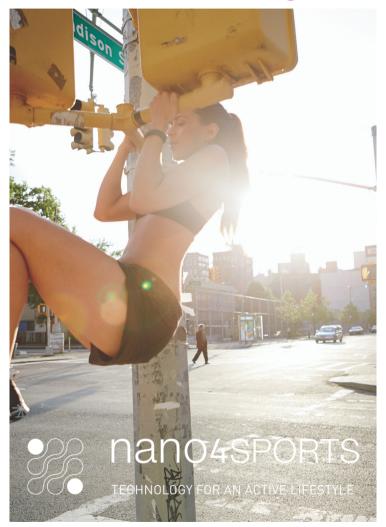


nano4SPORTS

TECHNOLOGY FOR AN ACTIVE LIFESTYLE









The Nano4Sports project is funded under the Interreg V program Flanders-Netherlands, the cross-border cooperation program with funding from the European Regional Development Fund. More info: www.grensregio.eu

Supported by:





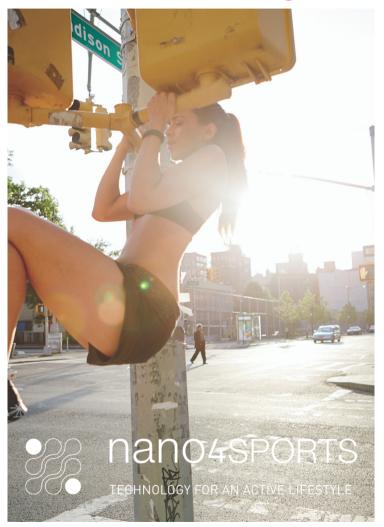


Provincie Noord-Brabant



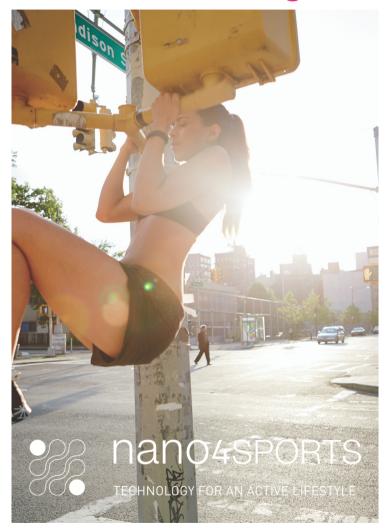


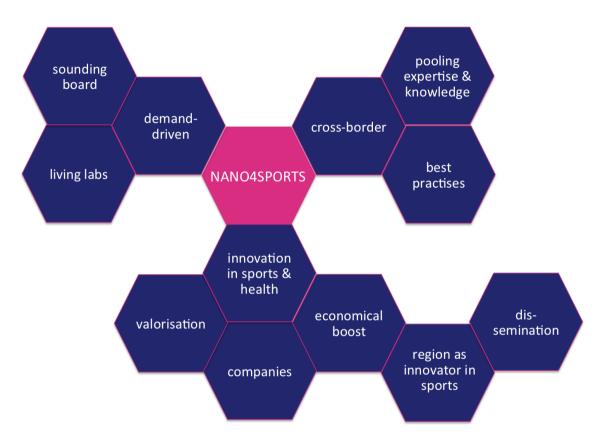




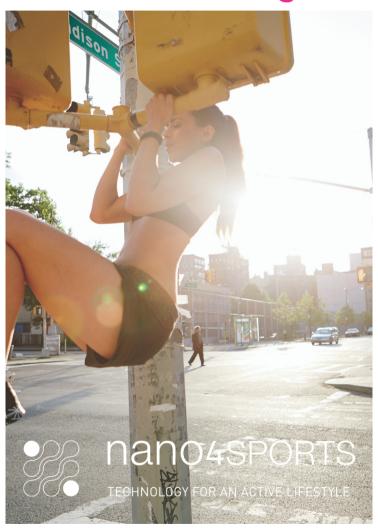
Technological innovations have a huge impact on the way we move & exercise and how we feel about ourselves. Nano4Sports uses sensor technology to develop smart innovative solutions for better, safer and lifelong sports experiences for all. Nano4Sports will be the reference for sports innovation in Flanders and the Netherlands.











We focus on:

Running

Cycling

Continuous Monitoring

Pooling of expertise & knowledge:

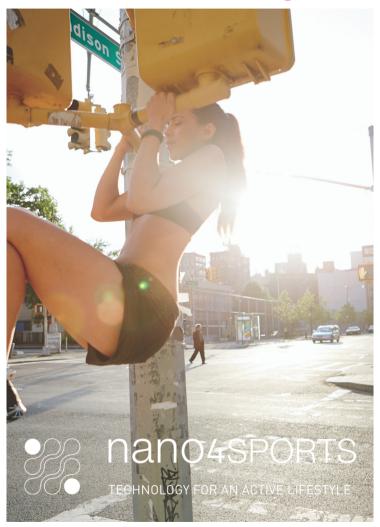
Nanotechnology

Sports Biomechanics

Sports Analytics & Data Sciences

Sports-specific Feedback Systems





Nano4Sports-partners:

University of Leuven, imec & Holst Centre, Ghent University, University of Technology Eindhoven, Fontys University of Applied Sciences



Setting the scene - running

Growing popularity (+50 million EU-28)

Supposed effect on public health

Covers incentives/drivers for PA & Health

- Social interaction
- Competition
- Fun
- No time/location constraints

Diversity of participants

- Age, gender, SES
- Experienced less experienced
- Motives





Setting the scene - running

Flexibility for people to combine sports with work & family life

Fits with our dynamic & often less organized schedules & life patterns

Less preparation to get involved

Negative side effects

- Less experienced runners often lack personal guidance and in combination with the search for a balance between work, family, friends, sleep and sports, overuse injuries occur, resulting in drop out
- No time/location constraints





Challenge with regard to less experienced runners – 24/7 load

Currently, less experienced runner's make use of standardized training programs and / or advice, which don't take into account the daily lifestyle and dynamics of runners on a 24/7 basis, for example, a stressful day at work, little sleep because of sick children, an unexpected game of squash with friends.

Individual training load (internal load) is depending on individual and temporal resilience. Such high individual differences, especially among novice and less experienced runners, challenge individual tailored feedback on both injury prevention and effective training in relation to their 24/7 lifestyle.

Integration of wearable body sensor technology could provide solution for individual based feedback in recreational runners based on monitoring daily lifestyle.



Aim - 24/7 load

In this mini-project, we want to stimulate a healthy and responsible daily active lifestyle, through the design of a 24/7 monitoring wearable that provides feedback and forward on the 'right' amount of activity in the right way.





Visit @ Fontys Sporthogeschool

- Theo Koomenlaan 3 Eindhoven 5600 AH Eindhoven (Genneper Parken)
- Thursday, 23 March 2017 (10:45 12:30)
- Volunteers to be 'a test person'?







