

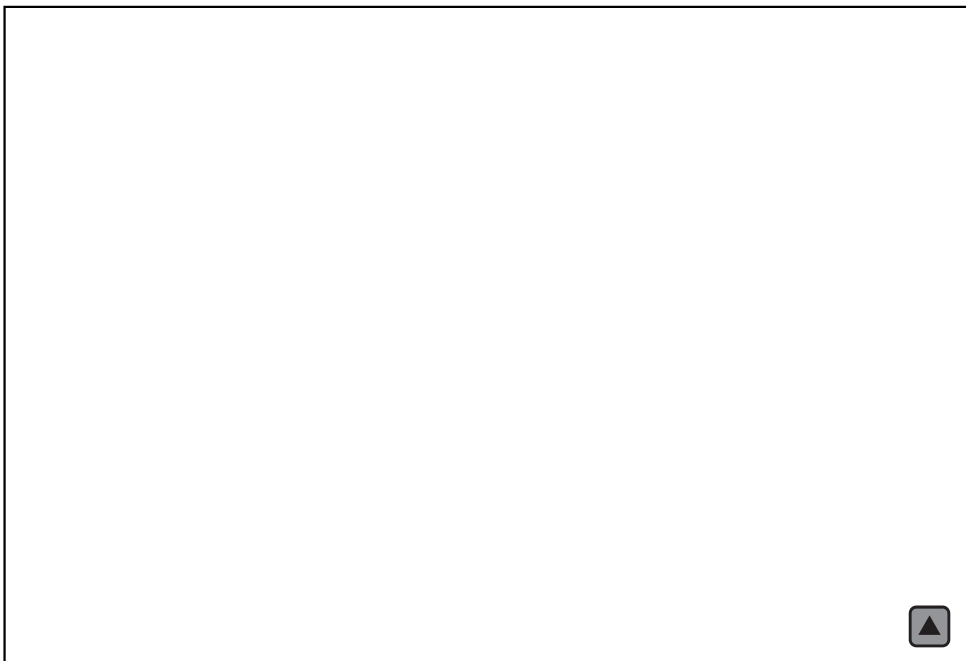
# PETERSIME

## Egg Breakout



Rui Barros  
PETERSIME

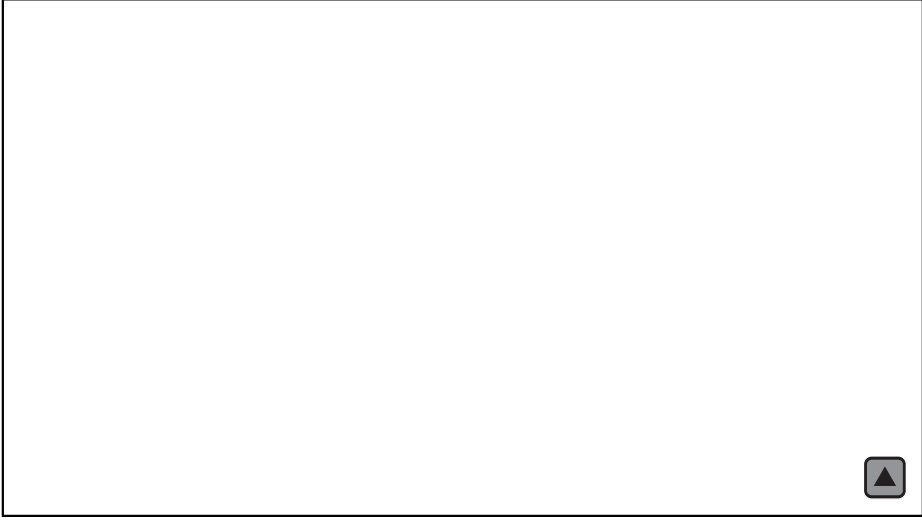
March 2026



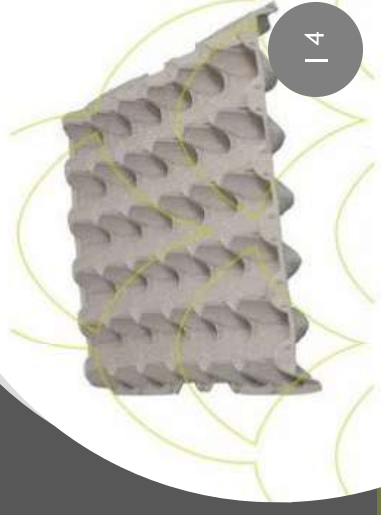
# Summary

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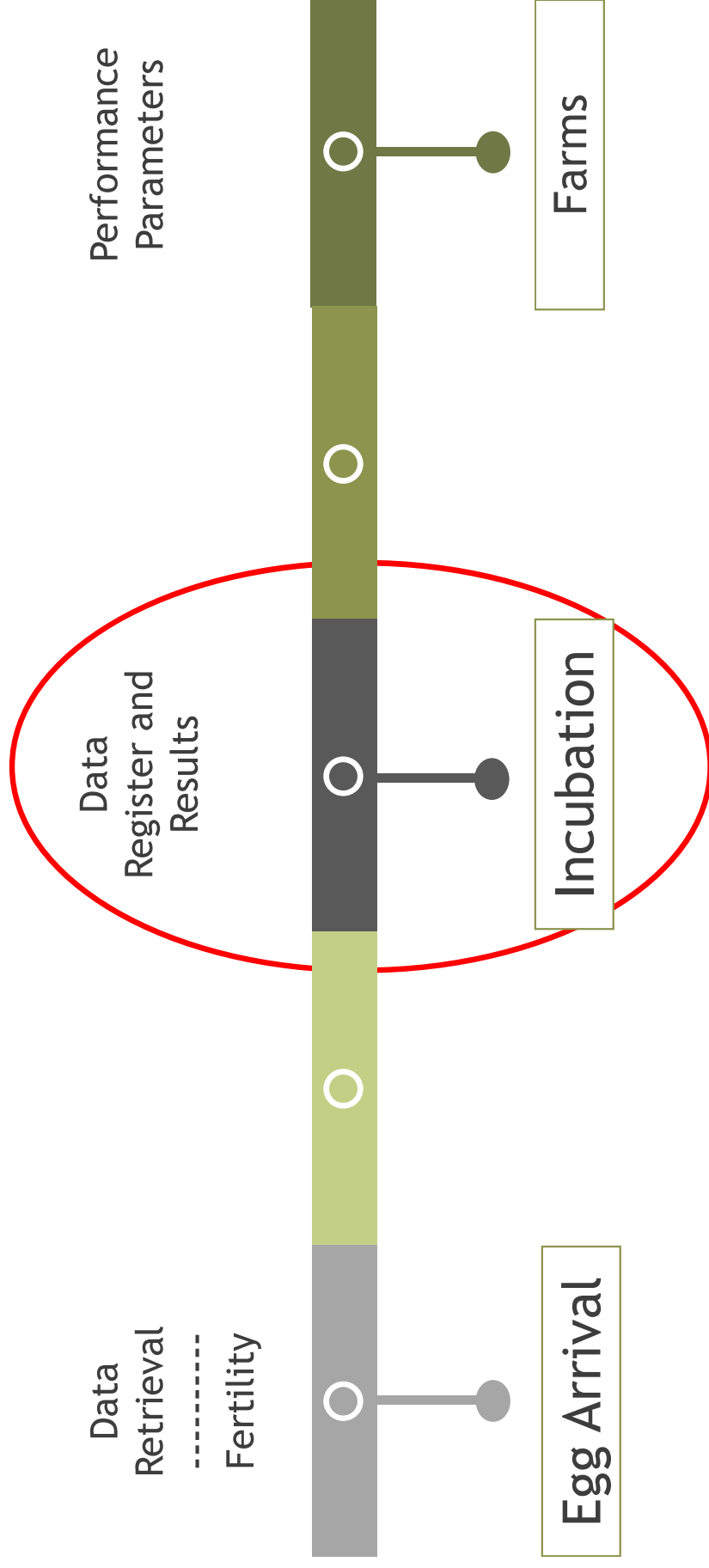
- ▶ Equipment
- ▶ Interventions steps
- ▶ Embryonic mortality
- ▶ Data retrieval and analysis



# Equipment




# Steps of intervention - Cronology



# Egg Arrival

- Breeder Flock
- Day of lay
- Transport truck
- Arrival Day
- Temperature
- Evaluation (% dirty eggs)
- House/batch
- ...



**PETERSIME**  
Professional & High Quality


## POST HATCH DATA ENTRY

Date	Hatchery	Profile	Breed

View Chart

# Incubation

- Day of segg set
- Hatchery
- Incubation Profile
- Genetics
- Setter
- Hatcher
- Number of eggs
- Day of hatch
- Hatchibility
- Culls
- Routine Egg breakout



**PETERSIME**  
Poultry Farming & Equipment Suppliers

## POST HATCH DATA ENTRY

Date	Hatchery	Profile	Breed
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

View Chart



Data: better  
have more  
than needed



## POST HATCH DATA ENTRY


**PETERSIM**  
 POST HATCH DATA ENTRY

Date	Hatchery	Profile	Breed	Age	Machine Type	Source / Farm	Sample Size	Tray Positio	MAL	E.B.	C.B	INT.
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Bando	Subilote	Incubados	Branços	Mort Inicial	Mort inter	Mort tardia	ovos Parti	ovos picado	total não	Perdas totais	Perda s sem							
P4	Inc1/Ec1.1	480	43	9	1,9%	4	0,8%	18	3,8%	19	4,0%	5	1,0%	98	20,4%	7,5%		
P4	Inc1/Ec1.1	480	49	10	2,1%	12	2,5%	1	0,2%	15	3,1%	16	3,3%	4	0,8%	97	20,2%	6,7%
P4	Inc3/Ec1.2	480	50	10	2,1%	5	1,0%	40	8,3%	16	3,3%	10	2,1%	<b>131</b>	27,3%	<b>13,5%</b>		
P4	Inc3/Ec1.2	480	48	10	2,1%	7	1,5%	2	0,4%	23	4,8%	7	1,5%	114	23,8%	9,0%		
P4	Inc3/Ec1.2	480	55	11	2,3%	14	2,9%	1	0,2%	11	2,3%	5	1,0%	107	22,3%	8,5%		
P4	Inc3/Ec1.7	480	30	6	1,3%	19	4,0%	7	1,5%	17	3,5%	24	5,0%	8	1,7%	104	21,7%	10,4%

Quadro 2 - Recolha de dados

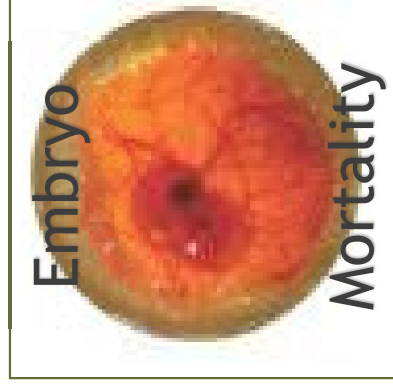
Bando	Sublote	Incubados	Branços	Mort. Inicial	Mort. interm.	Mort. tardia	ovos Partidos	ovos picados	total não nascidos	Perdas totais	Perda s em mort
P4	Inc1/ec11	960	92	9,6%	5	0,5%	35	5,6%	195	20,3%	7,1%
P4	Inc3/ec12	960	98	10,2%	7	0,7%	39	4,1%	17	1,8%	11,3%
P4	Inc3/ec17	960	85	8,9%	12	1,3%	35	3,6%	13	1,4%	9,5%

Quilotos 3 - dados por quilotos

Quadro 3 - dados por sublotes



# Data: Embryodiagnosis

[illegible]

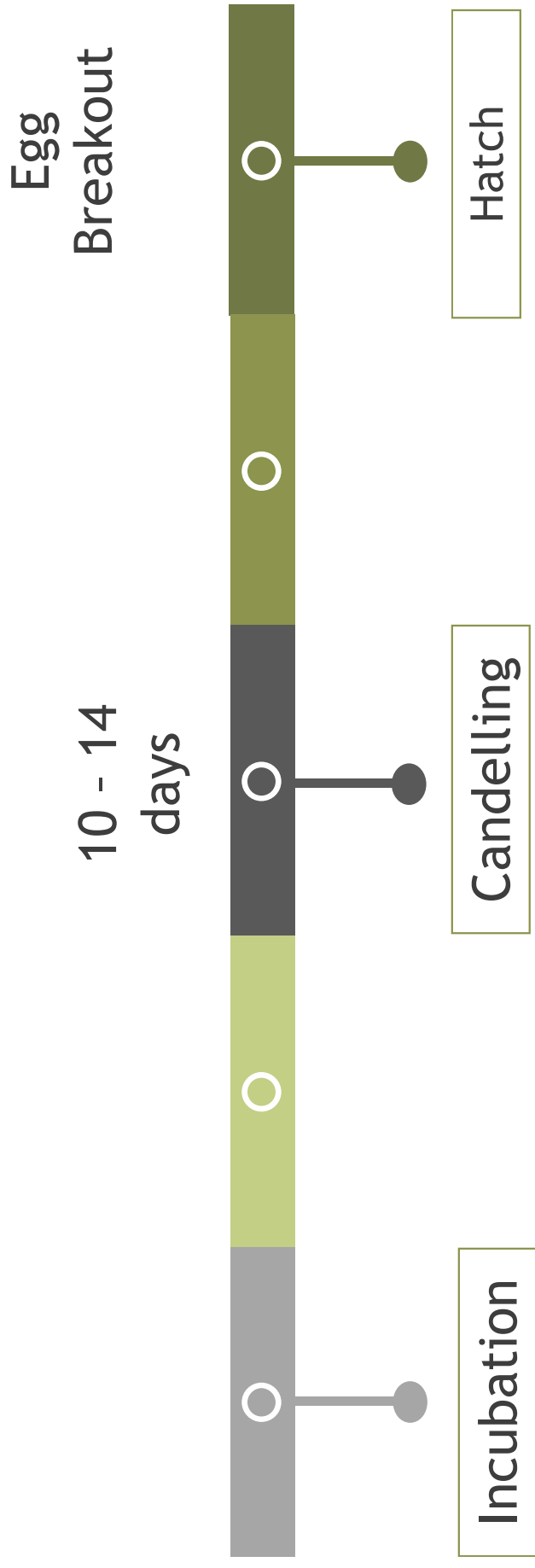
# Data: Embryodiagnosys

[illegible]

# Malpositions

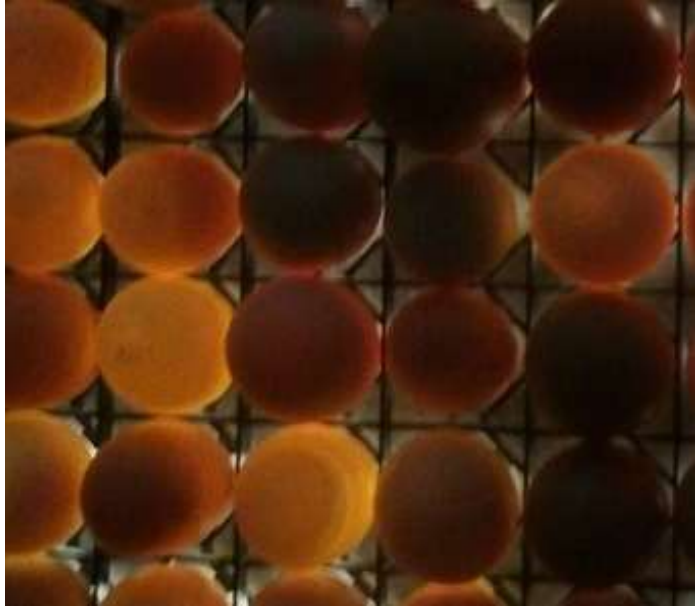
# Malformations

# Embryodiagnosis - CRONOLOGY



# Candling

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# Data: Embryodiagnosis



▶ 24h/48h

▶ Blood Ring

▶ Black eye

▶ No feathers

▶ Feathers

▶ Pre turned

▶ turned

▶ Aire cell

▶ Pipped dead

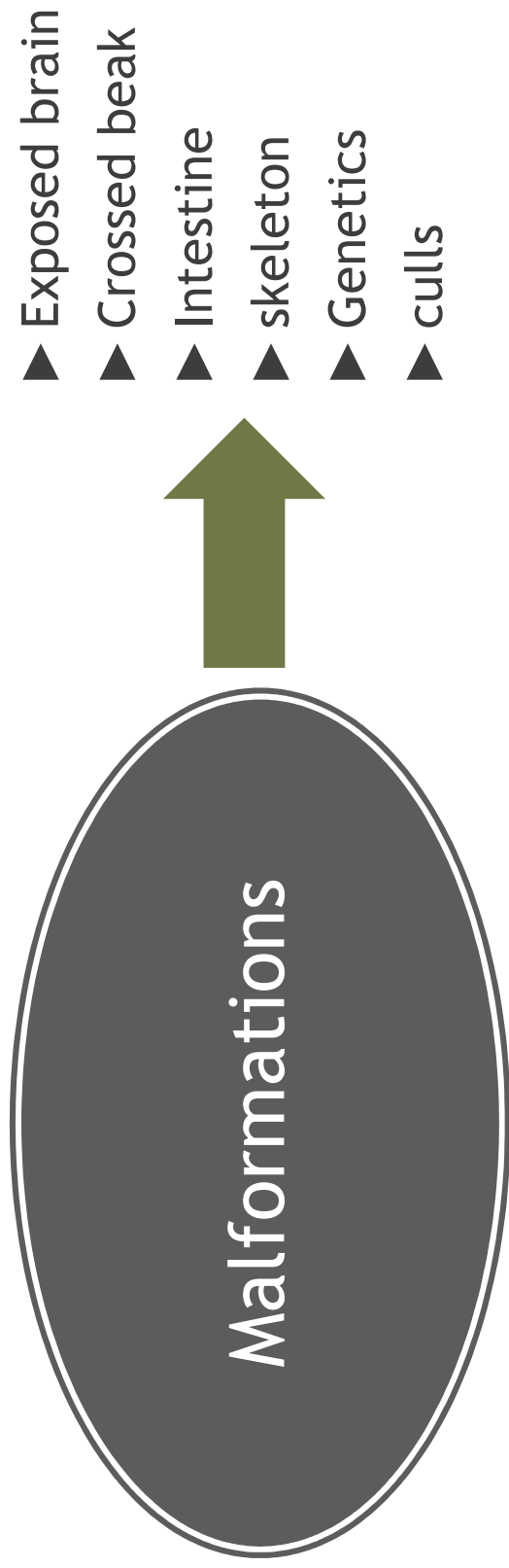
▶ Pipped alive

0-7  
days

8-14  
days

15-21  
days

## Data: Embryodiagnosis



# Embryodiagnosys - Malpositions

Beak away from aire chamber

Head to left side

Head over the wing

Embryodiagnosys  
-  
Malpositions

Head between legs/Feet over head

Upside down

# Embriodyagnosys - Infertile





# Embriodyagnosys - early mortality

24h - 48h



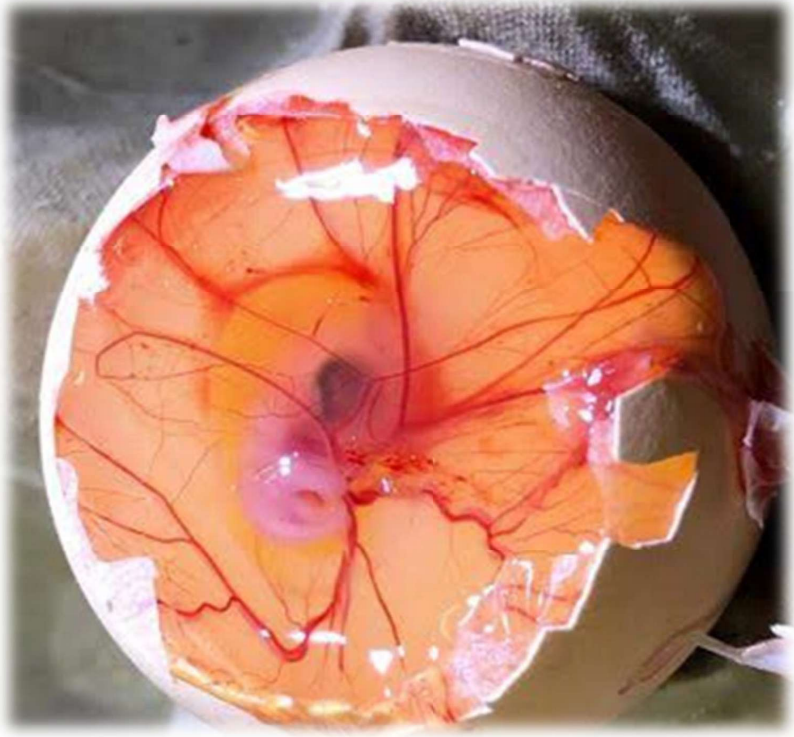
# Embriodyagnosys - early mortality

Blood ring



# Embriodiyagnosys - early mortality

Black eye

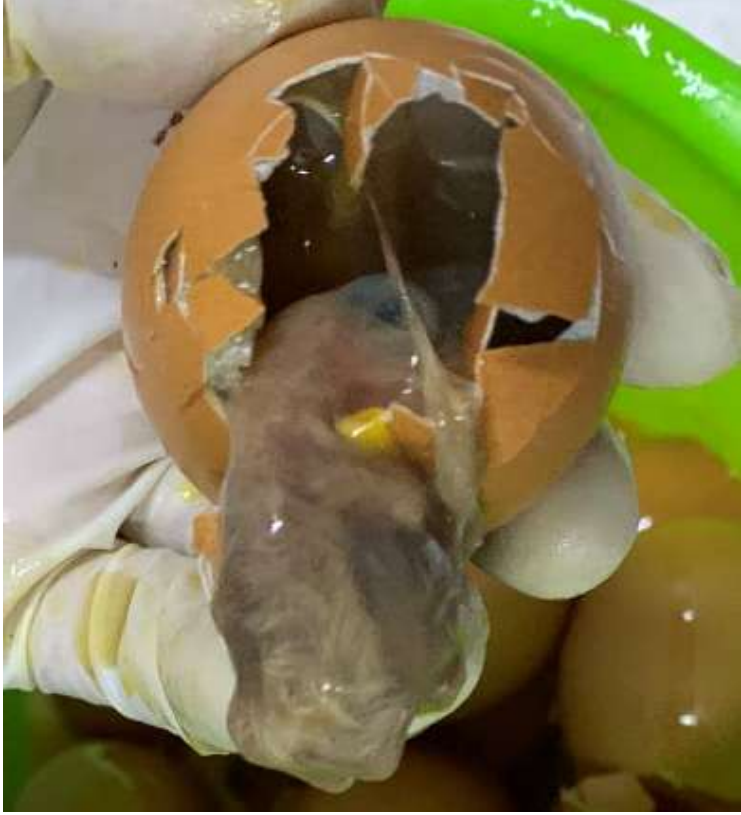


# Embryodiagnosys - Middle Mortality

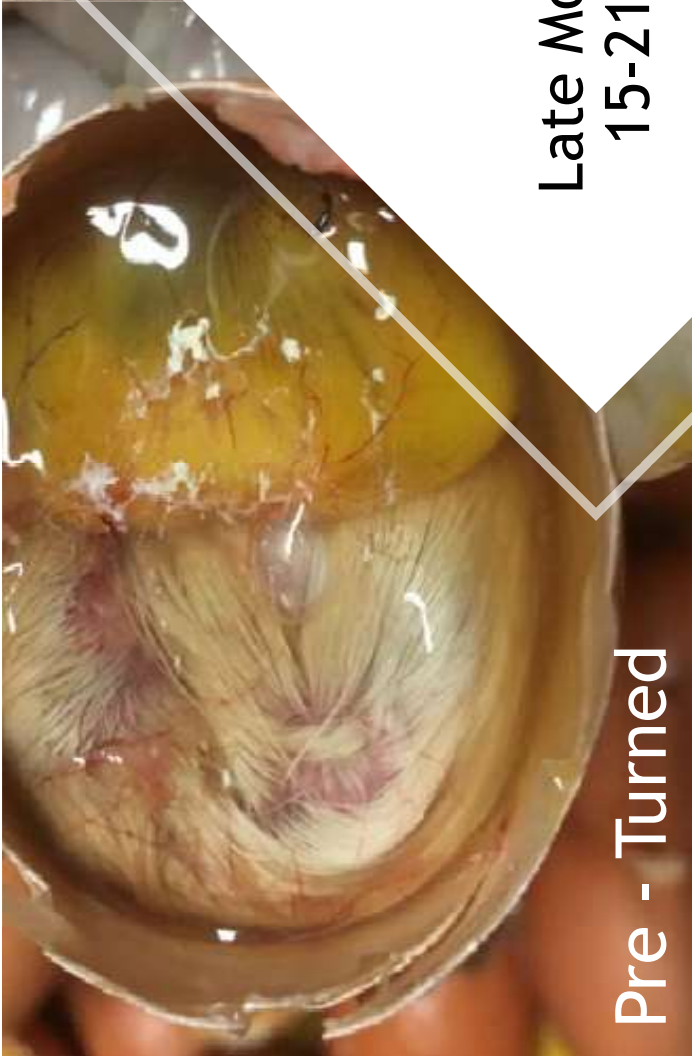
No feathers



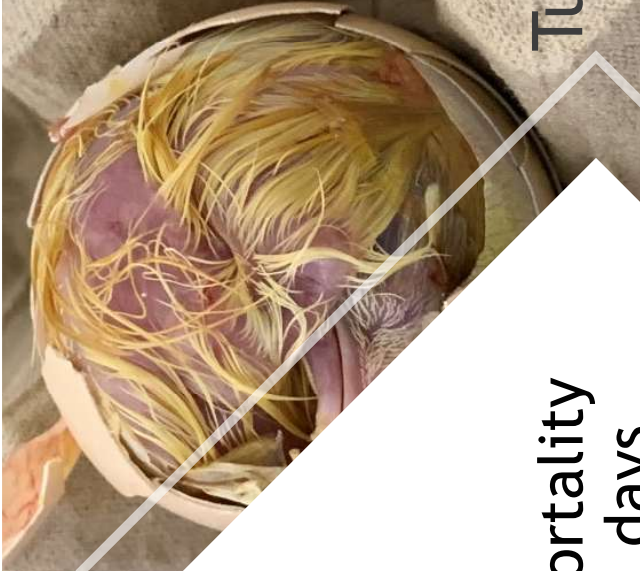
# Embryodiagnosys - Middle Mortality Feathers







Pre - Turned



Turned



Air Chamber

Late Mortality  
15-21 days

Pipped Dead / Alive



# Embryodiagnosys - Late Mortality

Pre-Turned



# Embryodiagnosys - Late Mortality




Turned / Aire Chamber



# Embryodiagnosys - Late Mortality

Pipped Dead / Alive

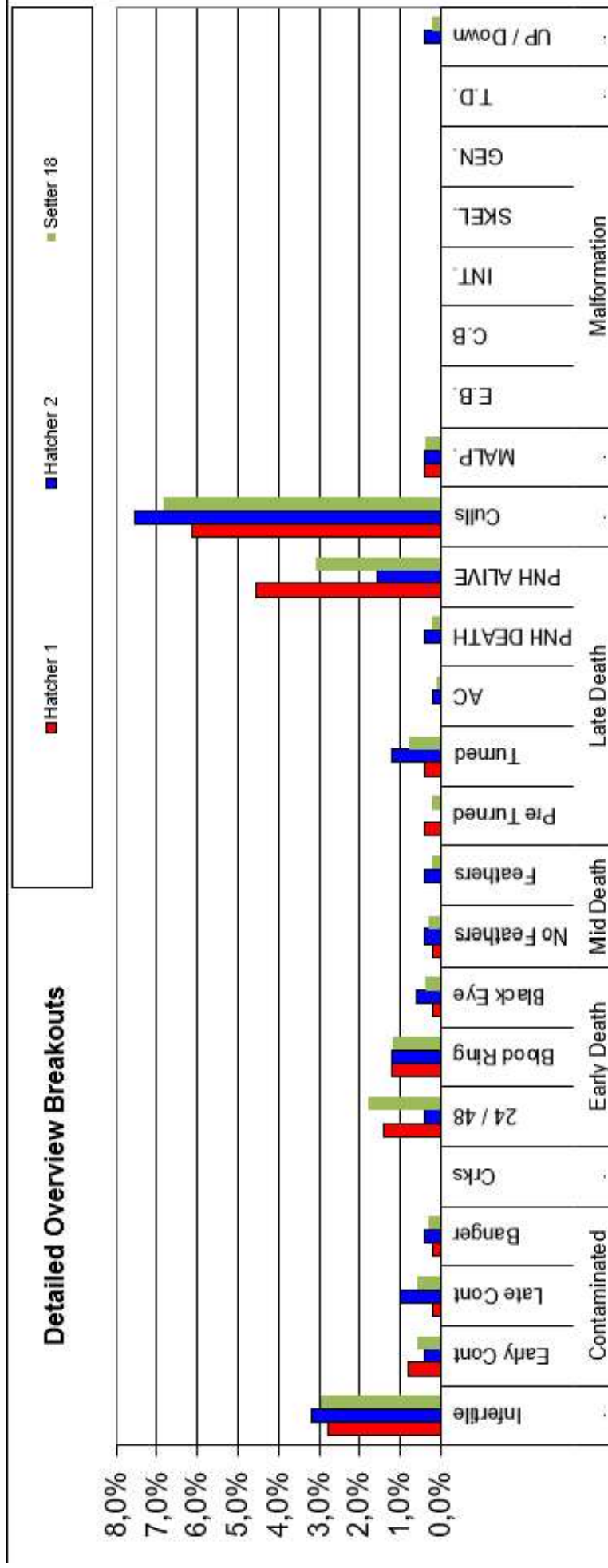




# Embryodiagnosys - Contamination

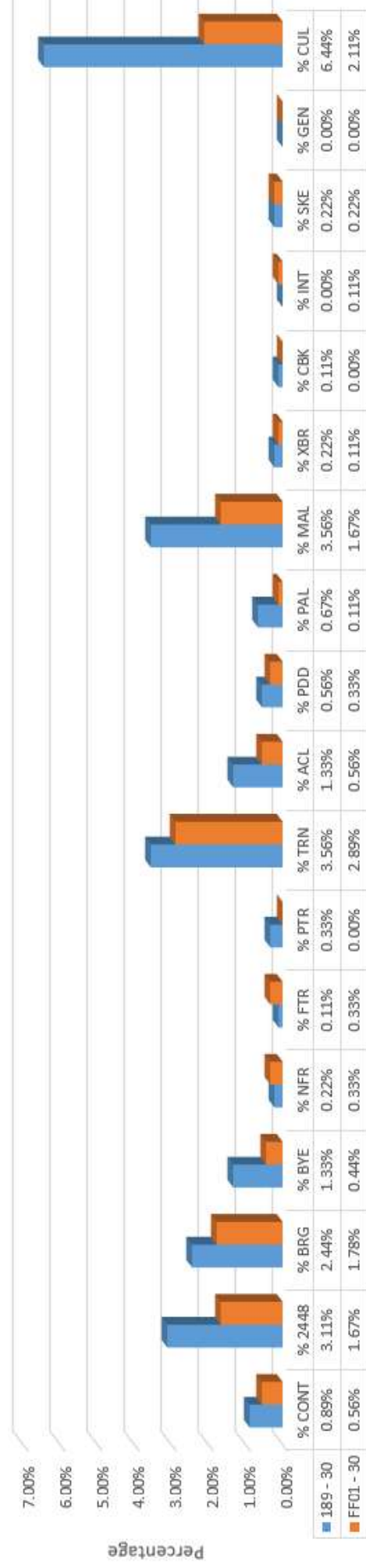
# Data and Analyzys

# Data Analysis

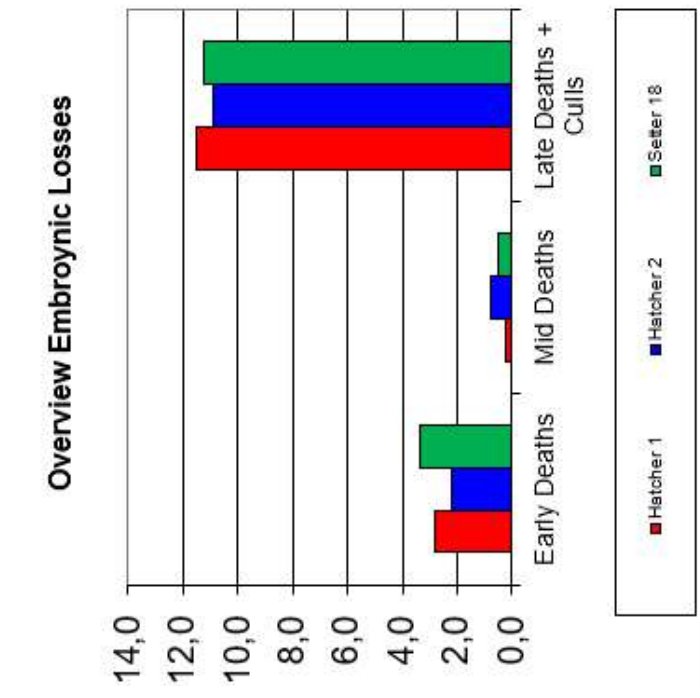
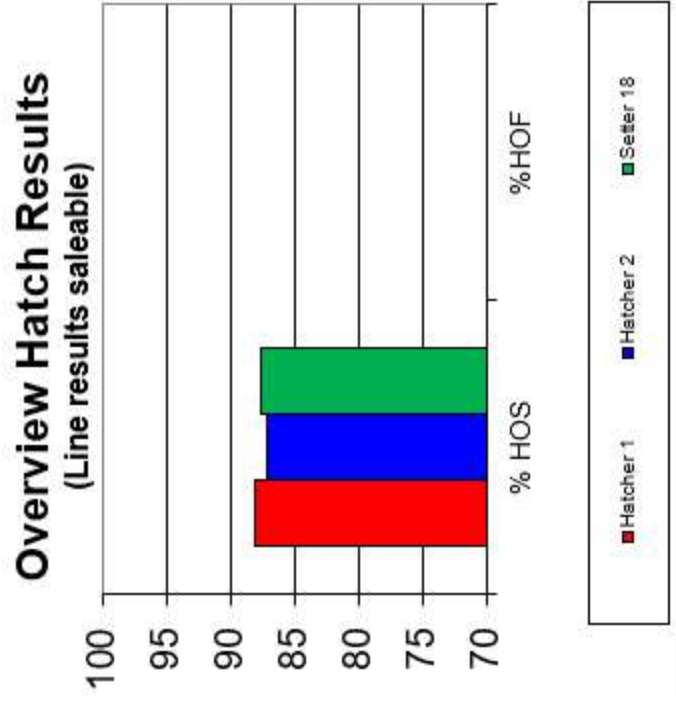


# Data Analysis

Breakout Details

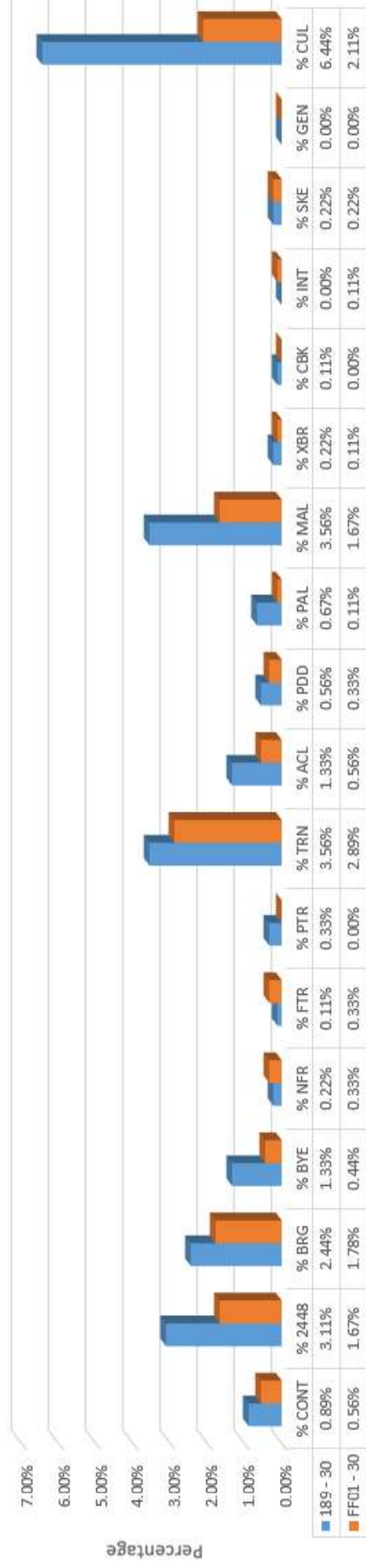


# Data Analysis



# Chick Quality and Embriodiagnosis

Breakout Details





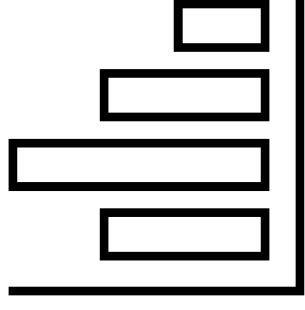
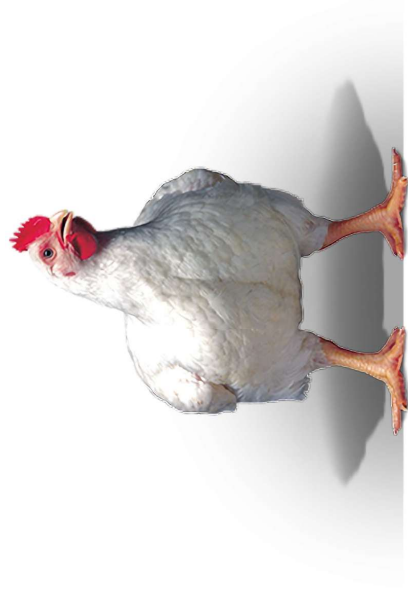
# Chick Quality and Embryodiagnosys

Breakout Details





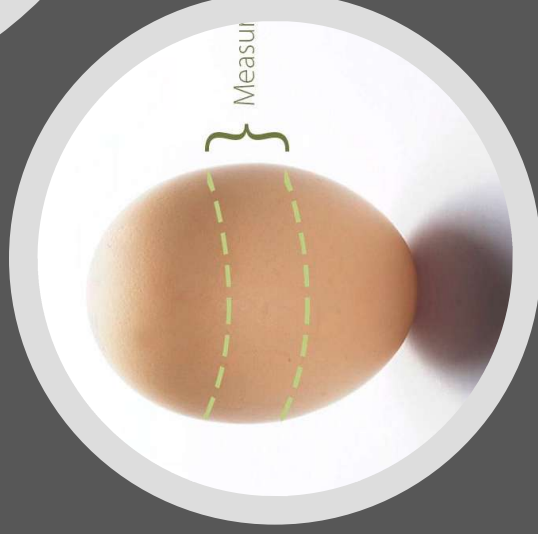
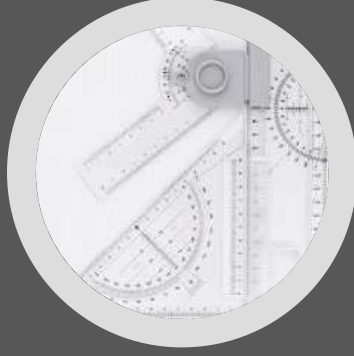
# Data Analysis

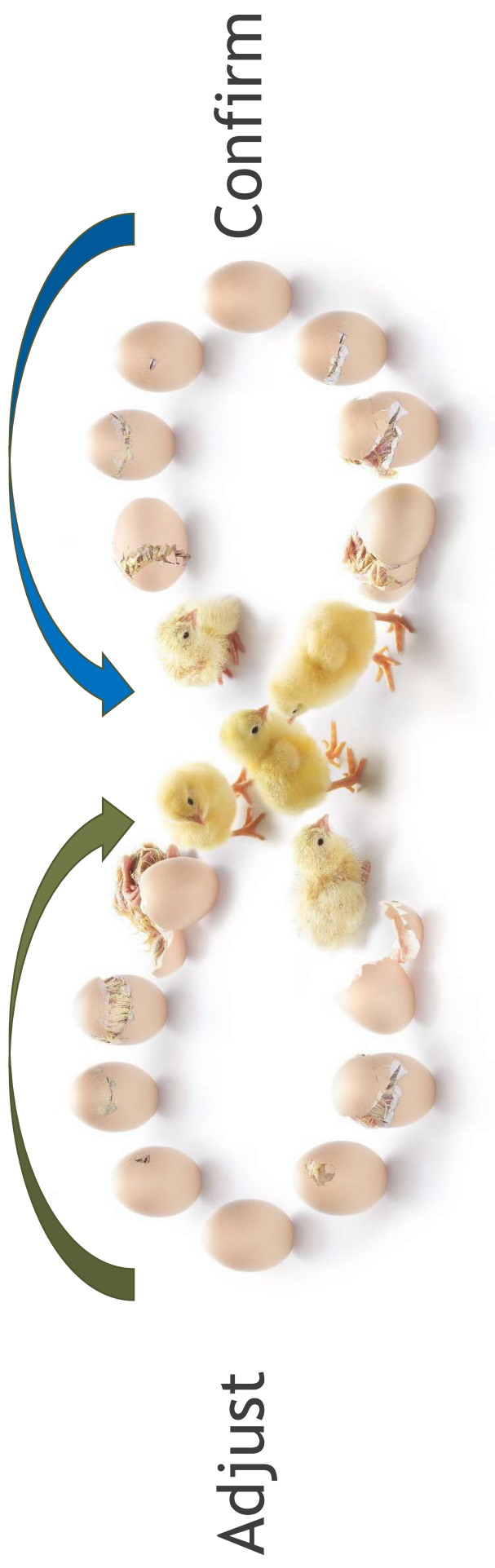


134 Measure

Adjust

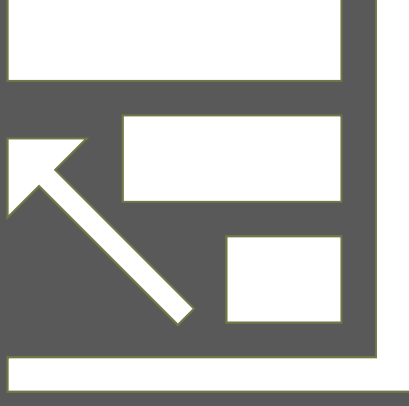
Measure





One change at the time

# Continuous Improvement



Thank you!