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Company Announcements Office  
Australian Securities Exchange



## Mineral Systems Drilling Program agreements signed

Kingston Resources Limited ("the Company") (ASX: KSN) is pleased to announce that the collaboration agreement and drilling contract for the Mineral Systems Drilling Program were signed in Adelaide today. A press release from the event follows.



**Figure 1: Kingston Resources, Minotaur Exploration, Geological Survey of South Australia and Deep Exploration Technologies CRC representatives at the signing of the Collaboration Agreement.**



## Uncovering Hidden Mineral Resources and New Exploration Technologies

### Deep Exploration Technologies CRC, Geological Survey of South Australia, Minotaur, Kingston and Boart Longyear Set to Uncover Hidden Resources

In a world-first collaboration of mineral explorers, drillers, government and research institutes, today the Deep Exploration Technologies Cooperative Research Centre (DET CRC), the Geological Survey of South Australia (GSSA, Department of State Development), mineral explorers Minotaur Exploration and Kingston Resources and drilling company Boart Longyear signed agreements to collaborate on a Mineral Systems Drilling Program (MSDP).

The MSDP is aimed at both uncovering hidden mineral deposits in the highly prospective eastern Gawler Craton Olympic Copper-Gold Province (northern Eyre Peninsula), a district widely regarded as one of South Australia's key emerging mineral provinces, and at developing the new technologies required for ongoing, cost-effective, successful mineral exploration beneath barren cover.

Australia's share of mineral exploration expenditure has halved from approximately one quarter to one eighth of the world's total in the last 20 years. This decline has paralleled a decline in discovery of new major mineral deposits. Decreasing mineral exploration success and expenditure in Australia reflects the fact that relatively easy-to-find mineral deposits with a surface expression have largely been discovered. New mineral exploration provinces must be found hidden beneath barren cover rocks. New technologies are needed to search more efficiently and effectively.

Steve Hill, Director of the Geological Survey of South Australia commented "We are putting all our chips on the table and working with industry to get the best possible return on our investment".

Tony Belperio, Executive Director Minotaur Exploration commented "We are pleased to collaborate in this delivery of cutting-edge science to our Gawler Ranges exploration program. Major advances in the productivity and success rate of mineral exploration will lead to widespread future benefits for communities".

Stuart Rechner, Executive Director Kingston Resources commented "This coalition will deploy leading science and technology to give Kingston the best chance of discovery at Six Mile Hill. We are proud, grateful and excited."

The MSDP will trial several world-first technologies developed by DET CRC that aim to deliver real-time information and data analysis during a drilling program. These technologies will in turn enable and guide near real-time decision making.

The Wireless Sub will monitor drilling parameters enabling them to be analysed at the drill site and remotely in order to optimise drilling performance and maximise productivity.

The AutoSonde™ will provide geophysical wireline log-type data on the nature of the rocks intersected in drill holes without separate mobilization of a wireline logging crew or additional time requirements at the drill site. The AutoSonde™ is deployed into the hole by the driller and analyses the rocks intersected as the drill rods are pulled out of the hole.

The Lab-at-Rig® will provide near real-time XRF<sup>1</sup> geochemistry and XRD<sup>2</sup> mineralogy on drill cuttings, allowing greater confidence in assessing the prospectivity of the drill core. All results will be able to be monitored remotely and permit ongoing analysis of the drilling program informing decisions such as whether to terminate or extend drill holes or whether to modify the location or trajectory of subsequent holes.

Richard Hillis, DET CRC CEO, commented "The mineral explorers are testing new targets, the Geological Survey is mapping mineral systems beneath barren cover, the drillers are testing innovative new technologies and we are putting some invaluable kilometres on the clock of our new technologies. It's a win-win-win-win. While we'd love to be part of a discovery,

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<sup>1</sup> X-Ray Fluorescence

<sup>2</sup> X-Ray Diffraction

it's important to also realise that the export of mineral exploration and mining technologies earns Australia as much as the export of gold does."

"I'd also like to recognise that this exciting collaboration has been fostered by the environment created by UNCOVER, an initiative of the Australian Academy of Science to improve the success of mineral exploration in Australia."

The drilling program will be undertaken by Boart Longyear. As a DET CRC Participant, Boart Longyear are familiar with the new technologies being rolled out and are in an ideal position to both undertake the drilling work and facilitate the deployment of DET CRC's new technologies.

Richard O'Brien, President and CEO, Boart Longyear commented "Boart Longyear has a 125 year legacy of delivering innovation in drilling technology. We are very proud to partner on this project which showcases our focus to bring more technology into the hands of the drill crew so they can deliver more information and value to the client."

The agreements were executed on Thursday 25 June 2015 at the Boart Longyear Asia Pacific Headquarters in Adelaide, South Australia. Drilling is scheduled to commence in July 2015.

The South Australian Government has backed the MSDP's unique approach to exploration with an investment of \$2 million from PACE Frontiers that has been leveraged into a \$7 million program through partner contributions and in-kind support.



DET CRC's AutoSonde™.

[www.detcrc.com.au](http://www.detcrc.com.au)



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Further information & photographs:

Marcus La Forgia

FULLER

08 8363 6811

0421 585 740

[marcus.laforgia@fuller.com.au](mailto:marcus.laforgia@fuller.com.au)