

LCR4.0

Together for Manufacturing.



European Union

European Regional
Development Fund

SportScientia

Date: 17/04/2017

Technologies: Additive
Manufacturing and Systems
Integration

Sector: Sport and Fitness

Primary partner: Sensor City

Background

SportScientia is a top 50 global sports innovation company. They create advancing technology to provide a better understanding of what player loads are happening during training and every day match play, in order to visualise data which is potentially associated with injury or when a player is at risk of injury.



SPORTSCIENTIA

Approaching LCR 4.0

Having taken up hot desk space within Sensor City, SportScientia were keen to capitalise on the access to both its mechanical and electronics labs, in addition to the technical expertise offered through its dedicated LCR 4.0 team. They were especially keen to use the multi material Stratasys Objet260 Connex3 3D printer and LPKF ProtoMat D104 to help develop their insoles.

Partner Support

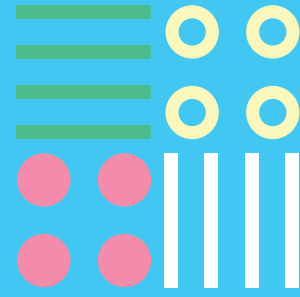
The LCR 4.0 team at Sensor City undertook a two-stage process; first designing and fabricating a flexible PCB, and secondly fabricating and 3D printing a range of prototypes for the smart insoles. Insoles with differing levels of shore hardness were produced, made up from a combination of plastic and rubber-like materials.

Working into the Future

SportScientia's long-term vision is for their real-time data to revolutionise athlete performance, statistics and injury management, enabling them to predict and prevent injuries from grassroots all the way up to elite professional level. They also hope to build SportScientia into a global company and brand.

Peter Lazou, SportScientia Founding Partner said:

"Our wireless smart insole can give grassroots/ youth players the chance to fulfil their potential, because their progress can be constantly monitored from a young age, their stats and performances can be logged, and career threatening muscular injuries can be avoided by using all their collated information. Getting involved in the LCR 4.0 project has been really beneficial for us, as it's enabled us to reduce prototype development time, therefore helping us to get our smart insoles out to market more quickly."



Results

SportScientia now have an accurate set of prototypes that they can test, ahead of proceeding to the full manufacturing process. Due to the number of iterations created through LCR 4.0, it has enabled them to reduce both the development time and associated costs of producing these smart insoles, before committing to larger scale manufacture.

They are now collaborating with Liverpool John Moores University's Sports Science department and local football teams to trial their prototypes, and are looking to undertake significant promotional activity to increase awareness of the product and to gain interest from investors.

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VIRTUAL
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Liverpool City Region
Local Enterprise Partnership



SENSORCITY
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