# Vineyard Economic Sustainability

## – Using Bayesian Networks

In the last series of workshops, we highlighted the significant factors that influenced the environmental impact of a vineyard. We did this in a general Australian sense then used Coonawarra as an example to examine closer.

We want to complement our work by looking at the factors that influence the economic impact of vineyards. We want to again do this in a broader Australian sense, then at a regional level. We can debate the inclusion of further scales such as international, and the merits of including them.

A major reason for doing this second Bayesian network is that these two networks can be combined to see how environmental factors and economic factors play similar or different roles. We can then further evaluate scenarios using these networks to look at how different economic or environmental practices might complement one another.

We will want to achieve the same outputs as last time:

* Defining these factors
* Creating the structure for these factors
* Attaching probabilities to relationships between these factors

We can leverage some of the definitions from last time, as well as use our prior work as an example of what we want to achieve.

I have also refined some of the tools introduced later in the process to help in our initial developments, such as the online tool used by some participants to aid with establishing relationships and probabilities.