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About Australian Wool Innovation

- Australian Wool Innovation (AWI) is owned by 33,000
 Australian wool growers who pay a 2% levy.
- AWI invests about \$60 million annually to drive research, development and marketing.
- AWI has two key objectives:
 - to increase demand for Merino wool
 - to improve on-farm productivity.
- AWI has 78 staff at offices in Australia (Sydney, Melbourne and Geelong), China (Shanghai), United States (New York), Hong Kong, India and Italy.



Increasing demand for Australian Merino wool

- AWI is building partnerships with designers, retailers, fabric manufacturers and garment makers (B2B) to point of sale.
- Focus is on developments, innovations and marketing that improve colour, softness, touch, handle and drape of woollen fabrics.
- Textiles 2004/5
 Total \$24 million
 Product development > \$10 million
 Both to be increased in 2005/6.





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Past

- Ten years of static prices.
- Wool replaced at lower-middle price points.
- Processing moved to China, Turkey, North Africa.
- Design and development skills lost.
- Men's suits still strong area.
- Recovery for knitwear.



Present trends



- Lifestyle changes in the Western world.
- Lifestyle changes in Asia/China.
- Cult of the individual.
- Target 20–35 and 45+ age groups.
- Wool being requested.
- Scope for growth in domestic markets of China and India.

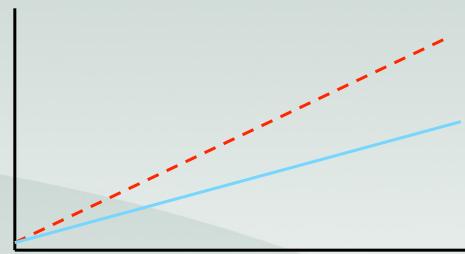






Limits to growth

Petrol usage



1970 1975 1980 1985 1990 1995 2000 2005

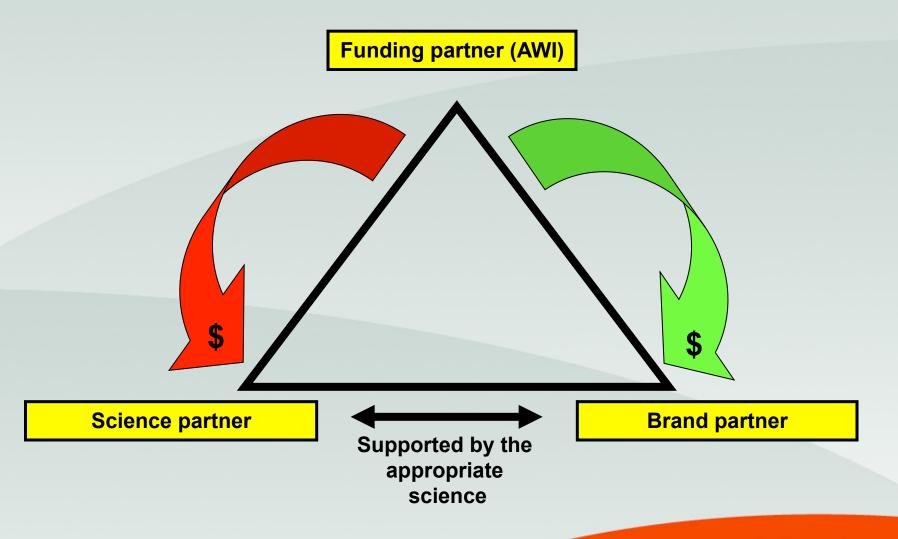


AWI marketing strategy

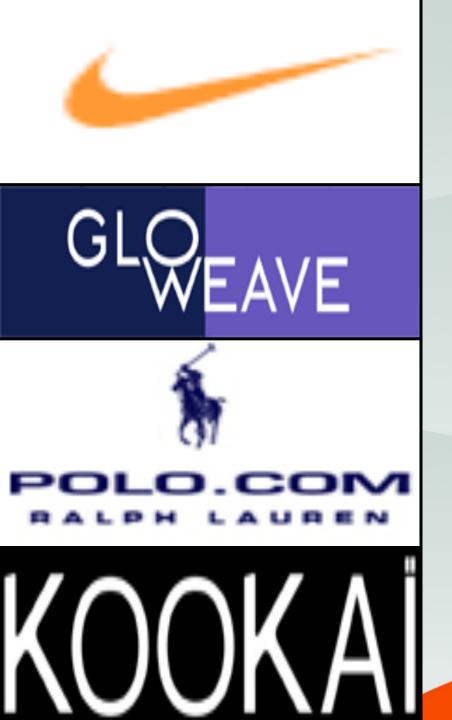
- Study lifestyle trends and understand consumer preferences.
- Develop marketing stories around Merino fibre.
- Create products from marketing stories.
- Interface with producers and retailers.
- Employ design 'names'.
- Manage and control the detailed marketing plan.
- In short, consumer-led research and development.



Tripartite methodology of commercialisation







Why we focus on brand partners

- To test the value of the project – AWI aims to invest in projects that can be commercialised.
- To take guidance the development must be sympathetic to advice and direction from the brand partner.
- To hit price point AWI
 aims to develop products that
 have a price point the
 marketplace is willing to
 digest.



Marketing platforms















Winter to spring product maps

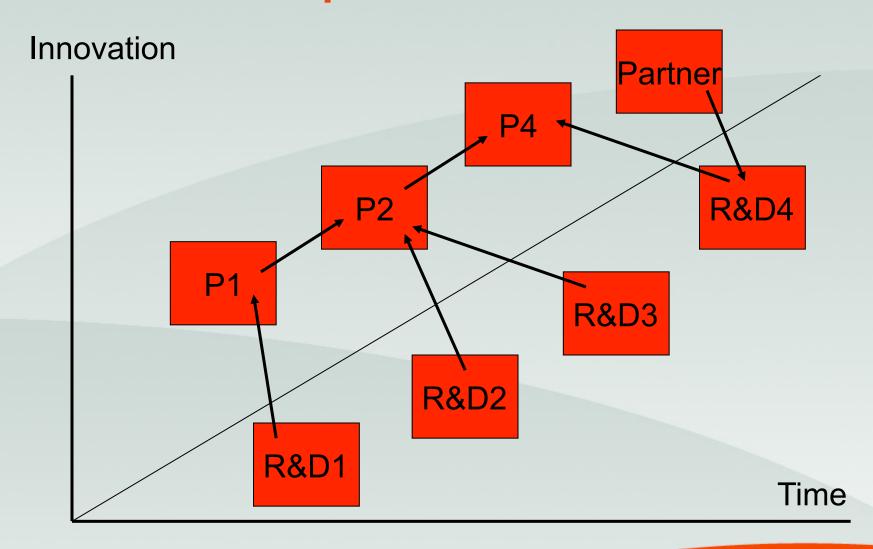


Ladies fashion market Merino blended with:

- linen
- silk
- arcana
- viloft
- micro fibres
- · cotton.



Product development 'roadmark'





Machine-washable wool suit

- Holds its shape and style after washing.
- Wool/polyester fabric.
- Heilan to sell the suits through its retail shops.
- Aiming for 30,000 suits in first year of production, 50,000 suits in second year.
- Mass production commenced in 2005.





Structural blends

Project: Wool/cotton blends

- Meet consumer trends towards natural fibres.
- Woven and knitted garments.
- Improve tactile and comfort.
- Retain garment appearance and washability.
- Commercial wear trials:
 - Rip Curl
 - Sportscraft
 - Yakka
 - Thomas Cook
 - Department of Defence.

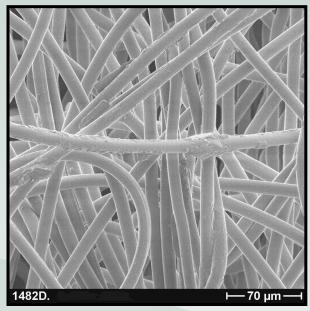




Non-apparel products

Electrostatic wool filters





To develop new uses for wool in medical and industrial filtration products.



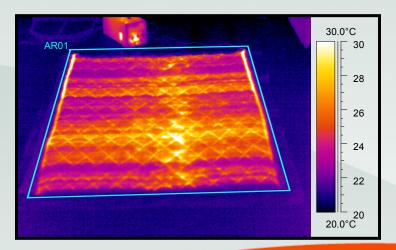
Novel apparel products

Heated socks and blankets

Wireless heating system.

- Using conductive polymer technology.
- Commercial trials about to begin with two large retailers in the UK.





Processing efficiencies

Murata Vortex

- Spin yarn directly from sliver rather than roving.
- Twenty times faster than conventional spinning systems.
- Lower spinning cost.
- Potential for spinning both wool and wool-blend yarns for knitwear.
- Commercial partner: Murata,
 Japan.





Medical textiles

- Trauma regenerative programs:
 - burns trauma immediate care
 - burns trauma recovery management
 - theatre covers.
- Palliative and aged care:
 - injury prevention tears
 - treatment of ulcers
 - covers and garments.





AWI and Woolmark

Merino Active

- Fighting back against Polarfleece in \$4 billion fleece market.
- Bi-layer blend 35% wool, 65% polyester.
- Warmth and breathability benefits of wool.
- Easy care and value for money.



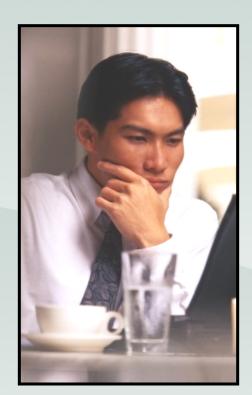






Lightweight machine-washable wool fabric

- 18.5-micron pure Merino wool fabric, easy care, chemical free.
- Developed for summer wear - shirts, trousers and jackets.
- Technology transfer completed in several countries.







Total Easy Care Knitwear, USA

- Recovering lost markets in women's outerwear.
- High demand market.
- · Minimum care or TEC.
- Commercially available.





Merino super soft wool fabric

- AWI working with KOOKAÏ.
- Redefining wool as soft, gentle, feminine and comfortable on the skin.
- 18.2-micron with long fibre length.





KOOKAÏ – a leading fashion retailer





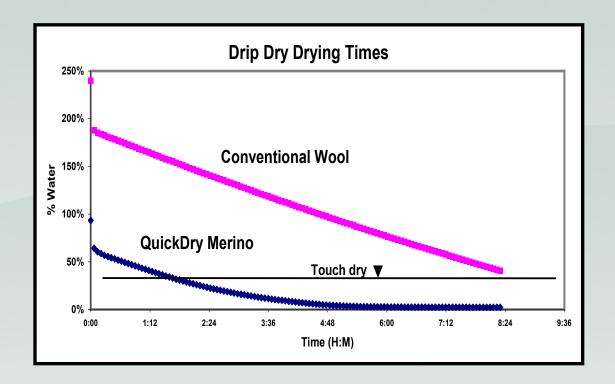
 From 1998 to 2004 cumulative wool sales have reached \$50 million. 'Merino Posh'.



Quick dry

Outcomes

Significantly reduced drying time for both shrink-resistant and hand wash wool garments.



- Holds less water after washing.
- Drip-drying time reduced by a factor of four.
- Tumble drying time reduced, saving time and energy.
- Stain release.
- Water resistant.



Whiter wool



Problem:

- naturally cream
- consumer needs FBA Cotton
- wool needs whiter and brighter
- bleaching damages wool
- FWA not suited to wool.



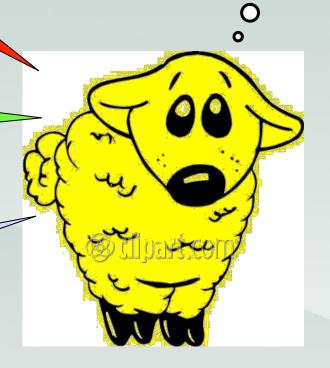


Whiter wool - solutions

Blends: target FWA to non- wool.

Bleach wool FWA synthetic = 'superwhite'.

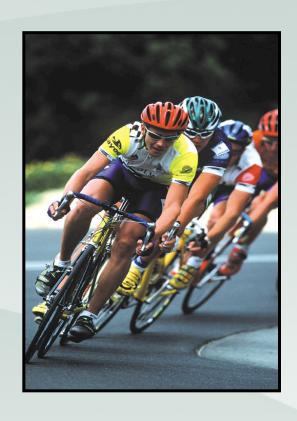
Pure wool – Rohm and Hass – best white / minimum damage.





Sportswear program

- Wool is rare in global sports apparel.
- Change:
 - technical merits of wool
 - needs credible and innovative products
 - targeted to key sports needs.

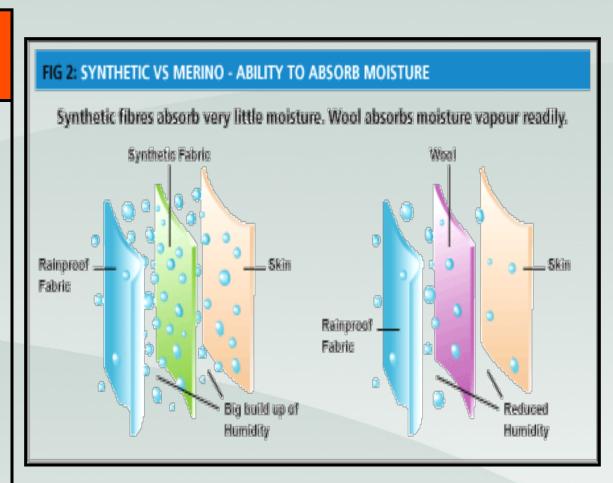




Sportswear program

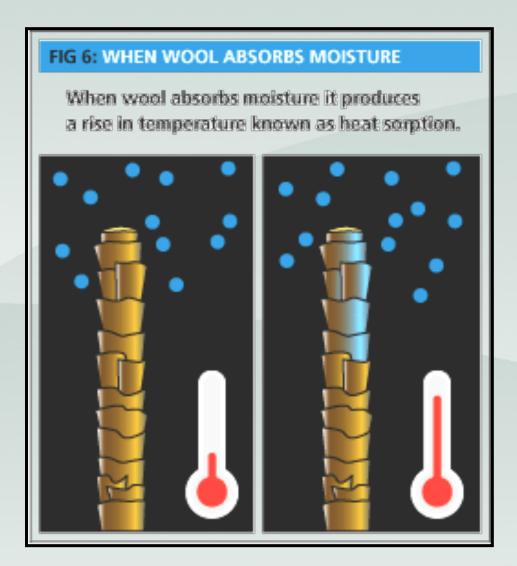
How?

- Create performance story.
- Create brand partnerships (Nike, QS, Oakley).
- Opinion leader network.
- B2B and B2C campaign.





Sportswear Program & Merino



- Moisture transport.
- Temperature reduction.
- Wearer performance.
- Wearer comfort.
- Next-to-skin softness.
- Stretch.
- Odour resistance.
- Stain resistance.
- UV protection.
- Durable.



Sportswear Program



When?

- Dec 05: Partner selection.
- Feb 06: First prototype range at ISPO.
- Sept 06: Range and supply engaged.
 - Clear pricing instructions.
- Feb 07: Expand product range.

Trends and innovations.

Exhibited at four major fairs.



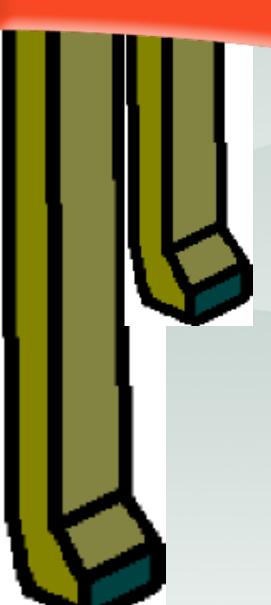




- Shrink resist treatment.
- Sportwool.
- Weavable singles.
- Stretch (Optim).







Pipeline

- > Merino and Microfibre.
- Merino and 'splittable'.
- > Cool Merino.
- > Whiter and brighter.
- > Reduced pilling.
- > Active sports products.

