Mobile On-Farm Digital Technology for Smallholder Farmers

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Background
Farm Robotics

Autonomous Row Following
Lettuce, Lindenow, VIC, Australia
From 20% to 100%

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First Iteration and Testing
The di-wheel consists of two powered wheel modules joined by an expandable central shaft.
First Experiment: coding for rural schools
First Experiment: Developing Needs
Second Iteration and Testing
Digital Farmhand – Local Smallholder Farmer Demo

Digital Farmhand

- Developed for small scale farming
- Crop intelligence using low cost sensing
- Autonomous row turning using ground markers
- Designed to accommodate standard farming implements
Next Steps
Scoping Study & Metric Capture: Pacific Islands
Developing a Common Education and Training Program

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Digital Farmhand: Third Iteration

Chart 1.2  Electric Two-Wheel Vehicle Sales by Country, Except for China, Asia Pacific: 2012-2018

(Source: Pike Research)
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