# Agriculture in Education:

# an educational resource for the Year 7–8 Design and Technologies

**PowerPoint Resource:**

**The Problems faced by Agriculture**

**Slide 1**

**Setting the scene**

**Climate Variability**

* Australia has a variable climate.
* It has the most variable climate of any continent.
* Farmers face drought, floods, extreme heat and cold, cyclones and extreme storms.

Problem to be solved – Climate Variability

**Slide 2**

**Setting the scene**

**Water Use**

* Water management is very important in Australia as we never really have enough.
* Water is a valuable resource.
* It is important that farmers reduce/manage their water usage, soil erosion and increase produce outputs.

Problem to be solved – Water Use

**Slide 3**

**Setting the scene**

**Pests and Weeds**

* The agribusiness industry has an important role in helping to control weeds and pests.
* Pests and weeds impact farm productivity and the natural ecosystems.
* Using large amounts of pesticides and introducing foreign animals is not the best option. What should we do?

Problem to be solved – Pests and Weeds

**Slide 4**

**Setting the scene**

# Increasing Productivity to Feed the World

* The world’s population increases daily.
* Producing enough food (crops and animals) and fibre to feed and clothe the world’s population continues to be an issue for the agribusiness industry.

Problem – Providing for the people

**Slide 5**

**Setting the scene**

**Feeding the World**

* Seafood is seen as an effective means of feeding the world’s population.

**Slide 5 contd**

**Feeding the World contd**

* Continued wild and ocean fishing is greatly impacting fish and seafood populations and their ecosystems
* How do we manage this?

Problem To Be Solved – Feeding The People Fish and Seafood

**Slide 6**

**Setting the scene**

**Land management**

* The world’s population is increasing .
* The land and water we have available to grow crops, raise livestock and produce seafood is reducing.

Problem to be solved – Land Management

**Slide 7**

**Setting the scene**

**Waste Management**

* Farms, like other businesses and our homes, create waste, such as general, animal and crop waste.
* Having large amounts of waste isn’t ideal or good management.
* So what should farmers do with their waste and how might it be helpful?

Problem to be solved – Waste Management