

DEVELOPING HEALTH ENHANCING PHYSICAL ACTIVITY MODULES FOR HIGHER AND VOCATIONAL EDUCATION

G. van Vuuren Cassar, Canterbury Christ Church University (UNITED KINGDOM)

K. De Martelaer, Free University of Brussels (BELGIUM) & Utrecht University (NETHERLANDS)

T. Skovgaard, University of Southern Denmark (DENMARK)

J.De Jong, Hanze University of Applied University Groningen (NETHERLANDS)

Icери 2017

Seville

16-18 November 2017

share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union



BACKGROUND



- The **Health Enhancing Physical Activity** network in Europe (HEPA) aims to promote a better understanding of health-enhancing physical activity, and give a stronger voice to physical activity promotion in health policy and in other relevant sectors in Europe.

Healthy Lifestyle, Sports and Physical Activity

share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union



Canterbury
Christ Church
University



LITHUANIAN
SPORTS
UNIVERSITY



Vrije
Universiteit
Brussel



UNIVERSITY OF SOUTHERN DENMARK

PROJECT GOALS: SPORT PHYSICAL EDUCATION AND COACHING IN HEALTH (SPEACH) PROJECT

- Raising awareness about behavioural change towards an active and healthy lifestyle
- **Developing Health Enhancing Physical Activity (HEPA) modules in Higher Education**
 - **Physical Education Training Education (PETE) &**
 - **Sport coaching education programmes**



share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union



Canterbury
Christ Church
University



LITHUANIAN
SPORTS
UNIVERSITY



Vrije
Universiteit
Brussel



UNIVERSITY OF SOUTHERN DENMARK

BACKGROUND

QD1 How often do you exercise or play sport?

	Regularly	With some regularity	Seldom	Never	Don't know
EU28	8%	33%	17%	42%	0%
Gender					
Man	9%	36%	18%	37%	0%
Woman	7%	30%	16%	47%	0%
Age					
15-24	11%	53%	17%	19%	0%
25-39	8%	38%	21%	33%	0%
40-54	8%	31%	20%	41%	0%
55 +	8%	22%	12%	58%	0%

Eurobarometer, (March 2014)

share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the Erasmus+ Programme of the European Union



Vrije Universiteit Brussel



BACKGROUND

	Age (years)						Hours
	All children 2-15	2-4	5-7	8-10	11-12	13-15	
Boys							
Weekday	3.3	2.8	2.8	3.0	3.7	4.2	
Weekend day	4.2	3.2	3.8	4.3	4.6	5.3	
Base	862	216	192	177	124	153	
Girls							
Weekday	3.2	2.8	2.7	3.1	3.5	4.3	
Weekend day	4.0	3.2	3.9	4.1	3.8	5.1	
Base	868	212	184	191	135	146	

Sedentary time per day in children, by age and gender, England 2012 (BHF, 2015)

share your talent. move the world.

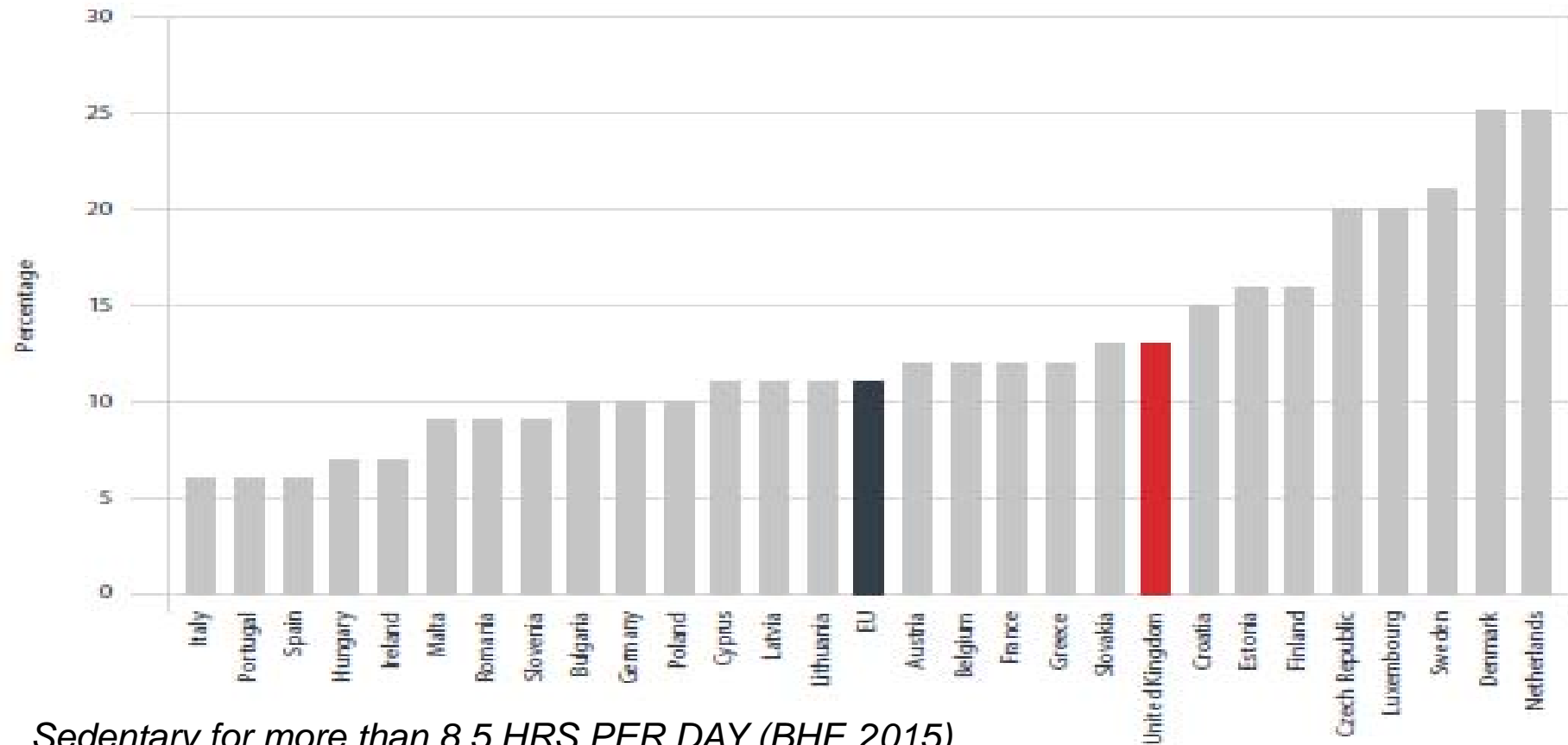
An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union



ADULTS SEDENTARY BEHAVIOUR



Sedentary for more than 8.5 HRS PER DAY (BHF, 2015)

share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the Erasmus+ Programme of the European Union



PROJECT DESIGN



- *Management, monitoring & evaluation*
- Needs analysis
- Module development
- Training concept development
- Piloting, review & validation
- *Quality assurance*
- *Sustainability*

share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union



NEEDS ANALYSIS



Healthy Lifestyle, Sports and Physical Activity

share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union



SURVEY RESULTS

Gender	Respondents	%
Male	426	65 %
Female	234	35 %
Total	660	100.0 %

Country	Respondents	%
Belgium	99	15.0 %
Denmark	73	11.1 %
Lithuania	92	13.9 %
Portugal	86	13.0 %
Spain	76	11.5 %
The Netherlands	167	25.3 %
The United Kingdom	67	10.2 %
Total	660	100.0 %

share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union



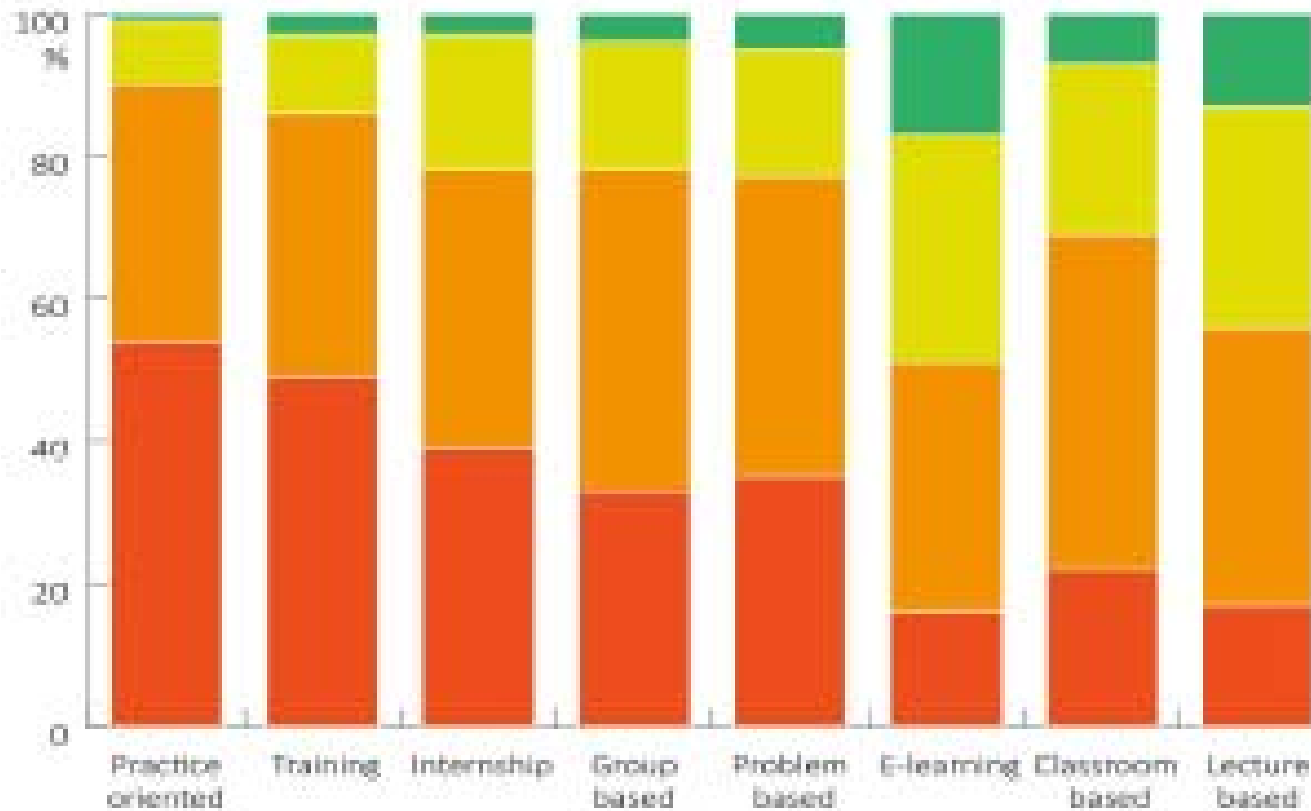
Vrije
Universiteit
Brussel



NEEDS ANALYSIS

IMPORTANT LEARNING METHODS

IMPORTANT LEARNING METHODS



share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the Erasmus+ Programme of the European Union



Vrije Universiteit Brussel



NEEDS ANALYSIS

MOST IMPORTANT CONTENT

Top 5 among PETE students:

1. Changing behaviour and motivation theories: 92 %
2. Physical activity for specific groups: 89 %
3. Personal leadership: 86 %
4. Health policy: 82 %
5. Nutrition: 79 %

Least important is: *Specific epidemiology* (62 %).

Top 5 among students in the field of coaching/training:

1. Changing behaviour and motivation theories: 88 %
2. Personal leadership: 85 %
3. Nutrition & Health Policy: 82 %
4. Physical activity for specific groups & Testing and exercise prescription: 78 %

Least important is: *Specific epidemiology* (60 %).

Experts: What is the most important content to focus on?

- Content such as health policy, motivation theory and nutrition
- General packages relevant for every sports discipline (for example nutrition)
- Specific content focusing on the possibility of specialisation.

share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union



Vrije
Universiteit
Brussel



MODULE DEVELOPMENT

	Themes / Scientific approaches	Responsible partner	Co-developer (PE)	Co-developer (CO)
1	<ul style="list-style-type: none"> Changing behavior + Motivational Theories Specific target groups 	Hanze	LSU	NOC*NSF
2	<ul style="list-style-type: none"> Health Policy Personal 	SDU	VUB	ICCE and ESDRM
3	<ul style="list-style-type: none"> Changing behavior + Motivational Theories Health Policy 	VUB	LSU	NOC*NSF and ESDRM
4	<ul style="list-style-type: none"> Nutrition Personal leadership 	CCCU	SDU	ICCE
5	<ul style="list-style-type: none"> Changing behavior + Motivational Theories Testing & prescription 	Hanze	LSU	NOC*NSF

For each theme, two complex HEPA cases were submitted by each responsible partner for peer evaluation – one case selected for generating a new module.

share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the Erasmus+ Programme of the European Union



Vrije Universiteit Brussel



MODULE DEVELOPMENT

	Title: Complex HEPA challenge	Responsible partner	Co-developer (PE)	Co-developer (CO)
1	<ul style="list-style-type: none"> Stimulating sport and physical activities for children with special needs towards a brighter future 	Hanze	LSU	NOC*NSF
2	<ul style="list-style-type: none"> Promoting HEPA among children and youth 	SDU	VUB	ICCE and ESDRM
3	<ul style="list-style-type: none"> A healthy lifestyle for the whole family! 	VUB	LSU	NOC*NSF and ESDRM
4	<ul style="list-style-type: none"> Nutrition, digital technology and physical activity for adults 	CCCU	SDU	ICCE
5	<ul style="list-style-type: none"> Influencing and monitoring behaviour towards HEPA 	Hanze	LSU	NOC*NSF

share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the Erasmus+ Programme of the European Union



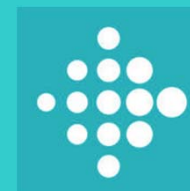
MODULE DEVELOPMENT

The Challenge: Nutrition, digital technology and physical activity for adults

You (and your team) have been tasked by your professional body to develop a **programme of health enhancing physical activity for a new client group, middle-aged adults (40-59).**

This programme will be piloted in your region in the first instance with the intention of rolling it out nation-wide. Your programme needs to bring together various policies, provisions and stakeholders that provide Physical Activities for this age group. **The unique characteristic of this programme will be the integration of information and wearable technology to support participants in their journey to participate in walking sports or other physical activities; to understand the changes of the human body; and the impact of nutrition and physical activity on their health.**

Fitbit
By Fitbit, Inc



share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union



Vrije
Universiteit
Brussel



MODULE DEVELOPMENT: Module templates

- Title
- The Issue
- The Setting
- The Complex HEPA Challenge
- Module handbook *23 parameters
- ***Learning outcomes (LO)**
 - Level 4-5 (Vocational)
 - Level 6 (Bachelors)
 - Level 7 (Masters)
- ***Student assignment(s)**
 - Task 1: Knowledge Enrichment Activity (20%)
 - Task 2: Assignment: Scientific report (group task) (40%)
 - Task 3: Portfolio of engagement with clients and the workplace (individual task) (40%)

Week to week schedule		
Week	Subject	Topic .. Content
1/2	Introduction	Nutrition and physical activity
3/4	Nutrition	Concepts and physical activity
5/6	Nutrition	Physiological applications and HEPA
7/8	Nutrition	Physiological applications and HEPA
9/10	Field trip	Target population settings
10/11	Digital technology	Technology for health enhancing physical activity
13/14	Leadership	Practical Workshop: Walking physical activities for participants
15/18 -20	Work based learning	Tutor and peer consultations
22-25	Preparation Assessment	Tutorials

share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union



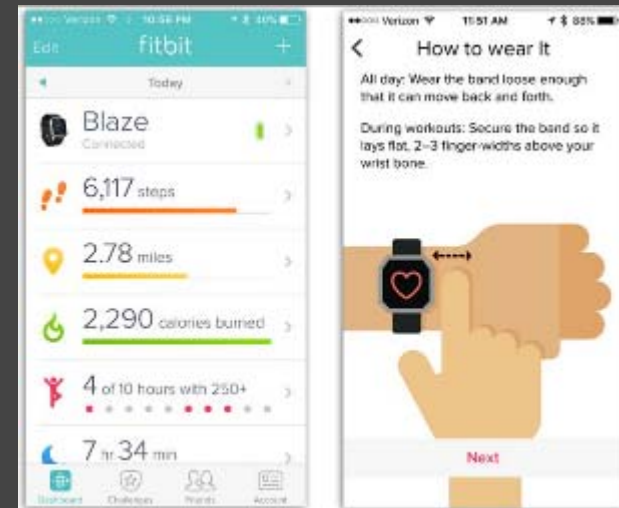
TRAINING CONCPET DEVELOPMENT

LEARNING OUTCOME

3. Record, analyse, interpret and critically evaluate data in this field, including the use of digital technology.

ASSESSMENT TASKS

Task 2: Assignment: Scientific report (group task) (40%)



share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union



TRAINING THE TRAINERS

Case based challenge: wearable technology

Class based learning & Group work

Activity



- ❖ Lab work: review wearable technology and apps that will be of interest to your client group for nutrition and physical activity.
- ❖ Discuss your findings with your classmates and share your findings. Upload your findings to a virtual learning environment that can be accessed by you and your future clients.

❖ *Web links, Books, Journals, Reports*

share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union



Vrije
Universiteit
Brussel



PILOTING MODULES

- From 6-10 February 2017, over 65 students from eight European countries joined the international SPEACH week hosted at Hanze University of Applied Sciences Groningen.
- **Three newly developed HEPA modules** were offered by a team of international and trained teachers. The three modules which were tested in a real educational and field setting were:
 1. Development of a family-based HEPA project in the school & sport club context
 - [A healthy lifestyle for the whole family!]
 2. Promoting health enhancing physical activity among children and youth
 1. Designing educational sport environments for children with special needs
 - [Stimulating sport and physical activities for children with special needs towards a brighter future]



An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union



Vrije
Universiteit
Brussel



- **Student feedback**

I know how to promote a healthy lifestyle through sport (p< .001***)

I know how to adapt a curriculum to fit HEPA needs (p< .000***)

I know how to design a health promotion programme (p< .000***)

I know how to motivate children (and parents) for a healthy lifestyle? (p< .015*)

PILOTING AND EVALUATION OF THE MODULES

share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union



Vrije
Universiteit
Brussel



Conclusion

DEVELOPING HEALTH ENHANCING PHYSICAL ACTIVITY MODULES FOR HIGHER AND VOCATIONAL EDUCATION

- The development of the modules by three partners from different institutions and background was a transformational journey.
- The combination of areas of content required the use of collaborative teaching approaches in Higher Education.
- The project team is very positive about the outcomes of the project.
- Students in the fields of physical education and sport coaching were delighted that theory and practice were combined in each practice; and that they felt this was relevant to the studies and authentic to the world of work.

share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union



Vrije
Universiteit
Brussel



References

- British Health Foundation (2015) *Physical Activity Statistics 2015* Available at <https://www.bhf.org.uk/publications/statistics/physical-activity-statistics-2015> (Accessed 15-7-2017)
(Report compiled by Nick Townsend, Kremlin Wickramasinghe, Julianne Williams, Prachi Bhatnagar and Mike Rayner. Nuffield Department of Population Health, University of Oxford)
- Eurobarometer (2014) *Special Eurobarometer 334: Sport and Physical Activity - Datasets* Available at: http://ec.europa.eu/commfrontoffice/publicopinion/archives/eb_special_419_400_en.htm#412 (Accessed 15-7-2017)
- WHO (HEPA)(n.d.) *HEPA Europe (European network for the promotion of health-enhancing physical activity)* Available at <http://www.euro.who.int/en/health-topics/disease-prevention/physical-activity/activities/hepa-europe> Accessed 15-7-2017)

share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union





Name Thank you for listening

E-mail address

Gemma.van-vuuren-cassar@canterbury.ac.uk

share your talent. move the world.

An initiative by the School of Sport Studies (Hanze University of Applied Sciences Groningen) in collaboration with:



Co-funded by the
Erasmus+ Programme
of the European Union



Vrije
Universiteit
Brussel

