



Program Vaksinasi Unggas & Tata Laksananya

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Poultry Preneur Academy Seri 3
Senin, 12 April 2021*

AGENDA

1

PERKEMBANGAN AYAM MODERN

2

TANTANGAN PENYAKIT DI INDONESIA

3

PROGRAM VAKSINASI BROILER

4

PROGRAM VAKSINASI LAYER

5

KESIMPULAN

AGENDA

1

PERKEMBANGAN AYAM MODERN

PERKEMBANGAN AYAM MODERN



- Peternakan ayam telah berubah sangat banyak dalam beberapa decade
- Dari beternak di belakang rumah menjadi industri peternakan

PERKEMBANGAN AYAM MODERN

Kandang Konvensional



22 to 30 kg/m²

Kandang Closed House



34 to 43 kg/m²

Broilers dalam cages

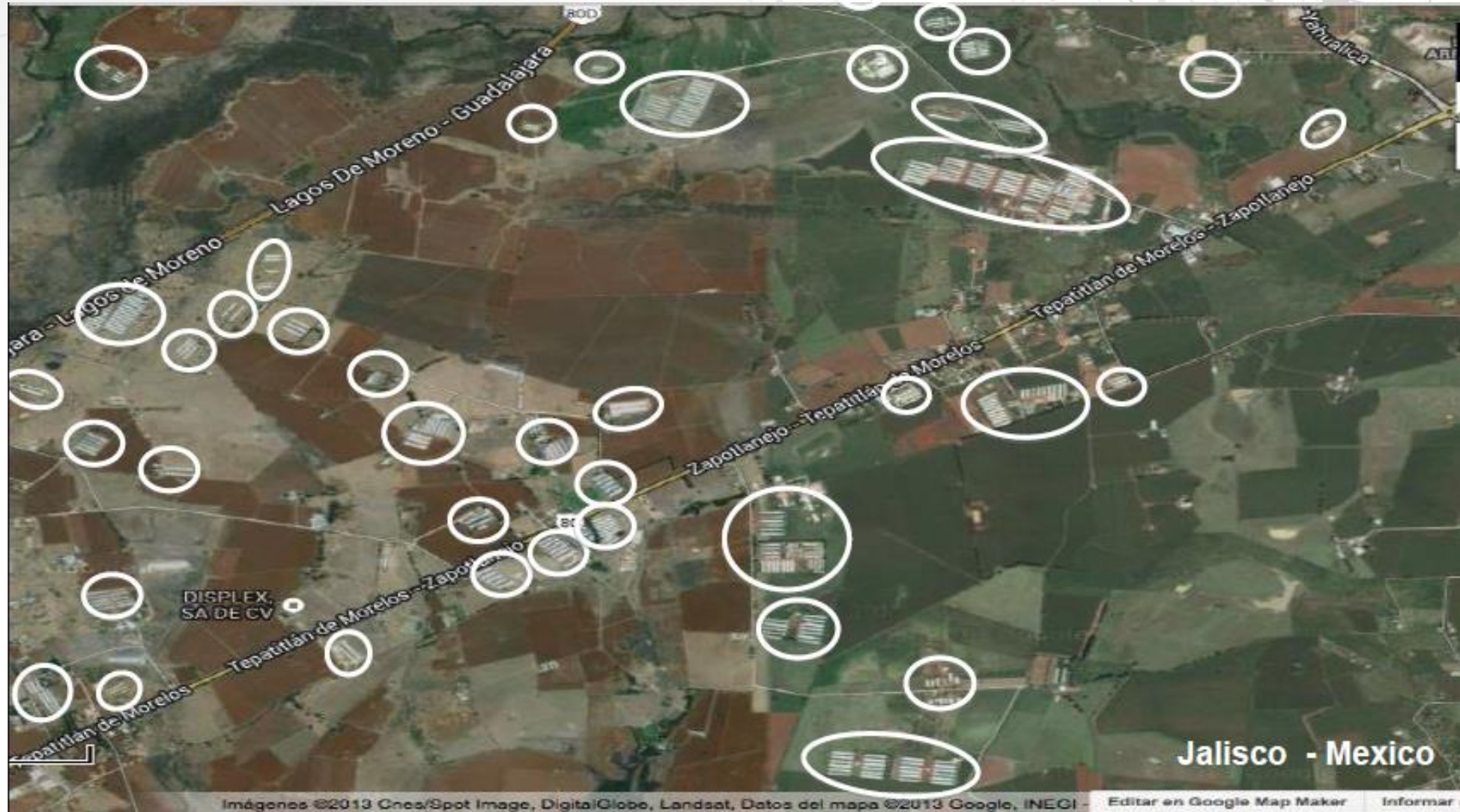


Up to 50 kg/m² in each level

Four-tier cage → 200 kg/m²

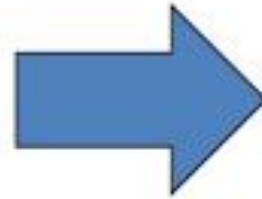
- Lebih banyak ayam /m²

PERKEMBANGAN AYAM MODERN



- Area dengan populasi ternak ayam yang sangat padat

PERKEMBANGAN AYAM MODERN



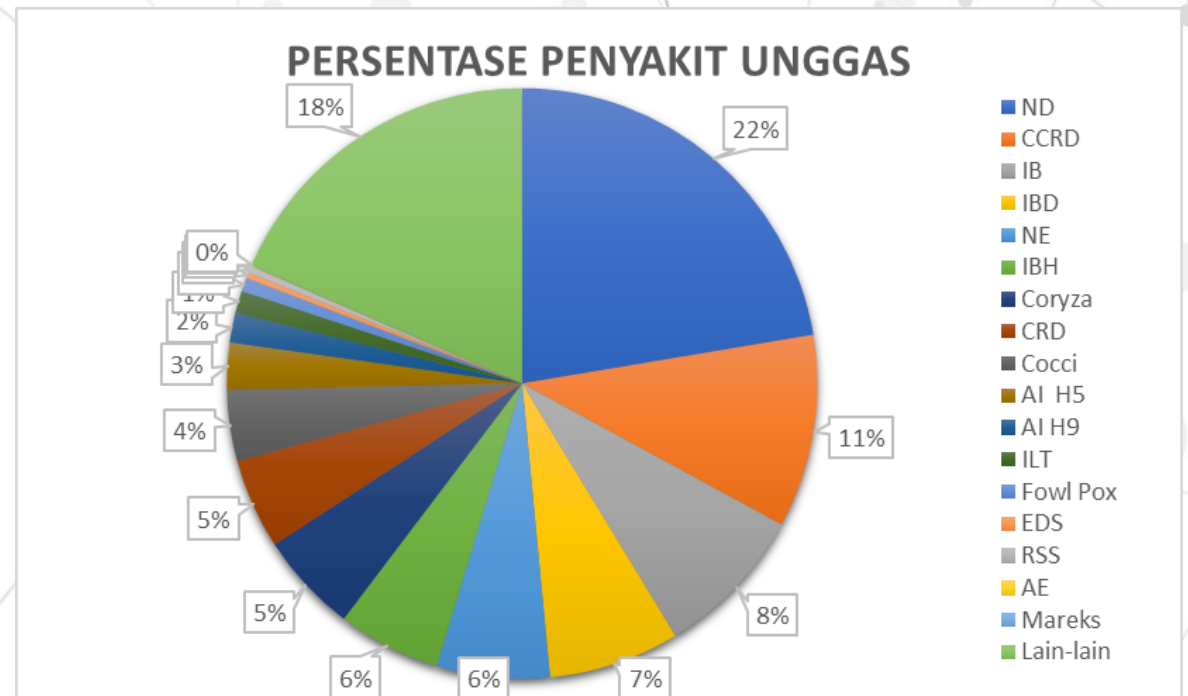
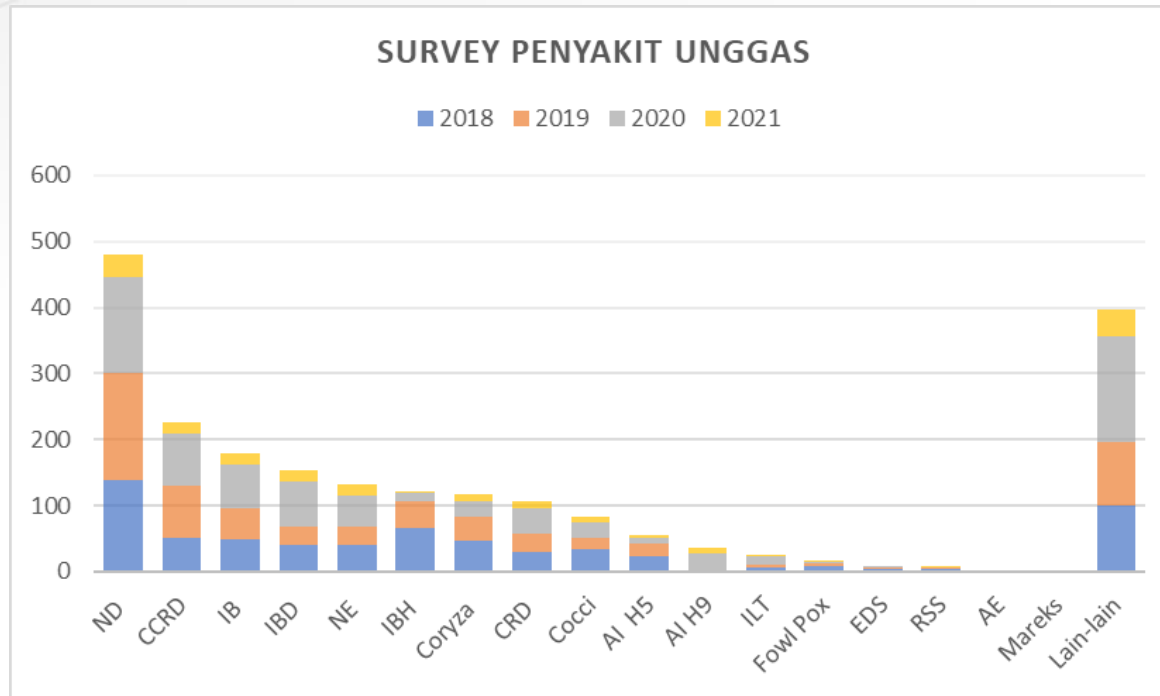
- Kelangkaan tenaga kerja berkualitas tinggi

AGENDA

2

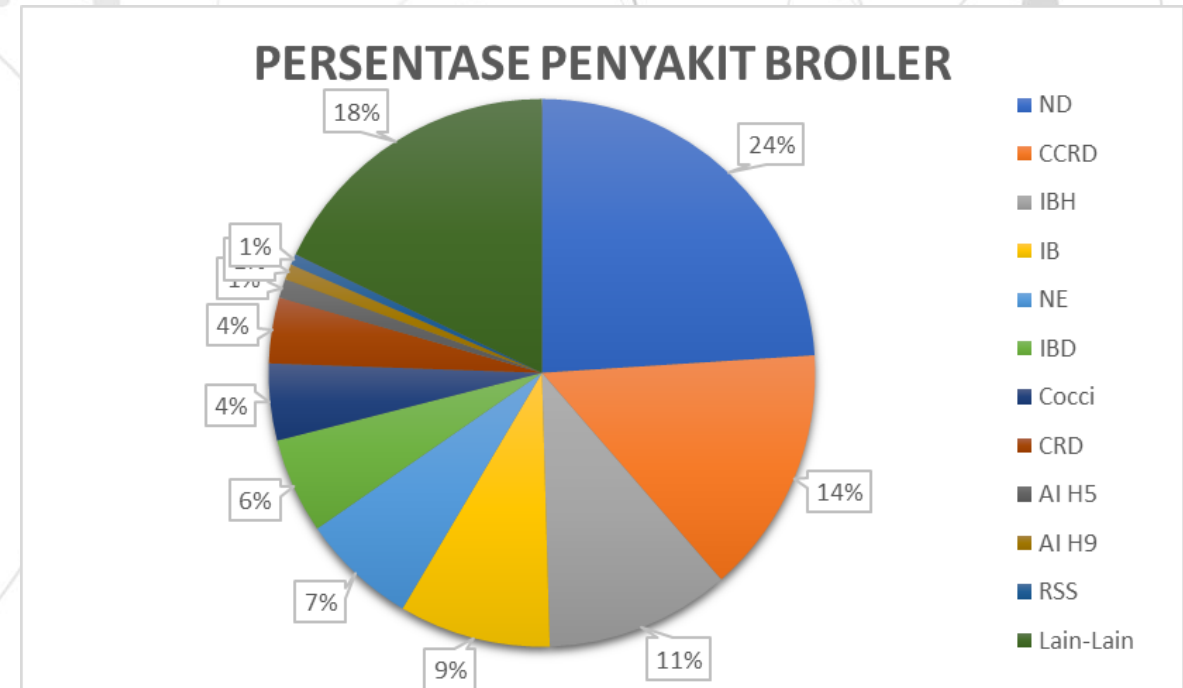
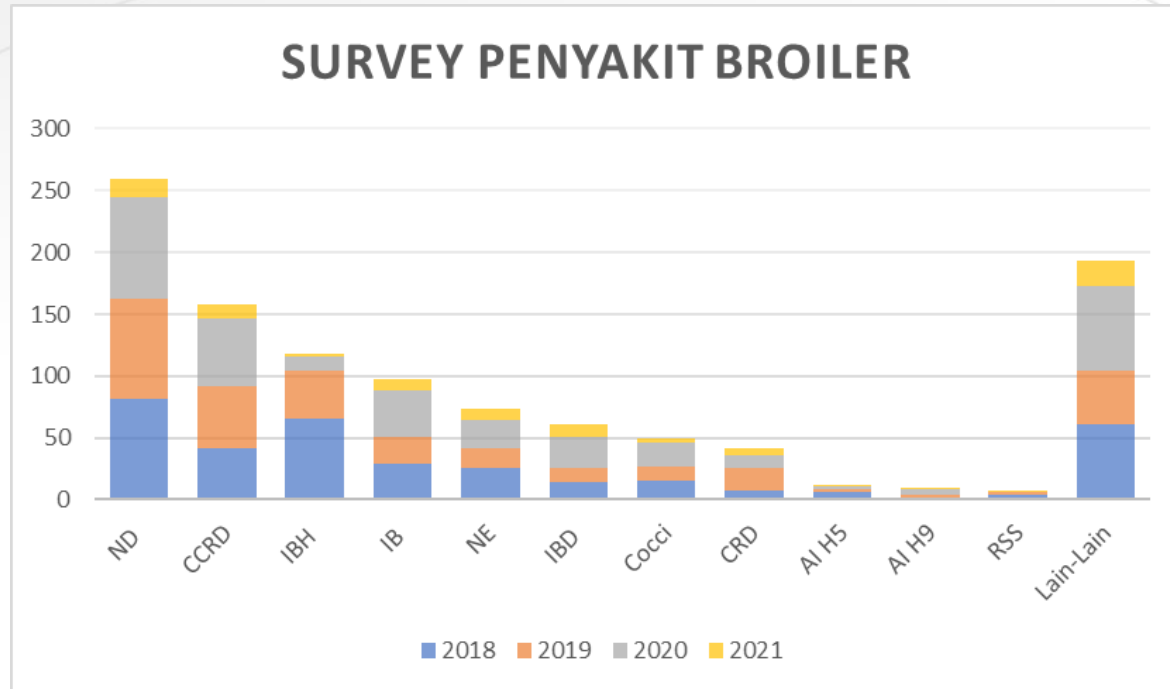
TANTANGAN PENYAKIT DI INDONESIA

TANTANGAN PENYAKIT DI INDONESIA



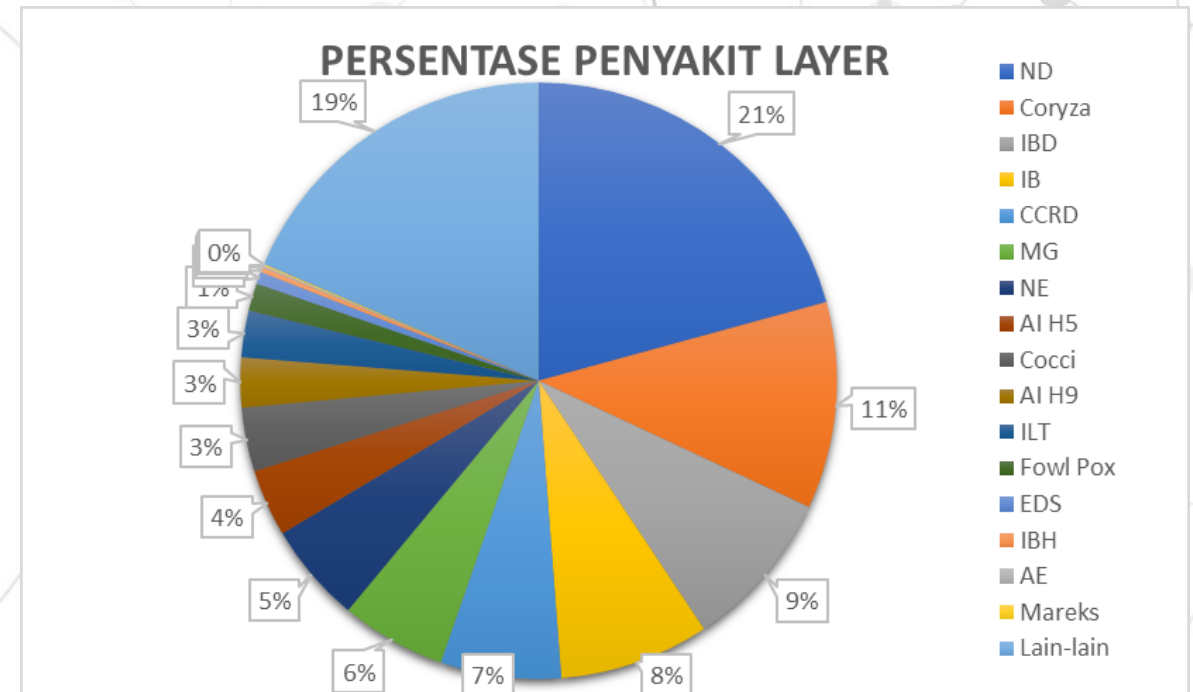
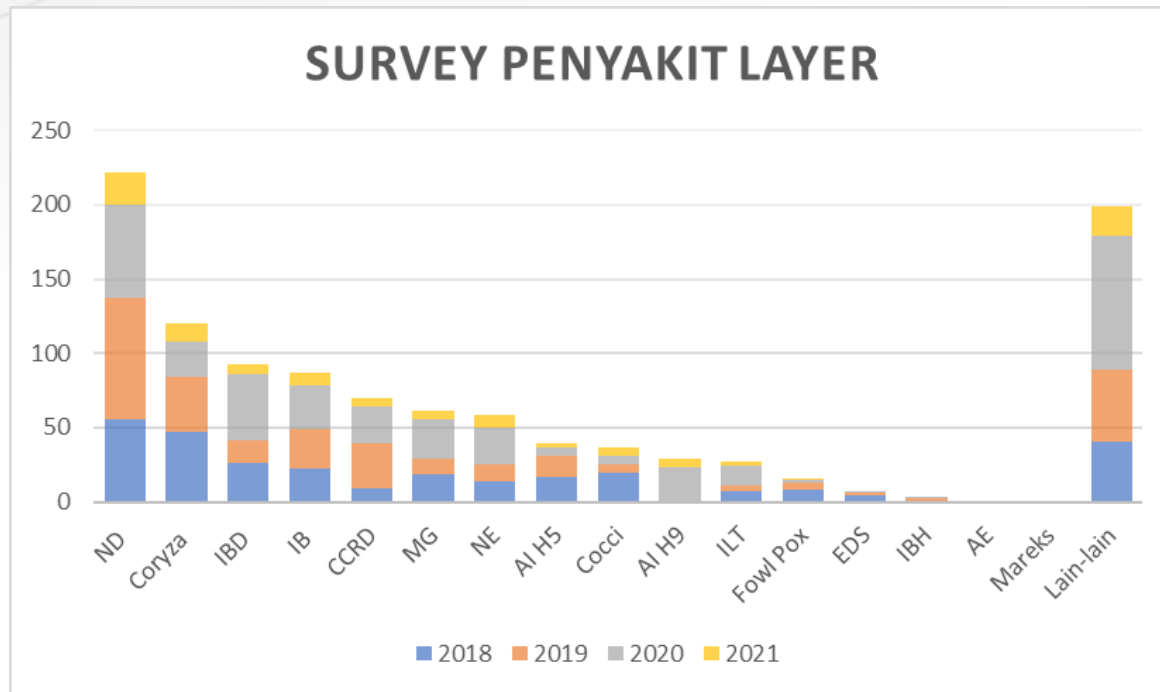
- Survey internal Ceva 2018 – Maret 2021, 2150 laporan :
- ND 22%, CCRD 11%, IB 8%, IBD 7%, NE 6%, IBH 6%, Coryza 6%, CRD 5%, Cocci 4%, AI H5 3%, AI H9 2%, ILT 1%, Fowl Pox 1%, EDS 0,3%, RSS 0,3%, AE 0,1%, Mareks 0,1%, Lain-lain 18%

TANTANGAN PENYAKIT BROILER



- Survey internal Ceva 2018 - Maret 2021. 1080 laporan :
- ND 24%, CCRD 15%, IBH 11%, IB 9%, NE 7%, IBD 6%, Cocci 5%, CRD 4%, AI H5 1%, AI H9 1%, RSS 1%, Lain-lain 18%

TANTANGAN PENYAKIT LAYER



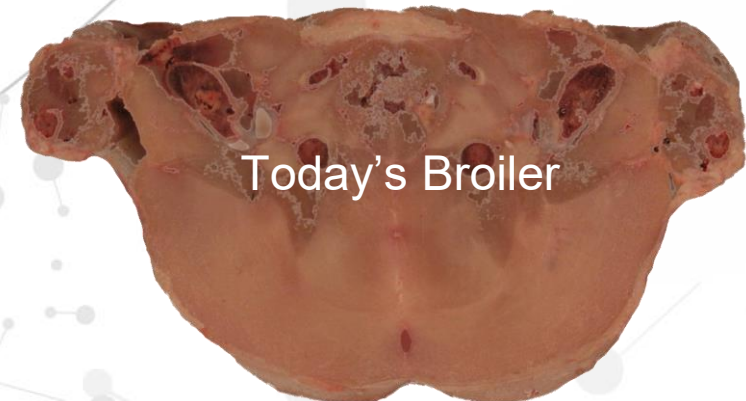
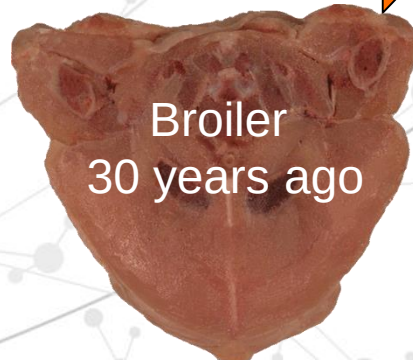
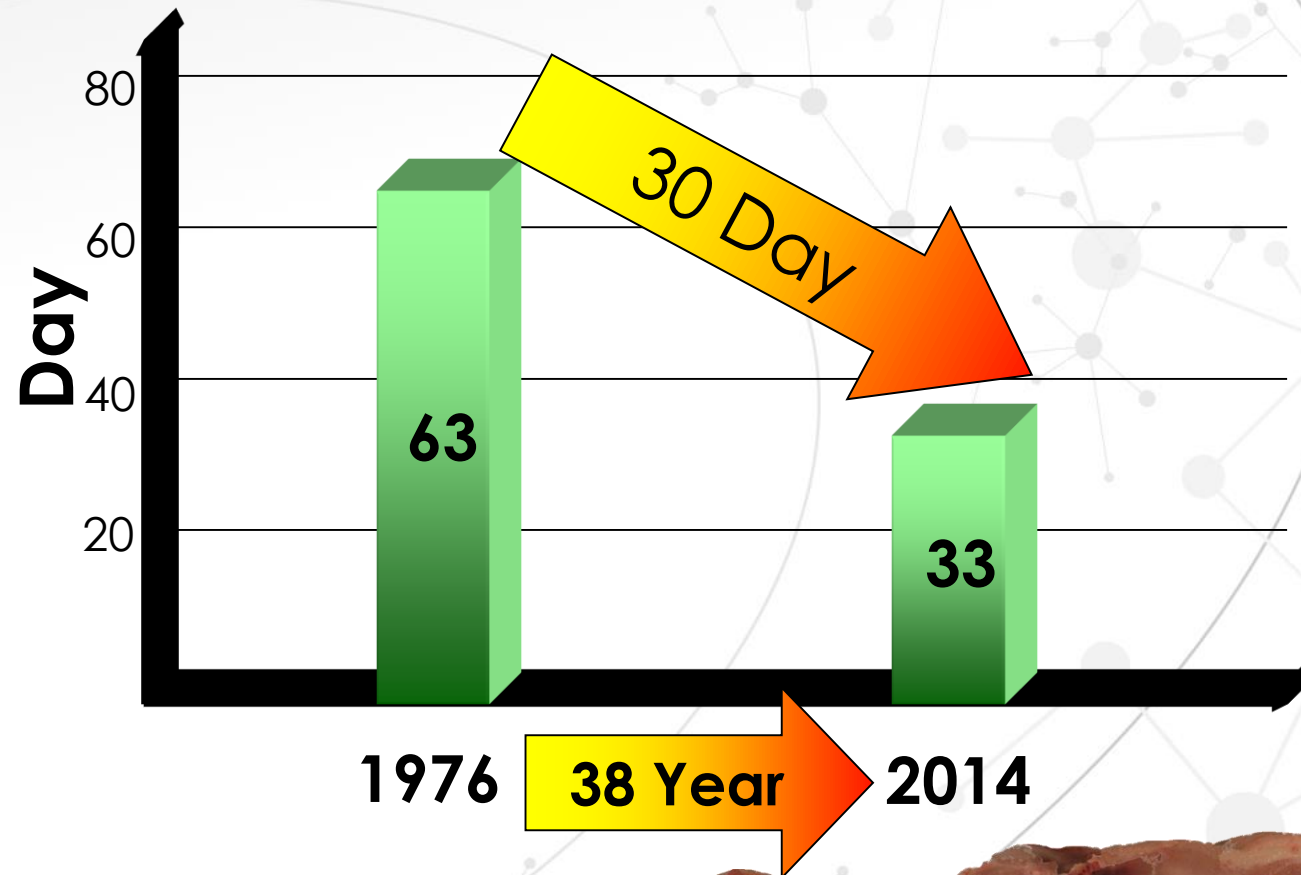
- Survey internal Ceva 2018 - Maret 2021, 1070 laporan :
- ND 21%, Coryza 11%, IBD 9%, IB 8%, CCRD 7%, MG 6%, NE 5%, AI H5 4%, Cocci 4%, AI H9 3%, ILT 3%, Fowl Pox 2%, EDS 1%, IBH 0,3%, AE 0,1%, Mareks 0,1%, Lain-lain 19%

AGENDA

3

PROGRAM VAKSINASI BROILER

PROGRAM VAKSINASI BROILER



PROGRAM VAKSINASI BROILER



Lebih mudah kontrol 1 hatchery dibandingkan ratusan farm dengan kondisi berbeda.

KUNCI SUKSES VAKSINASI HATCHERY



KUNCI SUKSES VAKSINASI HATCHERY



KUNCI SUKSES VAKSINASI HATCHERY

VAKSIN	JENIS	UMUR	APLIKASI
	IBD Live	DOC	Injek Subkutan
	ND Live	DOC	Injek Subkutan
	NDIB Live	DOC	Coarse Spray
	IB Varian Live	DOC	Coarse Spray
	ND LaSota Live	10 Hari	Spray/ ED/ DW

KUNCI SUKSES VAKSINASI HATCHERY



KUNCI SUKSES VAKSINASI HATCHERY

**Dovac Double
Injeksi Subkutan**



**ECAT In Ovo
Injeksi In Ovo**

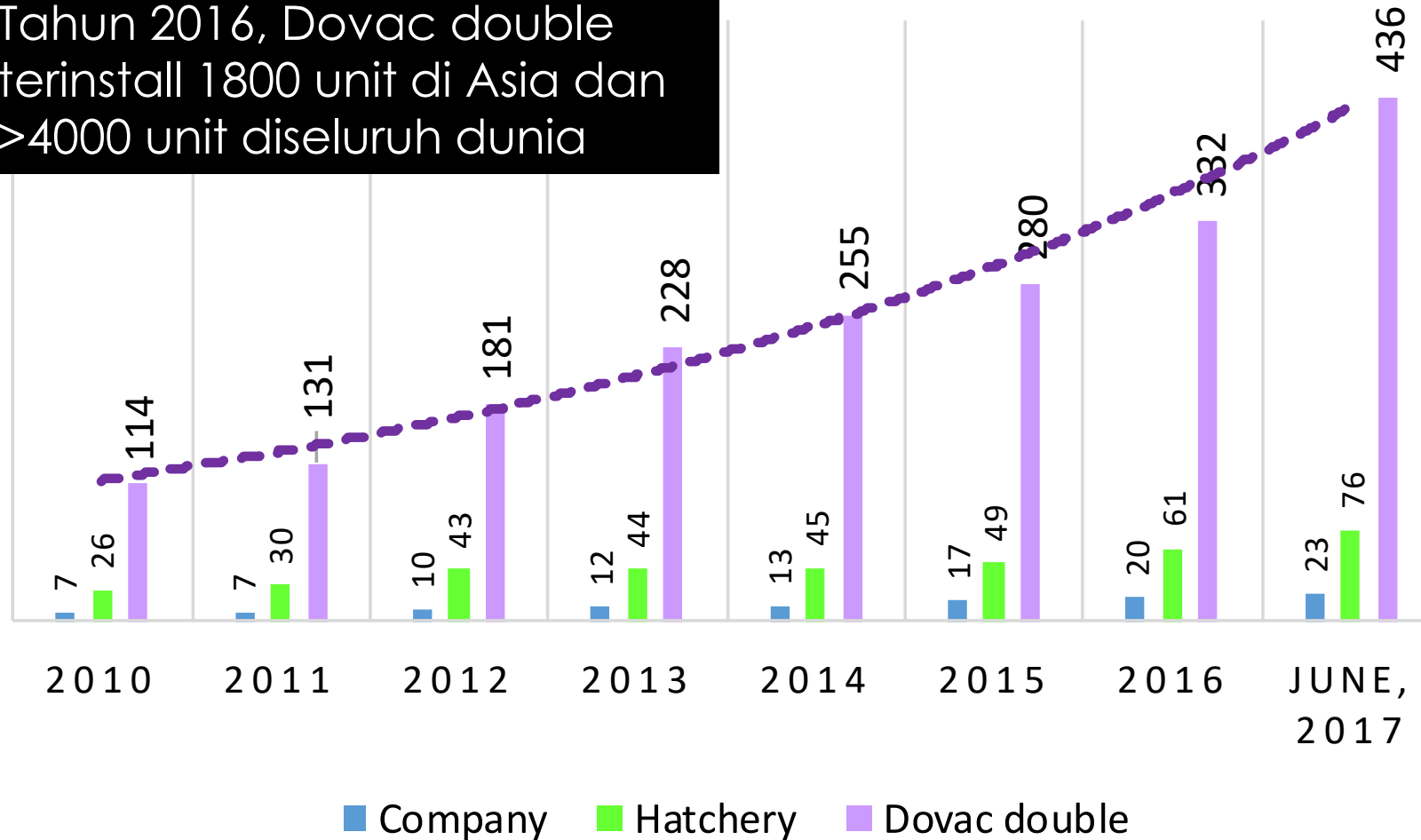


Peralatan Injeksi

KUNCI SUKSES VAKSINASI HATCHERY

Indonesia

Tahun 2016, Dovac double terinstall 1800 unit di Asia dan >4000 unit diseluruh dunia

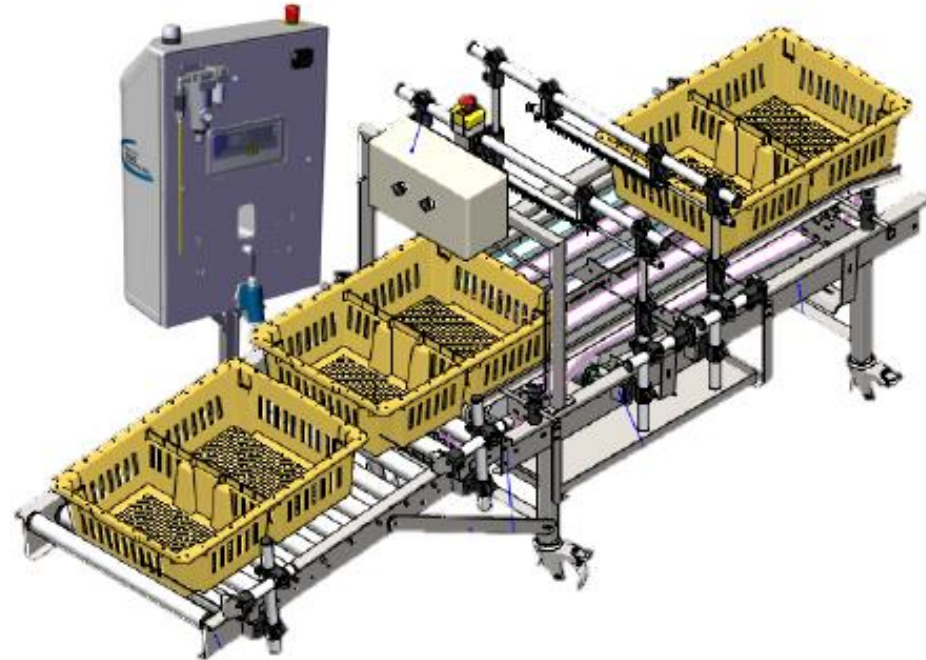


KUNCI SUKSES VAKSINASI HATCHERY

**Hatch Spray
Manual**

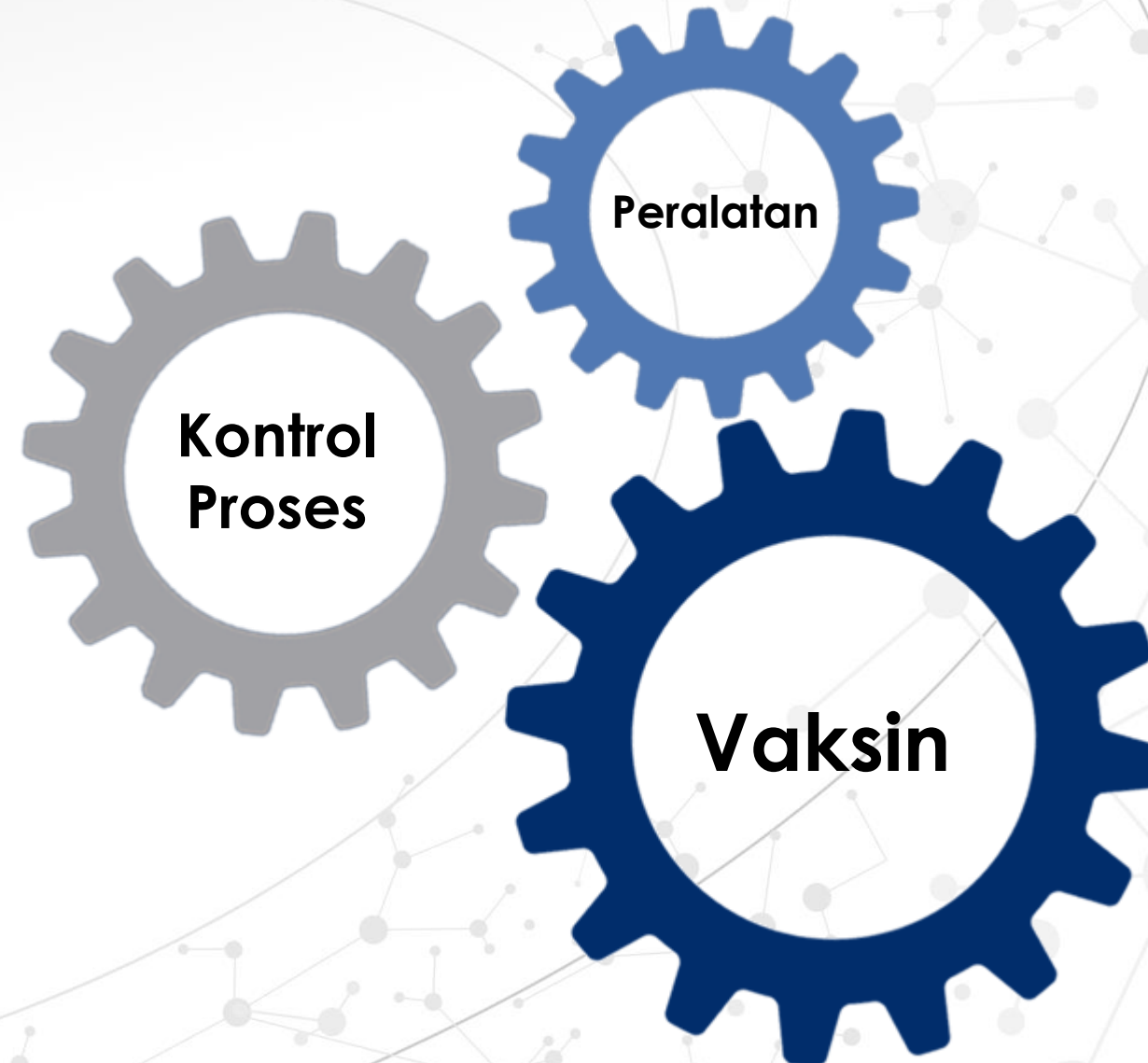


**Desvac Duo ILS
Conveyor**



Peralatan Spray

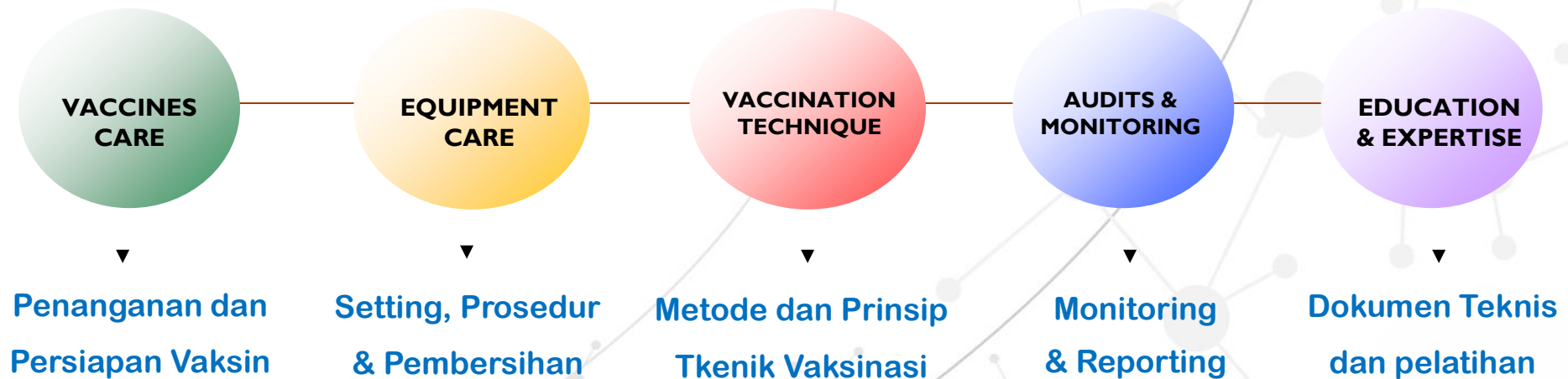
KUNCI SUKSES VAKSINASI HATCHERY



KONTROL PROSES DI HATCHERY



Ceva Hatchery Immunisation Control Key



Sistem audit & monitoring CHICK Program



C.H.I.C.K. 3.0- Advanced database



Database for CRM

- New customer
- Customer name
- Operators list



ORACLE®

Audit / Visit Result

- Vaccine preparation
- Administration quality
- Equipment
- Training
- In Ovo



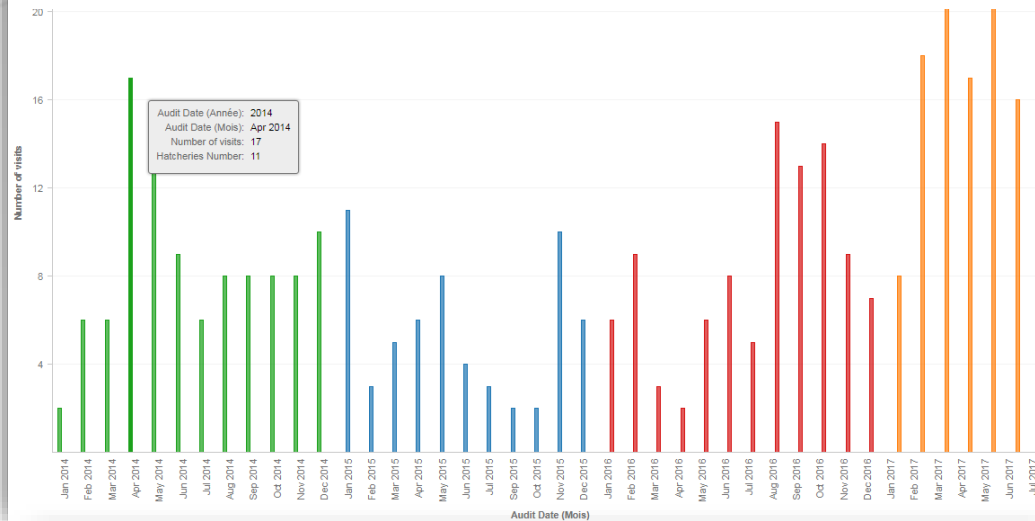
MicroStrategy
Best In Business Intelligence™

Data and reporting

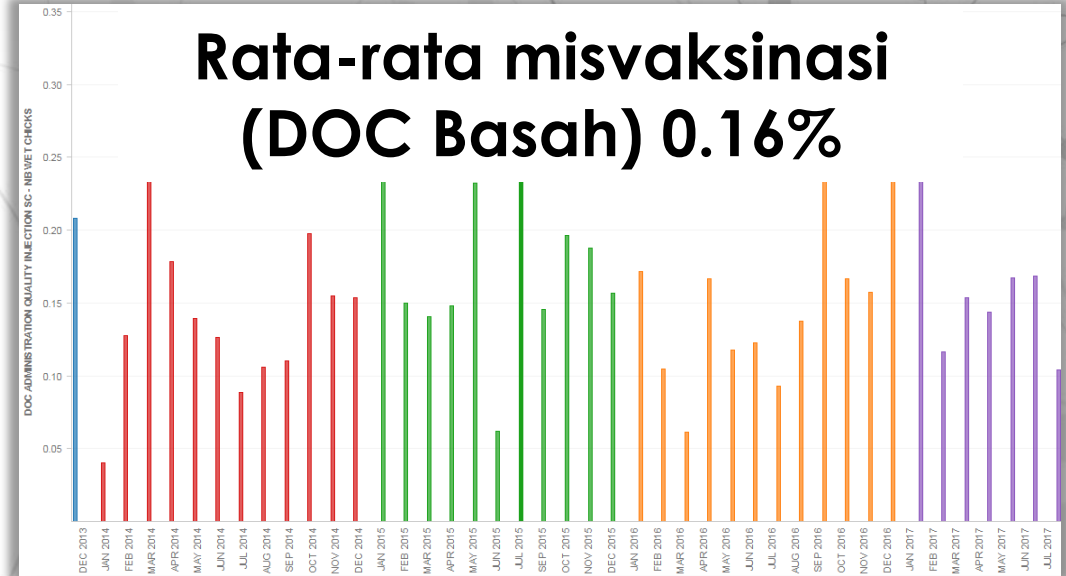
Meeting customers to present results and provide advices

Contoh audit & monitoring CHICK Program

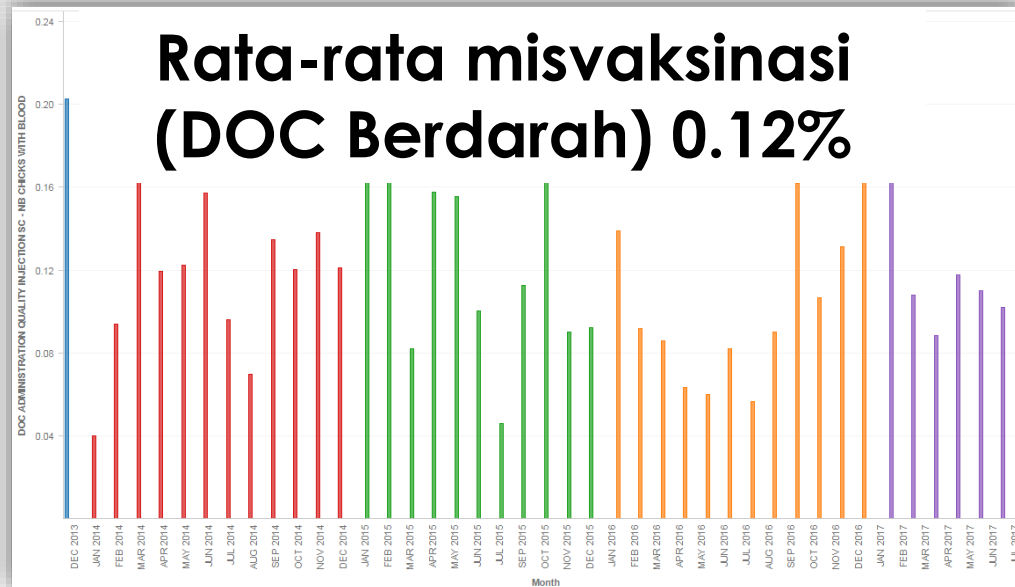
Jumlah kunjungan ke hatchery



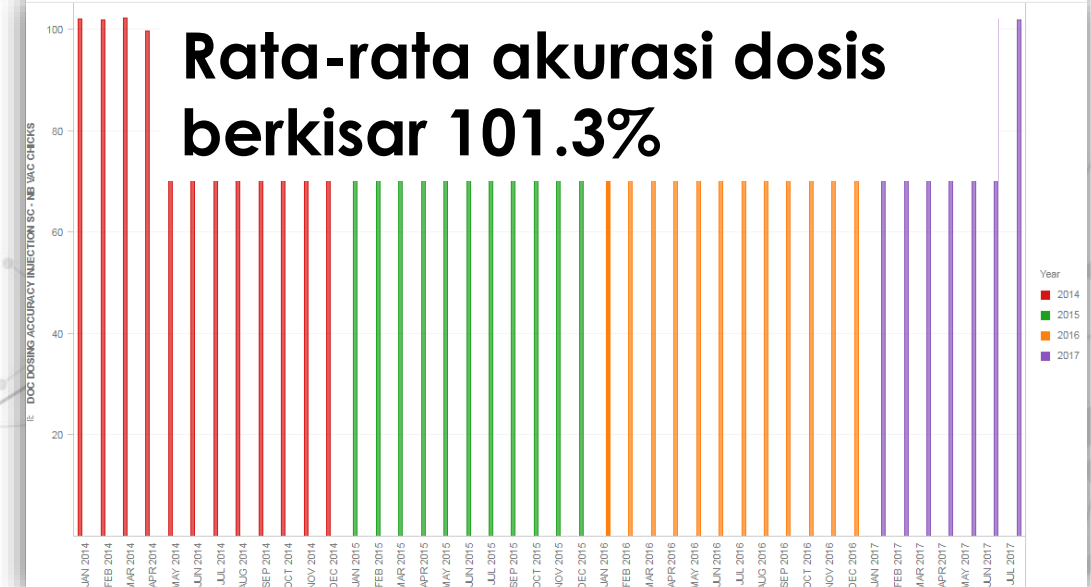
Rata-rata misvaksinasi (DOC Basah) 0.16%



Rata-rata misvaksinasi (DOC Berdarah) 0.12%



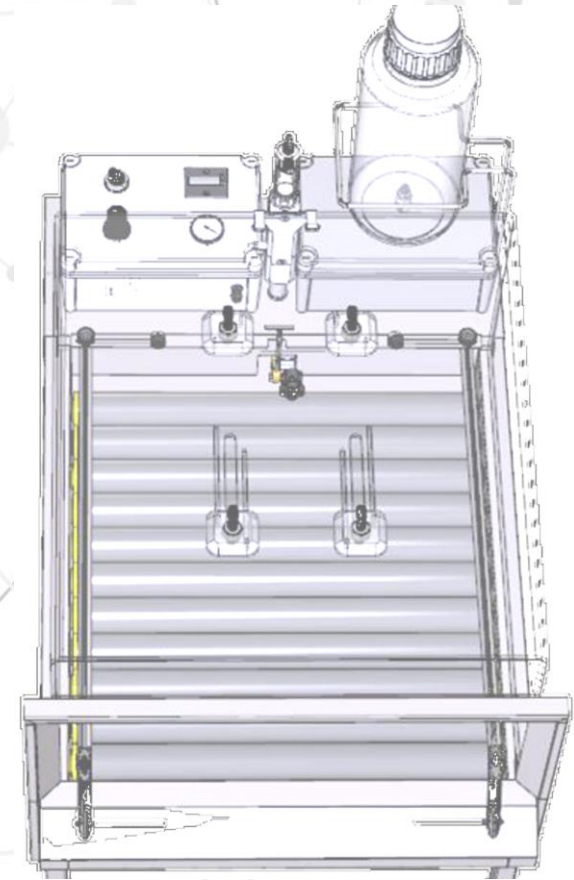
Rata-rata akurasi dosis berkisar 101.3%



Monitoring HTC Spray

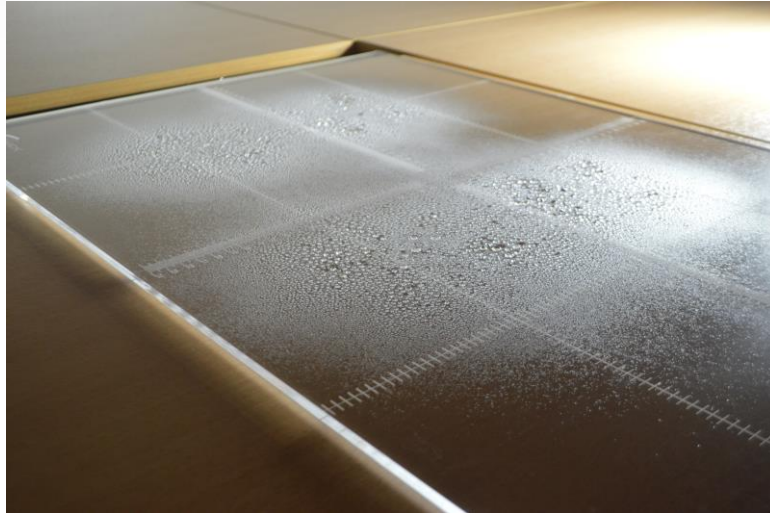


- ✓ **Distribution**
- ✓ **Homogeneity**
- ✓ **Particle size**



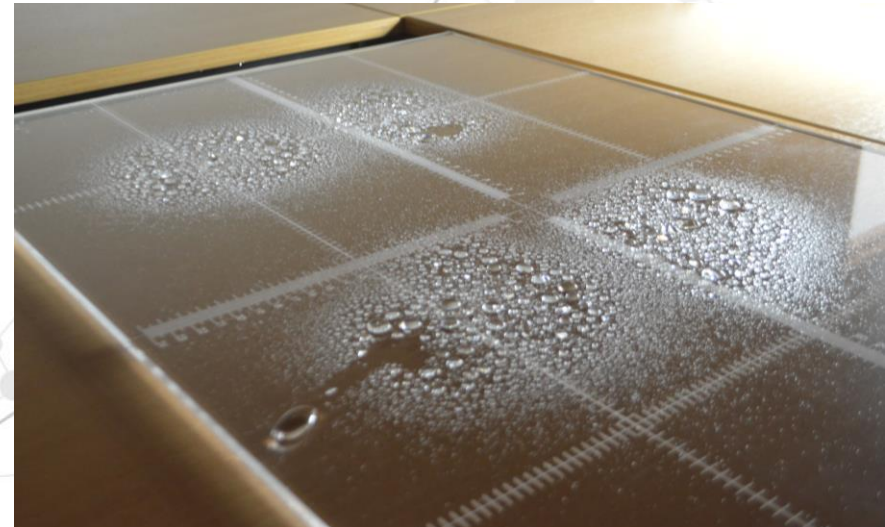
Monitoring HTC Spray Distribution & Homogeneity

- Desvac Droplet -

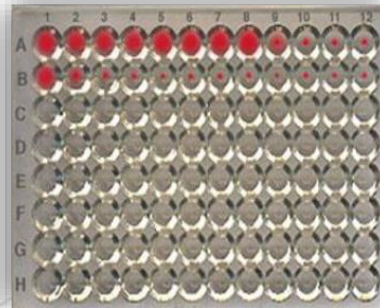
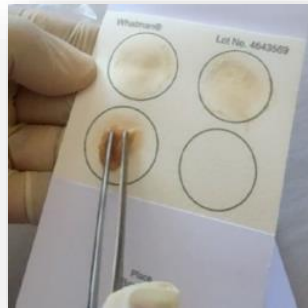


*Cabinet spray
Grey nozzles
Correct pressure*

*Cabinet spray
Grey nozzles
Low pressure*



Support di Level Farm

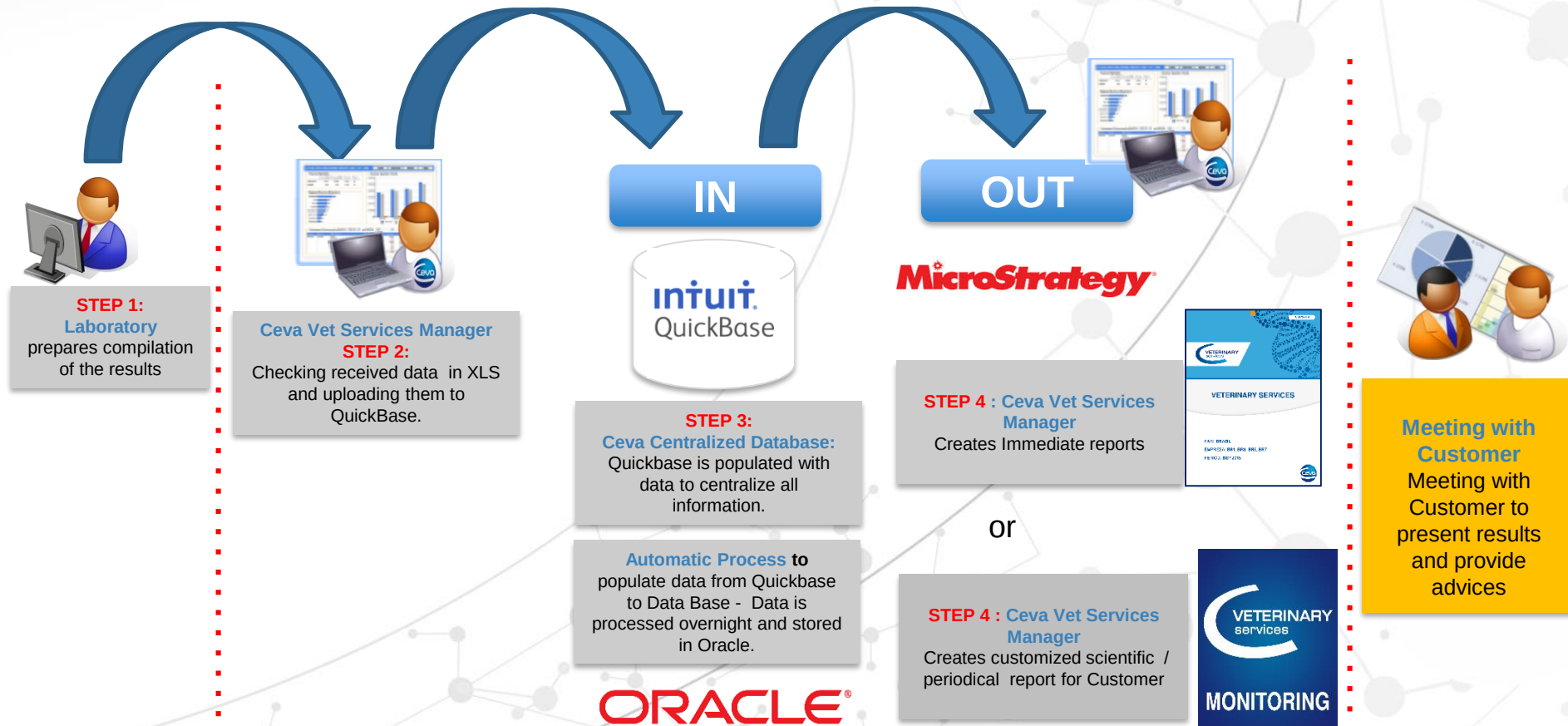


Global Protection Strategy

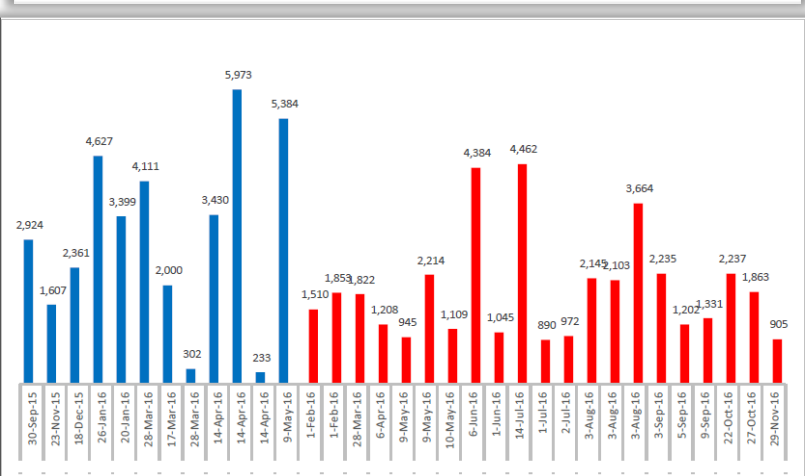
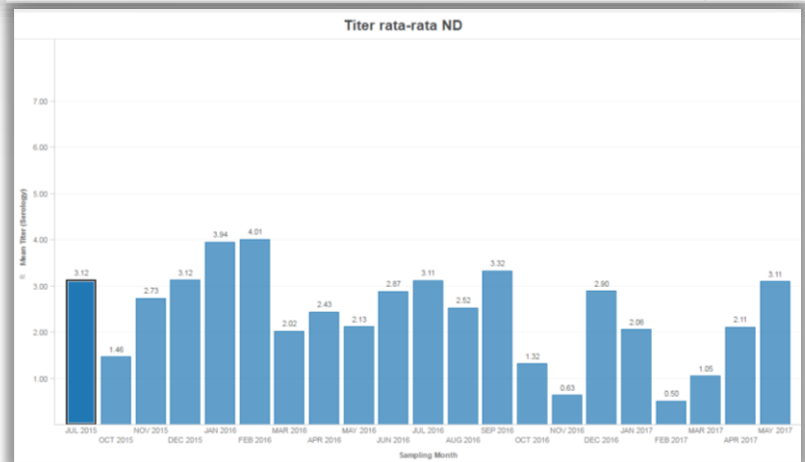
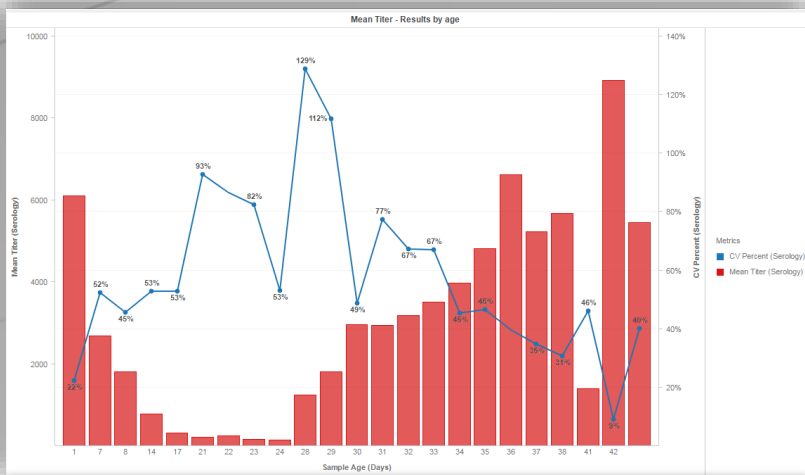
(GPS), adalah program dari yang didasarkan status epidemiologi penyakit dan untuk memonitor flock yang divaksin dengan vaksin Ceva

Support di Level Farm

Manajemen hasil laboratorium dan pelaporan



Support di Level Farm



Meeting dg Customer

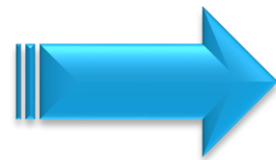


AGENDA

4

PROGRAM VAKSINASI LAYER

LESS IS
MORE

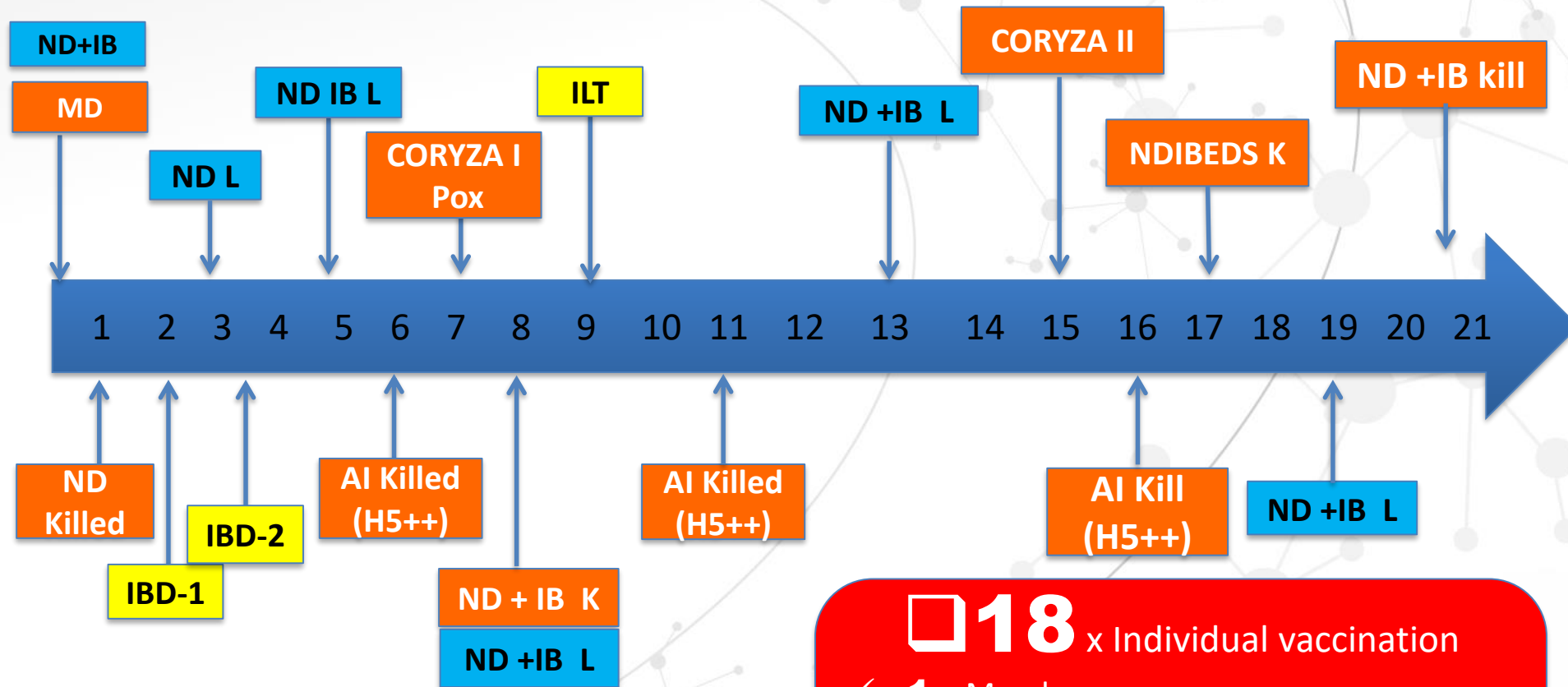


**SIMPLIFY LAYER VACCINATION PROGRAM
WITH CEVA NEW TECHNOLOGY VACCINES**

Help you to reach your safety and efficacy goals
with less vaccine applications

PULLET VACCINATION

(Current situation)



18 x Individual vaccination

- ✓ **1x** Mareks
- ✓ **2x** IBD
- ✓ **4x** ND/IB Live + **4x** ND/IB Killed
- ✓ **2x** Coryza
- ✓ **3x** AI
- ✓ **1x** ILT + **1x** Pox

IMPOSSIBLE OR I'M POSSIBLE?

More vaccination.....

- ✓ More Stress
- ✓ More Shedding
- ✓ More PVR
- ✓ More difficult to control respiratory problem
- ✓ More AB
- ✓ Less productivity

CEVA LAYER OFFER

Innovative Vaccine

Hatchery Vaccines



Field Vaccine



Equipment

Hatchery Equipment

NOVA-TECH collaboration
ENGINEERING, LLC



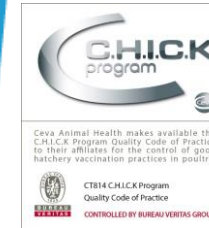
Field Equipment



New
WW applicator

Service

Layer Hatchery Vaccination Services



Layer Farm Service

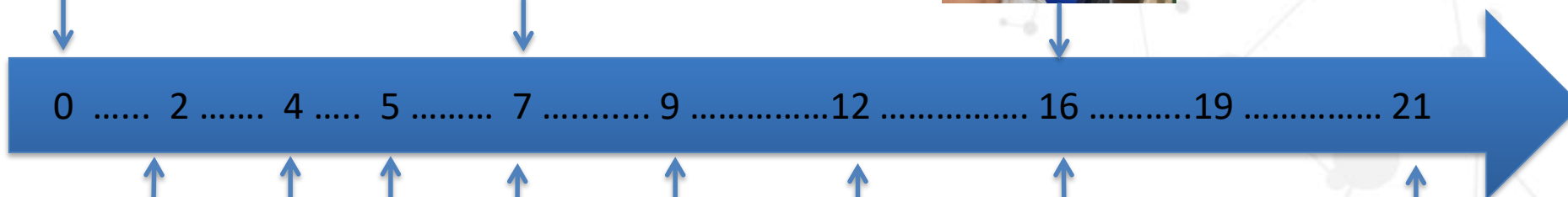
- Layer farm vaccination Services-based on IMVAC
- Field monitoring & Veterinary Services





NEW VACCINATION

(C-The Future)



Cevac
New L

AI
Killed

Cevac
NB L

AI
Killed

AI
Killed

Cevac
Bron 120



Cevac
NB L



Cevac
IBird



or





The New Programme (Pullet Vaccination)

18

Individual vaccination



9

Individual vaccination

HVT ND +Rispens

ND Killed

IBD I

IBD II

Fowl Pox

ILT

ND IB K

AI Killed

Coryza II

ND IB EDS

AI Killed

VTM ND +
Rispens

NOVAMUNE

VTM FP-LT

NDIB K
AI Killed

Combo 6/
Corymune 7K

AI Killed



Ceva Layer Offer-Innovative Vaccine



+ **NOVAMUNE[®]**

ND AND IBD CONTROL FROM HATCHERY
ALLOWS YOU TO RE-THINK YOUR
VACCINATION PROGRAM



Ceva Layer Offer-Innovative Vaccine

- Indonesian field trial
- Monitoring period : Nov 2020 to Jan 2021
- No of farms : 11 farms
- Populations : 209.800 pullets
- Locations : Sumatera and Java
- Monitoring parameters :
 - Mortality rate before and after using Novamune
 - IBD serology from MAB, 21 days, 28 days, 35 days and 42 days
 - ND serology at 35 days

Age	Vaccine	Route
DOC	Vectormune ND Rispens + Novamune	SQ
	Cevac NBL	Spray
According to MAB	IBD L	MD

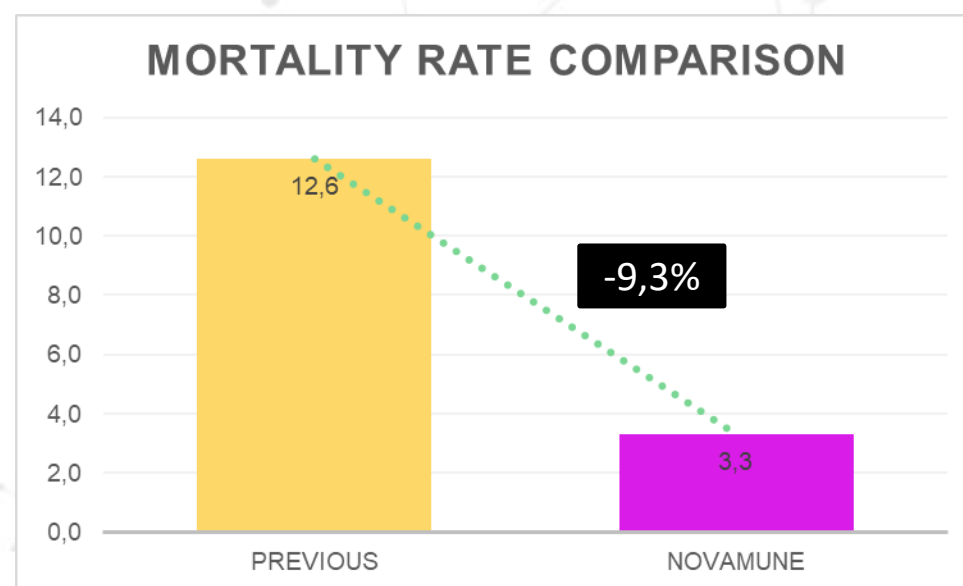
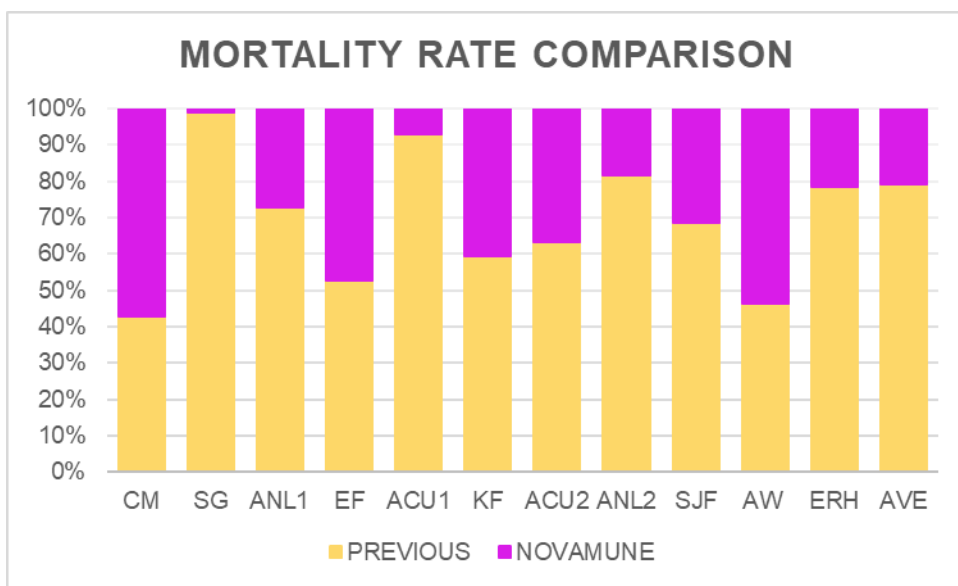
IBD Live as additional vaccine virus loads in the farm is mandatory due to very high challenge.



Ceva Layer Offer-Innovative Vaccine

- Indonesian field trial – Result Mortality Comparison

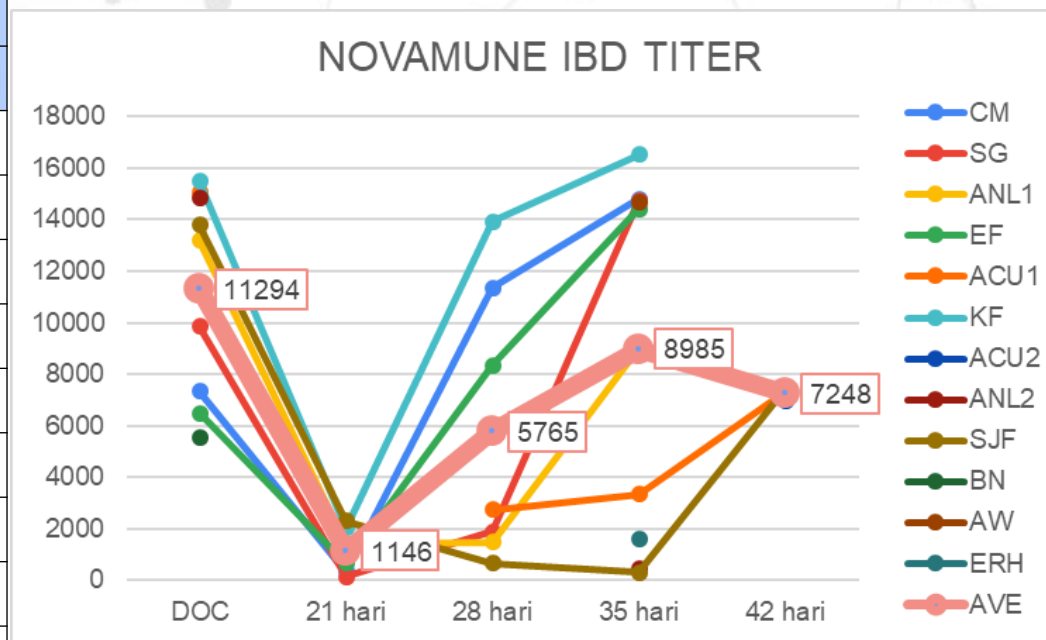
No	CUST	PREVIOUS	NOVAMUNE	Additional IBD Live	FINAL STATUS
1	CM	0,6	0,8	IBDL @ 21 d	Novamune Succeed
2	SG	30	0,33	IBDL @ 24d	Novamune Succeed
3	ANL1	40	15	IBDL @ 27d	AI @ 32nd doa, MR 15%
4	EF	1,5	1,34	IBDL @ 21 d	Novamune Succeed
5	ACU1	5	0,38	NDIBDK @ 7 d; IBDL @ 27 d	Novamune Succeed
6	KF	2,5	1,7	IBDL @ 27d	Novamune Succeed
7	ACU2	0,4	0,22	NDIBDK @ 7 d; IBDL @ 27 d	Novamune Succeed
8	ANL2	15	3,4	IBDL @ 27d	Novamune Succeed
9	SJF	2,9	1,35	IBDL @ 26d	Novamune Succeed
10	AW	0,6	0,69	IBDL @ 21d	Novamune Succeed
11	ERH	40	11	IBDL @ 16d	IBD @ 35th doa, MR 11%



Ceva Layer Offer-Innovative Vaccine

- Indonesian field trial – Result IBD Serology

NO	CUST	TITER IBD				
		DOC	21 hari	28 hari	35 hari	42 hari
1	CM	7337	346	11354	14799	
2	SG	9844	135	1884	14748	
3	ANL1	13189	1403	1473	8992	
4	EF	6497	651	8340	14420	
5	ACU1	15064		2731	3350	7349
6	KF	15498	2037	13922	16522	
7	ACU2					6957
8	ANL2	14859			431	
9	SJF	13797	2302	650	308	7437
10	BN	5563				
11	AW				14683	
12	ERH				1593	
	AVE	11294	1146	5765	8985	7248



- IBD Titer average : 11294/ DOC, 1146/ 21d, 5765/ 28d, 8985/ 35d, 7248/ 42d.
- Some titer reach >14000 above 28 days of age

Ceva Layer Offer-Innovative Vaccine



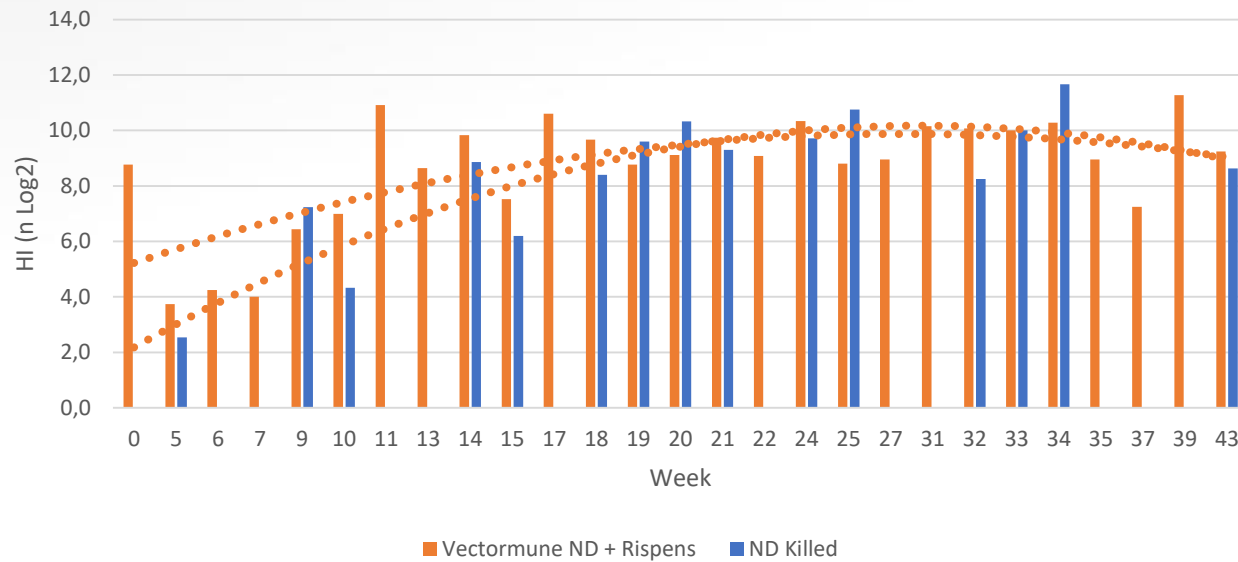
Vectormune ND, reduces Newcastle Disease virus **shedding**,
with **maximum protection** and **no side effect**



Ceva Layer Offer-Innovative Vaccine

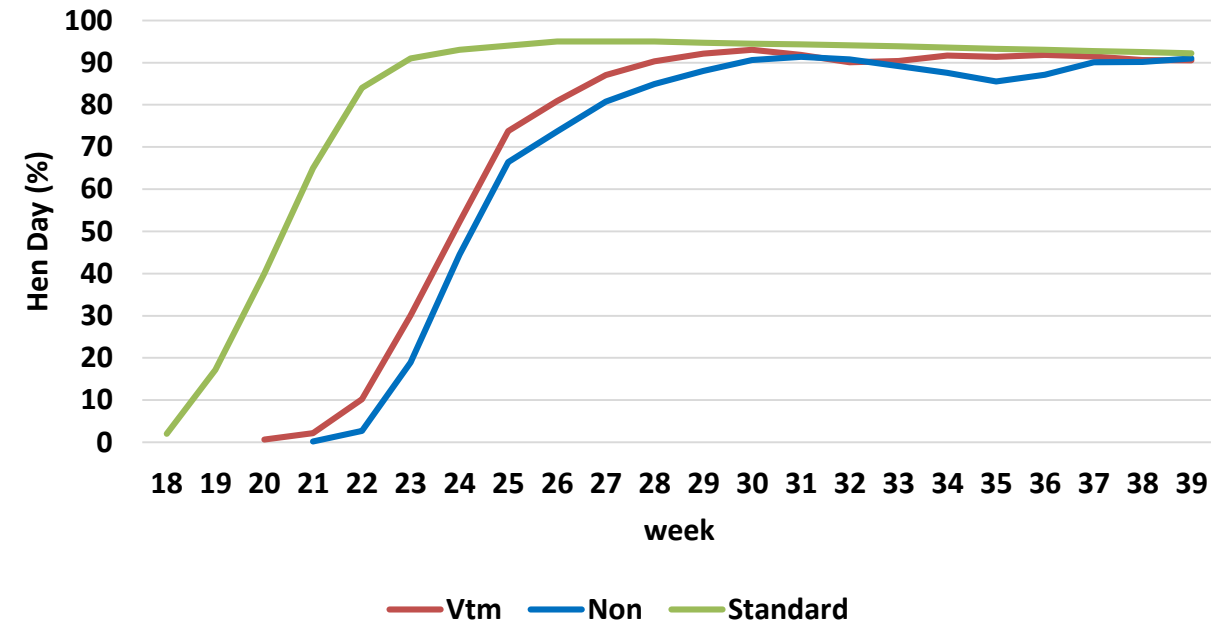
Result

ND TITER Vectormune ND vs ND Killed
Sumatra & Java Trial



The average ND titer is more stable compared to ND Killed

HD

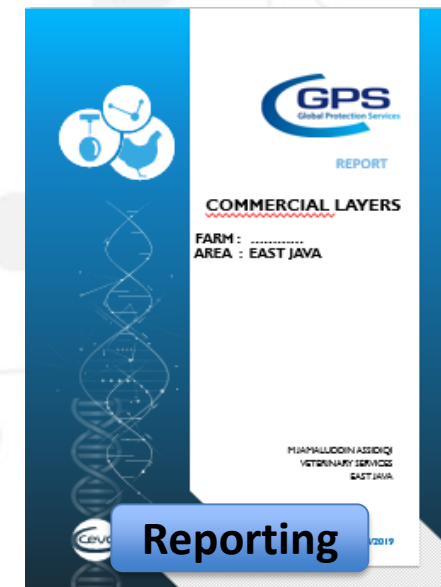
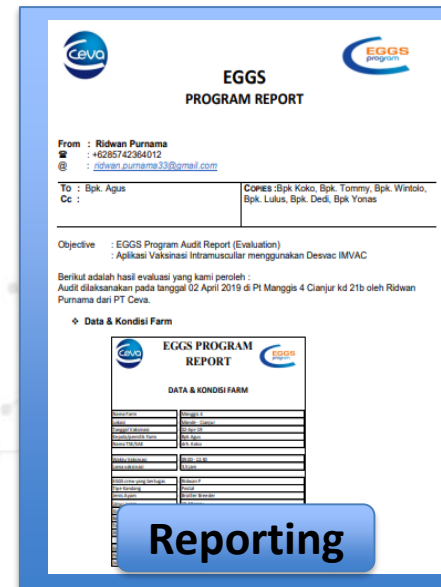
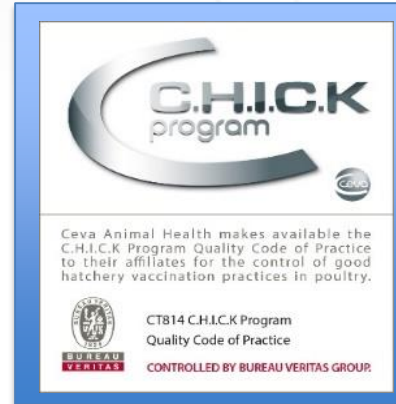


HD Production after using Vectormune ND is more stable and return faster – after decrease - to its rate compared to ND Killed.

Ceva Layer Offer

SERVICES

- ☐ C.H.I.C.K program
- ☐ Veterinary Service
 - ✓ Monitoring (Base Line)
 - ✓ Scientific & Technical support
- ☐ EGGS Program
 - ✓ Audit & Training



AGENDA

5

KESIMPULAN

Kesimpulan

- Program Vaksinasi Unggas harus sesuai tantangan lapangan, tuntutan genetik dan perkembangan manajemen ayam modern.
- Vaksinasi hatchery harus didukung oleh:
 1. Teknologi vaksin
 2. Teknologi Peralatan
 3. CHICK Program - Proses vaksinasi di hatchery
- Global Protection Strategy (GPS) untuk monitoring kesuksesan vaksinasi hatchery di level farm berdasarkan status epidemiologi penyakitnya