Results of Competition: SETsquared Regional Angel Investment Accelerator Pilot: Round 4

Competition Code: 1911_RAIA_RD4_SS

Total available funding is £422,740

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
COACHING PRINCIPLES LTD	GoalShaper Feasibility Study	£197,950	£98,975

Note: you can see all Innovate UK-funded projects here: https://www.gov.uk/government/publications/innovate-uk-funded-projects
Use the Competition Code given above to search for this competition's results

Project description - provided by applicants
Low productivity has no simple solution and there is no easy answer; The solution to this problem needs careful consideration and a feasibility project is proposed to measure the efficacy of our assumptions. Low skill levels are a major factor particularly outside of London. More investment is needed in promoting skills, particularly vocational qualifications and personal development. However, in most businesses, particularly SMEs, training is conducted on an ad-hoc basis to satisfy minimum requirements for H&S, professional development (CPD) or requirements for specific roles. The need is for an evidence-based digital platform providing a transparent way for employees to work on their tasks and goals in real time and identify their own developmental gaps and training needs which then contributes to the overall vision at corporates, SMEs and high growth companies. We propose a technology known as GoalShaper as an API integrated Enterprise level smart application to address this need and foster ?A sense of individual responsibility and understanding of the contribution employees will make to their organisation ?Opportunities for managers to have meaningful developmental discussions with staff in real time vs annual appraisals ?Performance review discussions that are structured, goal oriented & evidence based ?Transparency across the organisation and teams

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SPACE FORGE LIMITED	Project Fielder: An innovative method of satellite recovery	£275,058	£99,021

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Project description - provided by applicants
Space Forge are seeking to drive the next generation of sustainability in the space industry. Whilst the utilisation of space assets and its associated environment is growing at a significant pace, the ability to do so sustainably is lagging. Currently at their end of life, satellites are either manoeuvred into a final descent to burn up in Earth's atmosphere or positioned into a graveyard orbit. Space Forge is developing a low cost and reliable method to return satellites back to Earth so that they can be maintained, repaired and upgraded. Satellites currently cost between $100k/kg and $1m/kg to build depending upon the complexity and requirements of the mission, compared to between $5k/kg and $50k/kg for launch. Most missions end when either the satellite runs out of fuel or a critical component fails leading to severe loss of capability. In addition, as many missions last multiple years to decades, the biggest issue for a satellite is obsolescence; where older satellites are overtaken by those with newer components and there are slow degradations due to micrometeorite damage on solar arrays, atomic oxygen erosion of optics and capacity loss in batteries due to thousands of day/night cycles. What sets satellites apart from other high technologies is the extreme difficulty in providing regular maintenance, which was complex even when manned rendezvous capabilities like the US Space Shuttle were available. Many companies are working on methods for in-orbit re-fuelling of satellites but this is unlikely to be economical for anything but the largest satellites due the amount of fuel required for rendezvous and the complexity of docking. There is no substitute for returning a satellite back to its makers for hands-on maintenance, repair and upgrade; but this requires a low cost and reliable return to Earth method that does not significantly damage the satellite. Space Forge is developing a return mechanism for small to medium class satellites to enable the next generation of sustainability in the space industry.

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