QUARTERLY PROGRESS SUMMARY: JAN - MAR 2017

STEEPLAND HARVESTING PROGRAMME

The Steepland Harvesting Programme outlines a pathway for the New Zealand forest industry to develop innovative harvesting technologies for steep country forests that will reduce costs and make harvesting jobs safer for workers. Now in its seventh and final year, the programme has been focussing on strengthening the commercialisation of outputs, and will be completed on 30 June 2017.

Summary of progress during this quarter

The main achievements in this programme during the period 1 January to 31 March 2017 have been:

- Technical development of the Awdon Skyshifter twin winch tail hold carriage has been completed and the carriage has been demonstrated in operation in the field;
- New model CutoverCam was launched at a field demonstration in conjunction with NZ Farm Forestry Association National Conference.
- Completed construction, assembly and workshop testing of the Doherty Quick Coupler;
- Further progress in the Commercialisation team's work to provide support for the technology developers and commercial partners in each project;
- Further progress in the technical development of the Teleoperation Control System for the mobile tail hold machine.
- Completion of the first of three field demonstrations of outputs of the PGP Steepland Harvesting Programme in April.

Key highlights and achievements

The Steep Land Harvesting programme, supported by innovative engineering firms and contractors throughout New Zealand, has catalysed the expansion of mechanisation in the New Zealand forest industry, to the extent that mechanised tree felling now comprises 50% of all harvesting operations in 2016, up from only 23% of all operations in 2009. The programme has developed a new generation of harvesting technologies, including the ClimbMAX harvester (eleven units now sold, including seven to Canada and one to the U.S.), the first teleoperation control system for a John Deere 909 feller buncher, the Awdon Skyshifter, an innovative twin winch tail hold carriage for rapid shifting of the skyline, and the Doherty automatic quick coupler for rapid switching between processor head and log loading grapple.

Sector wide benefits arising from the programme and related outputs to date total \$94.9 million from operational cost savings and machinery and equipment sales (\$48.9 million p.a. in 2015/16). The business plan envisaged cumulative net economic benefits of \$175 million (\$70.5 million p.a. in 2015/16), as well as enhanced worker safety. These innovations are providing forest owners and contractors with solutions to improve productivity and reduce the exposure of workers to hazards on steep terrain.

Investment

Investment period	Industry contribution	MPI contribution	Total investment
During this Quarter	\$0.150m	\$0.100m	\$0.250m
Programme To Date	\$3.594m	\$3.473m	\$7.068m