



Australian Greenhouse Office Jaakko Pöyry Consulting

Development of a National Wood Products Model Chris Borough & Hamish Crawford



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Carbon in wood products

- IPCC Default – emission at harvest fails to recognise important pool
- Dakar conference 1998 proposed alternate accounting methodologies
 - IPCC Default
 - Production
 - Stock-Change
 - Atmospheric Flow

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IPCC Default – emission at harvest

- For wood exporting countries carbon emitted in another country is debited to originating country
- For wood importing countries – carbon rules are attractive

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Production Approach

- Responsibility for accounting for decay of all wood products rests with country of origin
- Need to track all products within other countries (incl non-Annex I)
- For wood importing countries – carbon rules are attractive
- We believe unworkable

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Stock - Change

- Accounts for all emissions from wood products in Australia – regardless of origin of wood product
- Places responsibility on Australia for all wood; origin of wood (Annex I or non-Annex I not important)
- Australia not responsible from emissions from exports
- We consider possible to implement

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Atmospheric Flow

- Similar to stock change but uses actual decay rather than assumed decay function
- Very difficult to implement - impractical



Flow of Logs

- ABARE
- State Forest Services
- Back to 1944

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Identification of Carbon Pools in Products

- Sawmilling
- Preservation
- Plywood
- Panels
- Pulp & Paper
- Export Logs (incl. Woodchips)

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Life Span of Wood Products

- Very Short Term (Pool 1) 3 years paper, swd pallets etc
- Short Term (Pool 2) 10 years hwd pallets, MDF etc
- Medium Term (Pool 3) 30 years treated palings, kitchens
- Long Term (Pool 4) 50 years furniture, hwd poles
- Very Long Term Pool (Pool 5) 90 years framing, furniture

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Pool of Wood Products in Service

- Housing starts since 1944
- Estimated amount of timber by dwelling type
- All housing timber assumed to be Pool 5

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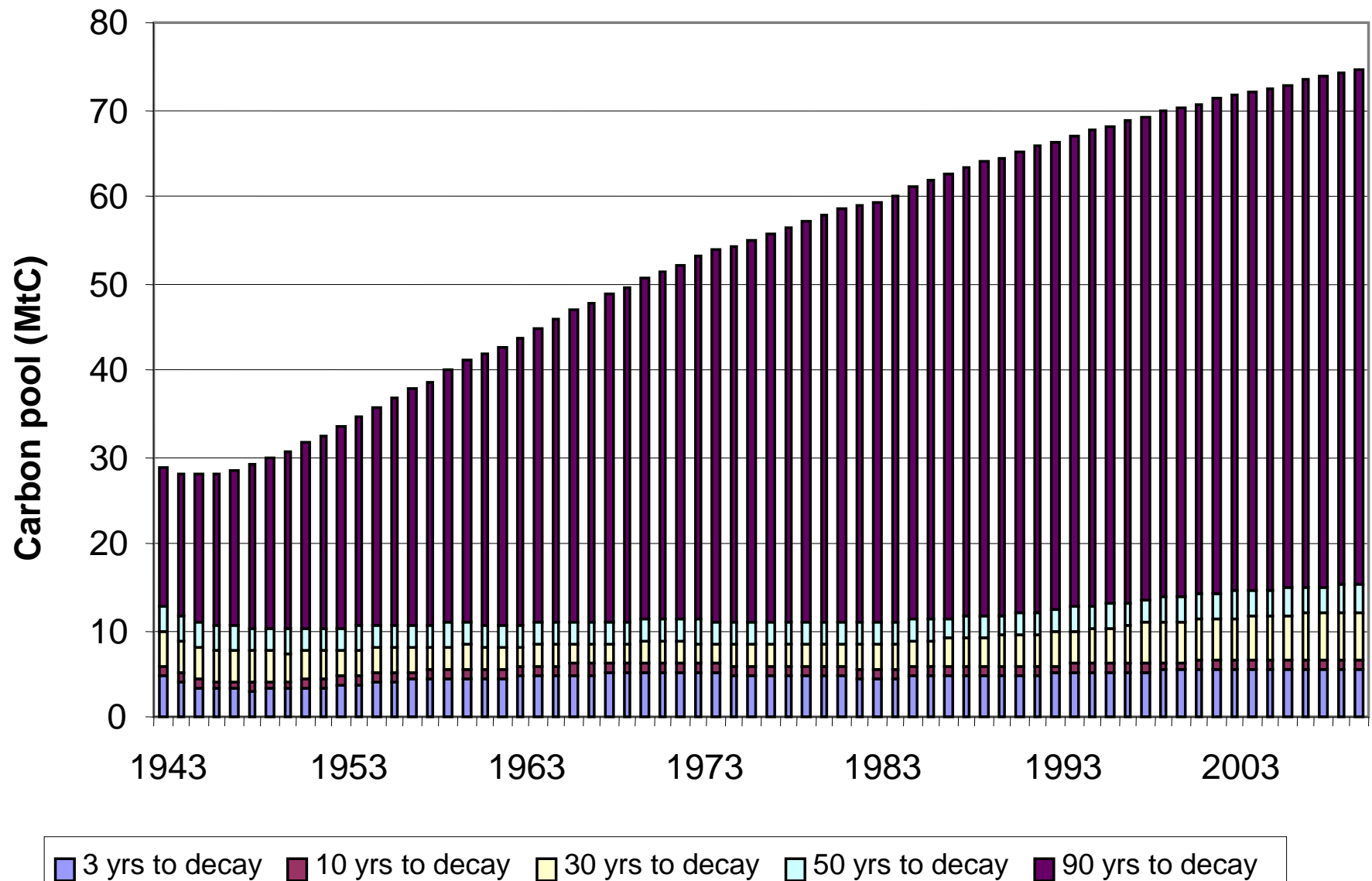
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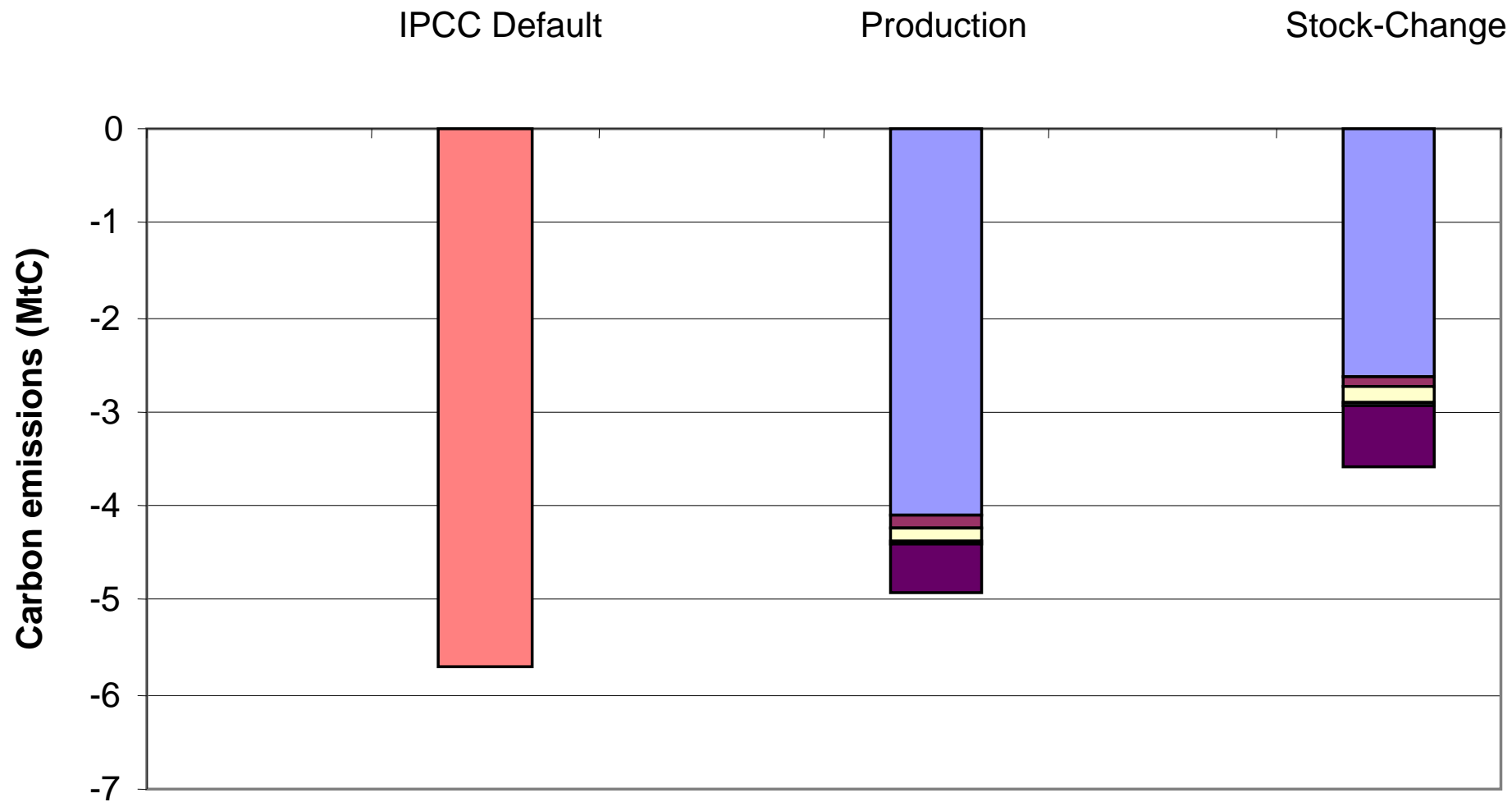
Output from Model

- Log inputs to each sector
- Estimate of all products over time
- Split of products by expected life span
- A combined Australian figure converted to carbon equivalents

Carbon Pool in Wood Products – Stock Change



Examination of Alternate Accounting Strategies



■ 3 yrs to decay ■ 10 yrs to decay ■ 30 yrs to decay ■ 50 yrs to decay ■ 90 yrs to decay ■ All pools



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