

## Presentation to:

# Senate Economics Legislation Committee

August 2004



is a national industry association representing the collective interests of the Australian Technical Textiles and Nonwoven industry. The Technical Textiles and Nonwoven Association (TTNA)

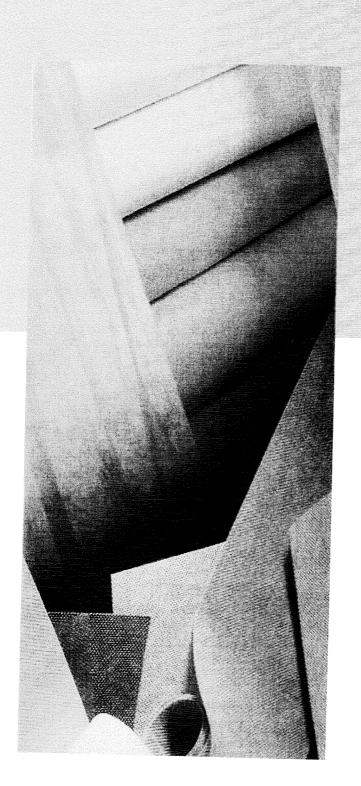
Technical & Nonwoven Textiles are about function not fashion

R&D is critical to the industry

The TTNA recommends the legislation be amended to include R&D for the Technical & Nonwoven Textiles sector.

The TTNA advises all parties to pass the enabling legislation (inclusive of amendments for R&D for the TTN sector) for the post 2005 programs as soon as possible.

# Industrial Markets & Applications for Nonwoven Technical Textiles





### Automotive

Used to reinforce automotive interiors and parts, including:

- carpets
- headliners
- bonnet liners
- boot liners
- acoustic barriers foam reinforcement in seats
- anti-squeak tapes
- door trim panels

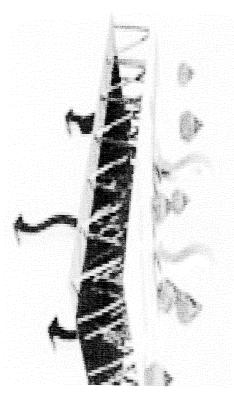


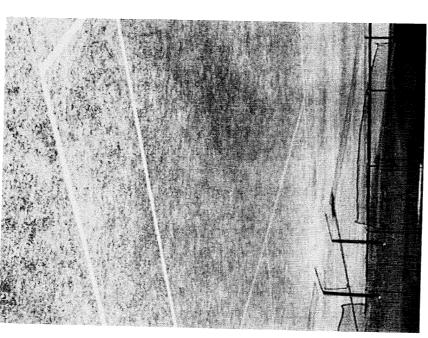




## **Artificial Sports Surfaces**

Used as joining tapes, cushioning underlay and drainage barriers to maintain a level & firm playing surface

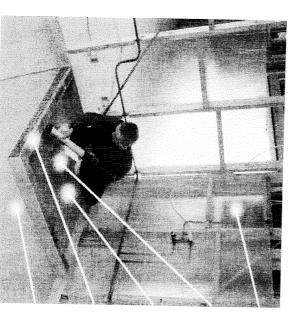


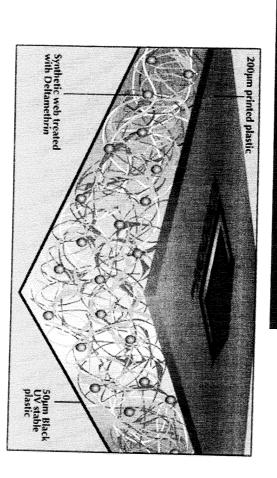




### Building: Termite Barriers & Waterproofing Membranes

Termite barriers – prevents termites from destroying timber framed houses



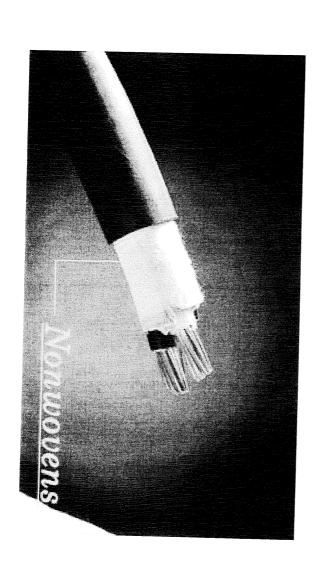


Waterproofing membranes – prevents moisture from damaging timber in residential & commercial buildings



### Cablewrap

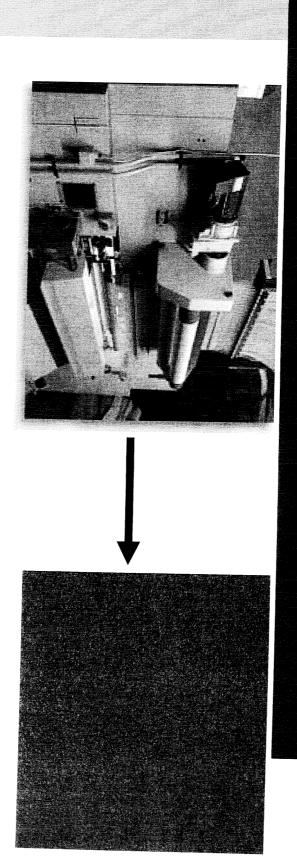
cables and electronic circuitry Used to insulate electrical & telecommunications





#### Carpet



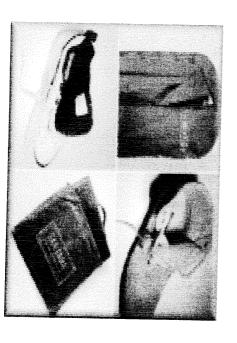


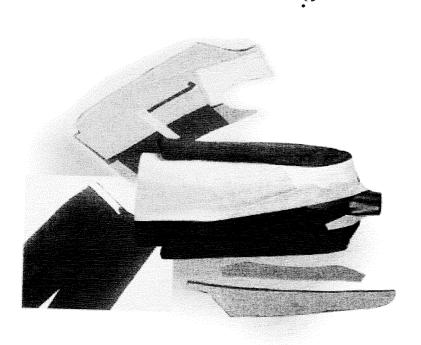
base of these products substrate to manufacture automotive, residential carpets & commercial carpet tiles and as a secondary substrate on the Primary & secondary carpet backing – used as a tufting



# Clothing, Footwear & Luggage

- Shoe lining & reinforcement.
- Clothing interlining and stiffening aids.
- Lining & reinforcement of luggage.
- Protective apparel

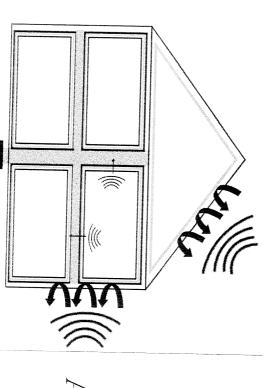


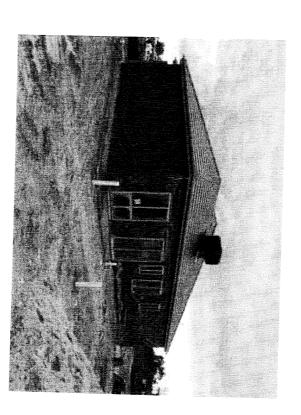




## Building & Construction

- Housewrap
- Roofing underlay
- Wallpaper



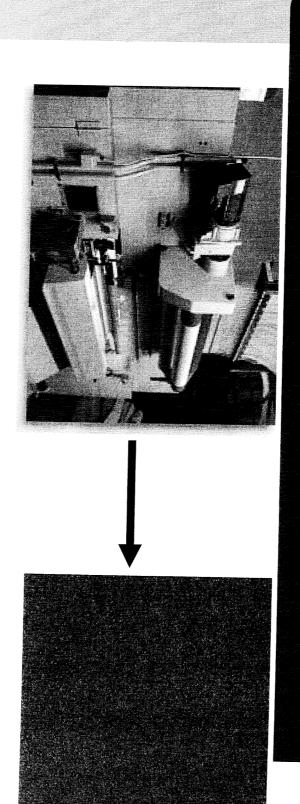


Acoustic & thermal insulation



NOTIFICATION ASSOCIATION

#### Carpet

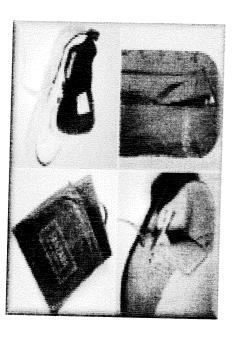


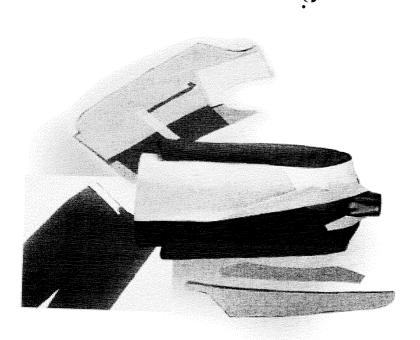
base of these products commercial carpet tiles and as a secondary substrate on the substrate to manufacture automotive, residential carpets & Primary & secondary carpet backing – used as a tufting



# Clothing, Footwear & Luggage

- Shoe lining & reinforcement.
- Clothing interlining and stiffening aids.
- Lining & reinforcement of luggage.
- Protective apparel

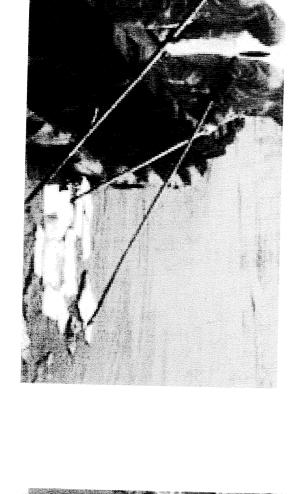


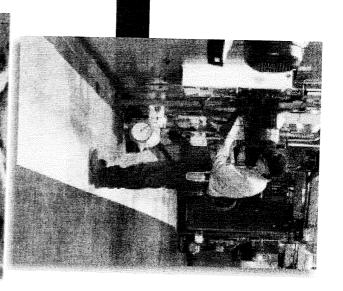




### Environmental

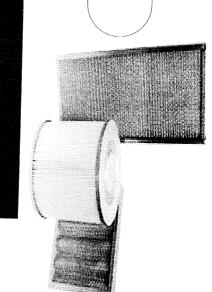
Oil & chemical absorbents – used to clean up spills in factories, in rivers & ocean



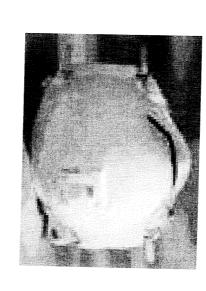


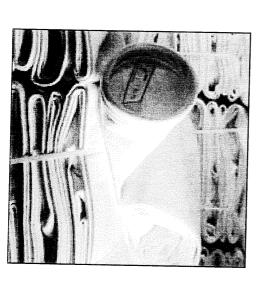


## Filtration – Air & Gas



Dust & gas masks – filters dust, mist & odours in industrial & medical applications





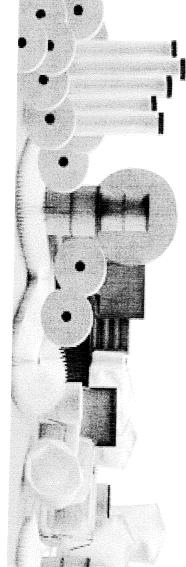
Cartridge & bag filters – hundreds of applications including automotive air filters, building air-conditioning systems, industrial filtration systems & vacuum cleaners



## Filtration - Airconditioning

Ducting – used as filters & acoustic dust barriers in air-conditioning ductwork





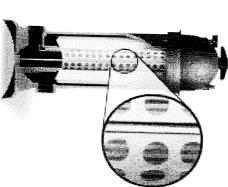


#### NONWOVEN ASSOCIATION TECHNICAL TEXTILES AND

### Filtration - Liquid

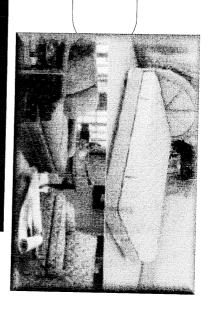


- Industrial coolant filtration
- Pool & spa filters
- outletsMilk filtration Frying oil filters in fast food
- Water filtration
- Tea & coffee bags
- Metal swarf filtration



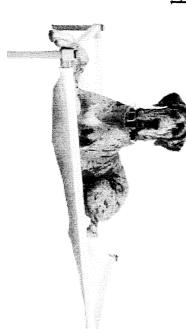


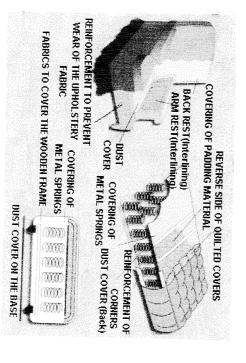
## Furniture & Bedding



Used in many different areas of a bed or piece of furniture, including:

- quilt backing
- spring & cushion protectors
- dustcovers
- cushion inserts
- couch platforms
- flange
- padding
- pet products
- anti-slash / fire retardant barriers in train & bus seats to reduce the damage caused by vandals

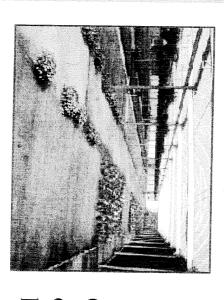




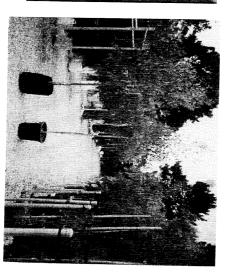


# Horticulture & Landscaping

Crop covers – protects
vegetables, fruit and
plants from frost
damage and reduces
insect damage reducing
plant growing seasons
and increasing yield





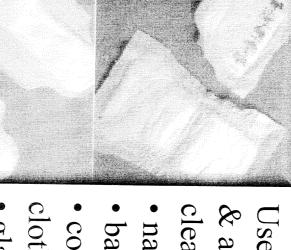


Root control bags - to promote healthy root growth & reduce transplanting failures

Capillary mats – used to reduce wasteful overhead watering systems & promote healthy plant growth



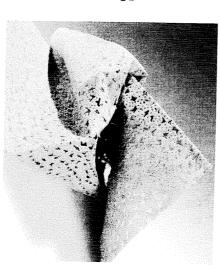




cleaning wipes in: & absorbents and Used as moisture barriers

- nappies
- baby & facial wipes
- cloths cosmetic cleaning
- glass & lens cleaners
- kitchen cloths
- glove liners



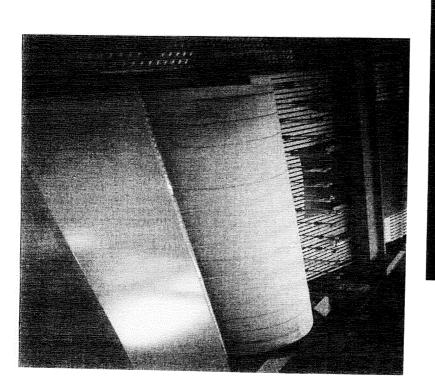




### Industrial Laundries

NONWOVEN ASSOCIATION

Used to protect and insulate laundry clothes presses and wide width linen ironers

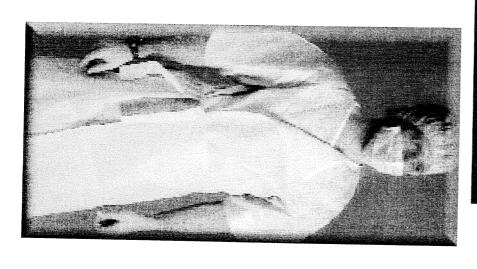




#### Medical

Used as barriers, filters and surgical aids in hospitals, aged care facilities & emergency services:

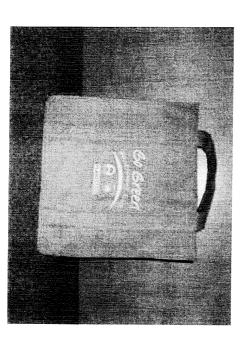
- face masks
- head protectors
- surgical gowns
- incontinence blankets & pads
- footwear covers
- bed protectors
- patient warming blankets





#### **Packaging**

Absorbent packaging used in the food industry to maintain freshness & colour





Re-usable shopping bags, flower wrapping, luggage bags & compact disc sleeves



## R&D is critical to the industry

- The TTNA recommends the legislation be amended to include R&D for the Technical & Nonwoven Textiles sector
- R&D creates employment
- There is a strong correlation between R&D investment & GDP per capita amongst OECD countries
- Australia's Business Expenditure on Research & Development (BERD) does not compare favourably with other countries. **Canberra must feed the BERD!**
- drives long term growth Innovation provides companies with the capacity to become market leaders - it
- The TTN sector believes that is has been discriminated against for being good industry citizens, by having R&D entitlements eroded in favour of those sectors of the industry that are unlikely, haven't or won't reinvest!



## R&D is critical to the industry

- The Technical & Nonwoven Textiles industry is CSIRO's (TFT division) largest private commercial customers
- CSIRO has invested in excess of A\$10 million in technical and nonwoven textiles equipment and pilot lines to facilitate R&D in this
- I CSIRO have recently made 23 positions redundant
- The CSIRO and Technical & Nonwoven Textiles industry has the opportunity to develop globally competitive innovative products



# Economic significance of the industry (membership survey)

- The industry's investment in capital expenditure
- A\$66M in 2000/01
- A\$57M in 2001/02, and
- an estimated A\$84 in 2002/03
- \$1.7 billion annual manufacturing turnover
- Average turnover per employee is between \$250,000 and \$400,000
- Approximately \$200 million in exports

١

- R&D expenditure:
- A\$18.6M in 2000/01
- A\$20.4M in 2001/02 and
- an estimate of A\$19.8M in 2002/03
- Regional economic significance
- Dandenong, VIC, Gosford, NSW, Albury, NSW, Stawell, VIC, South Port, QLD



#### Characteristics:

- A highly skilled workforce
- Highly capital intensive, requiring large investments in
- Research and Development
- Innovation
- Product Development and
- Production Facilities
- technical textiles Transition of traditional textiles and fibre producers into
- Significant investor in environmentally sound production and end product applications
- program to the industry The Strategic Investment Program (SIP) is an important



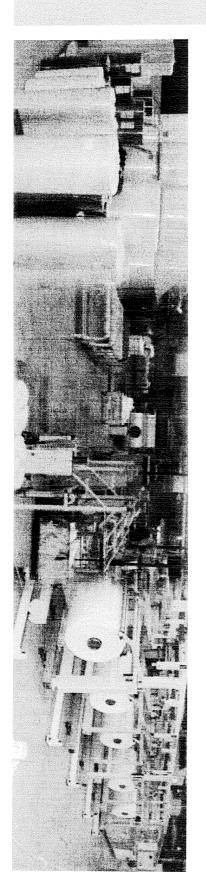
### Characteristics (cont):

### A highly skilled workforce

Average turnover per employee is between \$250,000 and \$400,000

# Highly capital intensive, requiring large investments in

- Research and Development
- Innovation
- Product Development and
- **Production Facilities**





# The Technical Textiles and Nonwoven industry has responded positively

- The industry has undertaken fundamental structural change
- The WTO Agreement on Textiles and Clothing (ATC) will continue to drive change for some time
- Over A\$200 million invested since 2000



## The Strategic Investment Programme (SIP)

- development SIP has been the catalyst for investment in research &
- SIP is the catalyst for investment in capital equipment
- SIP has assisted traditional firms reinvest in order to produce more technical products



#### Conclusion

- The industry has undertaken fundamental structural change
- drive change for some time The WTO Agreement on Textiles and Clothing (ATC) will continue to
- and R&D to address the structural change Therefore the industry will need to further invest in capital equipment
- The TTNA advises all parties to pass the enabling legislation (inclusive of amendments for R&D for the TTN sector) for the post 2005 programs
- Given the delay in the legislation being passed and the impact on investment the TTNA recommends a seamless transition between the current and post 2005 programmes