

PROJECT

Z-Tech

A seamless, continuous torque multispeed Automated Manual Transmission technology that increases fuel and power efficiency

Funding: European (Horizon 2020)

Duration: Aug 2016 - Oct 2016

Status: Complete

Total project cost: €71,429

EU contribution: €50,000



[CORDIS RCN : 205108](#)

Objectives:

Zeroshift Performance Ltd specialises in the design, development and application of its patented transmission technology “Z-Tech” which enables seamless instantaneous means of changing gear without interrupting engine torque. Currently operating predominantly in the motorsport, Z-Tech is experiencing significant demand for integration in the cruising and domestic use motorcycles. Building upon the success our initial prototypes tested in the cruising motorcycle, we are applying for the dedicated Phase 1 SME funding from the EC to confirm the techno-economic feasibility of our technology for the successful commercialisation. Our business model is to licence our technology to the motorcycle manufacturers who will then take our technical designs and manufacture the gearboxes in their own facilities, ensuring that they are in control of the production processes, and that the product is designed to their specifications.

We have strong market-pull from utility providers such as Piaggio Aprilia, GAIUS Transmissions, Harley Davidson Motorcycles and Albins Performance Transmissions. Based on early interest we have built bottom-up 5 year forecasts to generate cumulative turnover of €23.63million to generate €18.9 PBIT. Based on total investments of €2.77million, this will achieve a ROI of 5.8:1 and payback on investment in ~34 months.

Parent Programmes:

[H2020-EU.3.4. - Horizon 2020: Smart, Green and Integrated Transport](#)

Institute type: Public institution

Institute name: European Commission

Funding type: Public (EU)

Lead Organisation:

Zeroshift Transmissions Ltd

Address:

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MK4 1GA
United Kingdom

EU Contribution: €50,000

Technologies:

Road vehicle propulsion
Energy efficient transmission for vehicles

Development phase: Implementation

STRIA Roadmaps: Vehicle design and manufacturing

Transport mode: Road transport

Transport sectors: Passenger transport

Geo-spatial type: Other