



Australian Government



# Knowledge Needs' in the Murray-Darling Basin

**Pradeep Sharma**





# Knowledge Needs

There are **known knowns**. These are things we know that we know. There are **known unknowns**. That is to say, there are things that we know we don't know. But there are also **unknown unknowns**. There are things we don't know we don't know.

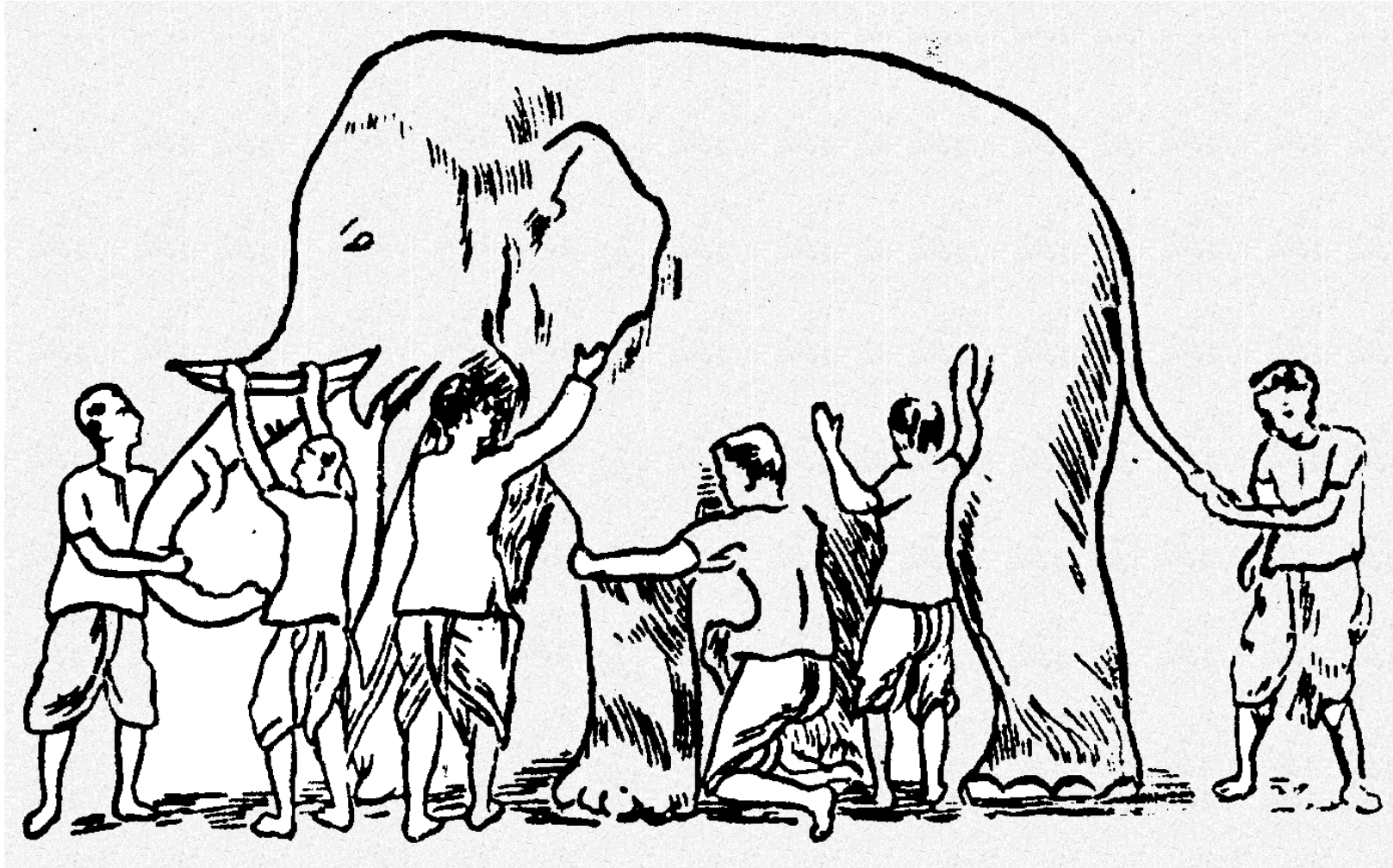
[Donald Rumsfeld](#)



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# Six Blindfolded men describing elephant



American poet John Godfrey Saxe (1816-1887)

# Priority Areas

- DSS's which integrate hydrology, ecology and socio-economic analysis in spatial and temporal scales
- Short to medium term flow forecasting
- Eco hydrological modelling
- Salinity – Flow and salt mobilisation relationships
- Operationalising existing research
- Risk and uncertainty analysis
- Optimisation and other system analysis tools



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