

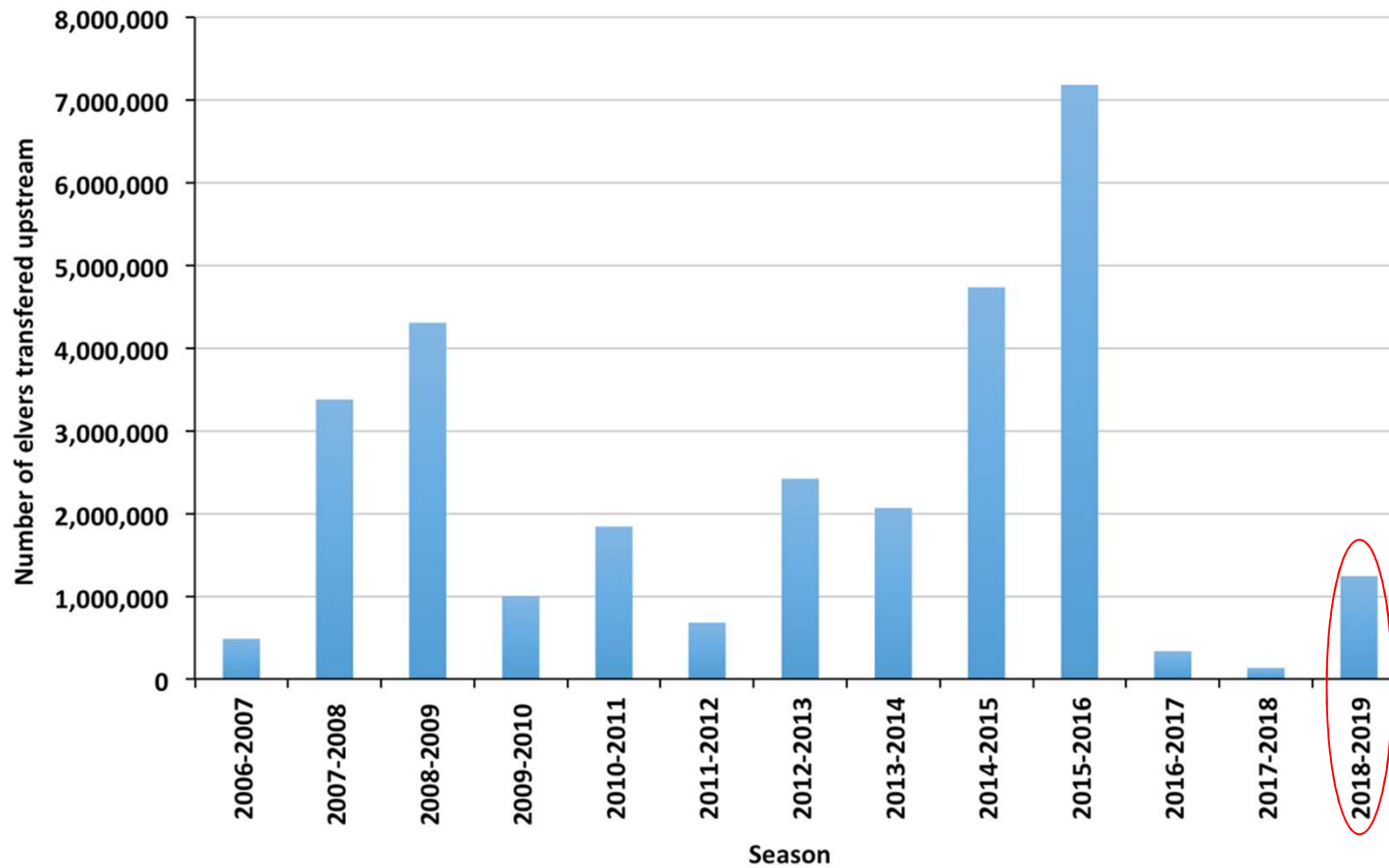


Matahina HEPS – Fish Passage Update to RRF

Agenda

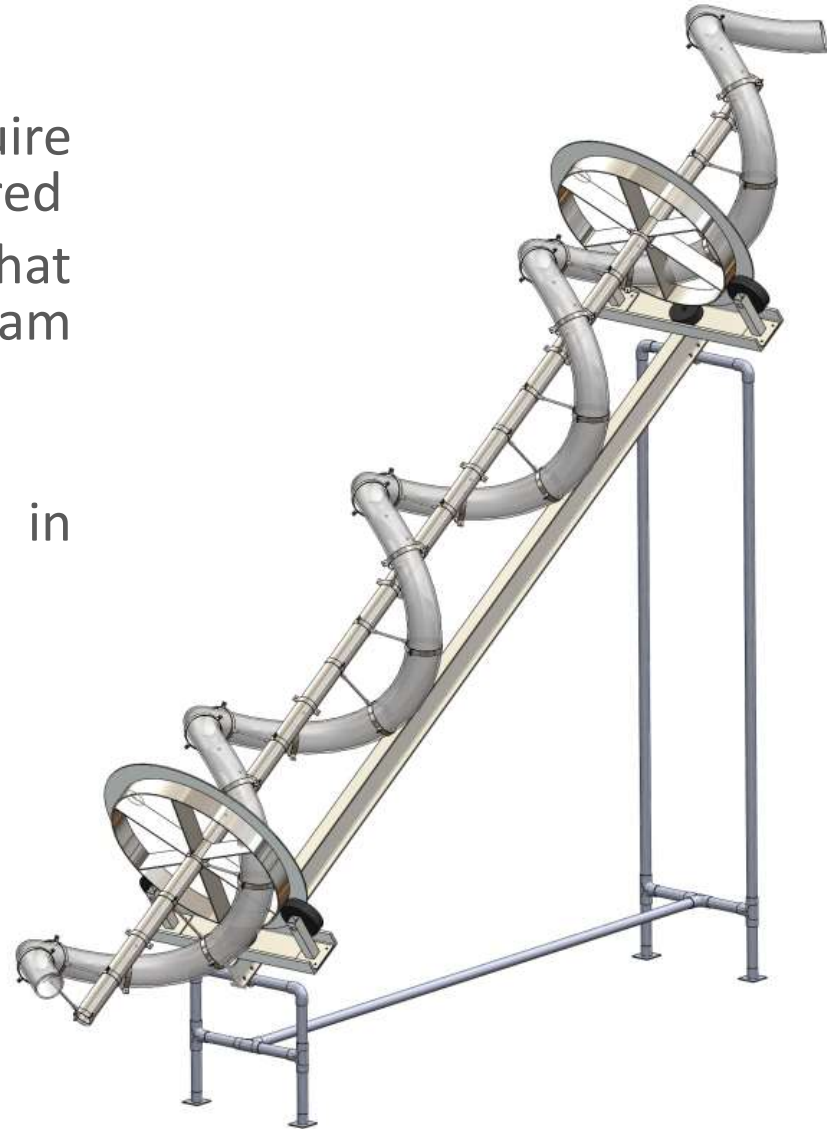
- Upstream trap & transfer for 2018/2019 (interim results)
- Upstream fish passage prototype
- Next steps for prototype

Upstream trap and transfer 2018/2019

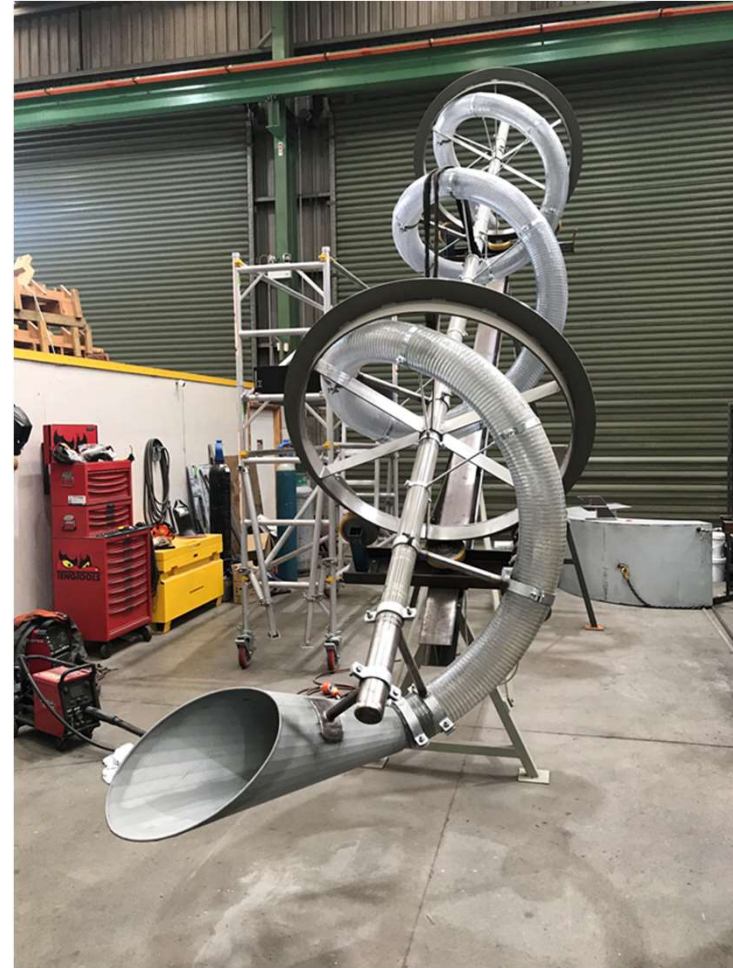
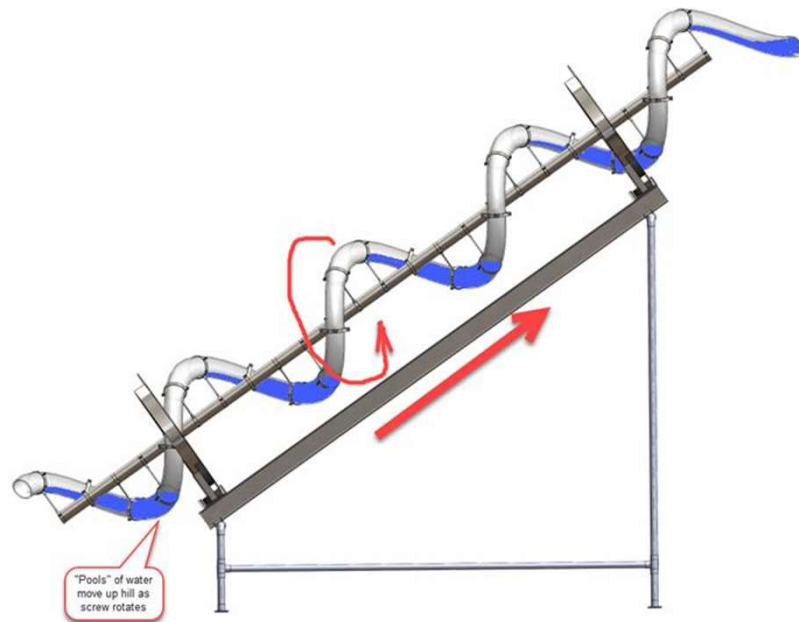


Upstream Fish Passage Prototype

- Matahina HEPS conditions require new technologies to be considered
- Lack of successful systems that provide for **all** native fish upstream migration for large HEPs
- [Archimedes](#) screw principle
- Similar concept being trailed in Holland for dyke management



Upstream Fish Passage Prototype



Upstream Fish Passage Prototype



Next Steps

Live trial with elvers and native fish during 2019/2020 season to gather information on:

- How fish will react once in the prototype
- How best to collect/deposit fish at screw entrance/exit
- Optimal pitch and rotation speed
- Water temperature control
- Most suitable location at Matahina HEPs tailrace
- Mortality

Thank you



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