e.g., students, administrators, teaching and non-teaching staff, parents) in the creation of favorable environments for PA and empowering students to become actively involved in the design and implementation of activities and manage their own PA behaviour (Figure 2) (Murillo Pardo et al., 2019). A multisectoral advisory group, including all main actors involved in PA promotion in the city, provided feedback on the intervention. A member of the research team (facilitator) led and coordinated the intervention. The facilitator fostered a collaborative approach in which working groups of students, teachers, and parents participated in the design, implementation and evaluation of the intervention. Intervention strategies adopted curricular and extracurricular channels. The curricular channel included weekly hourly tutorial action sessions in the classroom and during PE classes. The extracurricular channel involved information dissemination activities for the broader community and participation in

programs	and	special	events	sponsored	by	institutions	or	organizations	outside	the
schools.										

[INSERT FIGURE 1 HERE]

[INSERT FIGURE 2 HERE]

[INSERT TABLE 1 HERE]

3. Nature of evidence needed to bridge the implementation gap, sustain and scale-up

innovations and solutions

To date, the evidence behind responses to public health challenges, like physical inactivity, have largely been generated by methods that were developed to answer questions about the effectiveness of clinical interventions, and as such are grounded in linear models of cause and effect not necessarily sensitive to context nor complexity (Rutter et al., 2017). While existing approaches and models to generate and use evidence in public health remain necessary, a shift in thinking is required to consider the conditions that drive system change. From this perspective, the focus shifts from whether interventions work to fix problems, to how they contribute to reshaping a system in intended ways and to establishing the conditions in which change can emerge (Rosas, 2017; Rutter et al., 2017). This requires rethinking research design, methods, tools and application.

Evaluation designs should be informed by the intervention itself (Jago et al., 2023), rather than the other way around. In fact, the latter, in the form of natural experiments, is often the only way to generate meaningful evidence regarding population health and complex interventions (e.g., whole-of-school programs). These types of designs should be embraced along with diverse types of evidence from pragmatic, yet robust, evaluations (Ogilvie et al., 2020). The UK Medical Research Council have recently published guidance for complex interventions which recognizes the wide range of designs beyond randomized controlled trials (Skivington et al., 2021). Notably, realist evaluation and synthesis principles and techniques have shown

promise to understand how programs work, for whom, and in which contexts/circumstances (Cardon & Salmon, 2020; Jagosh, 2019). Realist principles could be used in combination with several mixed methods strategies to integrate quantitative and qualitative data which offer researchers 'a world of possibilities' to understand in greater depth the often-complex topics under study (Pluye et al., 2018). Finally, a co-creation approach in which there is an equitable partnership between the target group, stakeholders and researchers is also believed to take the complex influence of real-world factors into account to bridge the implementation gap (Cardon and Salmon, 2020; Leask et al., 2019). Currently, researchers are advancing in providing principles and recommendations on how to apply co-creation in health promotion research (Leask et al., 2019) and in developing an evidence-based co-creation methodology (Verloigne et al., 2023), which will be beneficial for school PA research as well.

Conclusions/ future directions

There is consensus that urgent action is needed to address the inactivity pandemic that affects children around the world, and that schools represent an ideal setting for intervention as they reach majority of children who spend a substantial amount of time in this setting. We believe that the greatest progress is likely to occur through interventions that are effective in changing the system, rather than focusing on the individual. In this paper, we argue that a systems approach, one within which PA interventions are effective in the real world, implemented at scale, tailored to contextual requirement and fully embedded within existing structures, are most likely to sustain over time. Yet, evidence of this is limited. Reliance on the traditional research methods and designs will not yield the evidence required to advance the field. A paradigm shift from the fragmented intervention to a whole-of-school approach is necessary to achieve real change over the next decade.

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Whole School Process



Figure 1. Diagram showing the key stakeholders involved in the ASF programme with the implementers at the center

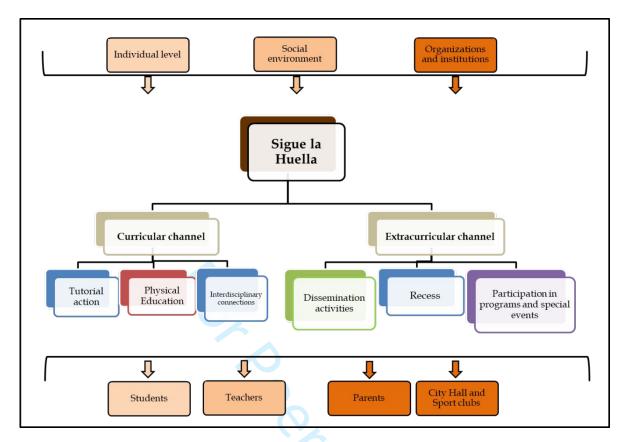


Figure 2. Diagram of the key stakeholders and components of the Sigue la Huella intervention

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Table 1. Case study examples of school-based programmes utilising a systems approach broken down into the four levels of the Action Scales Model (Nobles et al., 2021)

		Level of ASM					
		(example provided by Nobles et al., 2021, page 333)					
Initiative	Location	Level 1: Event	Level 2: Structures	Level 3: Goals	Level 4: Beliefs		
(Age		(Behaviours and outcomes	(Underlying structures and	(Goals, targets	(Deeply held beliefs, norms,		
Range)		that can be observed e.g.	patterns that cause events to	ambitions that the	attitudes and values of		
		Provide cycling training	occur e.g. Assess and	system wants to	individuals, organisations		
		to school children)	improve the physical	achieve e.g. Schools	within the systems e.g. Create		
			infrastructure for walking	work with parents and	a working group to champion		
			and cycling to school)	the community to set a	and promote active transport		
			Co	shared goal to reduce	to school to senior leaders in		
			G/A	short care journeys by	the council).		
				20% in next 5 years)			
Active	Ireland	Whole school survey	A timetabled ASF class for	The aim of the ASF	Readiness to engage with the		
School Flag		(maximises student voice	students to facilitate	programme is to create	ASF programme is assessed		
for Second		and directs actions).	programme implementation.	more opportunities for	with Senior Management,		
Level				adolescents to be	School Implementation		
(12-18 year		Whole-of-school events	2 ASF school coordinators	physically active, to	Teams, and resources/training		
olds)		(e.g. Active School Week	(teachers)	empower student voice	provided to maximise this		
		with multiple PA		and enable student	prior to undertaking the		
		opportunities and events).	A wider ASF staff	leadership over a 3–5-	programme.		
			implementation team.	year period.			
		An active school walkway			'Try-it-Out' opportunities		
		developed and	ASF national team		prior to full programme		
		implemented.	consisting of multi-sectoral		implementation provided to		
			stakeholders.		maximise commitment.		
		Evaluation: Schools must	Evaluation: Schools must	Evaluation: Using	Evaluation: Schools must		
		meet a pre-set criterion on	meet a pre-set criterion on	their ASF survey	meet criteria to determine		

ts, schools develop their readiness to engage with
spoke Action Plan the ASF programme, each
ue to their school, school needs to meet the
specific aims, criteria to progress to the next
ets etc. to increase stage of the programme.
opportunities in
school The 'beliefs' re: ASF increase
from minimum (Try-it-out;
ambition of the stage 1) to maximum (Flag;
targets increases stage 3). This is evaluated on
continuous scale an annual basis by the ASF
minimum (Try-it- national team and steering
stage 1) to group.
imum (Flag; stage
This is evaluated on A qualitative inquiry into the
nnual basis by the beliefs and values of the
national team and systems architects and those
ing group. affected by systems change
should be conducted.
objective of Sigue Different stakeholders are
fuella is to involved in Sigue la Huella.
ower student voice A multisectoral group
enable them to participates in periodical
organise meetings to provide advice on
active lifestyle. programme design and
implementation. These
include representatives from
city and regional agencies and
services in the areas of health,
education, youth, physical
activity and sports.
Researchers from the
at to the state of

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		Participation in programs or special events out of the school. Evaluation: The school conducts an evaluation of adolescent's PA levels during the final global active school week.	Evaluation: The school must make a reflective process at the end of the year about how these groups are organised or arranged.	Evaluation: The school conducts an evaluation of adolescent's perceptions from a quantitative and qualitative point of view.	University and school actors are essential actors in this adaptive system. Evaluation: A qualitative inquiry into the beliefs and values of the systems architects should be conducted.
Mouv à l'école (Move your way)	France	5 workshops to children, 1 workshop to the parents. Researchers train teachers on active classrooms, sedentary breaks activities. Researchers educated teachers on the challenges of PA and sedentary behaviour. Researchers proposed changes to the city hall to improve daily PA and reduce ST (changes in lunchtime, drawings in the schoolyards).	The actions proposed are discussed between stakeholders (i.e., children, researchers, school staff, city staff of Tarbes). Teachers assisted by researchers organize the implementation within each of the schools. The formation and the implication of the PE teachers allow the extension of this intervention to other schools of the city (i.e. they become the leaders of it). Doctoral student as supervisor of the project Principal, teachers, doctoral student as committee to	The aim of "Mouv' à l'ecole" is to enable the different stakeholders (teachers, school direction, students, parents, PE teachers, lunch service, afterschool carers) to create the conditions to increase PA and decrease ST in a sustainable way within a school context.	The representation of the different stakeholders on PA and ST levels, the importance of PA and the link between PA, attention and academic success were challenged and led to evolve. Researcher workshops with city hall members helped technicians and local policymakers to develop a common view of challenges and issues dealing with PA and sedentary behaviour. Workshop with teachers helped them to realise they could effectively be a part of the solution and enhanced their own confidence in changing their class habits.

	Workshops were held with city PE teachers to ensure sustainability and repeatability of the intervention.	define which change could be done in school						
	Evaluation: Attendance at workshops, quantitative evaluation of PA and ST levels as well as physical fitness and motor skills evaluation pre and post intervention as well as long term	Evaluation: number of schools ready to engage in this project. Within the school, number of actions engaged to increase PA and decrease ST as well as their degree of sustainability	Evaluation: The project should be evaluated through a process evaluation	Evaluation: A qualitative evaluation of teachers opinions of the intervention effects and efficacy. This qualitative evaluation could be extended to different stakeholders				
eer Review								