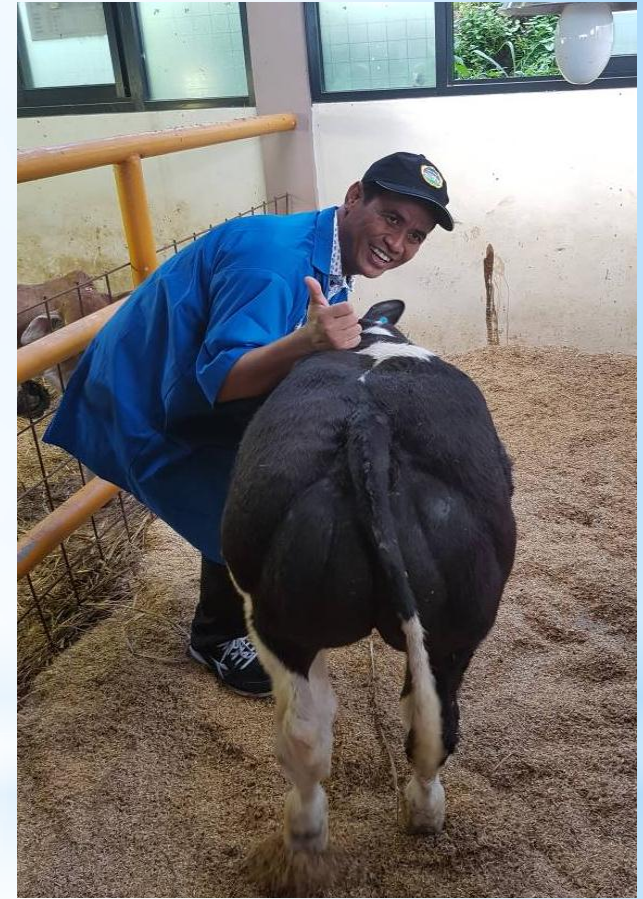


# PROGRESS PENGEMBANGAN SAPI BELGIAN BLUE DI INDONESIA



# TUJUAN



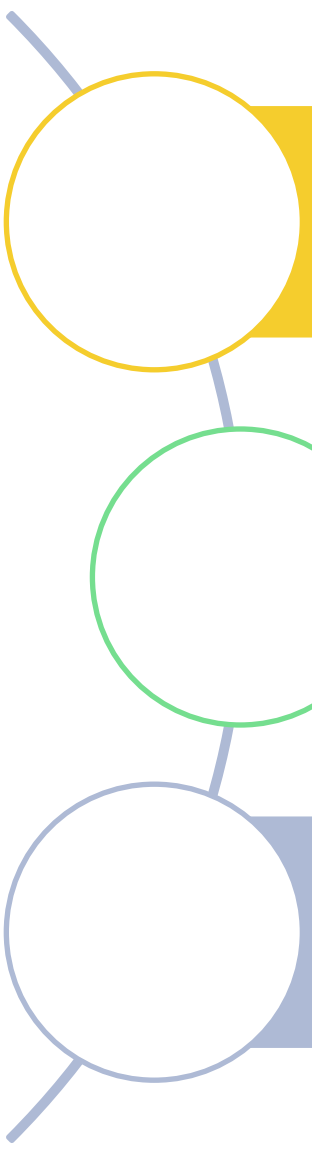
Pembentukan bangsa  
baru sapi Belgian Blue  
Indonesia



Pengembangan sapi  
Belgian Blue di Indonesia



# SASARAN



Penguatan BET Cipelang dan UPT Lingkup Kementan (UPT PKH, UPT Badan SDM, UPT Litbang)

Kelahiran sapi Belgian Blue Hasil TE dan IB

Terciptanya Sapi Belgian Blue Indonesia (dengan kemurnian darah 100%, 75% dan 50%)



# Roadmap Pengembangan Sapi Belgian Blue Indonesia





Kepmentan Nomor : 73/Kpts/OT.050/1/2018 Tanggal 15 Januari 2018 Tentang  
Kelompok Kerja Pengembangan Sapi Belgian Blue di Indonesia



# PELAKSANA UPT

## UPT Perbibitan



- ☐ BET Cipelang
- ☐ BPTU Pd. Mangatas
- ☐ BPTUHPT Sembawa
- ☐ BBPTUHPT Baturraden

## UPT Badan SDM



- ☐ BBPKH Cinagara
- ☐ STPP Bogor
- ☐ STPP Magelang
- ☐ STPP Malang
- ☐ BBPP Batu

## UPT Badan Litbang



- ☐ Balitnak Ciawi
- ☐ Lolit Sapo Grati



# KEGIATAN – KEGIATAN YANG DILAKSANAKAN

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Pertemuan Koordinasi (Pakar dan UPT)

---

Pelatihan Petugas TE

---

Pelatihan penanganan kelahiran

---

Pengadaan Embrio, semen beku, bahan & peralatan TE

---

Distribusi Embrio, semen beku, bahan & peralatan TE

---

Aplikasi Transfer Embrio dan Inseminasi Buatan

---

Pemeriksaan Kebuntingan

---

Penanganan Kelahiran

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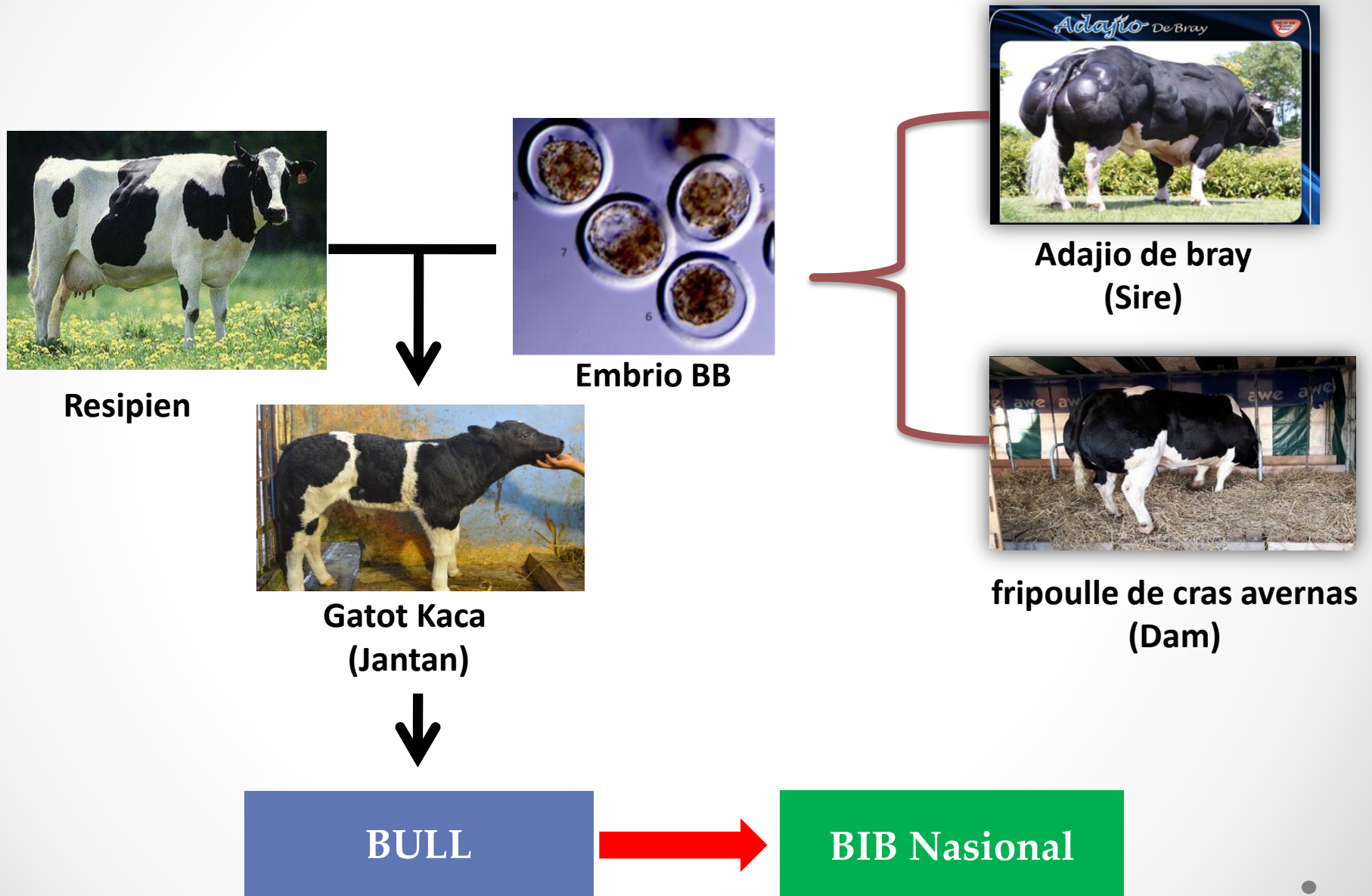
Pemeliharaan Pedet

---

Uji performance

# PEMANFAATAN TEKNOLOGI TRANSFER EMBRIO

## Dalam Pengembangan BB di Indonesia



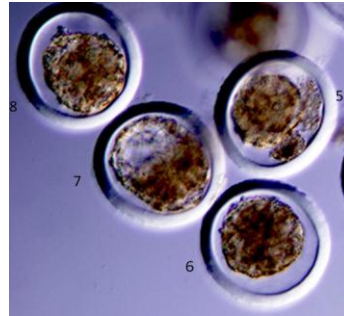
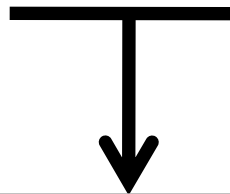


# PEMANFAATAN TEKNOLOGI TRANSFER EMBRIO

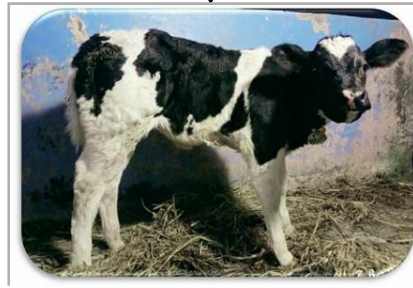
## Dalam Pengembangan BB di Indonesia



Resipien



Embrio BB



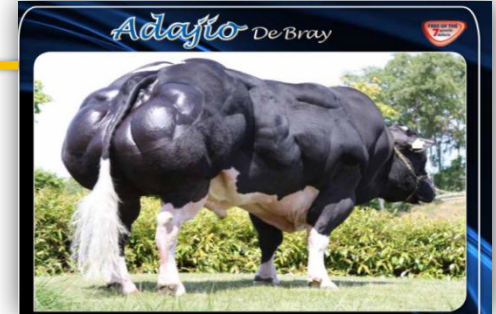
Srikandi  
(Betina)



Donor



BET & B/BPTU



Adajio de bray  
(Sire)



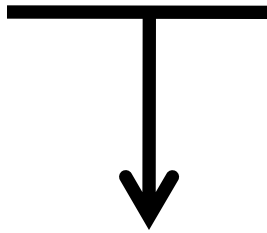
Farah De Cras Avernas  
(Dam)

# PEMANFAATAN TEKNOLOGI INSEMINASI BUATAN

## Dalam Pengembangan BB di Indonesia



**SIMMENTAL (Induk)**



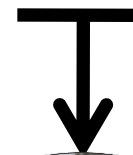
**BB CROSS BETINA**



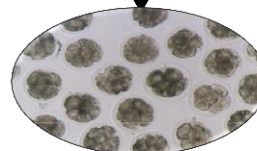
**DONOR  
(BB 50%)**



**Made Des 1000 Fontaines (Sire)**



**Embrio**



**BELGIAN BLUE**

**BB 75%**

# TARGET PELAKSANAAN PENGEMBANGAN BB di INDONESIA

| No            | UPT                      | Target (Ekor) 2018 |                  |            |            |            |                   |             |             | Target (Ekor) 2019 |            |            |             |
|---------------|--------------------------|--------------------|------------------|------------|------------|------------|-------------------|-------------|-------------|--------------------|------------|------------|-------------|
|               |                          | Embrio<br>(Straw)  | Semen<br>(Straw) | Res        | Aks        | TE         | IB (Res<br>+ Aks) | Lahir<br>TE | Lahir<br>IB | Embrio<br>(Straw)  | Res        | TE         | Lahir<br>TE |
| 1             | BET CIPELANG             | 180                | 160              | 111        | 68         | 180        | 160               | 55          | 92          | 180                | 111        | 180        | 55          |
| 2             | BBPTU-HPT BATURRADEN     | 110                | 300              | 64         | 186        | 110        | 300               | 40          | 164         | 110                | 64         | 110        | 40          |
| 3             | BPTU-HPT PADANG MENGATAS | 220                | 150              | 135        | 50         | 220        | 150               | 68          | 87          | 220                | 135        | 220        | 68          |
| 4             | BPTU-HPT SEMBAWA         | 145                | 265              | 85         | 152        | 145        | 265               | 45          | 146         | 145                | 85         | 145        | 45          |
| 5             | STPP BOGOR               | 35                 | 5                | 7          | 0          | 35         | 5                 | 2           | 2           | 35                 | 7          | 35         | 2           |
| 6             | STPP MAGELANG            | 35                 | 18               | 15         | 10         | 35         | 18                | 6           | 13          | 35                 | 15         | 35         | 6           |
| 7             | BBPP BATU                | 35                 | 29               | 15         | 15         | 35         | 29                | 6           | 16          | 35                 | 15         | 35         | 6           |
| 8             | BBPKH CINAGARA           | 35                 | 5                | 14         | 0          | 35         | 5                 | 6           | 5           | 35                 | 14         | 35         | 6           |
| 9             | LOLIT GRATI              | 35                 | 20               | 15         | 8          | 35         | 20                | 6           | 11          | 35                 | 15         | 35         | 6           |
| 10            | BALITNAK CIAWI           | 35                 | 40               | 24         | 20         | 35         | 40                | 10          | 24          | 35                 | 24         | 35         | 10          |
| 11            | STPP MALANG              | 35                 | 8                | 15         | 2          | 35         | 8                 | 6           | 7           | 35                 | 15         | 35         | 6           |
| <b>JUMLAH</b> |                          | <b>900</b>         | <b>1000</b>      | <b>500</b> | <b>511</b> | <b>900</b> | <b>1000</b>       | <b>250</b>  | <b>567</b>  | <b>900</b>         | <b>500</b> | <b>900</b> | <b>250</b>  |

# PROGRES PELAKSANAAN PENGEMBANGAN SAPI BB

| No     | UPT                      | PELAKSANAAN TE + IB BELGIAN BLUE |     |     |                   |                         |     |     |    |     |     |         |    |       |    |      |
|--------|--------------------------|----------------------------------|-----|-----|-------------------|-------------------------|-----|-----|----|-----|-----|---------|----|-------|----|------|
|        |                          | TARGET                           |     |     |                   | REALISASI S.D 08 Mar'18 |     |     |    |     |     |         |    |       |    |      |
|        |                          | Res                              | Aks | TE  | IB<br>(Res + Aks) | Distribusi              |     | TE  | IB | PKB |     | BUNTING |    | LAHIR |    | Ket  |
|        |                          |                                  |     |     |                   | Emb                     | Sem |     |    | TE  | IB  | TE      | IB | TE    | IB |      |
| 1      | BET CIPELANG (keg 2017)  |                                  |     |     |                   |                         |     | 19  | 99 | 19  | 99  | 5       | 40 | 3     | 20 | 2017 |
|        | Keg 2018                 | 111                              | 68  | 180 | 160               | 103                     | 10  | 73  | 10 | 20  | 1   | 7       | 1  |       |    | 2018 |
| 2      | BBPTU-HPT BATURRADEN     | 64                               | 186 | 110 | 300               | 110                     | 0   | 63  | 0  |     |     |         |    |       |    |      |
| 3      | BPTU-HPT PADANG MENGATAS | 135                              | 50  | 220 | 150               | 140                     | 0   | 98  | 0  |     |     |         |    |       |    |      |
| 4      | BPTU-HPT SEMBAWA         | 85                               | 152 | 145 | 265               | 145                     | 5   | 99  | 5  |     |     |         |    |       |    |      |
| 5      | STPP BOGOR               | 7                                | 0   | 35  | 5                 | 2                       | 0   | 2   | 0  |     |     |         |    |       |    |      |
| 6      | STPP MAGELANG            | 15                               | 10  | 35  | 18                | 35                      | 0   | 3   | 0  |     |     |         |    |       |    |      |
| 7      | BBPP BATU                | 15                               | 15  | 35  | 29                | 35                      | 0   | 1   | 0  |     |     |         |    |       |    |      |
| 8      | BBPKH CINAGARA           | 14                               | 0   | 35  | 5                 | 6                       | 0   | 7   | 0  | 3   |     | 1       |    |       |    |      |
| 9      | LOLIT GRATI              | 15                               | 8   | 35  | 20                | 35                      | 0   | 4   | 0  |     |     |         |    |       |    |      |
| 10     | BALITNAK CIAWI           | 24                               | 20  | 35  | 40                | 16                      | 0   | 16  | 0  | 10  |     | 4       |    |       |    |      |
| 11     | STPP MALANG              | 15                               | 2   | 35  | 8                 | 35                      | 0   | 6   | 0  |     |     |         |    |       |    |      |
| JUMLAH |                          | 500                              | 511 | 900 | 1000              | 662                     | 15  | 372 | 15 | 52  | 100 | 17      | 41 | 3     | 20 |      |



# Sapi Belgian Blue Jantan Hasil TE Pertama di Asia Tenggara “ Gatot Kaca ”

| No | Kode ternak | Jenis Kelamin | Resipien | Tgl Lahir       | Berat lahir | BB (29 Jan '18) | ADG Kum |
|----|-------------|---------------|----------|-----------------|-------------|-----------------|---------|
| 1  | BB-A        | Jantan        | FH       | 30 Januari 2017 | 62.5 kg     | 377             | 0.86    |





# Sapi Belgian Blue Betina Hasil TE “Srikandi”

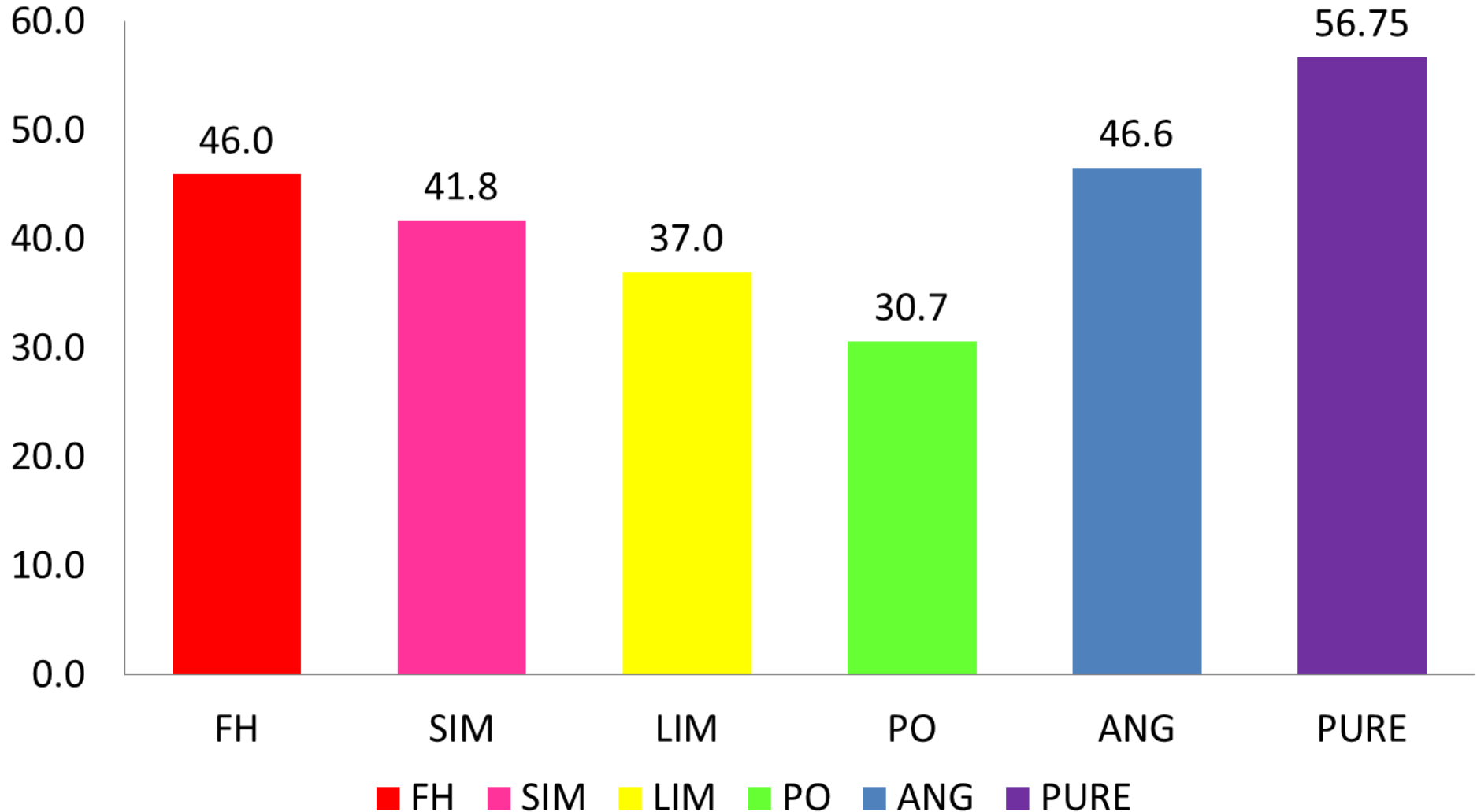
| No | Kode ternak | Jenis Kelamin | Resipien | Tgl Lahir        | Berat lahir | BB (29 Jan '18) | ADG Kum |
|----|-------------|---------------|----------|------------------|-------------|-----------------|---------|
| 1  | BB-B        | Betina        | Limousin | 09 Desember 2017 | 51 kg       | 74.5            | 0.44    |



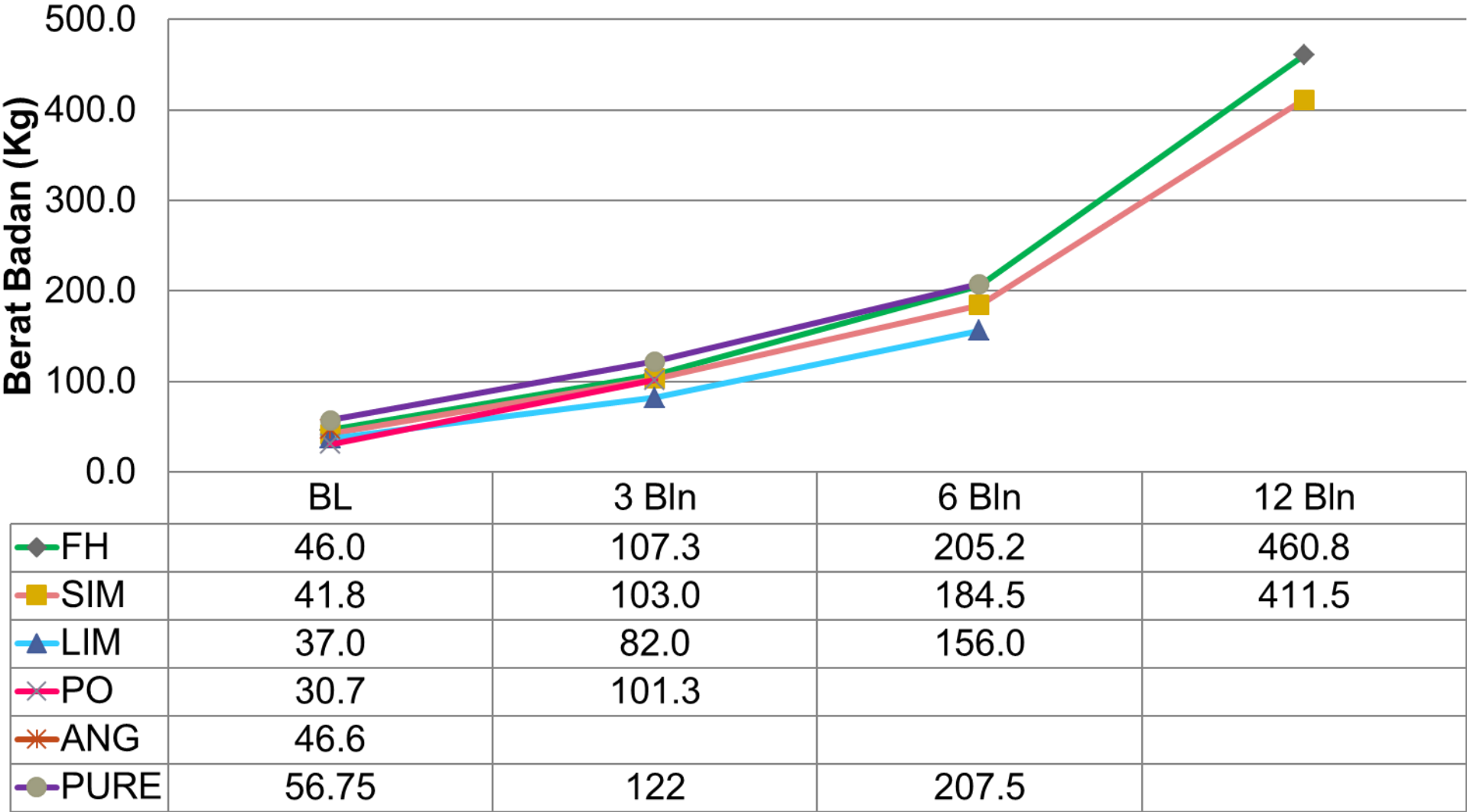
# Data Perkembangan Sapi BB Persilangan (Hasil IB)

| No | Kode ternak | Jenis Kelamin | Akseptor | Tgl Lahir | Berat lahir | BB (29 Jan'18) | ADG Kum |
|----|-------------|---------------|----------|-----------|-------------|----------------|---------|
| 1  | BB-1        | jantan        | FH       | 30-Oct-16 | 45          | 536.5          | 1.07    |
| 2  | BB-2        | betina        | FH       | 9-Dec-16  | 43          | 427            | 0.92    |
| 3  | BB-3        | betina        | FH       | 16-Dec-16 | 43          | 408            | 0.89    |
| 4  | BB-4        | jantan        | FH       | 1-Jan-17  | 55          | 481            | 1.08    |
| 5  | BB-5        | betina        | SIM      | 24-Jan-17 | 47          | 439            | 1.05    |
| 6  | BB-6        | betina        | SIM      | 28-Jan-17 | 42          | 384            | 0.93    |
| 7  | BB-7        | betina        | LIM      | 22-Mar-17 | 36          | 298.5          | 0.83    |
| 8  | BB-8        | jantan        | LIM      | 30-Mar-17 | 34          | 349            | 1.02    |
| 9  | BB-9        | betina        | SIM      | 5-Apr-17  | 38          | 345.5          | 1.02    |
| 10 | BB-10       | jantan        | FH       | 16-May-17 | 38          | 279            | 0.92    |
| 11 | BB-11       | betina        | PO       | 10-Sep-17 | 29          | 143.5          | 0.8     |
| 12 | BB-12       | betina        | PO       | 13-Sep-17 | 28.5        | 107            | 0.57    |
| 13 | BB-13       | jantan        | LIM      | 13-Jan-18 | 41          |                |         |
| 14 | BB-14       | Jantan        | Ang      | 14-Jan-18 | 46.6        |                |         |
| 15 | BB-15       | betina        | PO       | 20-Jan-18 | 27.1        |                |         |
| 16 | BB-16       | jantan        | PO       | 29-Jan-18 | 37          |                |         |
| 17 | BB-17       | betina        | PO       | 17-Feb-18 | 32          |                |         |
| 18 | BB-18       | jantan        | PO       | 21-Feb-18 | 30          |                |         |
| 19 | BB-19       | jantan        | PO       | 3/3/2018  | 31.1        |                |         |

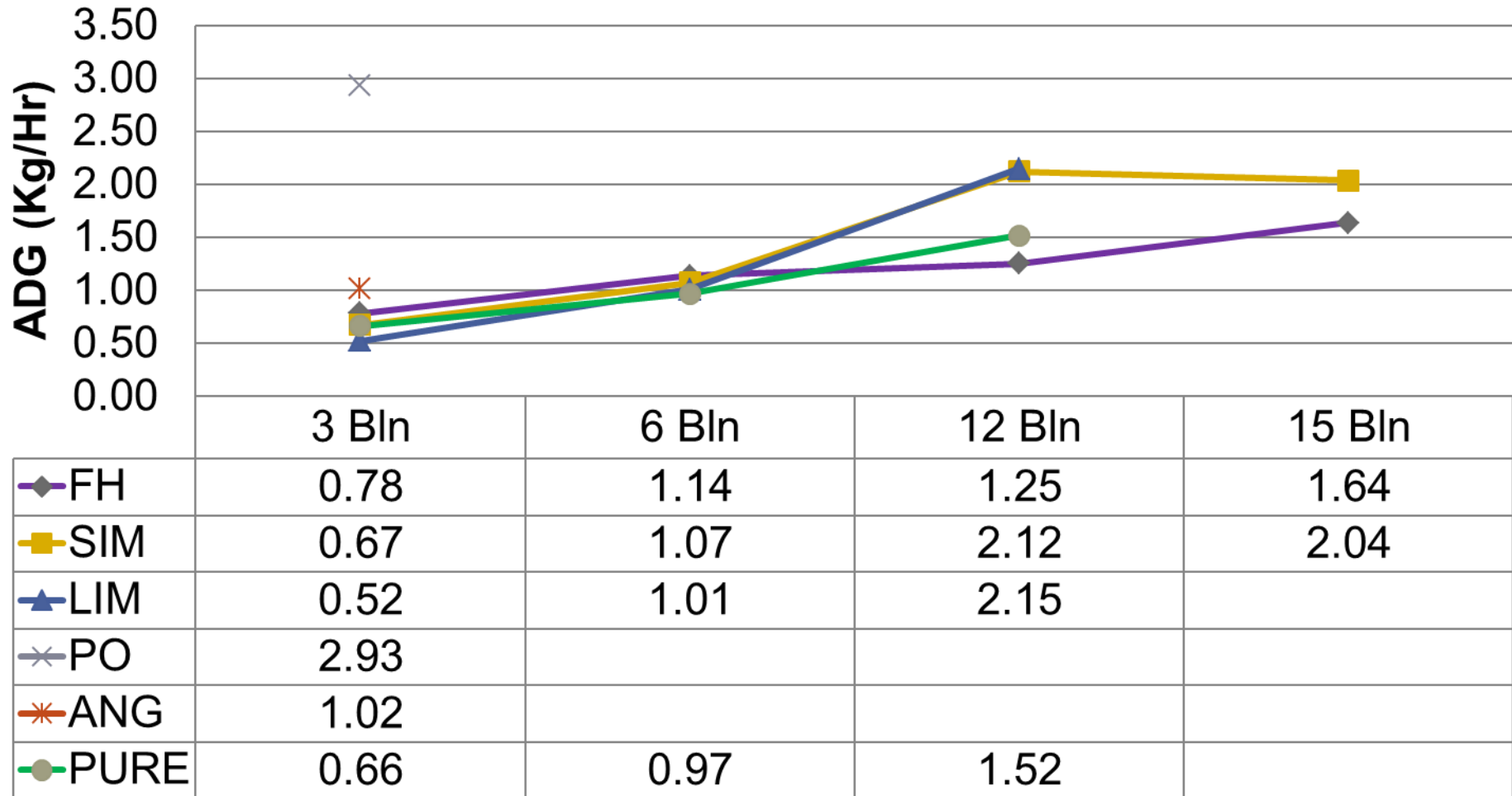
# RATA-RATA BERAT LAHIR SAPI KETURUNAN BELGIAN BLUE



# GRAFIK RATA-RATA BERAT BADAN SAPI KETURUNAN BB



# GRAFIK RATA-RATA PERTAMBAHAN BERAT BADAN HARIAN SAPI KETURUNAN BB





# BEBERAPA POLA WARNA SAPI PERSILANGAN BB DI BET CIPELANG

BB >< FH





# BB >< SIMMENTAL



# BB >< LIMOUSIN





**BB >< ANGUS**



**BB >< PO**





## Perbandingan Harga Embrio dan Sapi bibit (BB >< Bangsa Lainnya)

1. Untuk menghasilkan 1 ekor anak hasil TE, dengan asumsi keberhasilan 30%

| No           | Uraian                            | Jml | Sat   | Belgian Blue      |                   | Sim, Lim, Ang, Brh, FH, Brg, Wgy |            |
|--------------|-----------------------------------|-----|-------|-------------------|-------------------|----------------------------------|------------|
|              |                                   |     |       | Harga Satuan (Rp) | Total (Rp)        | Harga Satuan (Rp)                | Total (Rp) |
| 1            | Embrio                            | 3   | Straw | 11,000,000        | 33,000,000        | 8,400,000                        | 25,200,000 |
| 2            | Operasional Pelaksanaan           | 3   | Straw | 300,000           | 900,000           | 300,000                          | 900,000    |
| 3            | Biaya Pemeliharaan sd -+ 18 Bulan | 540 | Hari  | 30,000            | 16,200,000        | 30,000                           | 16,200,000 |
| <b>TOTAL</b> |                                   |     |       |                   | <b>50,100,000</b> | <b>42,300,000</b>                |            |

2. Impor sapi donor dan bull

| No | Uraian     | Jml | Sat  | Harga Satuan      |                                  |
|----|------------|-----|------|-------------------|----------------------------------|
|    |            |     |      | Belgian Blue      | Sim, Lim, Ang, Brh, FH, Brg, Wgy |
| 1  | Sapi Donor | 1   | Ekor | Rp. 120,000,000,- | Rp. 97,500,000,-                 |
| 2  | Sapi Bull  | 1   | Ekor | Rp. 175,000,000,- | Rp. 140,000,000,-                |

Impor Embrio jauh lebih murah dibandingkan dengan impor sapi hidup dari negara asalnya

Sapi hasil TE Belgian Blue betina → redonor sedangkan jantan → pejantan

1. Embrio Sapi Belgian Blue → 5 embrio x 5 kali x 5 tahun x Rp 600.000,- = Rp. 75.000.000,-

2. Semen Beku Belgian Blue → 20.000 dosis x 5 tahun x Rp. 7.000,- = Rp. 700.000.000,-

**TOTAL = Rp. 775.000.000,-**

**Mampu menyumbang pendapatan negara sebesar Rp. 775.000.000,- untuk 1 ekor donor dan 1 ekor bull Belgian Blue**

Jika melakukan Impor Embrio dan Semen Beku Belgian Blue :

1. Embrio Sapi Belgian Blue : 125 embrio x Rp 11.000.000,- = Rp. 1.375.000.000,-

2. Semen Beku Belgian Blue : 100.000 dosis x Rp. 450.000,- = Rp. 45.000.000.000,-

**TOTAL = Rp. 46.375.000.000,-**

Sehingga akan **menghemat devisa negara** sebanyak **Rp. 45.600.000.000**

→ Rp. 46.375.000.000,- (-) Rp. 775.000.000,-



Kementerian Pertanian - Direktorat Jendral Peternakan dan Kesehatan Hewan  
**BALAI EMBRIO TERNAK**  
CIPELANG - BOGOR

*"It's Me for Breeding"*



## Social Media



Balai Embrio Ternak Cipelang



@BETCipelang



Bet Cipelang



balaiembrioternak



08111148878

### Balai Embrio Ternak - Cipelang

Kp. Pasir Pogor, Desa Cipelang  
Kec. Cijeruk, Kab. Bogor, Jawa Barat  
Email: bet.cipelang@pertanian.go.id  
Tel/Fax: (0251) 8211 555, 8211 988

### Manajemen Mutu ISO 9001:2015



Kami telah menerapkan Sistem  
Manajemen Mutu ISO 9001:2015  
Certificate Number:  
824 100 11005

### Social Media & Chat

@BETCipelang  
 @BETCipelang  
 0811 1148 878  
 balaiembrioternak  
 Balai Embrio Ternak Cipelang

**koordinat**  
Cijeruk, Bogor, Jawa Barat 16740  
-6.706810, 106.771535



**RUTE**



Ramayana BTM Batutulis Cihideung Warso Durlan BET CIPELANG

5 km 4 km 2 km 3 km

Untuk Pengguna angkot, Gunakan Angkot 04 Jurusan Ramayana-Cihideung, naik di Ramayana "BTM (sekarang)", berhenti di terminal cijeruk, dilanjut dengan ojek menuju BET Cipelang



Dari Jakarta

via Tol

Bogor

DURIAN WARSO

Jl Cihideung

Jl Pasir Pogor

via Tol

Ciawi

Caringin

Dari Sukabumi

**GUNUNG SALAK**

# Dimana BET Cipelang







TERIMA  
KASIH

