





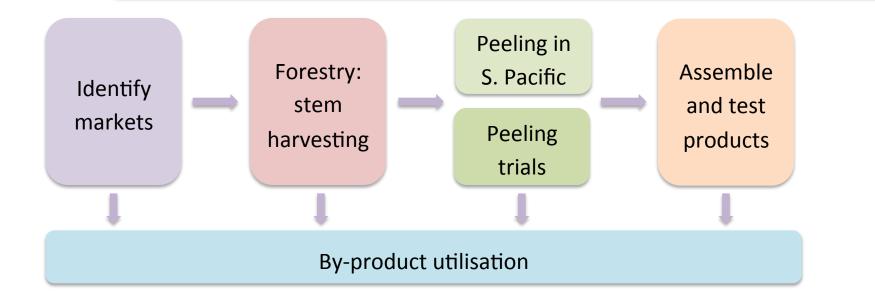
Objective 3

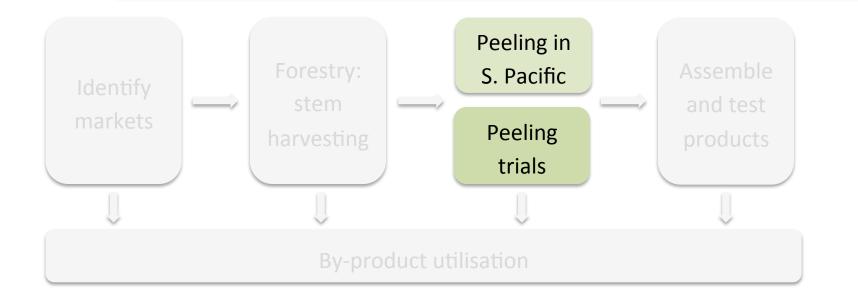




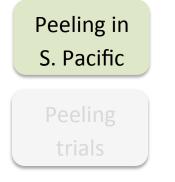
Establish experimental veneer-peeling capacity in the South Pacific

Project objectives





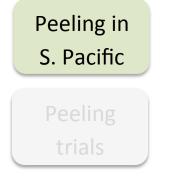




Objective 3 – Establish experimental veneer-peeling capacity in the South Pacific

3.1 – Commissioning a spindleless lathe equipment

3.2 – Assessing the potential of a regional trial and demonstration program



3.1 – Commissioning a spindleless lathe equipment

- Lathe equipment in place and under commission at TUD Fiji this week
- Trial work commenced this week
- Visit TUD for a demonstration tomorrow

• Equipment in place and operational!



- Steam pre-conditioner
 - Steam bath made in Australia.
 - Existing kiln box modified at TUD
 - Installed together at TUD and commissioned.
 - Operation is to be tuned during trials.









- Bath inserted into modified kiln
- Kiln sits on raised concrete plinth
- Logs can be inserted and removed using a forklift



- Stem in-feed
 - Ready to be installed once location has been tested and confirmed
 - Foundations in place



- Lathe
 - Modifications completed in QLD
 - Improved safety
 - Improved control during peeling
 - Lathe in place at TUD











- Conveyor
 - In place at TUD
 - Feed speed and detailed setup to be confirmed during trials



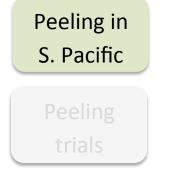
- Clipper
 - In place at TUD
 - Feed speed and detailed setup to be confirmed during trials



- Final equipment commissioning this week
- Trials commence this week
- Training commences this week
- Trials and training continue
 Oct/Nov 2014



Objective 3 – Experimental regional peeling



3.2 – Assessing the potential of a regional trial and demonstration program

- Feasibility of transporting the lathe suite between regional centres will be assessed
 - Technical
 - Economic
 - Physical

Modeled trial locations

- Three regional trial locations were investigated:
- TeiTei Taveuni Farmer Association selected location at Taveuni, Fiji.
- Strickland Brothers Ltd facility at Apia, Samoa.
- Timol Timber facility at Honiara, the Solomon Islands.



Modeled equipment suites

- Option 1: The existing lathe suite is adapted for travel and relocated.
- Option 2: One additional lathe suite is acquired, adapted for travel to each trial locations and relocated.
- Option 3: Three additional lathe suites are acquired, one for each trial location, adapted and relocated.



Modeled operational stages

- Stage 1: Initial training.
 - An experienced operational staff member from each trial location is trained as a lathe team captain at TUD Nasinu.
- Stage 2: Infrastructure upgrades.
 - Local infrastructure is upgraded to operate the lathe equipment suite.
- Stage 3: Equipment preparation.
 - The equipment suite or suites are collected, packed and dispatched to the regional trial location.
- Stage 4: Regional equipment installation.
 - The equipment suite is unpacked, installed and commissioned.
- Stage 5: Regional training.
 - The local lathe team captain and a project officer train a lathe production team at the regional trial location.



Modeled operational stages

- Stage 6: Regional research.
 - Peeling experiments are conducted with local coconut resources.
- Stage 7: Regional demonstration.
 - Regional demonstration program is held for community, government and business groups.
- Stage 8: Repack and despatch.
 - Lathe decommissioning, repacking and relocation to the next centre.
- Stage 9: TUD Reinstall.
 - At the completion of the program, the equipment suite is left at the chosen location or returned to TUD for recommissioning.



Modeled demonstration program

Critical path activity	Option 1	Option 2	Option 3
Order manufacture and deliver equipment	-	3 months	4 months
Modify equipment		2 months	3 months
Pack and prepare equipment	2 months	2 months	1 month
Dispatch and operate in Taveuni.	3 months	3 months	3 months
Dispatch and operate in Samoa	3 months	3 months	3 months
Dispatch and operate in the Solomons	3 months	3 months	3 months
Return to TUD and reinstall	2 months		
Total	12-13 months	16 months	17-18 months

Activity risk profiles

Ac	tivity	Taveuni	Samoa	Solomons	
•	Stage 1: Initial training.	• Low			
•	Stage 2: Infrastructure upgrades.	High	Medium	 Medium 	
•	Stage 3: Equipment preparation.	Low - medium			
•	Stage 3: Equipment preparation - Dispatch	• Medium	• Low	• Low	
•	Stage 4: Regional equipment installation.	• High	• Low	Low	
•	Stage 5: Regional training.	(*) Low			
•	Stage 6: Regional research.	• Medium			
•	Stage 7: Regional demonstration.	• Low			
•	Stage 8: Repack and despatch.	 Medium 	+ Low	Low	
	Stage 9: TUD Reinstall.		 Low 		

The major significants risks are the level and cost of modification needed to any additional lathes and finding a suitable site and power supply for a Taveuni trial.

Estimated total cost

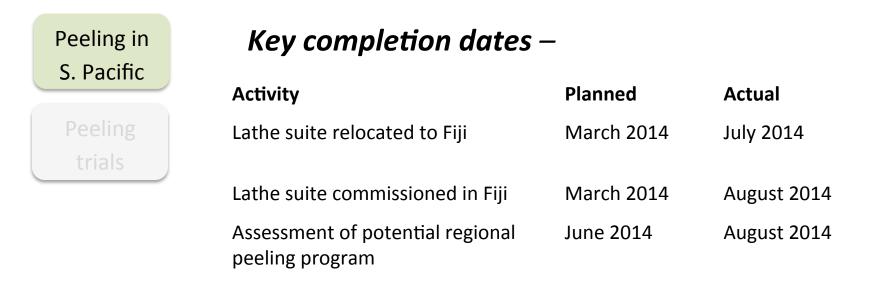
Co	ost summary (\$)	Option 1	Option 2	Option 3
	Personnel	- \$56,077	• \$58,833	- \$61,681
	Supplies and services	• \$32,429	• \$27,529	• \$21,899
	Travel	\$29,701	\$29,701	\$29,701
•	Capital items	\$31,057	• \$129,557	\$327,807
•	Contingency (15%)	• \$22,390	- \$36,843	\$66,163
	Total	• \$171,653	\$282,463	\$507,251

Option 1 leaves one peeling research facility in the Pacific.

Options 2 & 3 establish satellite joint production/research facilities.

A single organisation may fund Options 1 & 2.

Organisations in association may fund Options 2 & 3.



Questions



