

Water New Zealand Stormwater Education, Training and Sector Development Plan

Water NZ Webinar, 21st May 2020



Purpose

- **1. Communicate** strategic framework for organising stormwater training, and resource available in training plan (TODAY)
- **2. Understand** training priorities in the area and organisation/network (ONGOING)
- 3. Promote collaboration (ONGOING)
- **4. Identify** potential partnerships for joint benefit and local/regional 'Training Champions' (FUTURE)
- **5. Encourage** budgeting in LTP cycle for training staff and investment in courses as needed (FUTURE)





Why did we develop the Plan?

Drivers for investment in a co-ordinated approach to training

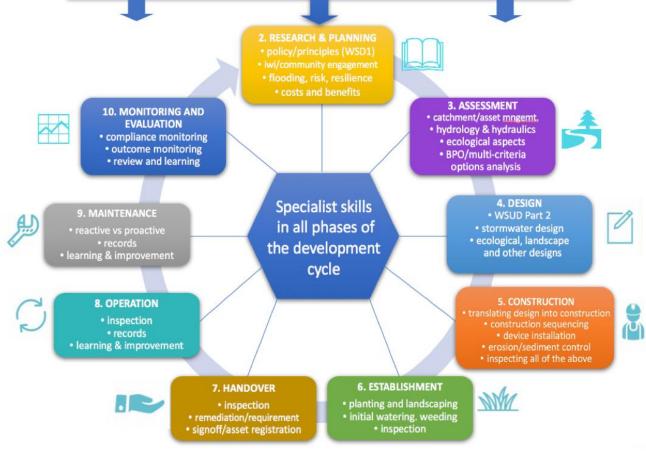
- **1. Rapid change** in the industry and high cost of inadequate training
- 2. Poor outcomes for the environment
- 3. Motivating our practitioners and employers
- 4. Water NZ is the right organisation to **coordinate** a national approach ...
- 5. Barriers:
 - A lack of structure to industry training
 - A lack of funding to develop and deliver



1. Integral skills that pervade the stormwater world

Training Structure

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- 1. Coherent/logical
- 2. Training topics classified
- 3. Modules can be added/refined
- 4. Understand bigger picture/transcend silos

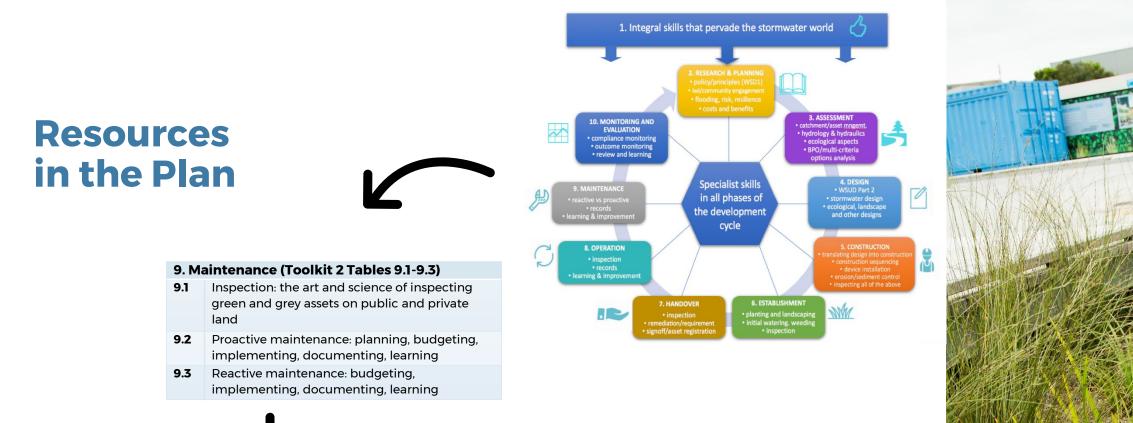


Key Outcomes from the Plan

- 1. Comprehensive resource/reference for the industry the 'go to' guide
- 2. List of training needs in each stage
- 3. For every training need in each stage:
 - 1. Needs
 - 2. Drivers
 - 3. Target audience
 - 4. Providers
- 4. Lot of training available, but not visible to our industry
- 5. Key gaps supported by industry survey
- 6. Guidance on:
 - 1. Prioritising training needs
 - 2. How to develop training
 - 3. Evaluate training (measure ROI & build the next business case!)
- 7. Recommendation and Next Steps 3 Year Executable Action Plan



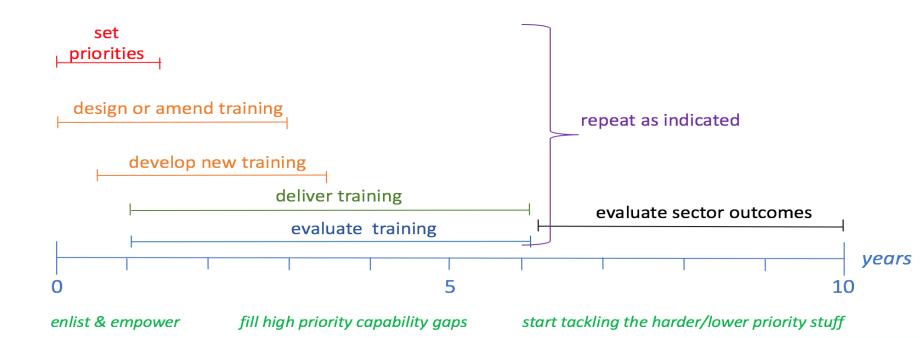




Needs		Underlying causes of performance gap		Flow-on results of the performance gap		Target audiences		
 inspection: what to look for and what to do about it for green infrastructure (including natural water bodies) and the interfaces between green and grey infrastructure the importance of keeping good records building an interactive GIS-based asset register review for learnings/continual improvement/adaptive management 		 lack of consistent approach and training for asset inspectors lack of understanding of the synergies and gaps between green and grey infrastructure lack of training in stormwater BMP asset management generally communities don't understand green and grey asset life cycles 		• ui a: • in th w • co	 inspectors don't know what to look for under-performance of the green assets investment in assets doesn't deliver the anticipated ROI across the four wellbeings communities are less likely to find what they misunderstand 		stormwater professionals developers consultants contractors utilities/built asset managers council consenting and compliance staff	
Solutions (ple	ase also refer to the list of provid	· · · · ·						
Education: Polytech/ITO Needs • inspection of WSUD and gree stormwater infrastructure		en/grey	h/grey Education: University • lecture topic		Professional training • inspection of WSUD and mixed green/grey stormwater infrastructure		Other support Infrastructure New Zealand https://infrastructure.org.nz/ 	
Providers	BCITO Connexis NZIHT Unitec (landscape architectur)	re)	 schools of engineering, biologica sciences at Auckland and Canterbury 	l	Peter Mitchell, Stormwater Asset Manager, <u>Auckland Motorways</u> <u>Alliance</u> NAMS Infrastructure Management <u>Manual</u> and others <u>here</u> NGICP Clearwater <u>asset management</u> <u>training</u> WSUD research team Peter Christensen and other counce	ile	ZAM WSUD Handbook: Zero Additional Maintenance Water Sensitive Urban Design without ongoing maintenance requirements for asset owners, CRC et al, 2018 ISCA NGICP	



Moving Forward





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Beyond 2019/2020

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- 1. Network of local training **champions?**
- **2.** Accessible Plan/Resource converting content of training plan into a web based reference resource for industry?
- **3. Partnership plan** outcome from 2019/2020 engagement?
- **4. Sustainable funding** plan for training? TBC
- 5. Training development and delivery?

