

Taranaki sharemilker Trish Rankin is on a mission to cut waste on farms.

Jackie Harrigan reports. Photos: Brad Hanson.

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information and feedback from her deepdive into attitudes around waste among
farmers in the local area and the dairy
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REDUCE AND CONSERVE MATERIALS
refuse, return, reduce toxins, design out waste, reduce consumption and pa

THE 6 R'S





REDESIGN: Farm supplies are shipped wrapped in heavy plastic – could retailers' and farmers' feedback to suppliers change behaviour? How could the plastic be designed out of the process?



REUSE: A drum about to be repurposed into a calf



REDUCE: Rather than buying calf meal in 40 plastic lined pest-proof bags, could they buy in bulk? Or in paper bags more often from a local

they are looking at the 6Rs applied to their businesses.

"They generated lots of good ideas by brainstorming about minimising waste within their retail stores and being able to advise their farmer clients about dealing with waste from products and substituting for less waste-intense products."

This group were also well placed to do more work with manufacturers and suppliers to see what best practice is and what technology is available to help cut

While NZ has been obsessed with recycling over the past few years, Trish says the poor outcomes from the other end of the recycling process mean we need to think deeper about the other aspects.

"One of the other important things that came out of the Kellogg study was the other actions like reducing - not just waste but all inputs - reducing water use and electricity through better measuring and monitoring, shortening up the supply chain for things like calf meal and other inputs, using local suppliers and thinking about ways of buying in bulk to save packaging – these are all tangible things we can do – with the net result of reducing waste, saving resources and cutting down on carbon.

"My research led on to the whole life cycle assessment whereby these things can be measured and hopefully farmers can get



Porohita 'Circle' is Trish Rankin's new consultancy company to help farmers and industry move to lower waste.

10 QUESTIONS TO ASK:

- really needed? Redesign: Can the 'need' for the
- product be redesigned? Reuse: Can the product or packaging be reused? Can it stay
- packaging be reused? Can it stay at its highest quality over and over? Can you buy a 2nd hand version? **Refuse:** Can I refuse the product and choose a better version of the 4. Refu
- product or a better way of doing it?
 Regenerate: Can this product help to regenerate or improve our
- whenua (eg riparian plants)? **Return:** Can any waste this product produces be returned to the Rethink: Is the product/action/input 6. maker? Are they part of a product stewardship scheme?
 - 7. Reduce: Can I use less of the product or use it less frequently?
 - Recycle: Can all or part of the product be actively recycled?
 - Repair: Can this product be easily repaired/Are there parts available
 - locally?

 10. Regulated disposal: Can this be disposed of in a safe way?

some credit for making the effort to move to more circularity."

She thinks there is a real opportunity to put LCA numbers on the products farmers use to help with decision making around the environmental impacts associated with all the stages of that products life from raw material to disposal or recycling.

"It could be a game-changer for farmers where we assign real numbers to our impacts so we can then measure these and strive to reduce them.

"If I send less rubbish to landfill, how

can I get that improvement 'number' as part of my farming system? The circular economy is a numbers game. What goes in should match what comes out, and everything used stays in play for as long as it can."

Calculate the numbers and educate farmers, suppliers and manufacturers about the 6Rs of waste and better product stewardship is Trish's way forward via Harvard Business school and Bradford University and collaborating with local and national agricultural businesses.