

ANNEX C - SUMMARY OF CRDC'S STRATEGIES

Program 1 – Value Chain Strategies

1 Develop contemporary knowledge and intelligence about products, markets and supply chains by;

- 1.1 Researching existing market and supply chains for Australian cotton products
- 1.2 Communicating market intelligence and knowledge to the Australian industry
- 1.3 Facilitating new engagement mechanisms with industry and end-users to enable a common understanding of the competitive advantages of Australian cotton products

2 Develop improvements in current products by;

- 2.1 Identifying opportunities for improvements in fibre quality and cotton seed properties
- 2.2 Developing pathways for exploiting the competitive advantage of current premium products

3 Facilitate the development of novel products and by;

- 3.1 Reviewing market intelligence and knowledge to identify needs and opportunities
- 3.2 Creating and fostering initiatives that uncover innovative and novel products
- 3.3 Fostering the formation of partnerships to develop novel products

4 Advance cotton product processing by;

- 4.1 Scanning and evaluating ginning, spinning and textile innovations
- 4.2 Improving fibre moisture measurement management
- 4.3 Supporting the development of Best Management Practices with the post-farm gate sector to assure the quality of Australian cotton products

5 Facilitate the development of objective measurement of Australian cotton fibre by;

- 5.1 Determining appropriate methods and tools that more effectively describe the textile qualities and their values of Australian cotton fibre
- 5.2 Fostering partnerships with the post-farm-gate sector and end-users to support the evaluation, creation of and uptake of advancements in objective measurement

Program 2 – Farming Systems Strategies

1. Build the industry's understanding of climate and natural resource challenges by;

- 1.1. Researching jointly, the implications of climate change and natural resource management policy for farming systems
- 1.2 Investigating the potential impacts of future climates to cotton production and the capacity of the industry to adapt to, and mitigate, its impacts
- 1.3 Researching the implications of a future carbon economy on cotton production

2 Enhance the capacity of the industry to adopt resilient and adaptive farming systems by;

- 2.1 Developing conceptual systems thinking to synthesise knowledge

- 2.2 Benchmarking existing production efficiencies and environmental performances
- 2.3 Delivering innovative solutions to major farming management constraints and future climate-driven challenges
- 2.4 Researching optimisation of farming inputs, processes and capacities with environmental benefits
- 2.5 Supporting a best-practice framework as the primary integrated planning, risk management, benchmarking, knowledge development and extension delivery system

3 Protect industry from bio-security threats by;

- 3.1 Identifying and communicating major biosecurity threats
- 3.2 Supporting the industry's preparedness to deal with biosecurity threats
- 3.3 Researching the management of established, invasive and endemic insect pests, weeds and diseases
- 3.4 Assuring industry capacity to manage the stewardship of biotechnologies and crop protection products

Program 3 – Human Capacity Strategies

1 Identify, understand and plan for future industry capacity needs by;

- 1.1 Scoping and determining future human resource needs
- 1.2 Investigating best practice for attracting, developing and retaining people
- 1.3 Researching jointly the implications of demographic changes for the supply of human resources to agriculture and cotton
- 1.4 Encouraging and assisting development of rural and cotton industry action plans
- 1.5 Investigating alternative methods for research and development

2 Improve human resource development and capacity by;

- 2.1 Supporting initiatives which encourage adaptiveness to change
- 2.2 Targeting investments in human capacity to meet future needs
- 2.3 Leveraging industry development
- 2.4 Establishing and nurturing strategic partnerships
- 2.5 Funding participatory R&D

3 Enhance capacity to innovate by;

- 3.1 Developing best practice in communication and adoption
- 3.1 Developing industry capacity to adopt outputs of research
- 3.3 Establishing and empowering creative forums and initiatives
- 3.4 Recognising and rewarding innovation