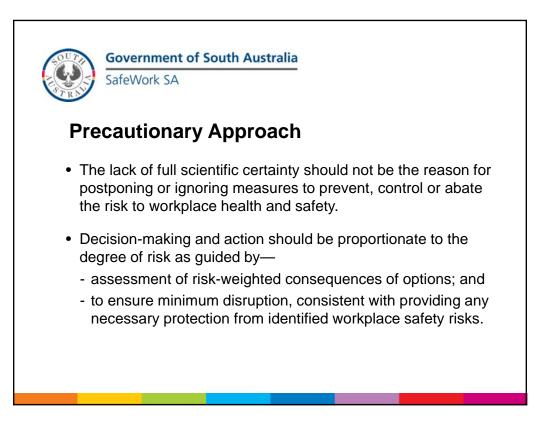






Scientific Uncertainty and Precautionary Approach

- Conventional risk management approach
 - hazard and risk of harm are reasonably well known
 - the required degree of control is also known
- Uncertainty gives rise to issues in risk management
 - long term hazards may be poorly understood or unknown
 - difficult to know whether controls are appropriate or adequate;
 - it will not be known with certainty whether controls are sufficient or overly stringent





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Prudent Avoidance

- **Prudent Avoidance** is a precautionary principle in risk management, stating that reasonable efforts to minimise potential risks should be taken when the actual magnitude of the risks is unknown (Prof. Granger Morgan of Carnegie Mellon University)
- Hence prudent avoidance principle is seen as a better alternative than other approaches to risk management such as ALARP because it makes reasonable efforts to reduce possible risk without creating a specific numeric standard in situations not generally supported by strong scientific evidence

