UK-China Research and Innovation Partnership Fund

Andy Shaw, Newton UK-China AgriTech programme team
Thematic Focus

Climate smart agriculture
气候智能农业

Dealing with pest and disease threats
处理病虫害的威胁

Sustainable intensification
可持续集约化

Precision agriculture
精准农业

Enabling technologies
技术应用
Space Data, Technology and Modelling Programme Focus

Utilising space based remote sensing technologies, data and modelling capabilities.

Overall UK programme Budget £13.5M over 5 years

- 2015 had 8 active projects – 7 R&D projects and a “Network+”
- Joint call with NSFC in 2016 - open call to match £4.5M UK budget, dedicated to space enabled remote sensing and precision agriculture in China
## Selected joint call projects

<table>
<thead>
<tr>
<th>UK PI</th>
<th>UK Institution</th>
<th>China PI</th>
<th>China Institution</th>
<th>Project Title</th>
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</thead>
<tbody>
<tr>
<td>Philip Lewis</td>
<td>University College</td>
<td>CHEN Zhongxin</td>
<td>Institute of Agricultural Resources and Regional Planning of CAAS</td>
<td>Regional crop monitoring and assessment with quantitative remote sensing and data assimilation</td>
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<td></td>
<td>London</td>
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<td>Zhenhong Li</td>
<td>Newcastle University</td>
<td>ZHAO Chunjiang</td>
<td>Beijing Academy of Agriculture and Forestry Sciences</td>
<td>Crop nutrition detection and decision support based multi-platform hyperspectral imaging (PAFiC: Precision Agriculture for Family-farms in China)</td>
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<tr>
<td>Simon Pearson</td>
<td>University of Lincoln</td>
<td>FANG Shibo</td>
<td>Chinese Academy of Meteorological Sciences</td>
<td>Synthesis of remote sensing and novel ground truth sensors to develop high resolution soil moisture monitoring in China and the UK</td>
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<tr>
<td>Belinda Luke</td>
<td>CAB International</td>
<td>HUANG Wenjiang</td>
<td>Institute of Remote Sensing and Digital Earth, CAS</td>
<td>Integrating advanced earth observation and environmental information for sustainable management of crop pests and diseases</td>
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<td>Wen-Hua Chen</td>
<td>Loughborough University</td>
<td>LIU Gang</td>
<td>Beihang University</td>
<td>Enabling wide area persistent remote sensing for agriculture applications by developing and coordinating multiple heterogeneous platforms</td>
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</tbody>
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Newton Opportunities - Agritech

https://www.rothamsted.ac.uk/international/international-partnerships/china/atcnn