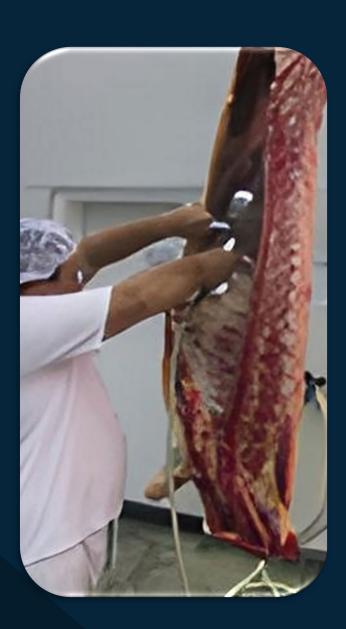# INTELLIGENT ROBOTICS

Pushing the Boundaries of Beef Scribing Technology

Beef Scribing

Why Scribing Matters

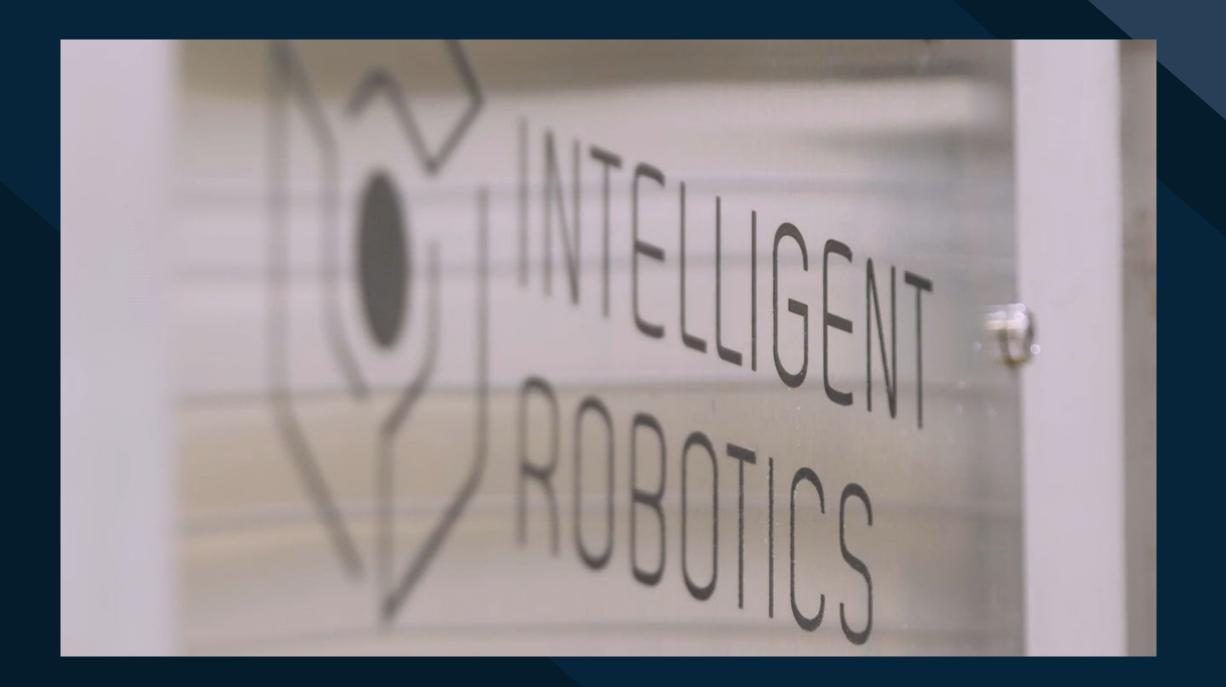| Increased Yield | Labour | Safety |

2022: Drivers were Clear   **2025: Results are Proven**

Why Scribing Matters

- **First system installed at Kilcoy Global Foods**
  - 2 years production, >1M head processed

- **Independent Greenleaf review commissioned**

- **Second system at AMG Cootamundra**

2022: Theory   2025: Proven Reality

Lessons Learned

- **Ease of use matters**
  - User Experience
  - Feedback-driven design

- **Maintenance-friendliness is critical**
  - Design for real-world plant environment
  - Remote support + preventative maintenance + proactive monitoring

Lessons Learned

- **The AI can cope with variation**
  - Accurate scribing across wide carcase variation
  - No need for expensive sensing – robust and scalable

- **Modularity and scalability**
  - Adaptable to throughput and site requirements

The Business Case

- Independent Greenleaf review - accuracy improved across all four scribe lines

- Majority of benefit from yield: **~$5/head**

- Net benefit: **~$5.40/head** (~$2.6M/year at Kilcoy)

TOTAL BENEFIT				
			Ex-Post Review	
Benefit summary			$/hd From	$/hd To
1.1 Accuracy	Cube-strip separation		$1.47	$1.39
	Cube-chuck separation		$1.18	$1.23
	Vertical Scribes		$2.29	$2.58
2. OH&S benefit			$0.00	$0.00
3. Labour benefit			$0.46	$0.46
4. Equipment costs	Maintenance contract		-$0.13	-$0.13
	Electricity costs		-$0.02	-$0.02
	$ Benefit per head		**$5.24**	**$5.50**
Annual Benefit overall plant			$2,528,775	$2,654,657

Consistent Cutting = More Yield Every Time

Broader Value Proposition

- **Yield pays for the system**

- **Labour:**
  - Beyond wages: operational consistency and growth
  - Reduced cost of shortages, turnover, training, inefficiency

- **Safety:**
  - Removes people from high-powered saws
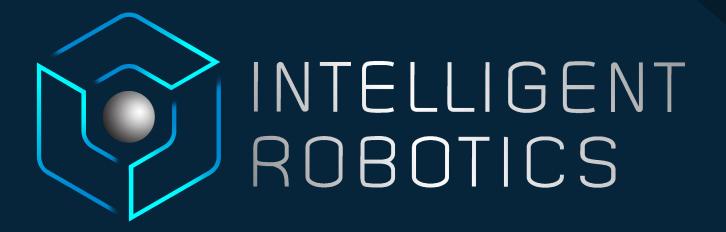 - Poor ergonomics, injury risks

Yield pays the bills. Labour & safety secure the future.

The Bigger Picture

- **2023: AI beef scribing was coming**

  2025: Proven in production

- **Future opportunities:**
  - Expand number of cuts
  - Data for actionable insights
  - Wider automation in red meat processing

Scribing is just the start.