

Designing Scenarios

What is a scenario??

- A package of management options that can be modelled to determine how they impact on our values

Why do we use scenarios?

- Consequences of management options are often not clear
- Scenarios provide insights into future possibilities
- Help our understanding
- Assist our decision making- we have choices

How do we use the results?

- Compare results with what we want to achieve
- Compare results with current state and between scenarios
- Use what we learn to construct our mix of management options and our recommendations for the WIP

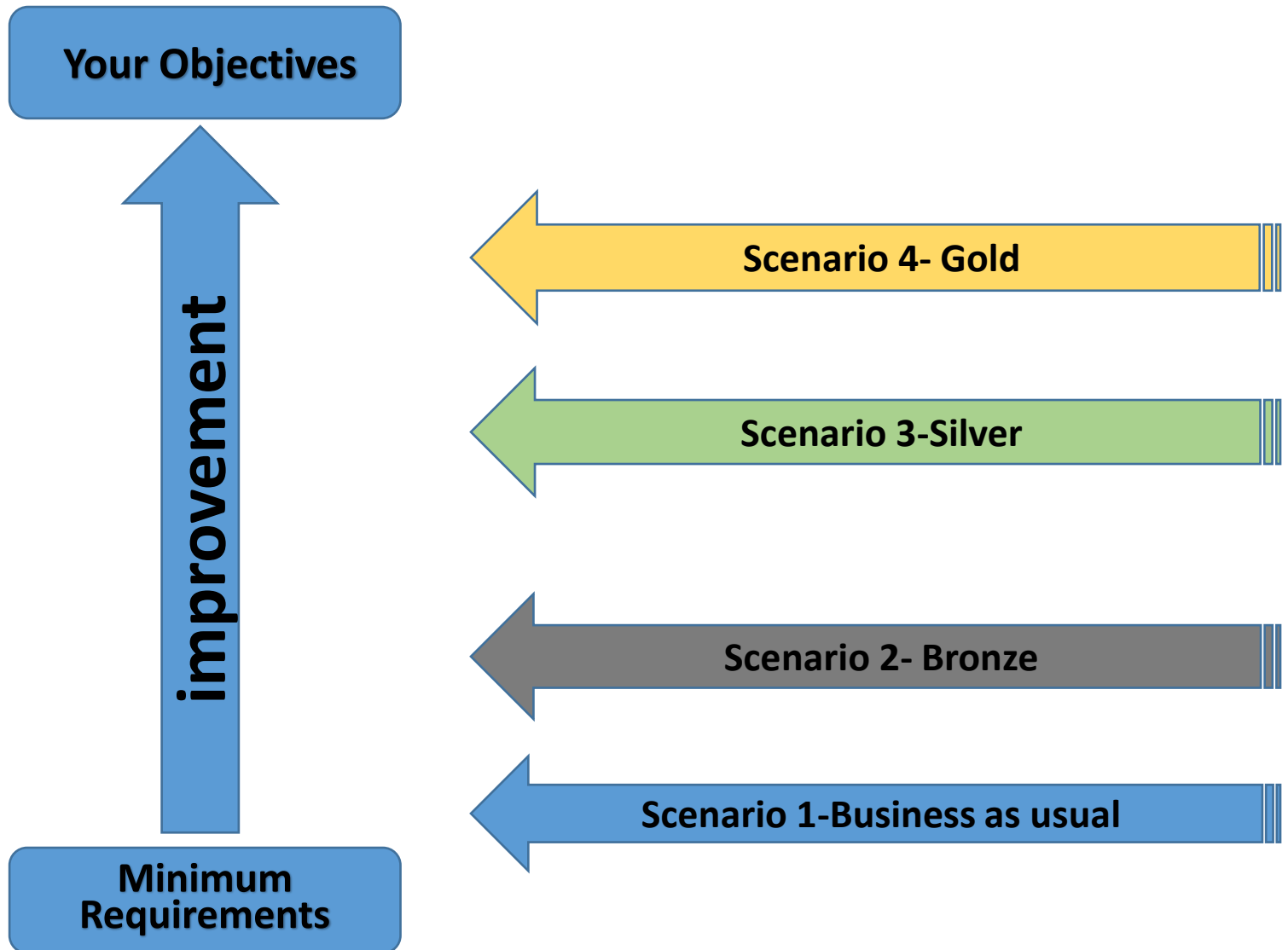
Your job in building scenarios

- Determine the range of possible outcomes
- Determine possible management options
- Confirm “business as usual” scenario
- Create packages of management options that you think will achieve the future you want (actually build the scenarios!)

Freshwater Outcomes

- Minimum regulatory requirement
- Your high level objectives

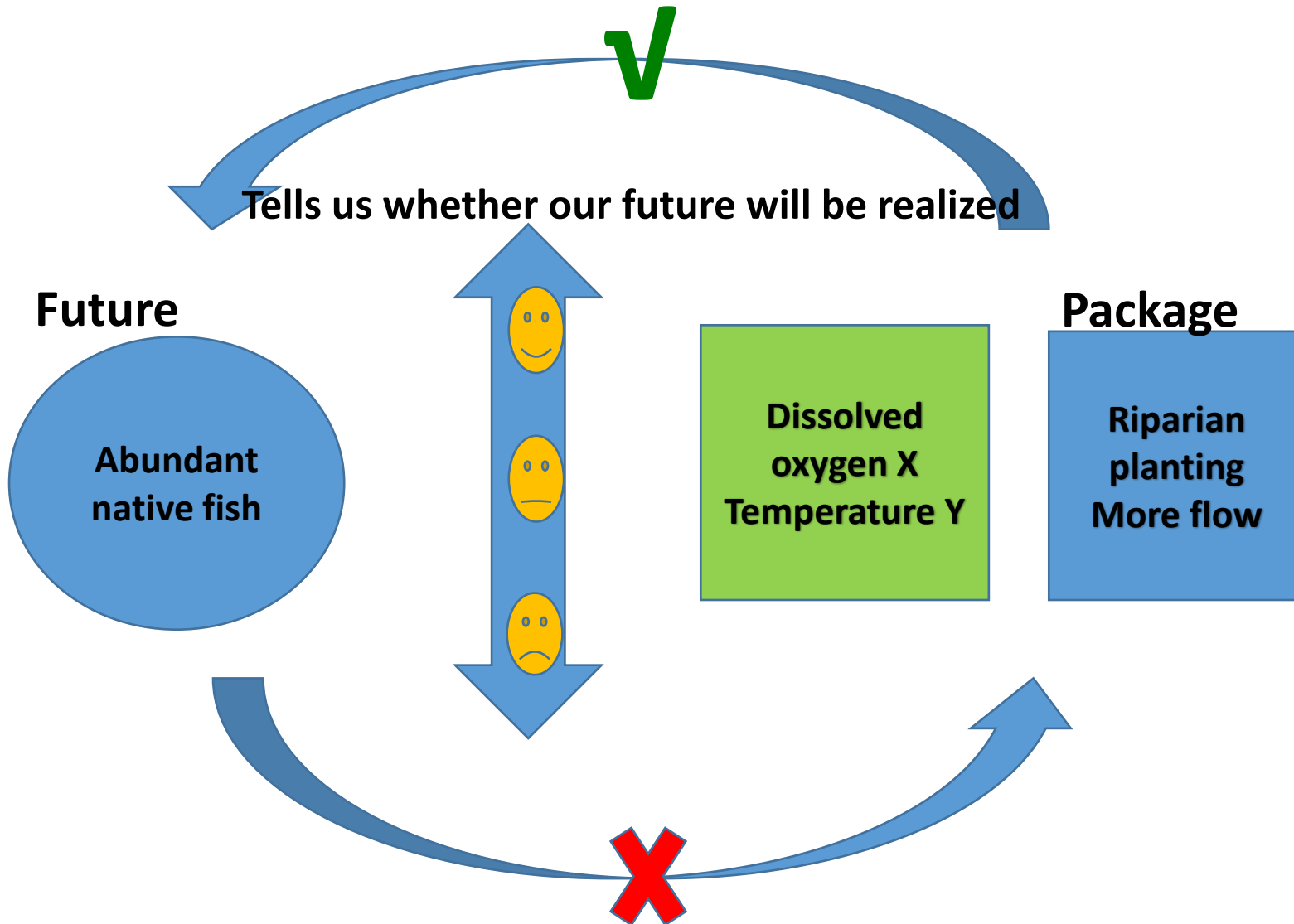
Freshwater outcomes vs scenarios



How does modelling scenarios work?

- Modelling works in one direction only
- Management option → result (impact on values)
- The model can't work backwards from an outcome and tell us what we need to do
- Can only model those things we know about and can model

How does modelling scenario works?



“Business as usual” Scenario 1

- Current policy
- Current practice
- Current projected investment (e.g. stormwater/wastewater)?

Scenario 1

- Existing rules in PNRP
- Stock exclusion rules
- Existing wastewater and stormwater discharges
- Wastewater and stormwater discharges from known new urban growth
- Shift of SH 1 to Transmission Gully
- Existing urban earthworks and forestry practice

Menu of Management Options

- Removing wastewater discharges from surface water
- Stock exclusion
- Riparian enhancement
- Stock management (GMP)
- Planting hill country/retirement
- Forest harvesting practice (GMP)

Continued

- Water use efficiency
- Wetland restoration and enhancement
- Sediment retention
- Fish passage
- Urban earthworks mitigation
- Stormwater attenuation and treatment
- Planned urban form

Climate Change

- Scenarios will consider climate change

Building Scenarios

- What scenarios will achieve the water objectives you want?
- Working Groups