

# Innovate UK

**Results of Competition: Newton Fund - UK-Chile 2015**

**Competition Code: 1509\_EU\_NEWTON\_CHILE**

**Total available funding for this competition was £1M**

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

<b>Participant organisation names</b>	<b>Project title</b>	<b>Proposed project costs</b>	<b>Proposed project grant</b>
IntelliSense.io Ltd	Waste and Energy Management for sustainable development through Pipeline pumping System Optimisation	£97,536	£43,886
<b>Project description - provided by applicants</b>			
<p>The project aims to demonstrate the feasibility of applying Big Data and Internet of Things technologies to unique challenges faced by mining companies managing large pipelines over long distance that are transporting sea water and slurry. These pipelines require multi stage pumping stations that consume enormous energy and are placed in difficult to access terrain. The technology demonstrated as a part of the project will introduce a new way to automate running these pumping stations with minimum human intervention and has the potential to significantly reduce the energy and water impact of mining, increasing sustainability and reducing resource competition with local communities. The project will result in a prototype deployment at one of the pumping stations in the Anglo American Sur Chile Limitada, Los Bronces mine.</p>			

**Note: you can see all Innovate UK-funded projects here**

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<b>IntelliSense.io Ltd</b>	SAG Mill Optimisation and Innovative Instrumentation Development	£132,280	£59,526
<b>Project description - provided by applicants</b>			
<p>This experimental demonstration will be conducted at one of the world's largest grinding mills operated by Minera Centinela. It will demonstrate the feasibility of applying modern computing and simulation technology to create a process model that can be used to optimise operations. A robust environmentally friendly wireless instrument, which can accurately predict charge in real time in high granularity, will be demonstrated. To sustain current levels of copper production Chile must overcome a number of challenges; increasing energy costs; declining ore grades; increased throughputs; harder, more variable and complex ore types. This project will show how geometallurgical information can be used to predict the properties of the SAG Mill feed and dynamically model operational performance to provide optimal set point recommendations for energy optimisation. The model will also monitor wear rates to produce a predictive maintenance schedule thereby minimising costly unplanned shutdowns.</p>			

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Scene Consulting Ltd	Cloud Solar	£42,347	£19,056
<b>Project description - provided by applicants</b>			
<p>This project is a collaboration between Chilean distributed solar energy developer, Ciudad Luz, and British distributed energy ICT specialists, Scene. Together they aim to adapt existing technology, created by Scene, to develop products for the Chilean market that would allow a pay as you go solar service market offering to form. This would allow poorer, remote and more sceptical potential users of solar energy are able to access solar services, without having to pay for the equipment outright. For this to be possible, sophisticated monitoring, control and communications technology will be used to reduce risk for project financiers, and to ensure that the user only pays for what they use. An additional aspect of the project is to incorporate mobile payment functionality, so that users are able to pre-pay for their energy use in a quick and administratively efficient manner.</p>			

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