



Riparian Planner

Supporting Farmers and Farm Planning

Tom Stephens – DairyNZ

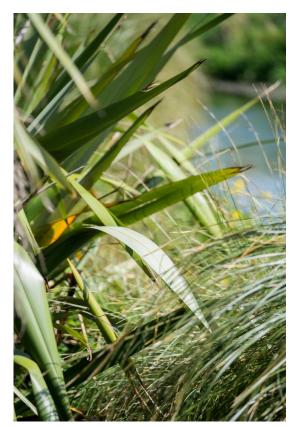
Margaret Watts – Manaaki Whenua – Landcare Research

Nick Spencer - Manaaki Whenua - Landcare Research

Today's seminar will cover...

- The Riparian Planner what?
- Context and Background why?
- Development of Riparian Planner how and who?
- Where are we now?
- Data sharing with Riparian Planner
- Further opportunities carbon and biodiversity
- Questions







Riparian Planner - the vision



Simple to use

Web-based

Farmer-focussed

Less talk – more action

Improve water quality

Free to use

Dairy_{Nz} >

The **What...**

The **Planner** = tool for farmers & advisors, to adopt GFP

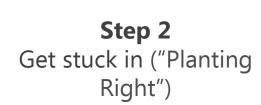
Origins = voluntary & riparian only (e.g., Water Accord 2013)

Now = regulatory & voluntary mix of riparian & land (e.g., NPS-FM, Clean Water)

Still GFP, still water quality objective(s)



Step 1 Plan it out ("Riparian Planner")















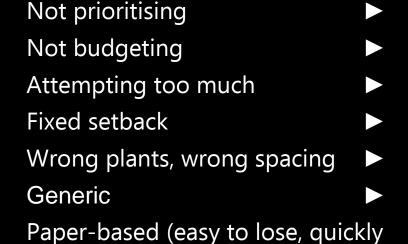


April 18

What is **Good Farming Practice?**

Barriers to avoid...

out-dated, wasted effort)





... by creating a **Plan**

Target **critical sources**

Budget (\$\$\$, plants, m's)

Spread the **effort** (5-years)

Vary setback with priority

Regionally consistent, zoned

Tailored to farm & user

Digital (secure, online, easily updated & able to be shared)



A practical example of GFP



Seepage wetlands NIWA/DNZ

- Ideal mitigation for Nloss
- N-reductions ~75-98% of mass (load) and concentration
- Performance reliant on stock-exclusion & planting "lower bank"
- Actions = exclude stock, plant & maintain



Approach

Actively developed with/for regional councils and land managers.

Since guided by collaborative group (regional councils, DNZ, dairy & fert companies, B&L).

Nationally consistent, regionally-tailored quidance.

With Industry & Regulator Collaboration/Integration

Value Proposition – urgent demand for simple, accessible and riparian-focussed farmer tool without the complexity or cost

Vision for Planner – A farmer-friendly and -driven tool which promotes on-farm actions that reduce contaminant loss to waterways by surface pathways

Long-term Strategy – unlock the potential of data to support decision making by feeding into Industry & Commercial whole-farm planning (e.g., adoption supported by data-integration)

Principles



Partnership

Shared goals

Co-innovation

Collaborative intent







- Partnership Manaaki Whenua and DairyNZ 2015
 - Chance conversation

- Shared goals for water quality outcomes for NZ
 - Sustainable Water Accord
 - Water quality improvements
 - Understanding ecosystem services agricultural land use context





- Co-innovation to explore needs and develop the Riparian Planner
 - Design thinking and agile approach
 - Aims: simple, easy to use, farmer-friendly, beyond diary
- Collaboration widen the appeal & input
 - NZ Association of Resource Management
 - Northland Regional Council, and particularly Greater Wellington Regional Council
 - Dairy companies, B&L
 - RC Land Managers Group
 - Wairoa Healthy Waters project
 - 2018 National Agricultural Field days



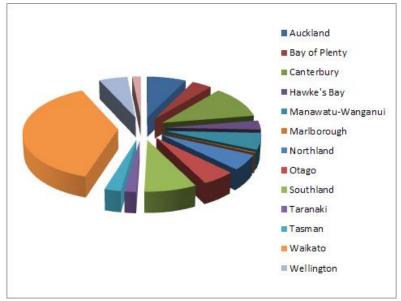
The Planner Process

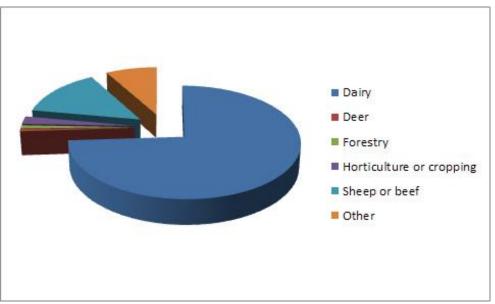






Riparian Planner Uptake





- Continued, steady uptake since launch (voluntary)
- 40-50 new users per month (annual use)



Riparian Planner Promotion









- Promotion by DairyNZ, dairy companies & regional councils
- Future driven by regulators and companies (regulatory)

Dairynz

Value to DairyNZ, LCR & Users

Adopting land & riparian GFP



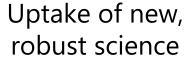
Improved water quality & reduced **risk** to farm business



Integration with whole-farm & scenario planning tools



Clear **pathway** to more advanced **Industry** & **Commercial** tools





Consistent user experience & meaningful reporting











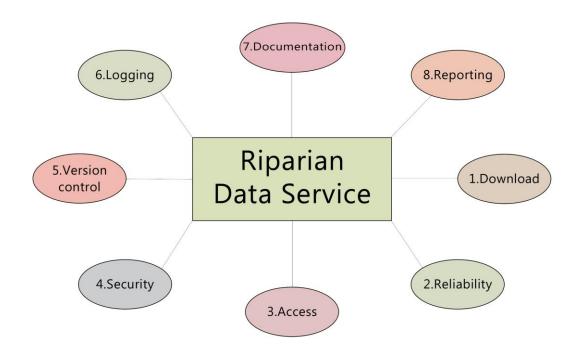
"Adoption of Riparian Planner is currently handicapped by the inability to directly access the data and re-use it for regulatory and other planning needs."



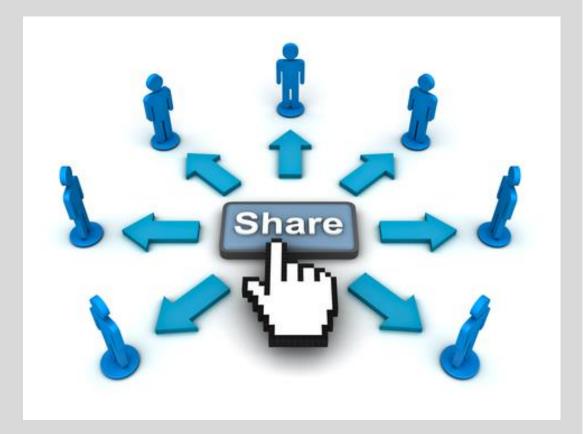


Data Sharing

- Conversations with stakeholders around the country
- User controls when and where their plan is shared
- Standards based approach
- Data is where the value lies
- One time data entry for multiple re-use







What are your data sharing needs and experiences?



Riparian Management to Optimise Outcomes: from farm to national scale

- 1. Monitoring
- 2. Impacts
- 3. Application in primary sector
- Water Quality and Biodiversity
- Mātauranga Māori
- Interoperability with multiple platforms







Future Opportunities



Water Quality

Carbon

Biodiversity



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