Mushroom Farmer Case Study

Scan the QR code or click on the link to learn about Farmer Nick before answering the following questions.

⏩ **Nick Femia, SA Mushrooms https://www.northernadelaideplains.com.au/sa-mushrooms**

Nick Femia, SA Mushrooms
153 Tozer Road, Waterloo Corner, SA 5110

1. Mark the location of SA Mushrooms on the map. 📍

SOUTH AUSTRALIA

2. How long has Nick Femia been growing mushrooms?

_____

3. How has the number of growing rooms changed? Why has it changed?

_____

_____

_____

4. In what three areas do the employees work?

_____

_____

5. How many tonnes of mushrooms per week are produced?

_____

_____

6. What conditions are monitored 24/7 with digital technologies?

_____

_____

7. What challenges face the future of the farm?

_____

_____

This resource has been developed by:

Primary Industries Education Foundation Australia | primezone www.primezone.edu.au The place for all your food and fibre resources | AMGA Australian Mushroom Growers Assoc. | Australian MUSHROOMS | Hort Innovation Strategic levy investment | MUSHROOM FUND

Netafim Drip Irrigation

Click on the link or scan the QR code to watch the video and answer the following questions.

ERAN KOBI
ISRAEL

which comprises some 40% of the Israeli market.

⏩ **Drip Irrigation for Mushrooms in Israel:** (2:02)
https://www.netafim. com/en/crop- knowledge/mushroom/

Company Mission:	
Product:	

1. **Describe the innovation.**

   _____

   _____

2. **What problem is being solved?**

   _____

   _____

3. **What is it replacing?** _____

4. **How does it improve efficiency?**

   _____

   _____

TechBrew Robotics

Click on the link or scan the QR code to answer the following questions.
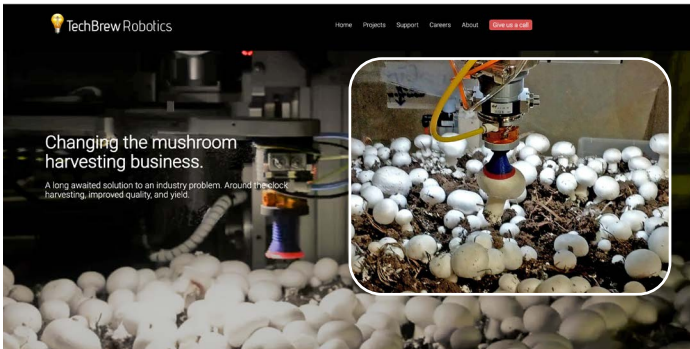
» **Changing the mushroom harvesting business** (TechBrew Robotics)
https://techbrew.com/mushroom-harvesting-robot/

Company Mission:	
Product:	

1. Describe the innovation.

_____

_____

2. What problem is being solved?

_____

_____

_____

3. What is it replacing? _____

4. How does it improve efficiency?

_____

_____

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Primary Industries Education Foundation Australia | primezone www.primezone.edu.au The place for all your food and fibre resources   AMGA Australian Mushroom Growers Assoc.   Australian MUSHROOMS   Hort Innovation Strategic levy investment | MUSHROOM FUND
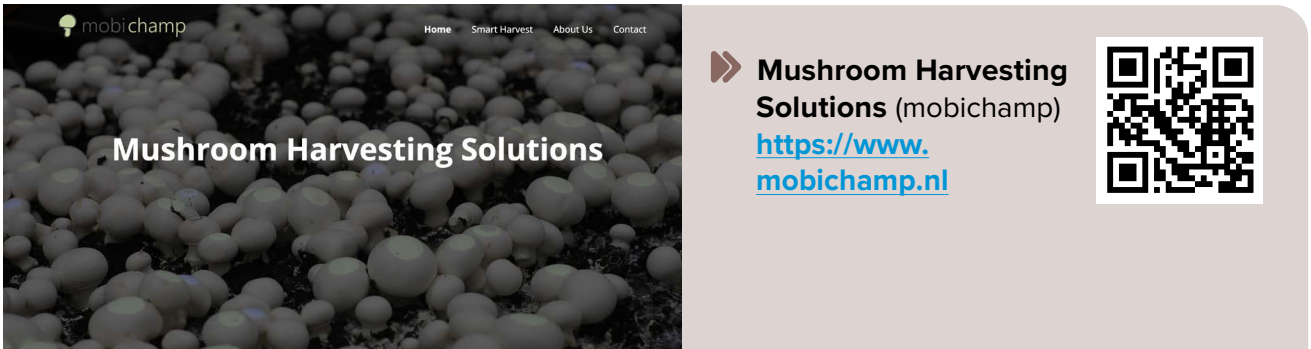
Mobichamp Smart Harvest

Click on the link or scan the QR code to answer the following questions.

Mushroom Harvesting Solutions

Mushroom Harvesting Solutions (mobichamp)
https://www.mobichamp.nl

Company Mission:	
Product:	

1. Describe the innovation.

_____

_____

2. What problem is being solved?

_____

_____

_____

3. What is it replacing? _____

4. How does it improve efficiency?

_____

_____

Vandentop Harvest Machine

Click on the link or scan the QR code to answer the following questions.

Smart Harvest Machine (Vandentop)
https://www.vanden.top/

Company Mission:	
Product:	

1. Describe the innovation.

_____

_____

2. What problem is being solved?

_____

_____

_____

3. What is it replacing? _____

4. How does it improve efficiency?

_____

_____

This resource has been developed by:

Digital Technology Report
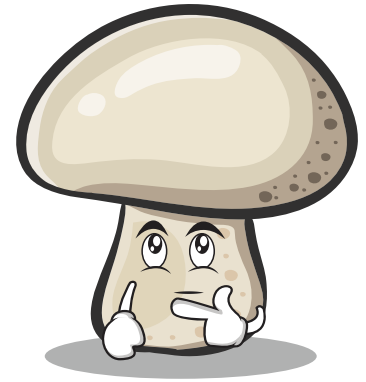
Using the following scaffold as a guide, research a named technology in the mushroom industry.

1. **Name the technology.**

- Clearly named technology.

2. **Describe the use of the technology.**

- Describes how the technology is implemented within the mushroom industry.

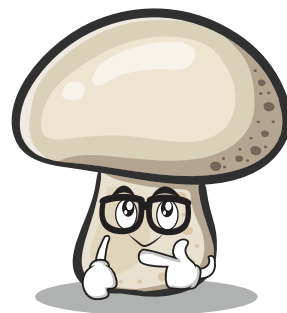**3.** **Explain how this technology is improving efficiencies in the mushroom industry.**

- Efficiencies that are improved are stated.
- Cause and effect are discussed.
- Describes how the technology improves the efficiency.
- Statistics used as evidence.

4. **Clarify the advantages and disadvantages for stakeholders choosing to adopt this technology.**

- Advantages and disadvantages discussed.
- Viewpoints of various stakeholders broached.
- Discusses the impact that the technology would have.
- Balanced argument of the pros and cons.

Digital Technology Prototype

Name		Date	

Group Members	

Main Goal

Design and create a digital technology for use in the mushroom industry.

Planning / Instructions

Think about the design and characteristics of your technology:

- Size: _____
- Function: _____
- Materials: _____
- Problem it solves: _____
- Other characteristics: _____

5 You'll have five minutes to choose the materials...

15 ... and 15 minutes to prototype your design.

Supplies

What supplies do you need? (Tick ✔ and/or write)

		Other supplies:
Paper	Plastic Cups	
Glue	Boxes	_____ _____
Scissors	Cardboard	_____ _____
Plastic Bottles	Markers	_____ _____
Pom Pom Balls		_____ _____

Digital Technology Prototype (cont.)

Description

Describe your digital technology.

_____

_____

_____

_____

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