

# FloVision

S O L U T I O N S

YIELD OPTIMIZATION | QUALITY CONTROL | STAFF SKILLS

Rian Mc Donnell, CEO

1

device installed  
in 2022

18

devices installed  
in 2023/24

75

devices projected  
in 2025



Rian Mc Donnell  
CEO



Elise Weimholt  
CTO

#### FLOVISION PRO



Peyton  
Nash



Phillip  
Healy

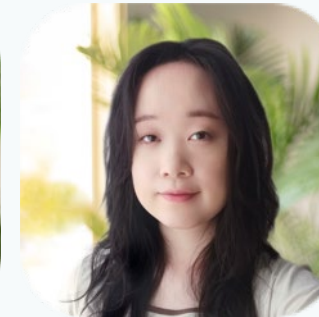


Rodney  
Joyce

#### FLOVISION NANO



Aaron  
Brown



Ying-ke  
Chin-Lee

#### HARDWARE



Nick  
Lamb



Kieran  
Allan



Jason  
Lichtenstein



Zack  
Dale

#### MACHINE LEARNING



Terrance  
Whitehurst



Zach  
Cleghern



Landy  
Osias

#### OPERATIONS



Victoria  
Weimholt



Andrew  
Boylan



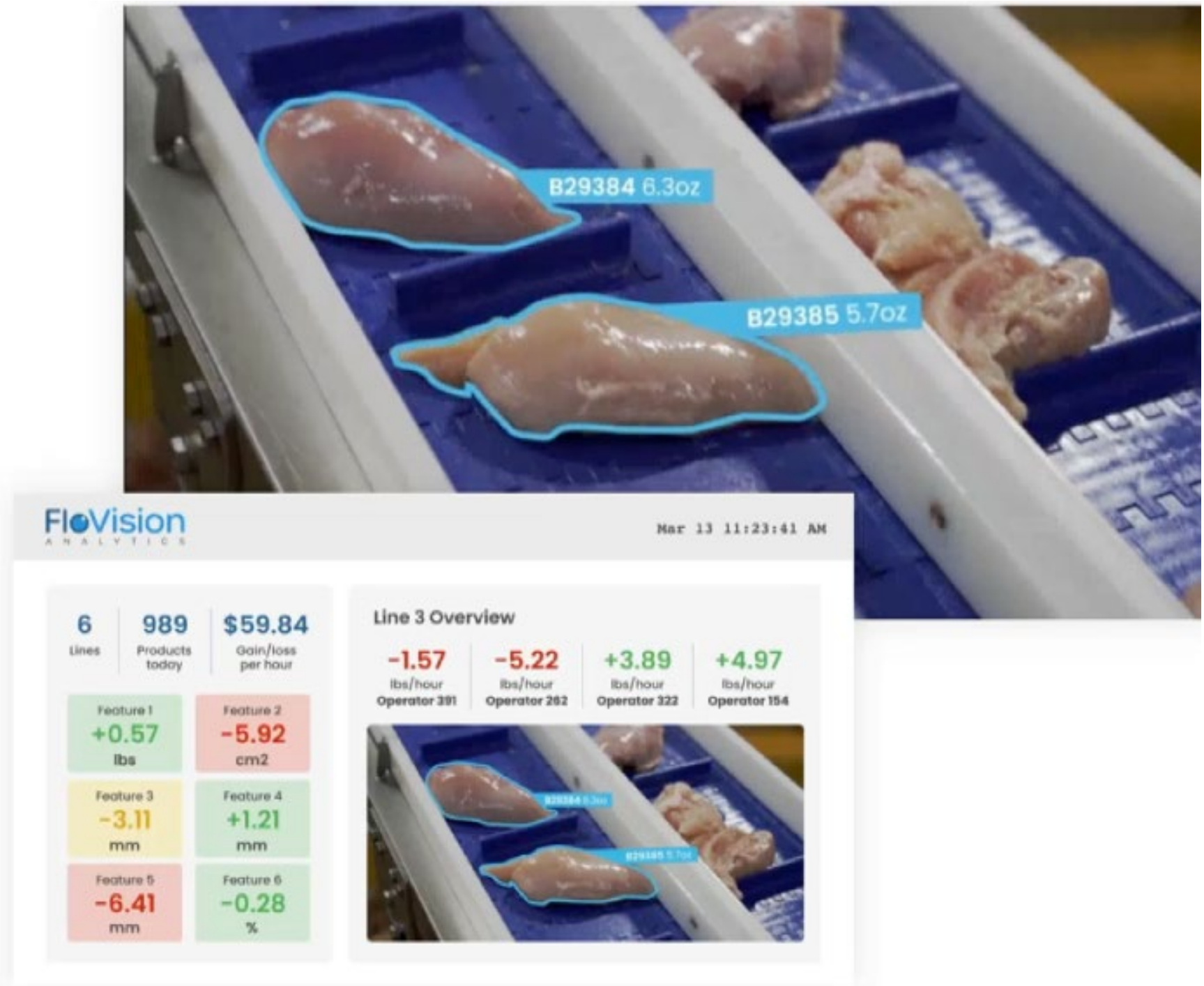
Shannon  
Brown



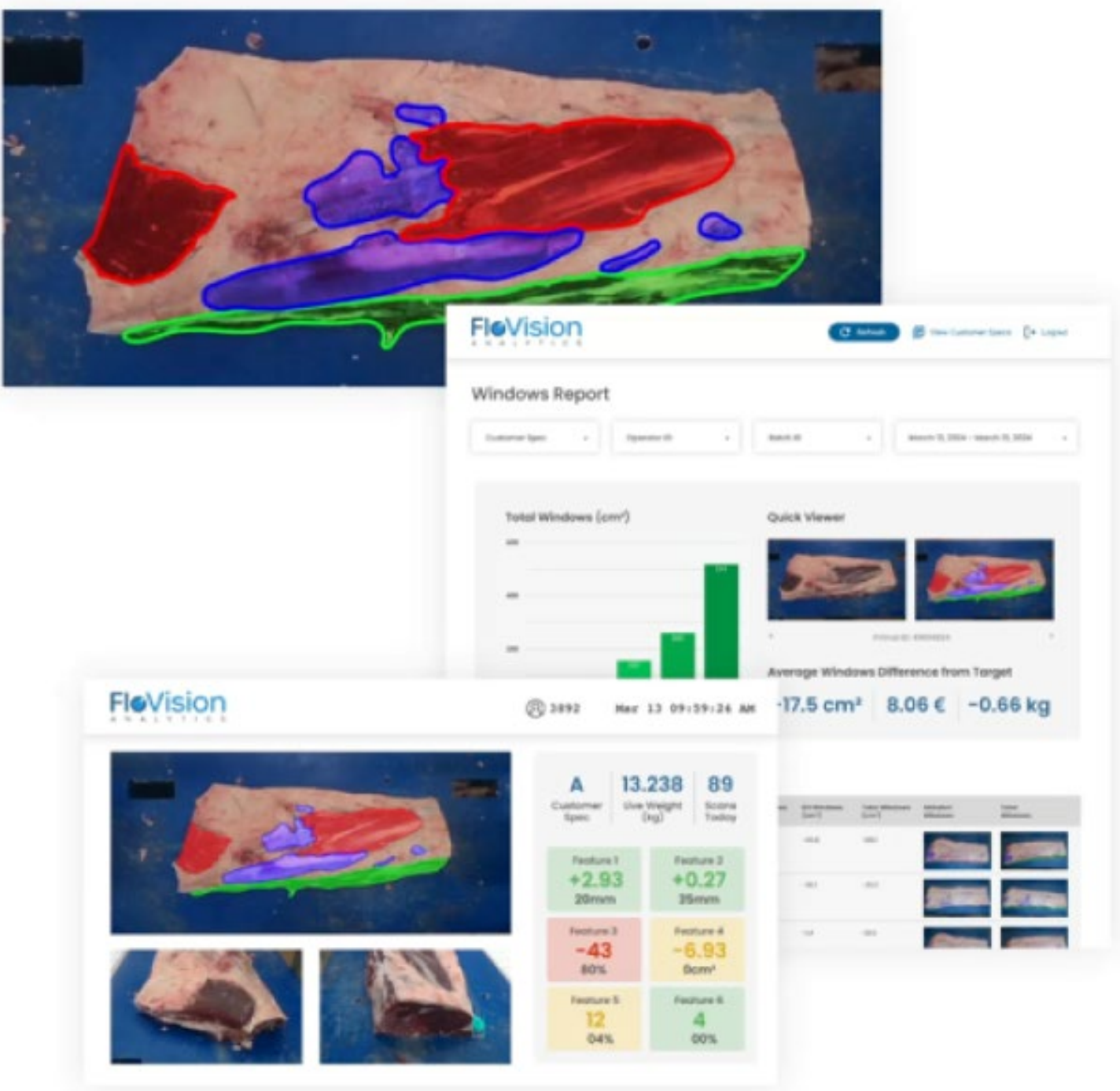
Meto  
Solarski



# Modular solutions to measure, optimize, and control



FLOVISION NANO



FLOVISION PRO



**Adaptive Laser Guide** deploys  
to help butcher trim to exact  
customer specification  
(tail, backstrap, etc.)



# FloVision ID Fingerprinting

# FloVision ID Fingerprinting

! ? What is “Fingerprinting”?

! ? What has FloVision done so far?

! ? Why?

▶ Next Steps

# What is “Fingerprinting”?

“It’s like facial recognition for meat”

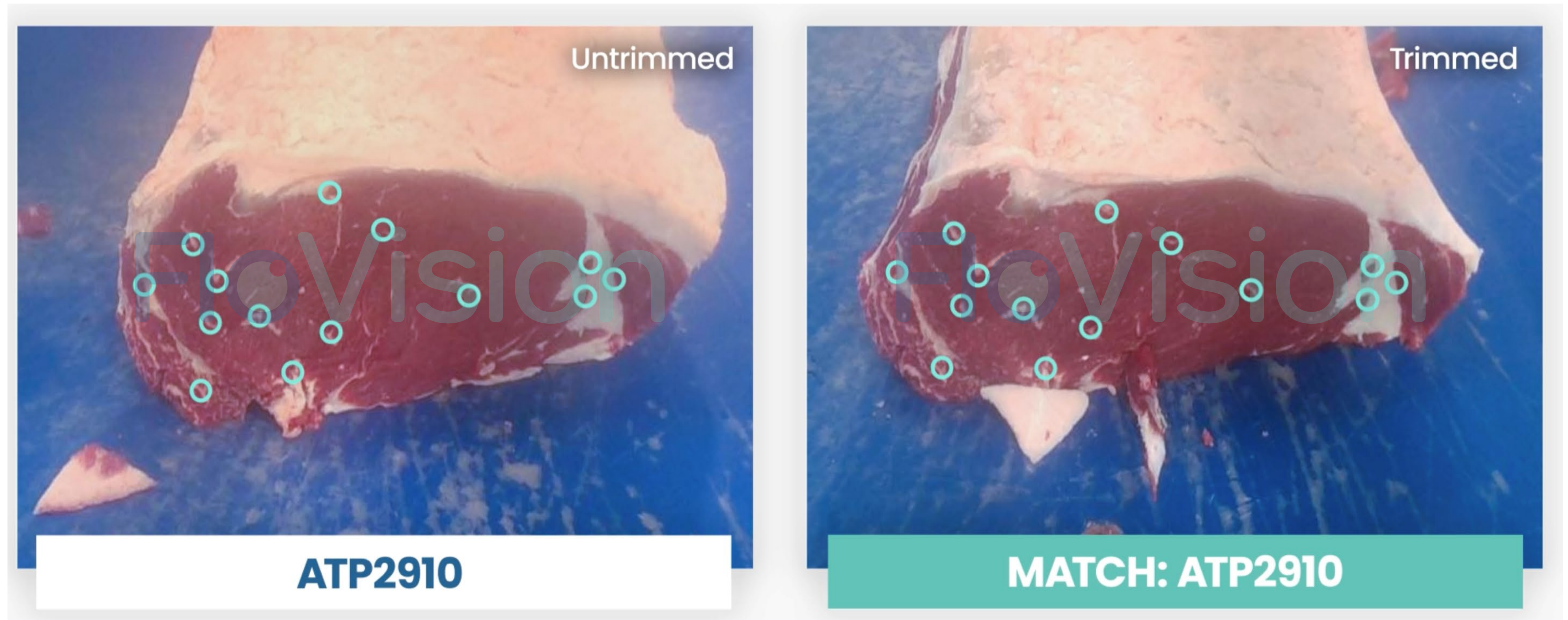


# What is “Fingerprinting”?





# What is “Fingerprinting”?





# What has FloVision done so far?



DC1 Data Collection



DC2 Data Collection



# What has FloVision done so far?



Image 1: Example of strong Positive Pair matching



# What has FloVision done so far?



Image 4: Fingerprinting model correctly not matching different primals (no green lines showing matching keypoints)



# What has FloVision done so far?



Image 2: Fingerprinting model performing well on a primal that has gone through substantial trimming between DC1 and DC2

# What has FloVision done so far?

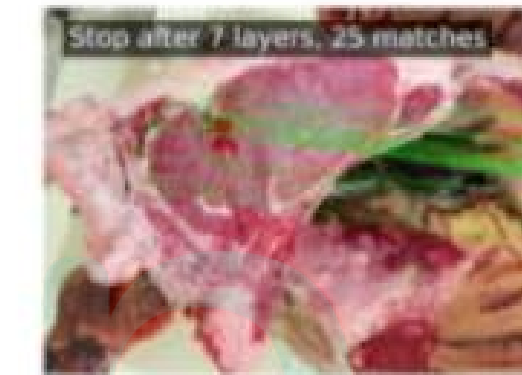
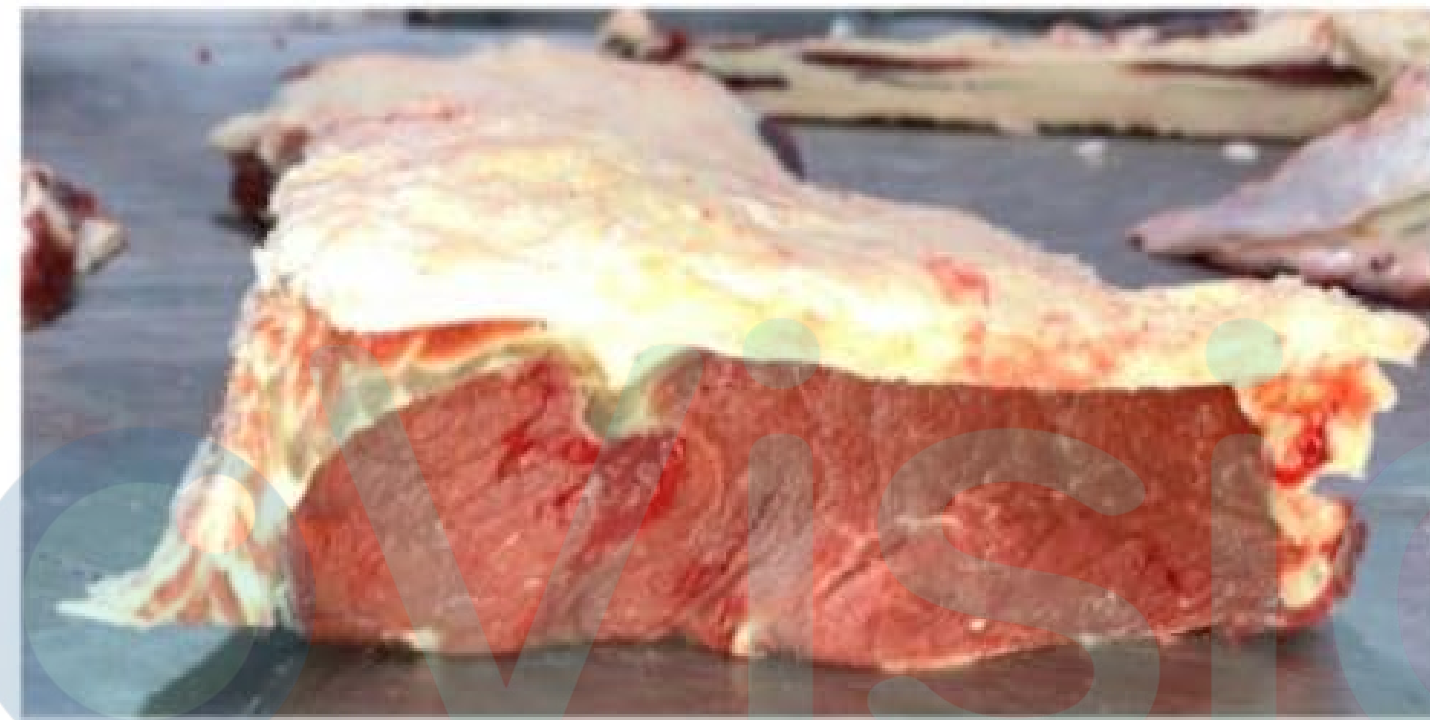


Image 3: Fingerprinting model performing well on a primal that has gone through significant transformation including significant trimming of the main eye muscle



# What has FloVision done so far?

Batch	DC1 Images	DC2 Images	Total Number of Pairs	Positive Pairs	False Positives	Missed Pairs
Batch A	88	99	8,712	?		
Batch B	74	128	9,472			
Batch C	65	114	7,410			
Batch D	157	179	28,103			
Batch E	103	123	12,669			

# What has FloVision done so far?

	DC1 Images	DC2 Images	Total Number of Pairs	Positive Pairs	False Positives	Missed Pairs
Batch						
Batch A	88	99	8,712	37	0	~0
Batch B	74	128	9,472	30	0	~0
Batch C	65	114	7,410	41	0	~0
Batch D	157	179	28,103	79	0	~0
Batch E	103	123	12,669	15	0	~0

76,366 pairs analysed – no errors found



# What has FloVision done so far?

	DC1 Images	DC2 Images	Total Number of Pairs	Positive Pairs	False Positives	Missed Pairs
Batch						
Batch A	88	99	8,712	37	0	~0
Batch B	74	128	9,472	30	0	~0
Batch C	65	114	7,410	41	0	~0
Batch D	157	179	28,103	79	0	~0
Batch E	103	123	12,669	15	0	~0

~99.999% accuracy on striploins






Why?

Go from “Per Batch” to “Per head”



# Why?



Go from “Per Batch” to “Per Head” Insights

-  Yield Optimization
-  Quality Assurance
-  Recall Efficiency
-  Genetics Feedback
-  R&D Platform
-  Consumer Sentiment

# Why?

Go from “Per Batch” to “Per Head” Insights

-  **Yield Optimization**
-  Quality Assurance
-  Recall Efficiency
-  Genetics Feedback
-  R&D Platform
-  Consumer Sentiment

-  Dynamic Assignment per piece
-  Primal Mass Balance per head



# Why?

Go from “Per Batch” to “Per Head” Insights

- ⚖️ Yield Optimization
- 😬 **Quality Assurance**
- 🚫 Recall Efficiency
- 🧬 Genetics Feedback
- 🧪 R&D Platform
- 😊 Consumer Sentiment

- 🌐 Full Farm to Fork Traceability
- 👁️ Dynamic batching to best match specs
- 🧐 More precise tracing of QA issues

# Why?

Go from “Per Batch” to “Per Head” Insights



Yield Optimization



Quality Assurance



**Recall Efficiency**



More targeted recalls (partial batches)



Genetics Feedback



R&D Platform



Consumer Sentiment



# Why?

Go from “Per Batch” to “Per Head” Insights

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- 🧪 R&D Platform
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- 🔵 Yield → Genetics feedback loop
- 🌟 Quality → Genetics feedback loop

# Why?

Go from “Per Batch” to “Per Head” Insights

- ⚖️ Yield Optimization
- 🙄 Quality Assurance
- 🚫 Recall Efficiency
- 🧬 Genetics Feedback
- 🧪 R&D Platform**
- 😊 Consumer Sentiment

- 🧑‍🔬 Enables faster iteration on small batch tests
- 🔓 Unlocks more granular data to analyse
- 🔗 Integration with FV Nano, Pro, Analytics and more



# Why?

Go from “Per Batch” to “Per Head” Insights

- ⚖️ Yield Optimization
- 😬 Quality Assurance
- 🚫 Recall Efficiency
- 🧬 Genetics Feedback
- 🧪 R&D Platform
- 😊 **Consumer Sentiment**
- 📣 New Marketing Opportunities
- 😊 Improving Trust

# Next Steps

- Phase 1 (2024) Report Available online
  - Email: [rian@flovisionsolutions.com](mailto:rian@flovisionsolutions.com)
- Phase 2 (2025) in progress
  - Production implementation
  - Striploins + Ribeyes
  - Subprimal Fingerprinting
  - Box Label Verification





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[flovisionsolutions.com](https://flovisionsolutions.com)

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