

The Lausanne region is the backbone of the international sports community. It also plays host to a unique combination of academic and research entities in the sciences, health care, technology, education, event planning and design.

The Smart Move network draws on these entities to provide expertise and facilities to athletes intent on improving their performance and to sports federations and individual companies seeking to enhance their own activities in this area. Smart Move also offers a wide range of training and research services.

Meet and discuss with experts from the Smart Move network

Tuesday 15 May 2018

- 8:30 Smart Move network presentation**
- 10:45 **Customer-driven innovation in sport management**
-11:00 Carlos Martin-Rios / EHL
- 11:15 **AISTS MAS in sport administration**
-11:30 Giovanni Battista Derchi / AISTS
- 11:45 **Education and well-being**
-12:00 Vanessa Lentillon-Kaestner / HEP Vaud
- 12:15 Smart Move network presentation**
- 12:30 **Make sports live on TV**
-12:45 Romuald Mosqueron / HEIG-VD
- 13:00 **Unleashing your athlete with AI**
-13:15 Andres Perez-Uribe / HEIG-VD
- 15:45 **Brain-computer interfaces and sport**
-16:00 José del R. Millán / EPFL
- 16:15 **Determinants of ski-mountaineering performance**
-16:30 Bengt Kayser / UNIL

Wednesday 16 May 2018

- 9:00 Smart Move network presentation**
- 11:00 **Innovation to support the fight against doping**
-11:15 Fabien Ohl / UNIL
- 11:30 **AISTS MAS in sport administration**
-11:45 Giovanni Battista Derchi / AISTS
- 12:00 **Wearable heart rate monitoring**
-12:15 Enrico Staderini / HEIG-VD
- 12:30 Smart Move network presentation**
- 13:00 **Sustainable Games at a human scale**
-13:15 Alexandre Hedjazi / UNIGE
- 14:30 **Analyzing human motion in videos**
-14:45 Mathieu Salzmann / EPFL
- 15:15 **Biointerface for lactate monitoring**
-15:30 Cédric Bornand / HEIG-VD



Nine institutions providing research, development, training, technology and knowledge transfer services to sports organizations, companies and the public sector

thesmartmove.ch



Humanities and life sciences



The University of Lausanne (UNIL) is home to the Institute of Sports Science (ISSUL), a specialized sports education and research institute. ISSUL has become a leading international center for excellence in sports science. UNIL also hosts a sports research group that brings together over 120 members active in the following 12 sports-related research fields: Olympism, governance, anti-doping, law, fitness, the biology of exercise, appropriate physical activity, medicine, tourism, gender, media and history.

International sports governance



The University of Geneva (UNIGE) has broad expertise in many aspects of sports

in the social sciences, including international sports governance, sports-related training, sports law, and sports and sustainable development. In the life sciences, the university's efforts focus on doping analysis in pharmacology. UNIGE's sports-related activities are boosted by the strong ties the university has built with Geneva's international community.

Education



Properly trained teachers can effectively promote regular exercise. The University of

Teacher Education, State of Vaud (HEP Vaud) trains teachers who will encourage children and teenagers to engage in regular physical activity outside of school. HEP Vaud develops effective educational tools to promote participation in sports among young people. Its research work focuses on teaching and learning techniques in physical education and sports, the professional development of teachers and preventive health initiatives in schools.

Health care and medicine



Branded the Swiss Olympic Medical Center (SOMC), the Sports Medicine Center at the Lausanne University Hospital (CHUV) has three main areas of activity: it diagnoses and treats injured athletes, supporting and planning their recovery; it offers physical assessments for both amateur and seasoned athletes with a view to enhancing their performance and preventing injuries and overtraining; it works with those looking to take up exercise to enhance their fitness, and it offers a personalized exercise program for patients with chronic diseases. The SOMC conducts scientific and medical research in various areas of sports and sports medicine, as well as in the area of sports and health, in partnership with a number of institutions both within the Smart Move network and outside it.



The University of Health Sciences (HESAV) has specific expertise at the nexus of movement, sports and health care. This includes both preventing and treating disease, injuries and accidents through physical exercise, as well as helping people of all ages to take up a physical activity whatever shape they are in. The school carries out applied research projects in close partnership with social and health-care facilities and sports entities. It is very active in health-care promotion and prevention, targeting healthy, sick and disabled groups.

Hospitality



The success of sports events depends largely on how well they are managed, their format and the participants' experience - which is driven by the event's overall ambience. The consulting arm of the Lausanne Hotel School (EHL) offers sports organizations consulting services on all aspects of hospitality management, including food and beverage issues and infrastructure size. Sports organizations also hire EHL students for short-term work placements on major events.

Technology



The Ecole polytechnique fédérale de Lausanne (EPFL) has long been involved in sports-related projects in the areas of performance, accident prevention and public engagement. The school turns these initiatives into real-world applications through industry partnerships and the creation of startups. A total of 25 EPFL labs have conducted sports-related projects in areas as varied as physiological measurements and personal quantification, sports equipment, movement positioning and measurement, data analysis and the spectator experience.



HAUTE ÉCOLE
D'INGÉNIERIE ET DE GESTION
DU CANTON DE VAUD
www.heig-vd.ch

A number of institutes at the School of Engineering and Management Vaud (HEIG-VD)

have developed technologies capable of analyzing and enhancing the performance of high-level athletes and improving broadcasting quality. These developments apply to a variety of sports such as golf, motorcycling, archery and soccer. Several startups have been created as a result of these projects. The school's ability to integrate different technologies makes it a key partner for those looking to design and produce innovative products and bring them to market.

Design



Design plays a fundamental role in the advancement of sports. Equipment, sports facilities and fan engagement are key design themes for ECAL/ University of Art and Design Lausanne, which regularly features among the world's top ten schools of art and design. ECAL teams up with other universities and with industry on its projects, which always have a concrete aim - and many of these projects are related to sports. Its partnership with the EPFL, through the EPFL+ECAL Lab, allows its students to explore new user experiences involving cutting-edge technologies, particularly in the areas of media and materials.