Seeing the forest and the trees

Addressing uncertainty in a non-traditional investment asset class

IAAust BIENNIAL CONVENTION 2003



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- Introduction;
- Plantations as an investment;
- What is wood?
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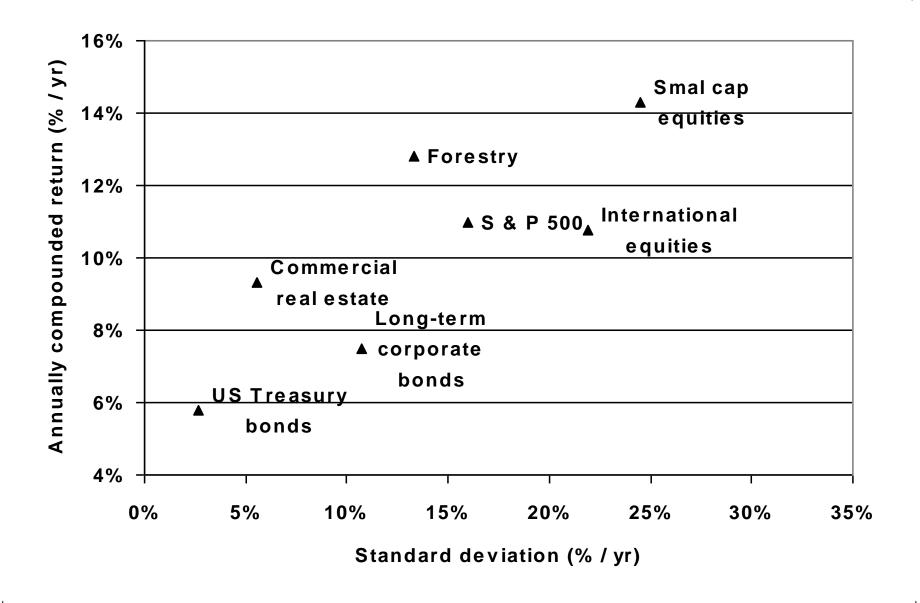
Introduction

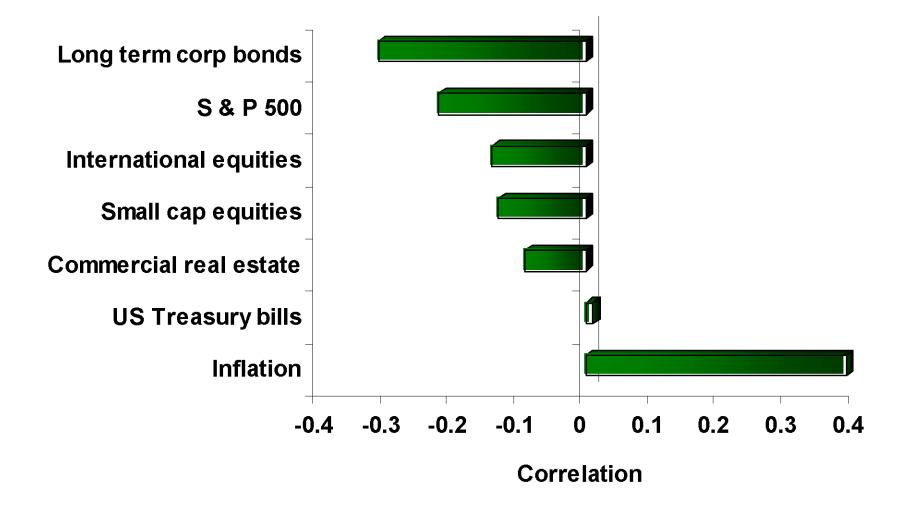
- Variable History Solid Fundamentals
- Triple Bottom Line Benefits to Australia
- Specific Financial Benefits arising from Carbon and Salinity Credits
- Biology meets Finance and Investment
- Alternative Asset Class/sub-class
- Portfolio Construction

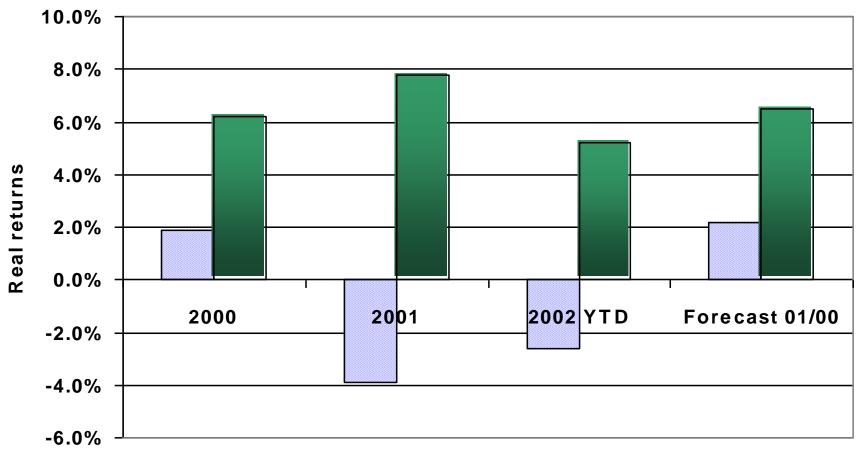


Plantations as an investment

- Investment Horizon, Cash Flows
- Return for risk
- Counter- cyclical
- Wood, Carbon, Land elements
- Portfolio diversification









■ Traditional ■ Non-traditional

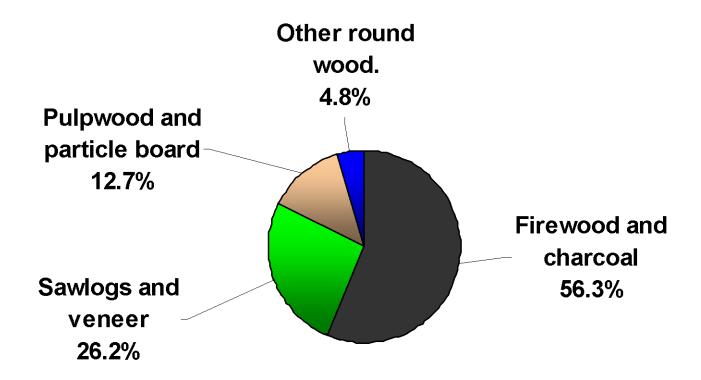
Plantation investment options

- Direct Ownership
- Land leasing/forestry rights
- MIS
- Listed Companies
- What Next?

Wood markets

- Commodity;
- Transport economics;
- Supply and demand.

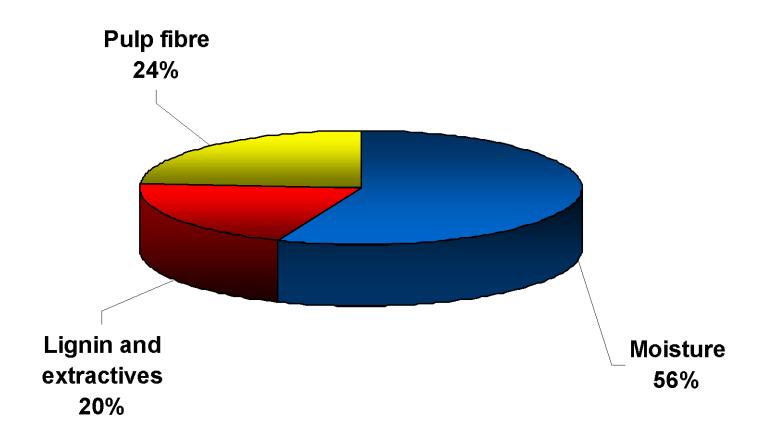
In 1995, 3.5 billion m³ used



What is wood?

- Softwoods and hardwoods;
- Eucalypts are hardwoods;
 - Short fibres
 - Fine quality papers
- Pulp and carbon.

Composition of a 8 yr old *E.globulus* wood



Plantation development and management

- Establishment, maintenance and harvesting;
- Life cycle of attributes and risks.













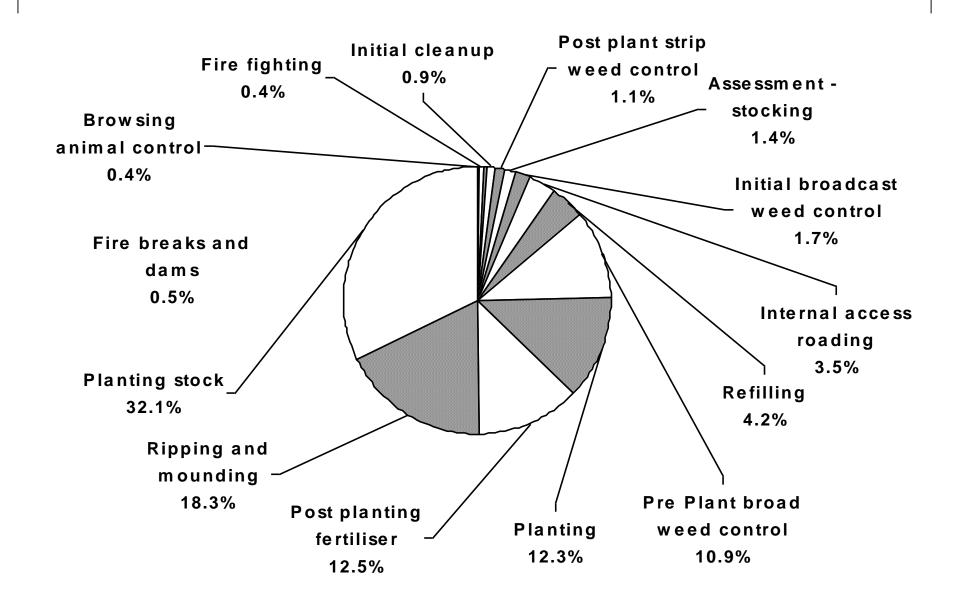


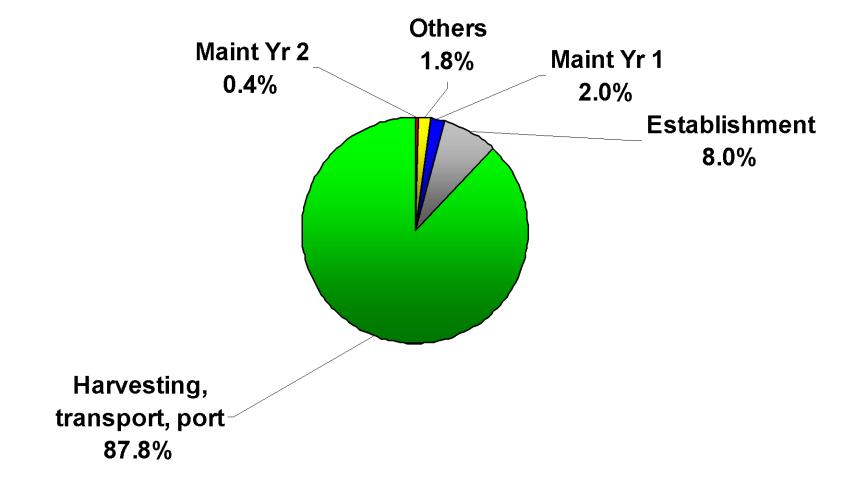












Risks

- Wide range;
- Biological, macro environment & business;
- Understanding is key.





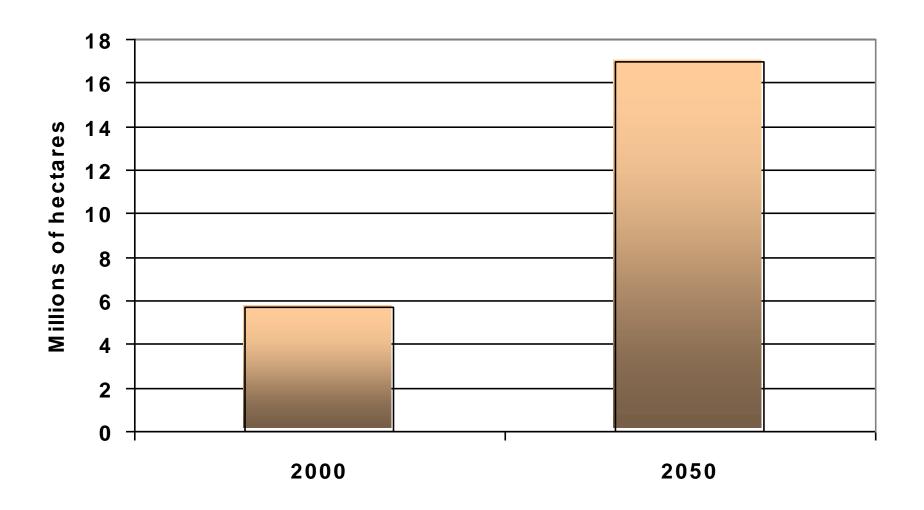






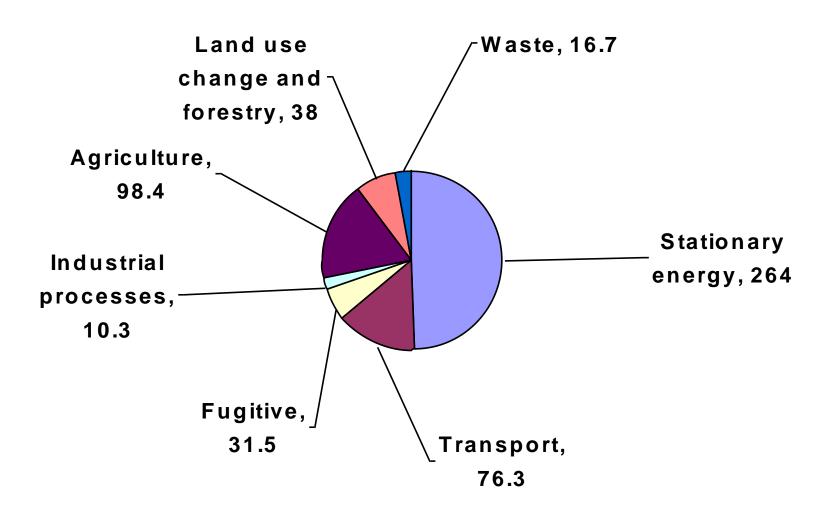
Salinity

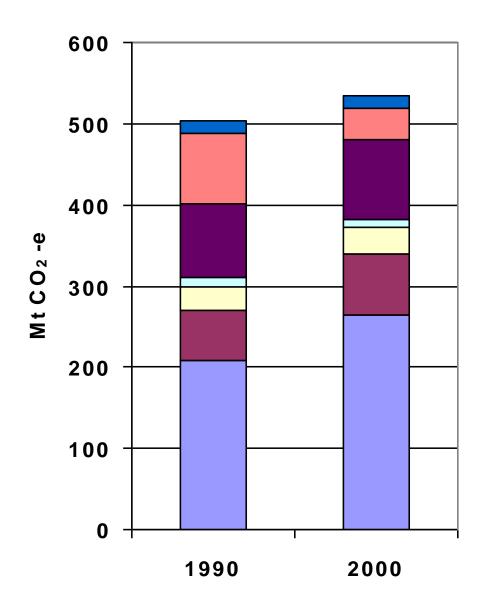
Australia's dryland salinity areas

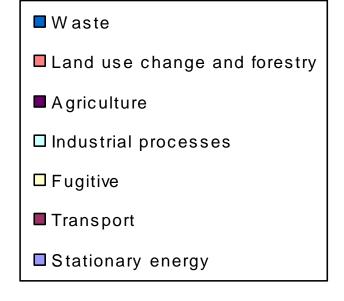


Carbon

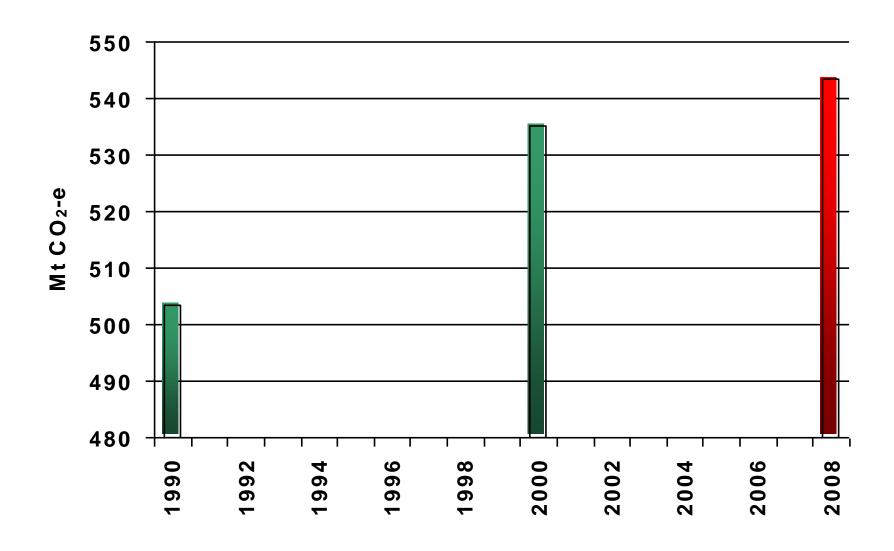
Australia's 2000 GHG inventory (Mt CO₂-e)



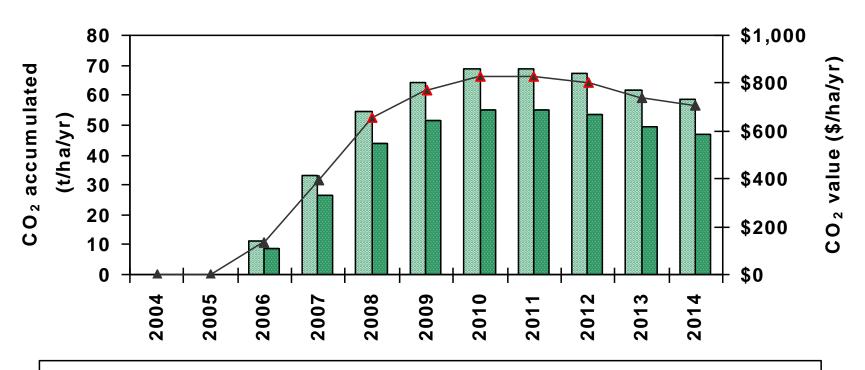




Australia's progress to COP1



CO_2 (quantity and value) @ MAI = 25m3/ha/yr and CO_2 value of \$15/t



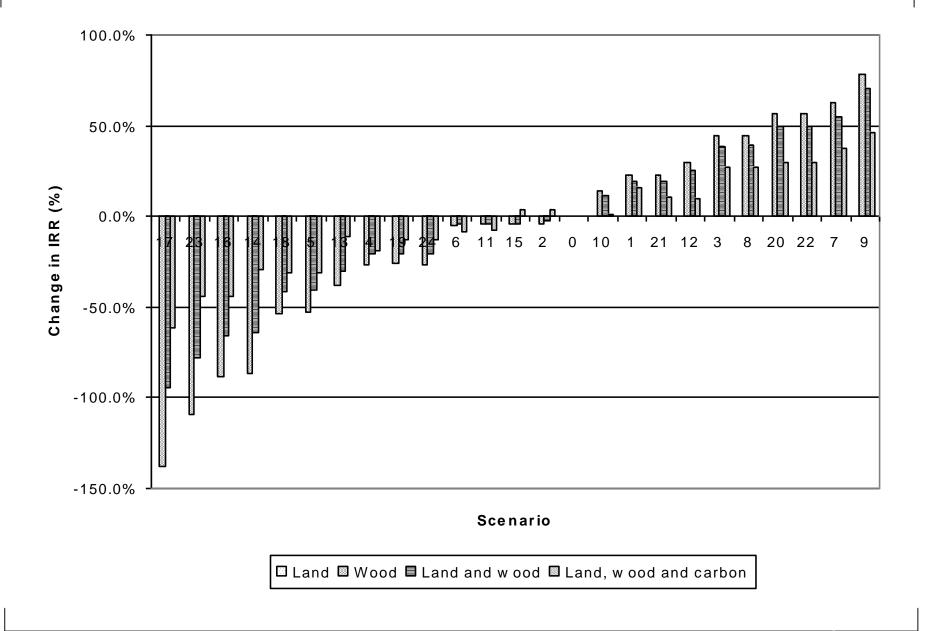


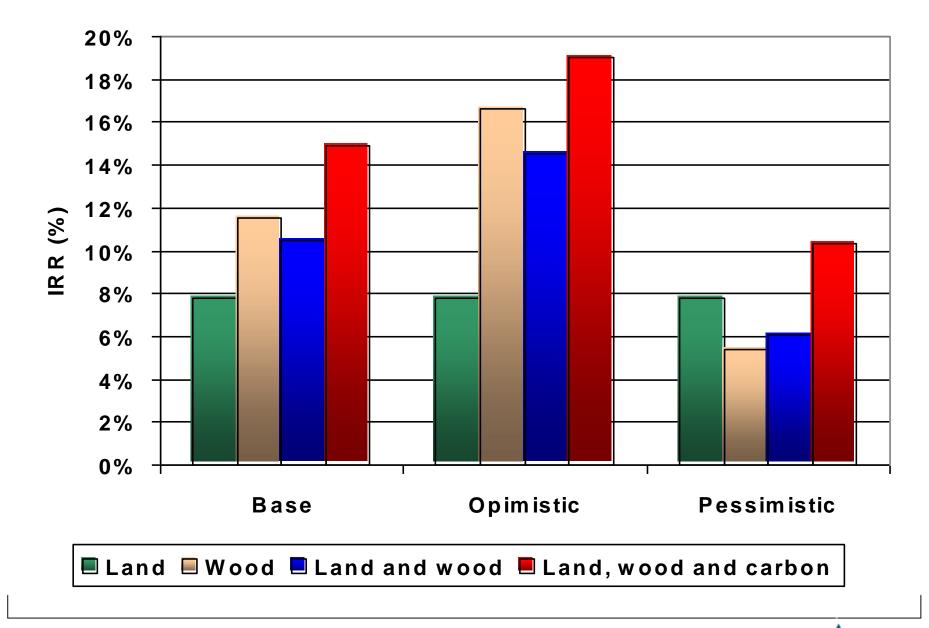
Carbon dioxide available for sale from total biomass grown per year

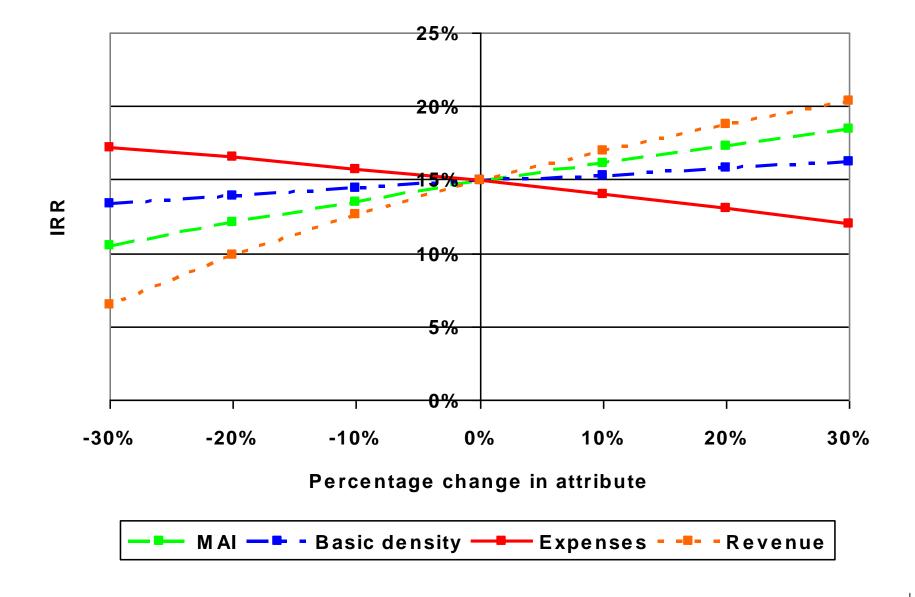
Carbon dioxide value

Returns sensitivity

Outcomes of a Worked Example









Summary

- Risk/Return Characteristics Composite and Segregated Components
- Attractive Asset Class in Certain Portfolios
- Expanding Triple Bottom Line Benefits

Discussion

