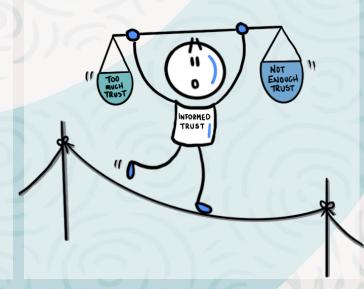
A Guide to Building Informed Trust in Environmental Models (available on FigShare)

The problem: Too much or not enough trust? Environmental models can be powerful tools for informing decisions, but only if the models are trusted to provide valuable information. However too much trust in any model can lead to inappropriate use.

The solution: Informed trust strikes a balance between the extremes of blind acceptance of the model, and dismissing it as having no value. Informed trust involves an appreciation of the model purpose, the processes it captures and what it can and can't do. Models are more powerful with informed trust.

What does informed trust look like? Informed trust recognizes that stakeholder input to the modelling process is essential for the model to have value and relevance to the stakeholders. The process of building informed trust affects both how the model is developed and used.

Informed trust is a balancing act



How to develop informed trust in models

- 1. Understand the modelling landscape: Who has an interest in the model or its output? What's at stake for them? How can local knowledge inform the model?
- 2. Build and maintain relationships with stakeholders: Effective two-way communication over the model life cycle generates informed trust.
- 3. Invest in success: Budget for meaningful engagement with stakeholders.

Step 1: Understand the modelling landscape

Who are the stakeholders in the modelling endeavour?

Anyone who paid for the model, who will use the model to make decisions, or has a stake in decisions informed by the model

Will this model be used by others to interfere with what I do on my land?

Will the model

predictions align

Will the model be used to cut funding?
Will it overlook

information?

Other Technical

Experts

Landholders

First Nations peoples *

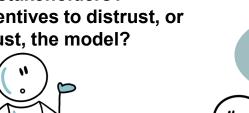
What are the implications for our cultura values and economic opportunities?*



Policy Makers

Could the predictions of this model threaten our livelihood?

What is at stake for them?
What are the priorities and concerns of the stakeholders?
Are there incentives to distrust, or over-trust, the model?



Does the model tell me what I want to hear?





Water Modeller

How to tap into local knowledge?



I've paid for this, I'n going to use it for everything I can.

Who understands the physical and social landscape the model is simulating?
Who is respected in the community for their knowledge?

Don't be afraid to engage with people who are sceptical of your model: they may articulate the biggest issues.

Step 2: Build and maintain relationships with stakeholders

communicate consistently

When engaging, consider your audience: Who are they? What's their interest in the model and its applications? Be strategic in your communication. Choose your words carefully. Words matter.

Take the time to listen and learn:

Shift from one-way presentation to twoway communication. Ensure local issues are captured in the modelling process.

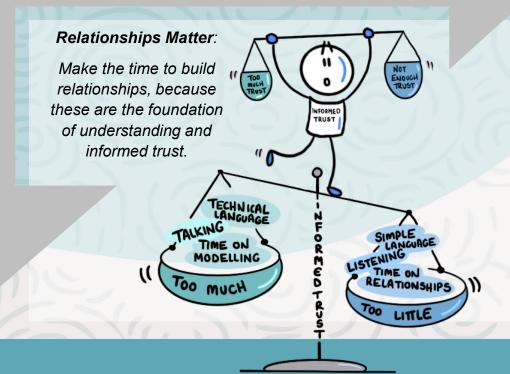
Use the right tools for the job: Maps, round-tables, print-outs which facilitate conversation can be much more engaging than PowerPoint presentations.

Communicate your model at the right level of detail: Credibility in the model requires credibility in the model foundations and supporting data.

Communicate this clearly and concisely.

Build and maintain relationships over the modelling life cycle and beyond: not just a token visit at the start or end of the project but invest time and resources in building relationships with stakeholders, listening to their concerns and valuing their local knowledge.

Relationships are built through on-going, face-to-face interaction: show up to show your commitment. If trust is lost, it takes time to re-establish.



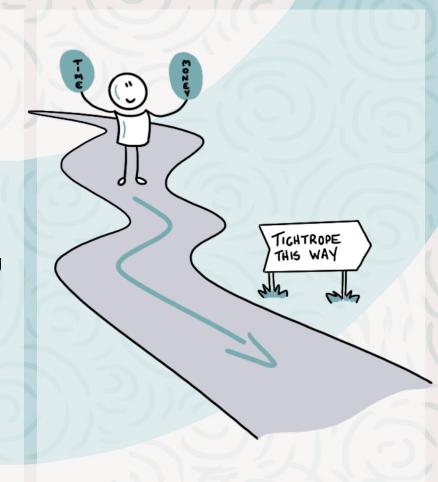
Step 3: Invest in success

Make an engagement plan at the start of the modelling process

Building informed trust:

- needs to be appropriately resourced and included in the project budget and timeline.
- is hard work, it takes time, skill and involves lots of learning along the way.
- reduces the risk that your model will sit on the shelf, or be applied to contexts where it simply doesn't work.

Informed trust enables models to be well used, and used well.



Informed trust is built on relationships



Lawrence di Bella

Manager - Herbert Cane Productivity Services Limited

Interact with industry and stakeholders throughout the project

Play Video



Ryan Turner

Science Leader - Reef Catchments
Science Partnership

Communicate clearly and concisely

Play Video



Gill McCloskey

Senior Catchment Modeller - Dept of Environment & Science

Communicate in a way that is meaningful to stakeholders

Play Video



Tony Weber

National leader, Water Modelling. -Alluvium

Build and maintain relationships

Play Video

