

# **Illicit Cigarettes Study (ICS) In Malaysia, July 2024 Report**

Report Commissioned by CMTM member companies



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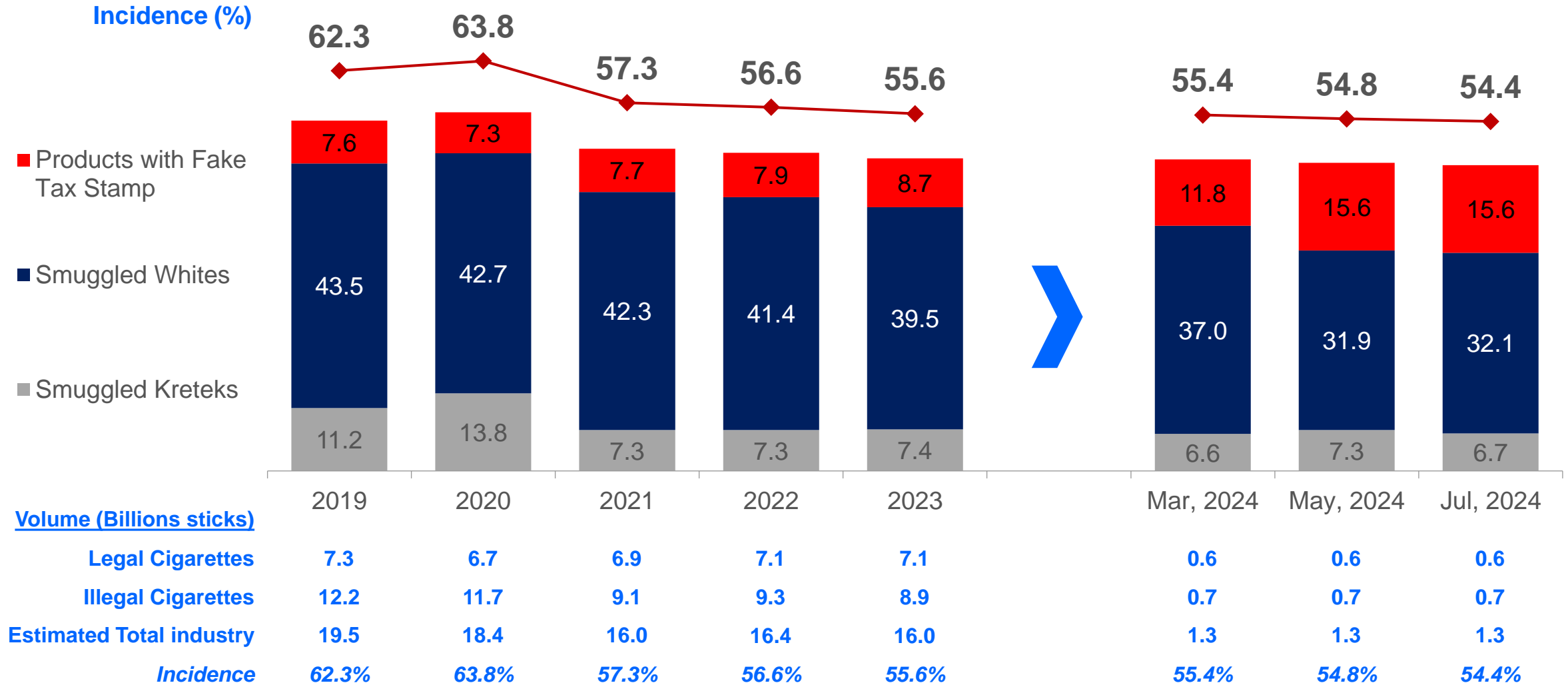
# Illegal Cigarettes Criteria For Verification

Packs with at least one (1) of the following features:

1. Absence of Registered Importers
2. Unregistered Importers\*
3. Absence of Registered Manufacturers
4. Unregistered Manufacturers\*
5. Packs with counterfeit (fake) Malaysian tax stamp\*\*
6. Packs without Malaysian tax stamp
7. Packs with non-Malaysian tax stamp
8. Unregistered Brand\*
9. Non Compliance to Ministry of Health's Control of Tobacco Product Regulations (CTPR) 2004
  - I. Absence or Non Compliance of Pictorial Health Warning Requirements
  - II. Pack Size other than 20 sticks
  - III. Absence or Non Compliance of mandated labeling requirements

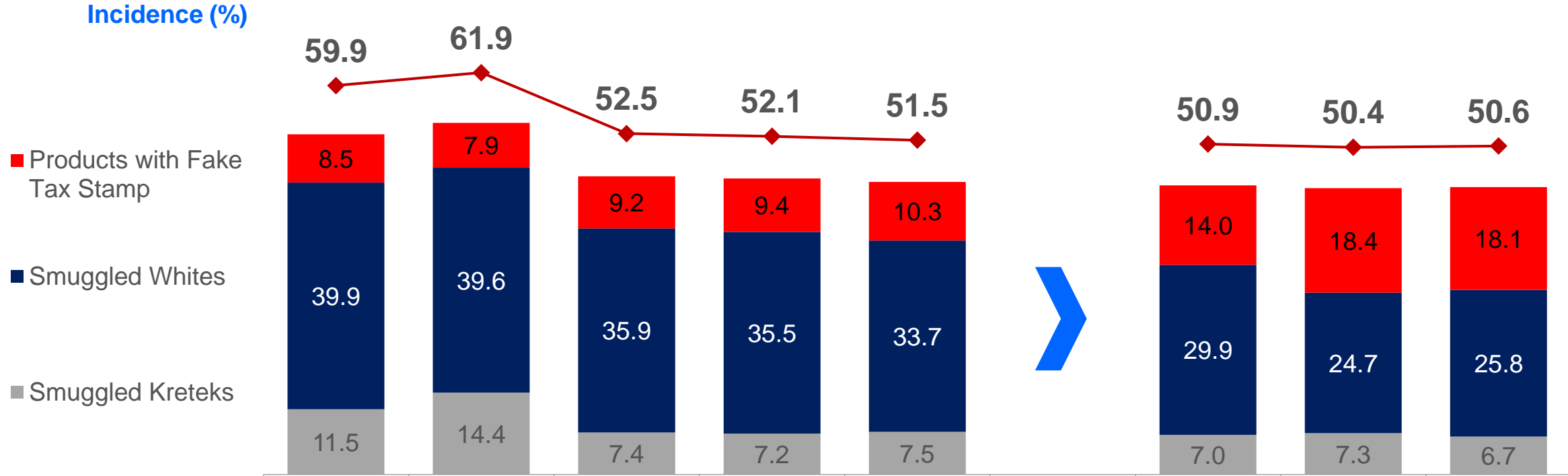
# Illegal Cigarettes Incidence At National Level :

Overall decrease by 0.4 ppt. vs. May, 2024



# Illegal Cigarettes Incidence In Pen. Malaysia :

Overall increase by 0.2 ppt. vs. May, 2024



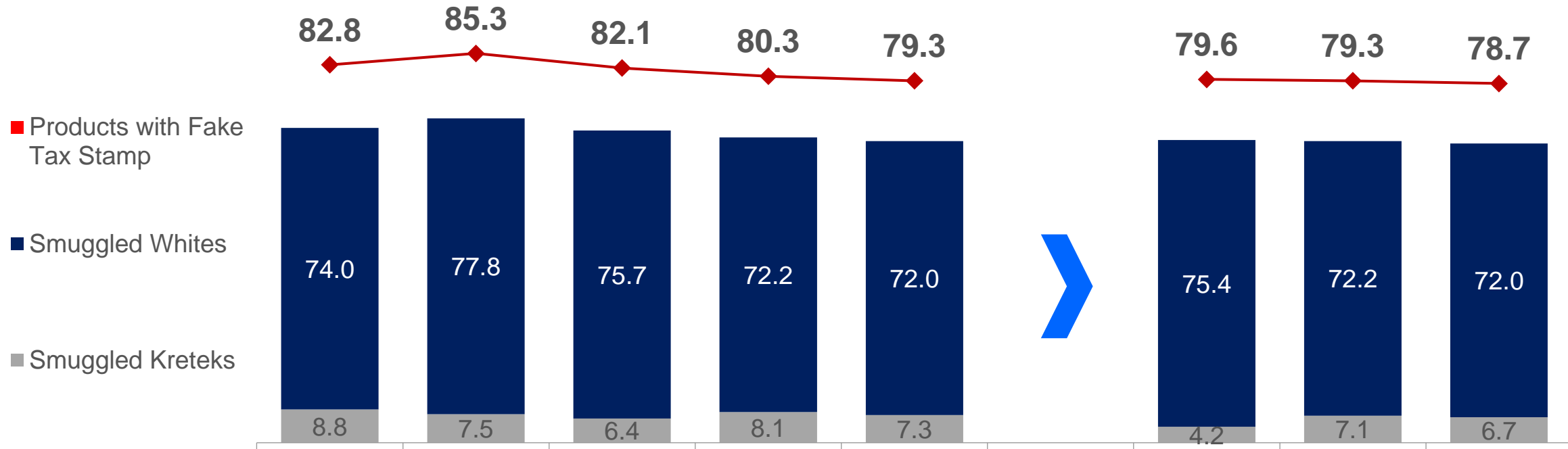
**Volume (Billions sticks)**

|                          | 2019         | 2020         | 2021         | 2022         | 2023         | Mar, 2024    | May, 2024    | Jul, 2024    |
|--------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Legal Cigarettes         | 7.0          | 6.5          | 6.4          | 6.6          | 6.6          | 0.52         | 0.53         | 0.54         |
| Illegal Cigarettes       | 10.5         | 10.4         | 7.0          | 7.2          | 7.0          | 0.54         | 0.54         | 0.55         |
| Estimated Total industry | 17.5         | 16.9         | 13.4         | 13.8         | 13.6         | 1.06         | 1.07         | 1.09         |
| <b>Incidence</b>         | <b>59.9%</b> | <b>61.9%</b> | <b>52.5%</b> | <b>52.1%</b> | <b>51.5%</b> | <b>50.9%</b> | <b>50.4%</b> | <b>50.6%</b> |

# Illegal Cigarettes Incidence In East Malaysia :

Overall decrease by 0.6 ppt. vs. May, 2024

Incidence (%)



Volume (Billions sticks)

|                          | 2019  | 2020  | 2021  | 2022  | 2023  | Mar, 2024 | May, 2024 | Jul, 2024 |
|--------------------------|-------|-------|-------|-------|-------|-----------|-----------|-----------|
| Legal Cigarettes         | 0.3   | 0.2   | 0.5   | 0.5   | 0.5   | 0.04      | 0.04      | 0.04      |
| Illegal Cigarettes       | 1.7   | 1.3   | 2.1   | 2.1   | 1.9   | 0.16      | 0.15      | 0.13      |
| Estimated Total industry | 2.0   | 1.5   | 2.6   | 2.6   | 2.4   | 0.20      | 0.19      | 0.17      |
| Incidence                | 82.8% | 85.3% | 82.1% | 80.3% | 79.3% | 79.6%     | 79.3%     | 78.7%     |

# Top 10 Illegal Cigarettes Brands\*

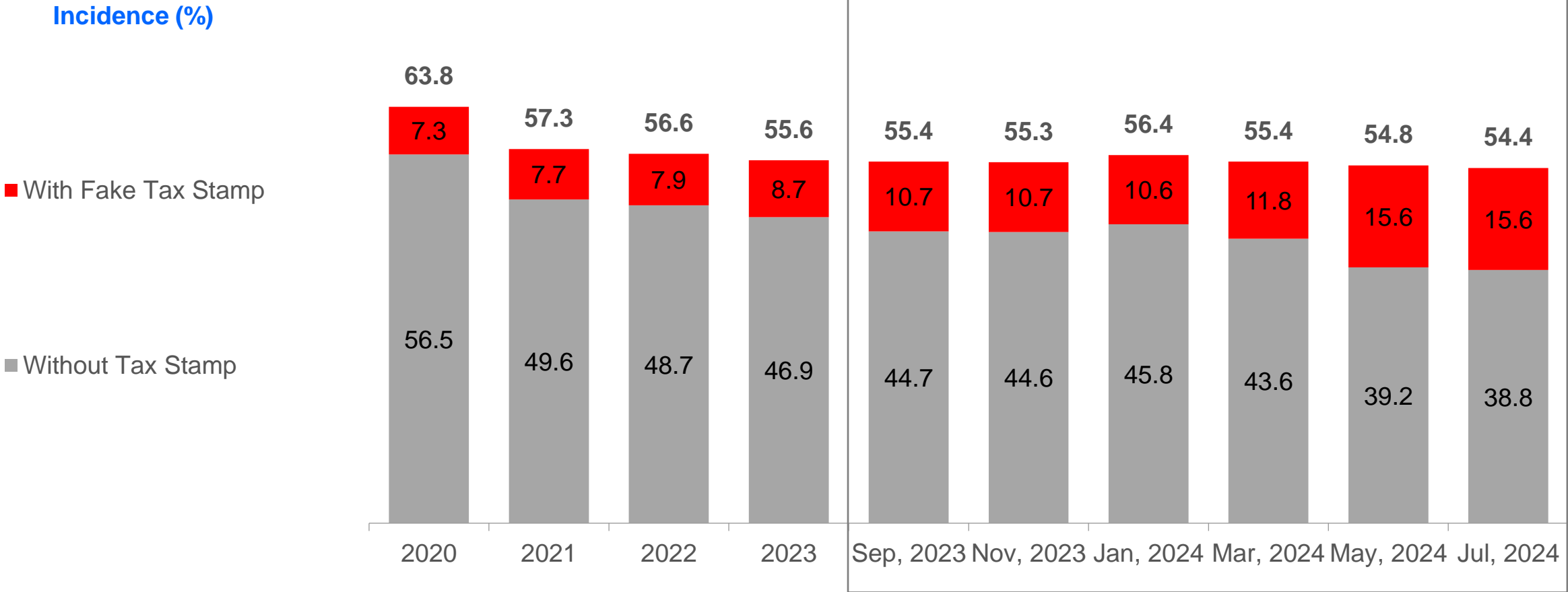
They account for approximately 75% of illegal cigarettes volume

|                        |              | Jul 2024    | May 2024    | 2023        |
|------------------------|--------------|-------------|-------------|-------------|
|                        |              | SOM         | SOM         | SOM         |
| Illegal Brand          |              | (%)         | (%)         | (%)         |
| 1.                     | John         | 12.2        | 10.9        | 13.7        |
| 2.                     | Era          | 6.7         | 8.3         | 7.4         |
| 3.                     | Canyon       | 3.9         | 3.4         | 5.6         |
| 4.                     | Bosston*     | 3.2         | 3.3         | 1.7         |
| 5.                     | Misto*       | 2.9         | 2.3         | 1.4         |
| 6.                     | Gudang Garam | 2.8         | 2.9         | 4.2         |
| 7.                     | L.A.         | 2.8         | 2.6         | 2.3         |
| 8.                     | Concept*     | 2.6         | 2.3         | 0.8         |
| 9.                     | U2           | 2.5         | 2.0         | 4.4         |
| 10.                    | Parkway      | 1.3         | 1.1         | 1.5         |
| <b>Top 10 Total</b>    |              | <b>40.9</b> | <b>39.1</b> | <b>43.0</b> |
| <i>Other Illegal</i>   |              | 1.35        | 15.7        | 12.6        |
| <b>Total Illegal %</b> |              | <b>54.4</b> | <b>54.8</b> | <b>55.6</b> |



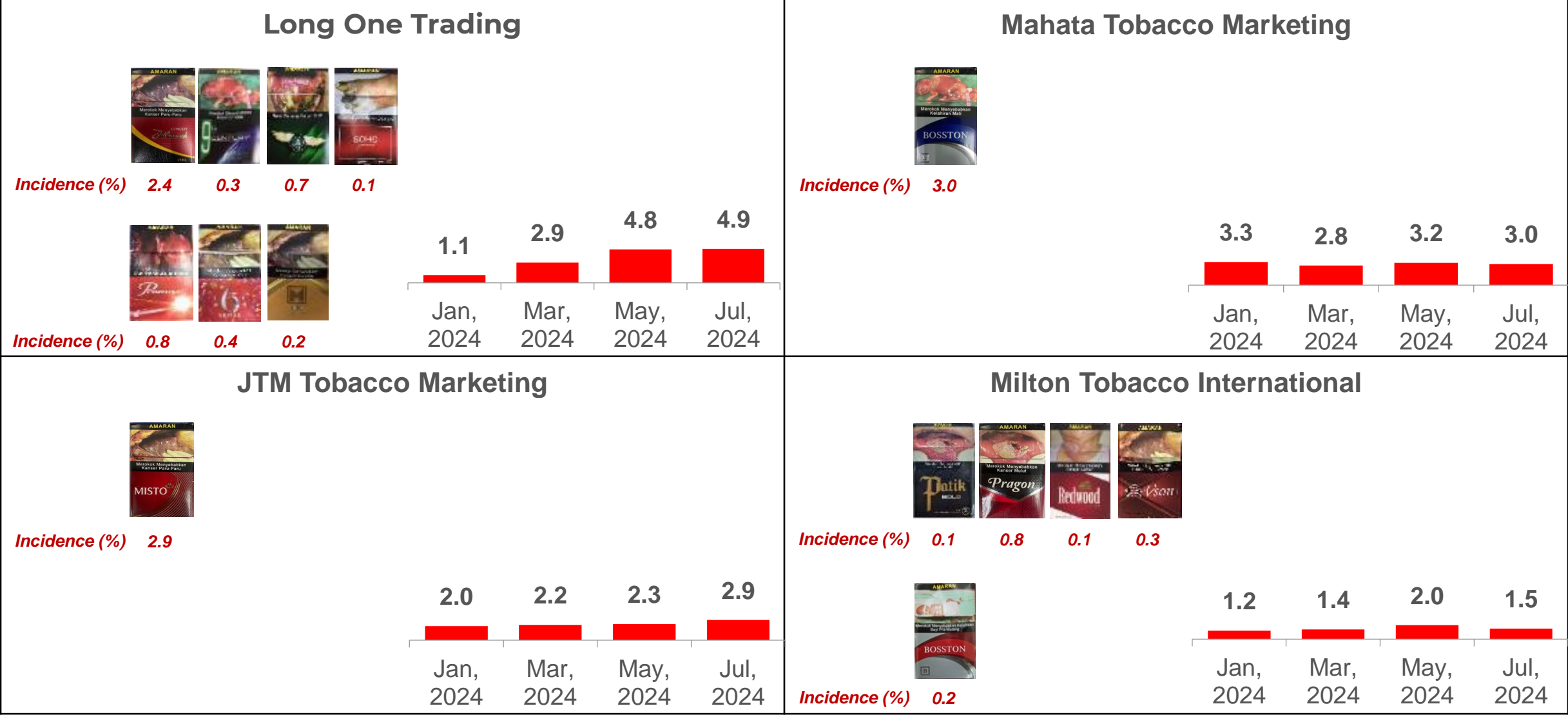
# Tax Stamp Breakdown Of Illegal Cigarettes :

- 71% of illegal cigarettes are without tax stamps while remaining 29% are with fake tax stamps



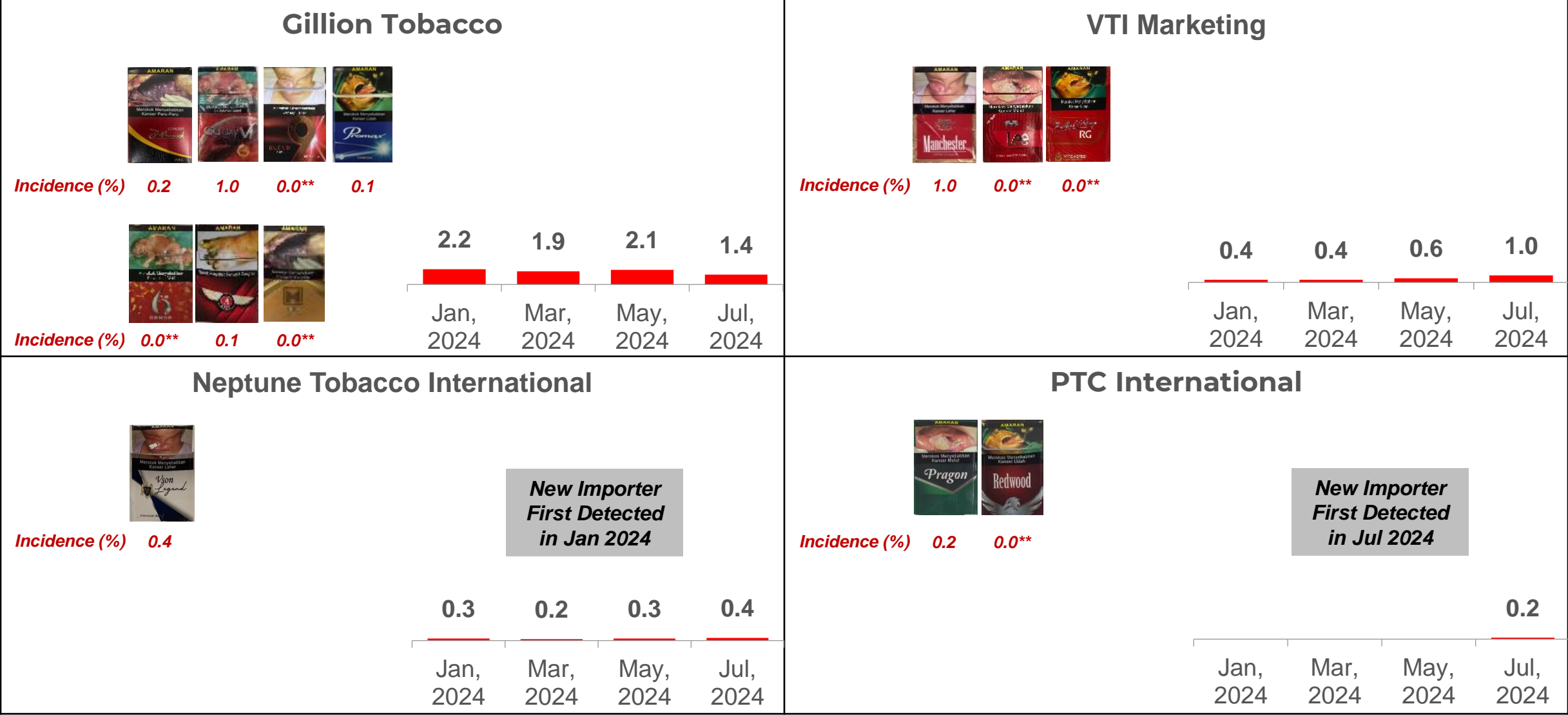


# Fake Tax Stamp Breakdown By Importers :







0.0%\*\* Incidence is less than 0.1%; figure is too small to feature.

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# Fake Tax Stamp Breakdown By Importers :

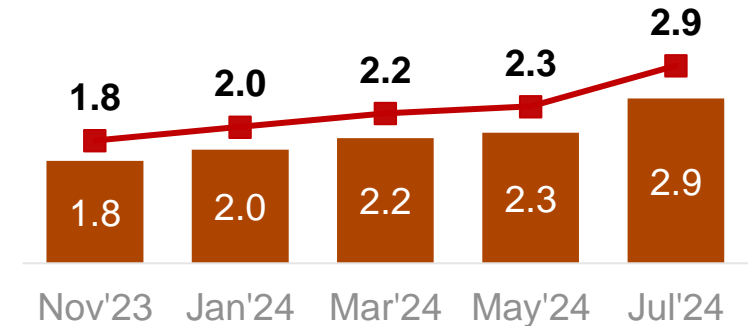
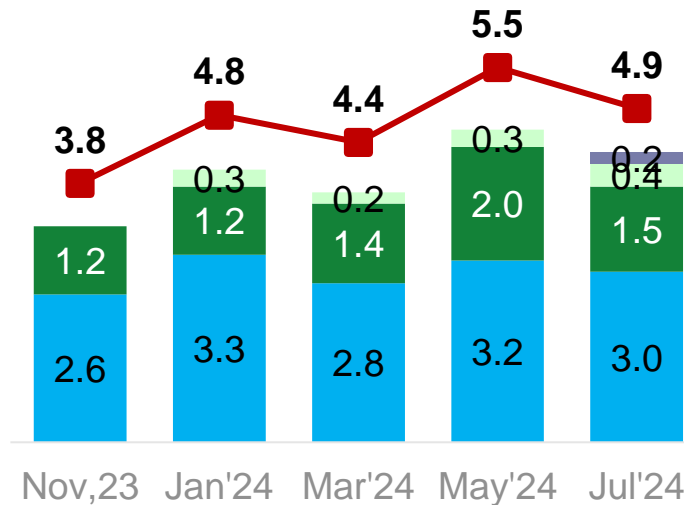
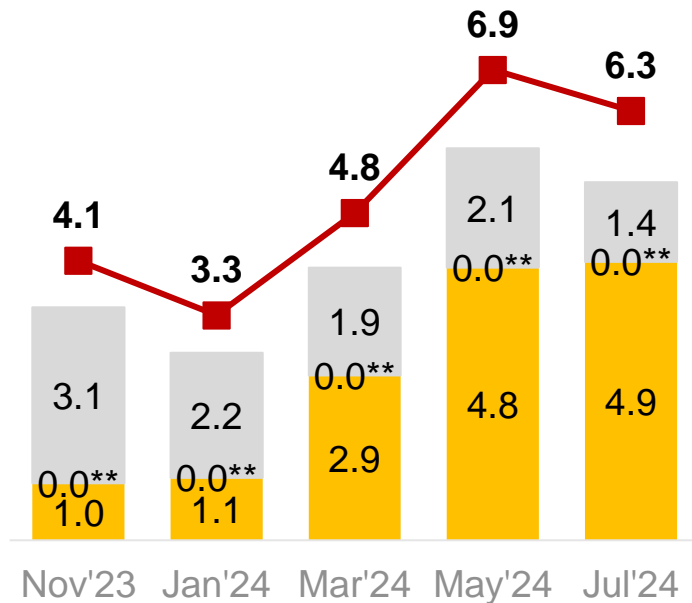
| Global 55 Resource  | Legasi Jutawan  |
|---|---|
|  <p><b>Incidence (%)</b> 0.1 0.0**</p> |  <p><b>Incidence (%)</b> 0.0**</p> |
| <p>0.0** 0.1 0.2 0.1</p>  | <p>0.0** 0.0** 0.0** 0.0**</p>  |
| <p>Jan, 2024 Mar, 2024 May, 2024 Jul, 2024</p>  | <p>Jan, 2024 Mar, 2024 May, 2024 Jul, 2024</p>  |
| Pacific Tobacco Company   | Zeno DFSC   |
|  <p><b>Incidence (%)</b> 0.0**</p>     |  <p><b>Incidence (%)</b> 0.0**</p> |
| <p>0.0** 0.0** 0.0** 0.0**</p>  | <p>0.0**</p>  |
| <p>Jan, 2024 Mar, 2024 May, 2024 Jul, 2024</p>  | <p>Jan, 2024 Mar, 2024 May, 2024 Jul, 2024</p>  |

0.0%\*\* Incidence is less than 0.1%; figure is too small to feature.

# Fake Tax Stamp Breakdown By Importers :

Incidence for packs imported by JTM Tobacco Marketing, Long One Trading and Neptune Tobacco International have increased in Jul'24

New packs with importer PTC International printed on pack detected in Jul'24



- Gillion Tobacco
- Global Tobacco Manufacturer
- Legasi Jutawan
- Long One Trading
- Total Incidence

- PTC International
- Neptune Tobacco International
- Milton Tobacco International
- Mahata Tobacco Marketing
- Total Incidence

- Azion Trade
- JTM Tobacco Marketing
- Total Incidence

# Illegal Cigarettes Incidence By State :

9 States recording an increase vs. May 2024

|                           | A<br>Jul, 2024   |                   |                    |                     | B<br>May, 2024   |                   |                    |                     | A minus B<br>Variance (Jul'2024 vs. May'2024) |                   |                    |                     | Volume<br>Contribution |
|---------------------------|------------------|-------------------|--------------------|---------------------|------------------|-------------------|--------------------|---------------------|---|-------------------|--------------------|---------------------|------------------------|
|                           | Total<br>Illegal | Fake Tax<br>Stamp | Smuggled<br>Whites | Smuggled<br>Kretrek | Total<br>Illegal | Fake Tax<br>Stamp | Smuggled<br>Whites | Smuggled<br>Kretrek | Total<br>Illegal                              | Fake Tax<br>Stamp | Smuggled<br>Whites | Smuggled<br>Kretrek | %                      |
| WP Labuan                 | 80.7             | 0.0               | 80.7               | 0.0                 | 80.0             | 0.0               | 79.6               | 0.4                 | +0.7  | 0.0               | +1.1               | -0.4                | 0%**                   |
| Sarawak                   | 78.7             | 0.1               | 67.3               | 11.3                | 79.1             | 0.0               | 69.2               | 9.9                 | -0.4  | +0.1              | -1.9               | +1.4                | 10%                    |
| Sabah                     | 78.6             | 0.0               | 76.7               | 1.9                 | 79.4             | 0.0               | 74.8               | 4.6                 | -0.8  | 0.0               | +1.9               | -2.7                | 9%                     |
| Pahang                    | 76.5             | 26.2              | 40.3               | 10.0                | 78.4             | 29.3              | 37.0               | 12.1                | -1.9  | -3.1              | +3.3               | -2.1                | 12%                    |
| Terengganu                | 74.3             | 17.5              | 50.3               | 6.5                 | 71.4             | 21.0              | 44.6               | 5.8                 | +2.9  | -3.5              | +5.7               | +0.7                | 5%                     |
| Melaka                    | 64.6             | 41.7              | 22.0               | 0.9                 | 62.4             | 35.5              | 25.4               | 1.5                 | +2.2  | +6.2              | -3.4               | -0.6                | 5%                     |
| Perlis                    | 59.9             | 15.0              | 42.4               | 2.5                 | 55.0             | 12.4              | 41.3               | 1.3                 | +4.9  | +2.6              | +1.1               | +1.2                | 1%                     |
| Kelantan                  | 57.7             | 2.4               | 55.0               | 0.3                 | 53.2             | 0.3               | 50.6               | 2.3                 | +4.5  | +2.1              | +4.4               | -2.0                | 3%                     |
| Johor                     | 50.9             | 34.8              | 14.0               | 2.1                 | 50.7             | 34.4              | 14.7               | 1.6                 | +0.2  | +0.4              | -0.7               | +0.5                | 18%                    |
| Kedah                     | 48.0             | 22.8              | 23.7               | 1.5                 | 44.1             | 22.7              | 20.8               | 0.6                 | +3.9  | +0.1              | +2.9               | +0.9                | 3%                     |
| Penang                    | 45.1             | 7.8               | 34.5               | 2.8                 | 45.7             | 9.3               | 33.1               | 3.3                 | -0.6  | -1.5              | +1.4               | -0.5                | 5%                     |
| Selangor                  | 42.5             | 5.9               | 23.7               | 12.9                | 43.2             | 6.1               | 23.3               | 13.8                | -0.7  | -0.2              | +0.4               | -0.9                | 7%                     |
| WP KL                     | 42.5             | 1.6               | 26.0               | 14.9                | 42.2             | 2.6               | 23.1               | 16.5                | +0.3  | -1.0              | +2.9               | -1.6                | 15%                    |
| WP Putrajaya              | 42.4             | 0.0               | 16.0               | 26.4                | 42.3             | 0.5               | 19.0               | 22.8                | +0.1  | -0.5              | -3.0               | +3.6                | 0%**                   |
| N.Sembilan                | 40.5             | 21.2              | 16.3               | 3.0                 | 42.3             | 21.9              | 17.0               | 3.4                 | -1.8  | -0.7              | -0.7               | -0.4                | 3%                     |
| Perak                     | 31.5             | 12.7              | 17.8               | 1.0                 | 31.9             | 13.3              | 17.8               | 0.8                 | -0.4  | -0.6              | 0.0                | +0.2                | 3%                     |
| <b>National Incidence</b> | <b>54.4</b>      | <b>15.6</b>       | <b>32.1</b>        | <b>6.7</b>          | <b>54.8</b>      | <b>15.6</b>       | <b>31.9</b>        | <b>7.3</b>          | <b>-0.4</b>                                   | <b>0.0</b>        | <b>+0.2</b>        | <b>-0.6</b>         | <b>100%</b>            |

0.0%\*\* Incidence is less than 0.1%; figure is too small to feature.

# Illegal Cigarettes Incidence By State :

7 States recording an increase vs. 2023

|                               | A<br>Jul, 2024   |                   |                    |                    | B<br>2023        |                   |                    |                    | A minus B<br>Variance (May'2024 vs. 2023) |                   |                    |                    | Volume<br>Contribution |
|-------------------------------|------------------|-------------------|--------------------|--------------------|------------------|-------------------|--------------------|--------------------|---|-------------------|--------------------|--------------------|------------------------|
|                               | Total<br>Illegal | Fake Tax<br>Stamp | Smuggled<br>Whites | Smuggled<br>Kretex | Total<br>Illegal | Fake Tax<br>Stamp | Smuggled<br>Whites | Smuggled<br>Kretex | Total<br>Illegal                          | Fake Tax<br>Stamp | Smuggled<br>Whites | Smuggled<br>Kretex | %                      |
| WP Labuan                     | 80.7             | 0.0               | 80.7               | 0.0                |                  |                   |                    |                    |   |                   |                    |                    | 0%**                   |
| Sarawak                       | 78.7             | 0.1               | 67.3               | 11.3               | 80.2             | 0.0               | 68.1               | 12.1               | -1.5                                      | +0.1              | -0.8               | -0.8               | 10%                    |
| Sabah                         | 78.6             | 0.0               | 76.7               | 1.9                | 78.4             | 0.0               | 76.2               | 2.2                | +0.2                                      | 0.0               | +0.5               | -0.3               | 9%                     |
| Pahang                        | 76.5             | 26.2              | 40.3               | 10.0               | 77.7             | 12.3              | 54.2               | 11.2               | -1.2                                      | +13.9             | -13.9              | -1.2               | 12%                    |
| Terengganu                    | 74.3             | 17.5              | 50.3               | 6.5                | 68.4             | 11.5              | 51.8               | 5.1                | +5.9                                      | +6.0              | -1.5               | +1.4               | 5%                     |
| Melaka                        | 64.6             | 41.7              | 22.0               | 0.9                | 49.2             | 27.5              | 19.1               | 2.6                | +15.4                                     | +14.2             | +2.9               | -1.7               | 5%                     |
| Perlis                        | 59.9             | 15.0              | 42.4               | 2.5                | 50.6             | 1.6               | 41.3               | 7.7                | +9.3                                      | +13.4             | +1.1               | -5.2               | 1%                     |
| Kelantan                      | 57.7             | 2.4               | 55.0               | 0.3                | 56.9             | 1.0               | 53.5               | 2.4                | +0.8                                      | +1.4              | +1.5               | -2.1               | 3%                     |
| Johor                         | 50.9             | 34.8              | 14.0               | 2.1                | 56.0             | 17.0              | 32.6               | 6.4                | -5.1                                      | +17.8             | -18.6              | -4.3               | 18%                    |
| Kedah                         | 48.0             | 22.8              | 23.7               | 1.5                | 46.4             | 6.0               | 36.7               | 3.7                | +1.6                                      | +16.8             | -13.0              | -2.2               | 3%                     |
| Penang                        | 45.1             | 7.8               | 34.5               | 2.8                | 46.8             | 8.0               | 35.7               | 3.1                | -1.7                                      | -0.2              | -1.2               | -0.3               | 5%                     |
| Selangor                      | 42.5             | 5.9               | 23.7               | 12.9               | 45.3             | 4.3               | 29.0               | 12.0               | -2.8                                      | +1.6              | -5.3               | +0.9               | 7%                     |
| WP KL                         | 42.5             | 1.6               | 26.0               | 14.9               | 41.4             | 1.1               | 30.2               | 10.1               | +1.1                                      | +0.5              | -4.2               | +4.8               | 15%                    |
| WP Putrajaya                  | 42.4             | 0.0               | 16.0               | 26.4               |                  |                   |                    |                    |   |                   |                    |                    | 0%**                   |
| N.Sembilan                    | 40.5             | 21.2              | 16.3               | 3.0                | 41.3             | 21.1              | 16.7               | 3.5                | -0.8                                      | +0.1              | -0.4               | -0.5               | 3%                     |
| Perak                         | 31.5             | 12.7              | 17.8               | 1.0                | 34.4             | 13.0              | 20.4               | 1.0                | -2.9                                      | -0.3              | -2.6               | 0.0                | 3%                     |
| <b>National<br/>Incidence</b> | <b>54.4</b>      | <b>15.6</b>       | <b>32.1</b>        | <b>6.7</b>         | <b>55.6</b>      | <b>8.7</b>        | <b>39.5</b>        | <b>7.4</b>         | <b>-1.2</b>                               | <b>+6.9</b>       | <b>-7.4</b>        | <b>-0.7</b>        | <b>100%</b>            |

0.0%\*\* Incidence is less than 0.1%; figure is too small to feature.

# Top 10 Illegal Cigarettes Brands\* For Perlis

- Volume contribution to National = 1%

|                        |                   | Jul, 2024   | May, 2024   | 2023        |
|------------------------|-------------------|-------------|-------------|-------------|
|                        |                   | SOM         | SOM         | SOM         |
| Illegal Brand          |                   | (%)         | (%)         | (%)         |
| 1.                     | John              | 36.4        | 37.5        | 33.2        |
| 2.                     | Vson*             | 9.7         | 8.9         | 0.0**       |
| 3.                     | Vess              | 3.9         | 3.4         | 5.9         |
| 4.                     | Manchester*       | 3.9         | 1.9         | 0.0**       |
| 5.                     | Gudang Garam      | 2.5         | 1.3         | 7.0         |
| 6.                     | Tiara             | 1.9         | 0.2         | 1.7         |
| 7.                     | Concept*          | 0.4         | -           | 0.0**       |
| 8.                     | Rudland & George* | 0.3         | 0.4         | -           |
| 9.                     | Redwood*          | 0.3         | 0.6         | 0.0**       |
| 10.                    | Misto*            | 0.2         | 0.5         | 1.1         |
| <b>Top 10 Total</b>    |                   | <b>59.5</b> | <b>54.7</b> | <b>48.9</b> |
| <i>Other Illegal</i>   |                   | <i>0.4</i>  | <i>0.3</i>  | <i>1.7</i>  |
| <b>Total Illegal %</b> |                   | <b>59.9</b> | <b>55.0</b> | <b>50.6</b> |



# Top 10 Illegal Cigarettes Brands\* For Kedah

- Volume contribution to National = 3%

|                        |              | Jul, 2024   | May, 2024   | 2023        |
|------------------------|--------------|-------------|-------------|-------------|
|                        |              | SOM         | SOM         | SOM         |
| Illegal Brand          |              | (%)         | (%)         | (%)         |
| 1.                     | John         | 14.3        | 12.5        | 24.6        |
| 2.                     | Vson*        | 12.8        | 12.0        | 0.8         |
| 3.                     | Vess         | 4.8         | 3.6         | 3.9         |
| 4.                     | Tiara        | 4.1         | 4.3         | 3.7         |
| 5.                     | A380*        | 3.2         | 3.5         | 1.9         |
| 6.                     | Manchester*  | 2.6         | 1.1         | 0.4         |
| 7.                     | Gudang Garam | 1.5         | 0.6         | 3.6         |
| 8.                     | Fenzo        | 1.2         | -           | -           |
| 9.                     | Misto*       | 1.0         | 2.6         | 0.3         |
| 10.                    | Promax*      | 0.7         | 0.4         | 1.0         |
| <b>Top 10 Total</b>    |              | <b>46.2</b> | <b>40.6</b> | <b>40.2</b> |
| <i>Other Illegal</i>   |              | 1.8         | 3.5         | 6.2         |
| <b>Total Illegal %</b> |              | <b>48.0</b> | <b>44.1</b> | <b>46.4</b> |





# Top 10 Illegal Cigarettes Brands\* For Penang

- Volume contribution to National = 5%

|                        |              | Jul, 2024   | May, 2024   | 2023        |
|------------------------|--------------|-------------|-------------|-------------|
|                        |              | SOM         | SOM         | SOM         |
| Illegal Brand          |              | (%)         | (%)         | (%)         |
| 1.                     | John         | 31.9        | 28.9        | 31.4        |
| 2.                     | Gudang Garam | 2.7         | 3.2         | 2.8         |
| 3.                     | Manchester*  | 2.5         | 2.6         | 2.5         |
| 4.                     | M*           | 1.0         | 1.3         | 0.6         |
| 5.                     | Tex          | 1.0         | 1.1         | 1.0         |
| 6.                     | Pragon*      | 0.8         | 1.0         | 1.0         |
| 7.                     | Concept*     | 0.8         | 1.3         | 0.9         |
| 8.                     | Forman*      | 0.8         | 1.3         | 0.3         |
| 9.                     | A380*        | 0.6         | 0.3         | 0.7         |
| 10.                    | Luffman      | 0.5         | 1.3         | 0.4         |
| <b>Top 10 Total</b>    |              | <b>42.6</b> | <b>42.3</b> | <b>41.6</b> |
| <i>Other Illegal</i>   |              | 2.5         | 3.4         | 5.2         |
| <b>Total Illegal %</b> |              | <b>45.1</b> | <b>45.7</b> | <b>46.8</b> |



# Top 10 Illegal Cigarettes Brands\* For Perak

- Volume contribution to National = 3%

|                        |                          | Jul, 2024   | May, 2024   | 2023        |
|------------------------|--------------------------|-------------|-------------|-------------|
|                        |                          | SOM         | SOM         | SOM         |
| Illegal Brand          |                          | (%)         | (%)         | (%)         |
| 1.                     | John                     | 11.2        | 11.3        | 12.3        |
| 2.                     | D&J                      | 3.3         | 2.9         | 3.7         |
| 3.                     | 9 <sup>th</sup> Century* | 3.1         | 3.0         | 1.7         |
| 4.                     | Misto*                   | 2.5         | 3.1         | 1.7         |
| 5.                     | Concept*                 | 2.2         | 1.6         | 2.2         |
| 6.                     | Canyon                   | 1.5         | 1.0         | 1.8         |
| 7.                     | Manchester*              | 1.3         | 0.9         | 1.8         |
| 8.                     | Gudang Garam             | 0.9         | 0.8         | 0.7         |
| 9.                     | A380*                    | 0.5         | 0.2         | 0.3         |
| 10.                    | Forman*                  | 0.5         | 0.8         | 0.3         |
| <b>Top 10 Total</b>    |                          | <b>27.0</b> | <b>25.6</b> | <b>26.5</b> |
| <i>Other Illegal</i>   |                          | 4.5         | 6.3         | 7.9         |
| <b>Total Illegal %</b> |                          | <b>31.5</b> | <b>31.9</b> | <b>34.4</b> |



# Top 10 Illegal Cigarettes Brands\* For Selangor

- Volume contribution to National = 15%

|                        |              | Jul, 2024   | May, 2024   | 2023        |
|------------------------|--------------|-------------|-------------|-------------|
|                        |              | SOM         | SOM         | SOM         |
| Illegal Brand          |              | (%)         | (%)         | (%)         |
| 1.                     | John         | 9.7         | 8.0         | 10.9        |
| 2.                     | L.A.         | 7.3         | 6.7         | 4.8         |
| 3.                     | Canyon       | 5.8         | 3.9         | 4.9         |
| 4.                     | Gudang Garam | 4.7         | 4.8         | 6.3         |
| 5.                     | U2           | 4.3         | 3.7         | 7.0         |
| 6.                     | Luffman      | 2.9         | 3.2         | 3.1         |
| 7.                     | Misto*       | 1.4         | 1.2         | 0.9         |
| 8.                     | A380*        | 1.3         | 1.6         | 1.4         |
| 9.                     | Bosston*     | 1.0         | 0.8         | 0.5         |
| 10.                    | 6th Sense*   | 0.7         | 0.6         | 0.5         |
| <b>Top 10 Total</b>    |              | <b>39.1</b> | <b>34.5</b> | <b>40.3</b> |
| <i>Other Illegal</i>   |              | <i>3.4</i>  | <i>8.7</i>  | <i>5.0</i>  |
| <b>Total Illegal %</b> |              | <b>42.5</b> | <b>43.2</b> | <b>45.3</b> |



# Top 10 Illegal Cigarettes Brands\* For WP KL

- Volume contribution to National = 7%

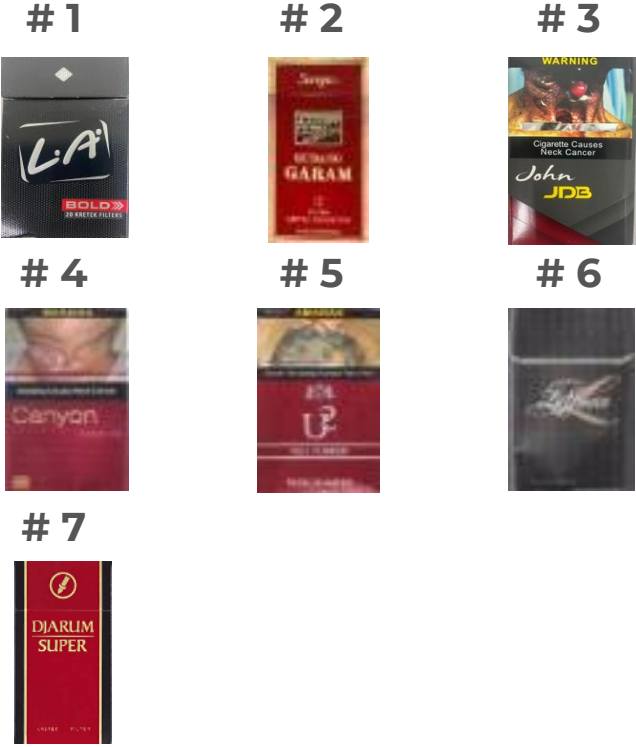
|                        |              | Jul, 2024   | May, 2024   | 2023        |
|------------------------|--------------|-------------|-------------|-------------|
|                        |              | SOM         | SOM         | SOM         |
| Illegal Brand          |              | (%)         | (%)         | (%)         |
| 1.                     | John         | 9.2         | 7.8         | 11.0        |
| 2.                     | L.A.         | 9.0         | 9.3         | 5.0         |
| 3.                     | Canyon       | 7.9         | 4.6         | 3.9         |
| 4.                     | U2           | 5.5         | 3.8         | 7.3         |
| 5.                     | Gudang Garam | 5.2         | 4.9         | 4.4         |
| 6.                     | Luffman      | 2.9         | 4.0         | 4.4         |
| 7.                     | Concept*     | 0.6         | 0.4         | 0.2         |
| 8.                     | Bosston*     | 0.4         | 0.7         | 0.2         |
| 9.                     | Zon King     | 0.3         | 2.7         | 3.2         |
| 10.                    | Sampoerna    | 0.3         | 1.4         | 0.6         |
| <b>Top 10 Total</b>    |              | <b>41.3</b> | <b>39.6</b> | <b>40.2</b> |
| <i>Other Illegal</i>   |              | 1.2         | 2.6         | 1.2         |
| <b>Total Illegal %</b> |              | <b>42.5</b> | <b>42.2</b> | <b>41.4</b> |



# Top 7 Illegal Cigarettes Brands\* For WP Putrajaya

• Volume contribution to National = 0%\*\*

|                        |              | Jul, 2024   | May, 2024   | 2023 |
|------------------------|--------------|-------------|-------------|------|
|                        |              | SOM         | SOM         | SOM  |
| Illegal Brand          |              | (%)         | (%)         | (%)  |
| 1.                     | L.A.         | 17.7        | 12.0        |      |
| 2.                     | Gudang Garam | 8.5         | 10.8        |      |
| 3.                     | John         | 6.7         | 10.9        |      |
| 4.                     | Canyon       | 5.9         | 0.2         |      |
| 5.                     | U2           | 3.2         | 4.9         |      |
| 6.                     | Luffman      | 0.3         | 1.8         |      |
| 7.                     | Djarum       | 0.1         | -           |      |
| <b>Top 7 Total</b>     |              | <b>42.4</b> | <b>40.6</b> |      |
| <i>Other Illegal</i>   |              | -           | 1.7         |      |
| <b>Total Illegal %</b> |              | <b>42.4</b> | <b>42.3</b> |      |

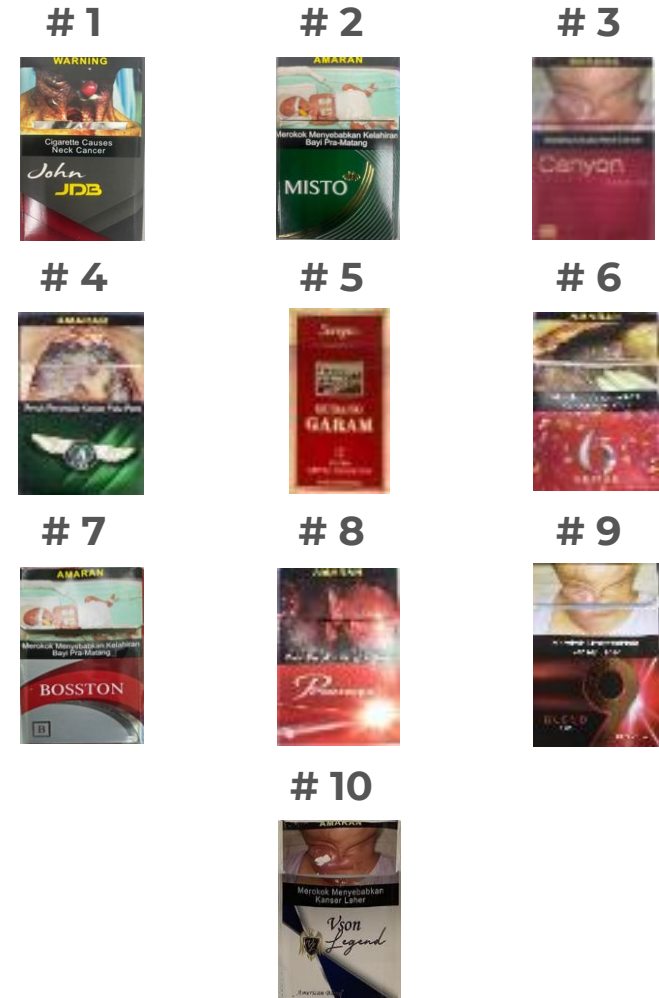


\* relates to incidence of empty packs collected that meet any of illegal cigarettes criteria in page 3, regardless whether they are a legal brand or otherwise

# Top 10 Illegal Cigarettes Brands\* For Negeri Sembilan

- Volume contribution to National = 3%

|                        |                          | Jul, 2024   | May, 2024   | 2023        |
|------------------------|--------------------------|-------------|-------------|-------------|
|                        |                          | SOM         | SOM         | SOM         |
| Illegal Brand          |                          | (%)         | (%)         | (%)         |
| 1.                     | John                     | 8.9         | 7.8         | 5.0         |
| 2.                     | Misto*                   | 8.7         | 6.1         | 6.8         |
| 3.                     | Canyon                   | 5.8         | 5.1         | 7.9         |
| 4.                     | A380*                    | 3.9         | 7.0         | 6.9         |
| 5.                     | Gudang Garam             | 2.4         | 2.9         | 3.0         |
| 6.                     | 6 <sup>th</sup> Sense*   | 2.4         | 3.0         | 2.8         |
| 7.                     | Bosston*                 | 1.4         | 0.8         | 1.0         |
| 8.                     | Promax*                  | 1.3         | 2.0         | 0.5         |
| 9.                     | 9 <sup>th</sup> Century* | 1.3         | 0.9         | 0.5         |
| 10.                    | Vson*                    | 1.0         | 0.4         | 0.1         |
| <b>Top 10 Total</b>    |                          | <b>37.1</b> | <b>36.0</b> | <b>34.5</b> |
| <i>Other Illegal</i>   |                          | <i>3.4</i>  | <i>6.3</i>  | <i>6.8</i>  |
| <b>Total Illegal %</b> |                          | <b>40.5</b> | <b>42.3</b> | <b>41.3</b> |



# Top 10 Illegal Cigarettes Brands\* For Melaka

- Volume contribution to National = 5%

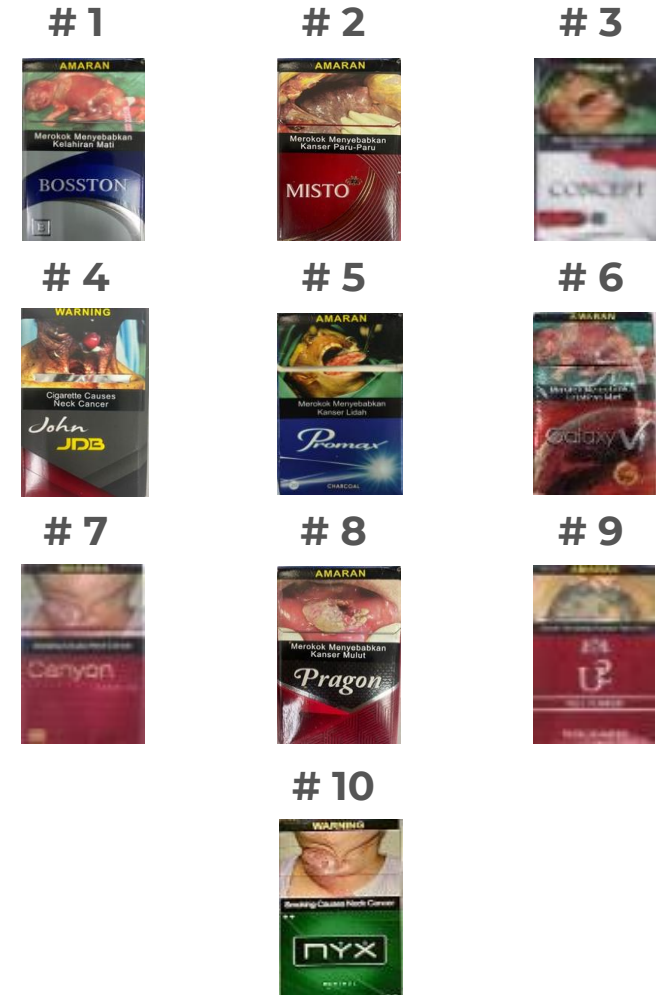
|                        |               | Jul, 2024   | May, 2024   | 2023        |
|------------------------|---------------|-------------|-------------|-------------|
|                        |               | SOM         | SOM         | SOM         |
|                        | Illegal Brand | (%)         | (%)         | (%)         |
| 1.                     | John          | 12.9        | 15.0        | 10.7        |
| 2.                     | Bosston*      | 12.4        | 14.4        | 4.9         |
| 3.                     | Misto*        | 11.7        | 6.7         | 4.1         |
| 4.                     | Canyon        | 8.7         | 9.8         | 7.7         |
| 5.                     | Manchester*   | 6.8         | 1.3         | 2.9         |
| 6.                     | Galaxy*       | 4.1         | 5.0         | 0.8         |
| 7.                     | Pragon*       | 3.9         | 4.0         | 1.3         |
| 8.                     | Concept*      | 1.2         | 0.7         | 0.7         |
| 9.                     | Gudang Garam  | 0.6         | 0.7         | 2.2         |
| 10.                    | SOHO*         | 0.6         | 1.4         | 7.6         |
| <b>Top 10 Total</b>    |               | <b>62.9</b> | <b>59.0</b> | <b>42.9</b> |
| <i>Other Illegal</i>   |               | 1.7         | 3.4         | 6.3         |
| <b>Total Illegal %</b> |               | <b>64.6</b> | <b>62.4</b> | <b>49.2</b> |



# Top 10 Illegal Cigarettes Brands\* For Johor

- Volume contribution to National = 18%

|                        |          | Jul, 2024   | May, 2024   | 2023        |
|------------------------|----------|-------------|-------------|-------------|
|                        |          | SOM         | SOM         | SOM         |
| Illegal Brand          |          | (%)         | (%)         | (%)         |
| 1.                     | Bosston* | 7.2         | 7.1         | 3.3         |
| 2.                     | Misto*   | 6.7         | 5.2         | 2.9         |
| 3.                     | Concept* | 5.3         | 2.7         | 1.3         |
| 4.                     | John     | 4.1         | 3.0         | 8.9         |
| 5.                     | Promax*  | 4.0         | 4.4         | 1.4         |
| 6.                     | Galaxy*  | 3.5         | 4.9         | 0.9         |
| 7.                     | Canyon   | 3.4         | 5.3         | 13.2        |
| 8.                     | Pragon*  | 2.4         | 2.6         | 1.2         |
| 9.                     | U2       | 2.3         | 1.9         | 5.8         |
| 10.                    | NYX      | 2.0         | 2.5         | 1.9         |
| <b>Top 10 Total</b>    |          | <b>40.9</b> | <b>39.6</b> | <b>40.8</b> |
| <i>Other Illegal</i>   |          | 8.2         | 11.1        | 15.2        |
| <b>Total Illegal %</b> |          | <b>49.1</b> | <b>50.7</b> | <b>56.0</b> |





# Top 10 Illegal Cigarettes Brands\* For Pahang

- Volume contribution to National = 12%

|                        |              | Jul, 2024   | May, 2024   | 2023        |
|------------------------|--------------|-------------|-------------|-------------|
|                        |              | SOM         | SOM         | SOM         |
| Illegal Brand          |              | (%)         | (%)         | (%)         |
| 1.                     | John         | 26.0        | 24.0        | 29.4        |
| 2.                     | Concept*     | 12.9        | 14.5        | 2.3         |
| 3.                     | Bosston*     | 10.0        | 10.8        | 7.3         |
| 4.                     | Gudang Garam | 7.4         | 8.9         | 9.4         |
| 5.                     | Canyon       | 6.9         | 5.4         | 11.7        |
| 6.                     | U2           | 6.4         | 5.6         | 11.7        |
| 7.                     | L.A.         | 1.2         | 1.4         | 0.6         |
| 8.                     | Pragon*      | 1.2         | 1.5         | 1.0         |
| 9.                     | Gajah Baru   | 0.9         | 0.9         | 0.7         |
| 10.                    | Misto*       | 0.6         | 0.6         | 0.6         |
| <b>Top 10 Total</b>    |              | <b>73.5</b> | <b>73.6</b> | <b>74.7</b> |
| <i>Other Illegal</i>   |              | 3.0         | 4.8         | 3.0         |
| <b>Total Illegal %</b> |              | <b>76.5</b> | <b>78.4</b> | <b>77.7</b> |



# Top 10 Illegal Cigarettes Brands\* For Terengganu

- Volume contribution to National = 5%

|                        |              | Jul, 2024   | May, 2024   | 2023        |
|------------------------|--------------|-------------|-------------|-------------|
|                        |              | SOM         | SOM         | SOM         |
| Illegal Brand          |              | (%)         | (%)         | (%)         |
| 1.                     | John         | 37.6        | 34.3        | 39.2        |
| 2.                     | Misto*       | 7.0         | 7.1         | 1.7         |
| 3.                     | Saat         | 5.7         | 3.9         | 4.5         |
| 4.                     | U2           | 3.4         | 2.6         | 4.2         |
| 5.                     | Gudang Garam | 3.2         | 3.2         | 4.3         |
| 6.                     | Concept*     | 3.1         | 4.1         | 1.1         |
| 7.                     | Gajah Baru   | 2.8         | 2.5         | 0.6         |
| 8.                     | Pragon*      | 2.7         | 5.0         | 4.3         |
| 9.                     | Bosston*     | 2.5         | 1.9         | 1.7         |
| 10.                    | A380*        | 0.8         | 1.4         | 0.6         |
| <b>Top 10 Total</b>    |              | <b>68.8</b> | <b>66.0</b> | <b>62.2</b> |
| <i>Other Illegal</i>   |              | 5.5         | 5.4         | 6.2         |
| <b>Total Illegal %</b> |              | <b>74.3</b> | <b>71.4</b> | <b>68.4</b> |



# Top 8 Illegal Cigarettes Brands\* For Kelantan

- Volume contribution to National = 3%

|                        |              | Jul, 2024   | May, 2024   | 2023        |
|------------------------|--------------|-------------|-------------|-------------|
|                        |              | SOM         | SOM         | SOM         |
| Illegal Brand          |              | (%)         | (%)         | (%)         |
| 1.                     | John         | 30.5        | 34.6        | 32.2        |
| 2.                     | Saat         | 24.2        | 15.8        | 17.6        |
| 3.                     | Pragon*      | 1.8         | -           | 0.1         |
| 4.                     | Concept*     | 0.6         | 0.3         | 0.8         |
| 5.                     | Gudang Garam | 0.3         | 2.3         | 2.4         |
| 6.                     | Galaxy*      | 0.2         | -           | 0.0**       |
| 7.                     | Lee*         | 0.1         | 0.2         | 0.9         |
| 8.                     | Vson*        | 0.0**       | -           | -           |
| <b>Top 8 Total</b>     |              | <b>57.7</b> | <b>53.2</b> | <b>54.0</b> |
| <i>Other Illegal</i>   |              | -           | -           | 2.9         |
| <b>Total Illegal %</b> |              | <b>57.7</b> | <b>53.2</b> | <b>56.9</b> |



# Top 2 Illegal Cigarettes Brands\* For WP Labuan

- Volume contribution to National = 0%\*\*

|                        |         | Jul, 2024   | May, 2024   | 2023 |
|------------------------|---------|-------------|-------------|------|
|                        |         | SOM         | SOM         | SOM  |
| Illegal Brand          |         | (%)         | (%)         | (%)  |
| 1.                     | Era     | 80.0        | 76.3        |      |
| 2.                     | Premium | 0.7         | 3.3         |      |
| <b>Top 2 Total</b>     |         | <b>80.7</b> | <b>79.6</b> |      |
| <i>Other Illegal</i>   |         | -           | 0.4         |      |
| <b>Total Illegal %</b> |         | <b>80.7</b> | <b>80.0</b> |      |



\* relates to incidence of empty packs collected that meet any of illegal cigarettes criteria in page 3, regardless whether they are a legal brand or otherwise



# Top 10 Illegal Cigarettes Brands\* For Sabah

- Volume contribution to National = 9%

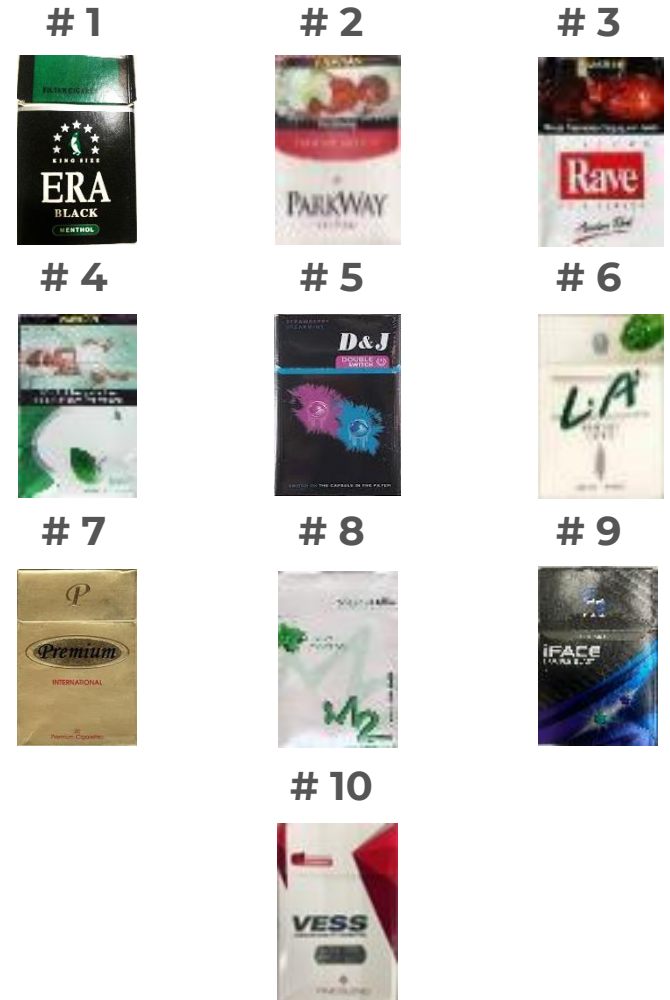
|                        |              | Jul, 2024   | May, 2024   | 2023        |
|------------------------|--------------|-------------|-------------|-------------|
|                        |              | SOM         | SOM         | SOM         |
| Illegal Brand          |              | (%)         | (%)         | (%)         |
| 1.                     | Era          | 69.9        | 72.6        | 73.1        |
| 2.                     | Premium      | 3.6         | 1.4         | 2.2         |
| 3.                     | D&J          | 2.9         | 0.6         | 0.7         |
| 4.                     | Grow         | 1.0         | 1.7         | -           |
| 5.                     | L.A.         | 0.5         | 2.0         | 1.8         |
| 6.                     | Gudang Garam | 0.3         | 0.5         | 0.1         |
| 7.                     | Lee*         | 0.3         | -           | 0.0**       |
| 8.                     | Win Mild     | 0.1         | 0.1         | 0.3         |
| 9.                     | Astro        | 0.0**       | -           | -           |
| 10.                    | Sampoerna    | 0.0**       | 0.2         | 0.0**       |
| <b>Top 10 Total</b>    |              | <b>78.6</b> | <b>79.1</b> | <b>78.2</b> |
| <i>Other Illegal</i>   |              | -           | 0.3         | 0.2         |
| <b>Total Illegal %</b> |              | <b>78.6</b> | <b>79.4</b> | <b>78.4</b> |



# Top 10 Illegal Cigarettes Brands\* For Sarawak

- Volume contribution to National = 10%

|                        |                | Jul, 2024   | May, 2024   | 2023        |
|------------------------|----------------|-------------|-------------|-------------|
|                        |                | SOM         | SOM         | SOM         |
| Illegal Brand          |                | (%)         | (%)         | (%)         |
| 1.                     | Era            | 28.7        | 34.8        | 27.3        |
| 2.                     | Parkway        | 18.5        | 15.9        | 19.1        |
| 3.                     | Rave           | 12.3        | 11.3        | 13.9        |
| 4.                     | S Super        | 6.3         | 5.6         | 1.8         |
| 5.                     | D&J            | 6.2         | 5.6         | 3.5         |
| 6.                     | L.A.           | 3.9         | 2.5         | 7.5         |
| 7.                     | Premium        | 0.6         | 0.4         | 0.7         |
| 8.                     | Master Mild M2 | 0.5         | 0.1         | 0.6         |
| 9.                     | iFACE          | 0.4         | -           | 0.0**       |
| 10.                    | Vess           | 0.3         | 0.3         | 0.5         |
| <b>Top 10 Total</b>    |                | <b>77.7</b> | <b>76.5</b> | <b>74.9</b> |
| <i>Other Illegal</i>   |                | 1.0         | 2.6         | 5.3         |
| <b>Total Illegal %</b> |                | <b>78.7</b> | <b>79.1</b> | <b>80.2</b> |



# Appendix: Nielsen's ICS Research Objective & Methodology



# Research Objectives

1

Identify the **incidence & trend** of illegal cigarettes in Malaysia & at State Level

2

Identify the **illegal brands** available in Malaysia and at State Level

3

Identify the level of **compliance vs. non-compliance** on cigarette packs

- I. Security features (Tax Stamps)
- II. Brands of Local Manufacturers and Importers registered with Royal Malaysian Customs
- III. Mandated Labeling Requirements (under Control of Tobacco Product Regulations, Trade Description Act, Price Control & Anti Profiteering Act )

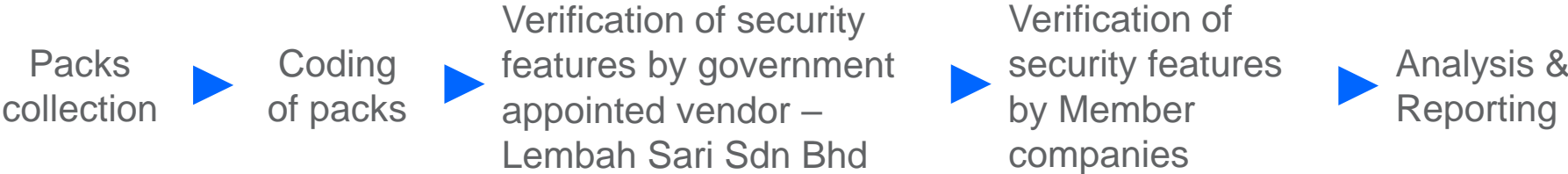


# Overview Of Study Framework

## METHODOLOGY

- Method: **Litter collection of cigarette packs.**
- Frequency: **6 waves** in a year.
- Geographical coverage: Nationwide (Pen. M'sia and Sabah & Sarawak)
- Sample size: Nationwide **21,200 packs per wave** ( Pen M'sia = A minimum of 1,200 packs per State, Sabah & Sarawak = 1,600 packs each, Putrajaya & Labuan = 400 packs each )

## PROCESS



## SAMPLING ERROR

- 0.6% at national level and minimum 5.0% at state level

# ICS Research Methodology & Design

## I. ICS Universe, Sample Size

## II. Sampling Coverage Of ICS and Fieldwork

## III. Coding Processes

## IV. Data Processing

## V. Weighting The Survey Data

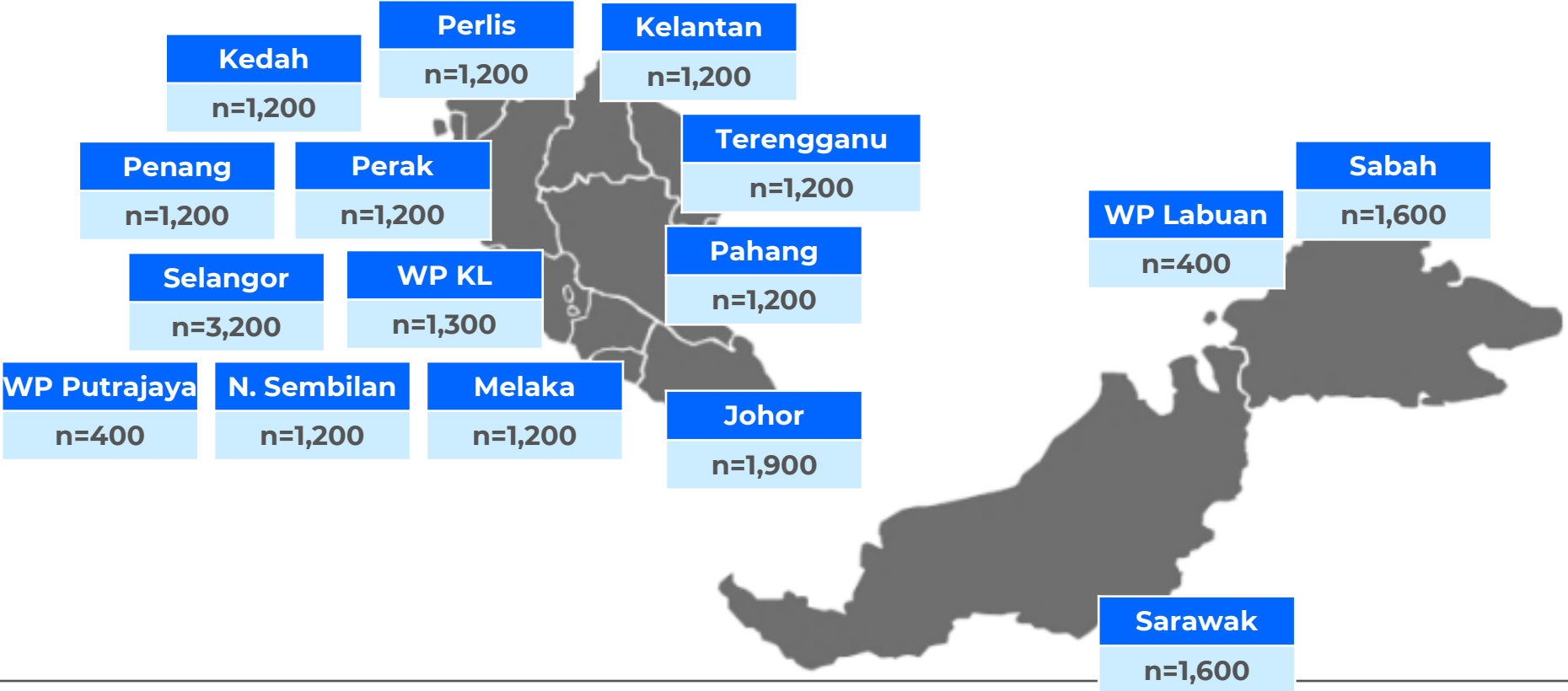
# Why Sample Size of 20,000 packs?

| Sample Size (n=) | Sampling Error @ 95% Confidence |
|------------------|---------------------------------|
| n=50             | 14.9%                           |
| n=100            | 9.9%                            |
| n=250            | 5.9%                            |
| n=500            | 4.1%                            |
| n=1,000          | 2.8%                            |
| n=2,000          | 2.0%                            |
| n=3,000          | 1.6%                            |
| n=4,000          | 1.4%                            |
| n=10,000         | 0.8%                            |
| <b>n=20,000</b>  | <b>0.6%</b>                     |
| n=50,000         | 0.4%                            |

- The data accuracy for a sample size is dependent on the sample size of a study; **Sampling error declines** as **sample size** for a study is **increased**
- To ensure minimal sampling error at **National level**, **sample size of n=20,000** was chosen
- At State level, a minimum sample size of n=1,200 was chosen to optimize data accuracy without impacting the efficiency of fieldwork turnaround time. However, n=400 for Putrajaya and Labuan due to population size consideration.

# Geographical Coverage & Sample Size For Each State

- State in Pen Malaysia, minimum sample size n=1,200
- State in East Malaysia, sample size n=1,600
- **These sample size are robust** taking into consideration geographical landscape, different cigarettes volume pattern and efficient turnaround of fieldwork



# ICS Research Methodology & Design

I. ICS Universe, Sample Size

**II. Sampling Coverage Of ICS and Fieldwork**

III. Coding Processes

IV. Data Processing

V. Weighting The Survey Data

# Sampling Coverage of ICS

| STATE       | DISTRICT COVERED |                         |                      |
|-------------|------------------|-------------------------|----------------------|
| Perlis      | Kangar           |                         |                      |
| Kedah       | Kuala Muda       | Kota Setar              | Kulim                |
|             | Kubang Pasu      | Baling                  | Pendang              |
| Penang      | Timur Laut       | Seberang Perai Tengah   | Seberang Perai Utara |
| Perak       | Kinta            | Larut & Matang          | Manjung              |
|             | Hilir Perak      | Kerian                  |                      |
| Selangor    | Petaling         | Ulu Langat              | Klang                |
|             | Gombak           | Kuala Langat            |                      |
| WP          | Spread across KL | Spread across Putrajaya | Spread across Labuan |
| N. Sembilan | Seremban         | Jempol                  | Port Dickson         |
|             | Tampin           |                         |                      |
| Melaka      | Melaka           | Alor Gajah              |                      |
| Johor       | Johor Bahru      | Batu Pahat              | Kluang               |
|             | Kulai Jaya       | Muar                    | Kota Tinggi          |
| Pahang      | Kuantan          | Temerloh                | Bentong              |
|             | Maran            | Rompin                  | Pekan                |
| Terengganu  | Kuala Terengganu | Kemaman                 | Dungun               |
|             | Besut            |                         |                      |
| Kelantan    | Kota Bharu       | Pasir Mas               | Tumpat               |
|             | Bachok           | Tanah Merah             |                      |
| Sabah       | Kota Kinabau     | Tawau                   | Sandakan             |
|             | Lahad Datu       | Keningau                | Semporna             |
|             | Papar            | Penampang               | Beluran              |
|             | Tuaran           | Ranau                   | Kota Belud           |
| Sarawak     | Kuching          | Miri                    | Sibu                 |
|             | Bintulu          | Serian                  | Samarahan            |
|             | Sri Aman         | Sarikei                 | Kapit                |
|             | Bau              | Limbang                 | Saratok              |

- Nationwide
- All 13 states in Peninsular and East Malaysia and 3 Federal Territories
- Covers each state's **top 50% most populous** districts
- The sampling approach ensure **both Urban & Rural** coverage reflects data released by Malaysia Department of Statistic (Census 2010)

# Flow Chart For Pre-Fieldwork & Fieldwork

Establish starting point of collection



Collect 25 packs from the street each week

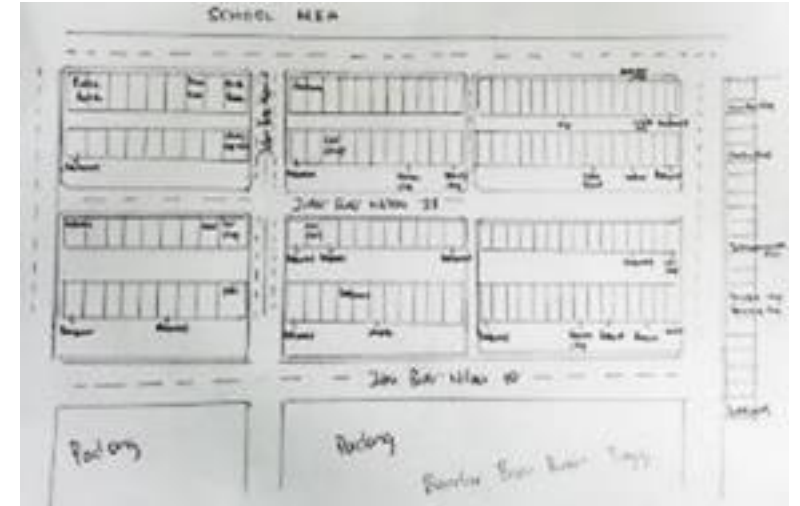


Attach label to bag: Standard label with the following:

- *State*
- *Location collected*
- *Area type*
- *Date of collection*



Packs will then be delivered to Nielsen's Head Office at KL for coding



# Guidelines For Pack Collection

- All Packs collected from the collection points must be in decent condition. If not Lembah Sari Sdn. Bhd. will not be able to validate the authenticity of a pack if the packs are so badly damaged that certain key elements are missing
- Instruction to collectors is to collect pack in decent condition.
- No instruction on brand restriction is issued (hence, [rejection of packs in poor condition applies to all](#) brands)
- As such, collectors will have no preference on the packs being collected as long as it is in decent condition
- Remuneration for packs collected are standard across all pack type / brand



*Visual Examples of Unacceptable Packs*



# ICS Research Methodology & Design

I. ICS Universe, Sample Size

II. Sampling Coverage Of ICS and Fieldwork

**III. Coding Processes**

IV. Data Processing

V. Weighting The Survey Data

# A Robust SOP For Pack Verification & Coding Process

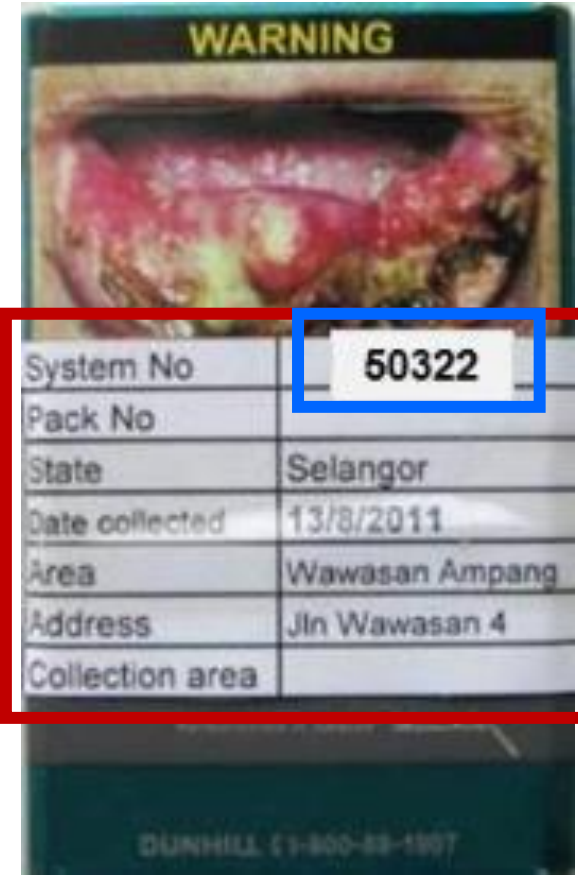
The following diagram illustrates the pack verification & coding process



# Coding & Storage Process At Nielsen HQ



1. Packs which arrive at Nielsen HQ are assigned a unique pack ID number



Pack Sample

A unique ID is assigned to each pack when it reach Nielsen HQ

Each cigarettes pack which arrive will have a sticker with details on when and where it is collected

# Coding & Storage Process At Nielsen HQ



2. Once the pack ID number is assigned, data entry process will begins. All information on the pack will be captured



3. When data entry is completed, the packs are sorted by brands and types



# Coding & Storage Process At Nielsen HQ

4. Once the sorting is complete, the cigarettes packs are stored on shelves with labeling for easy retrieval when required



# Illegal Cigarettes Criteria For Verification

Packs with at least one (1) of the following features:

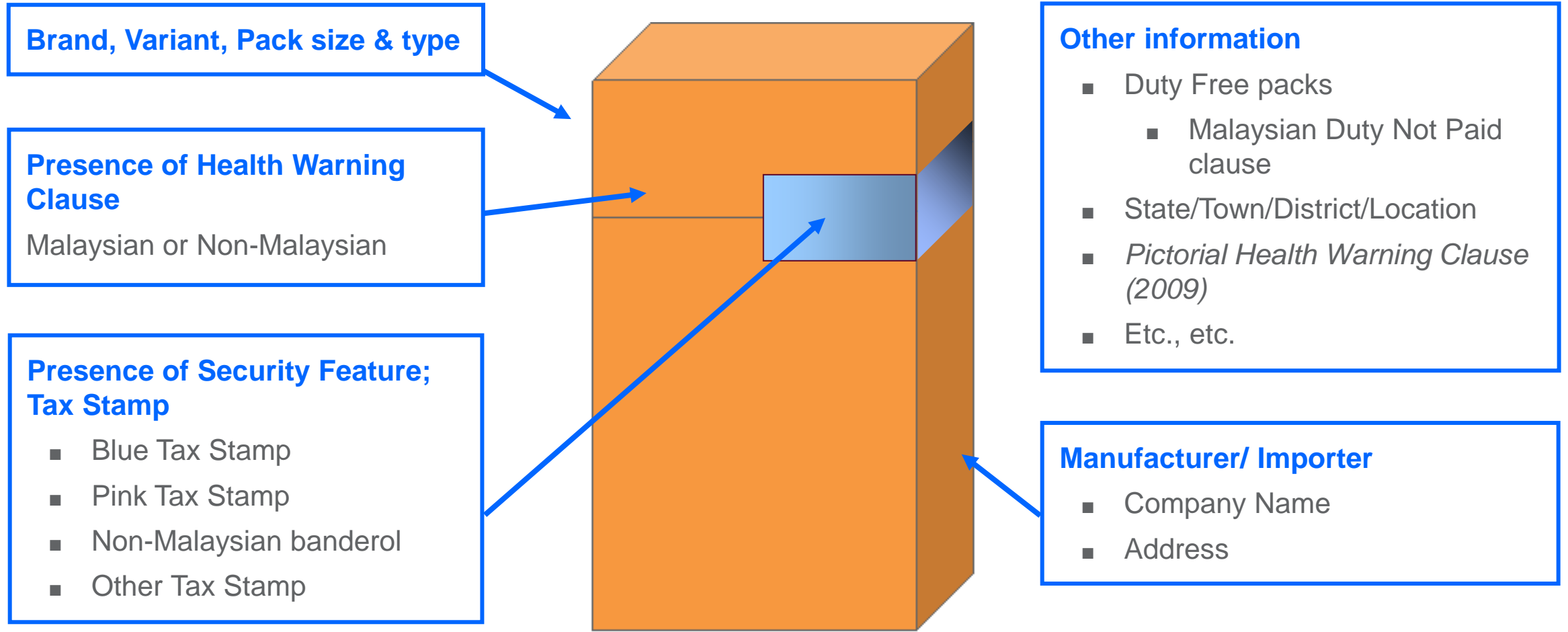
1. Absence of Registered Importers
2. Unregistered Importers\*
3. Absence of Registered Manufacturers
4. Unregistered Manufacturers\*
5. Packs with counterfeit (fake) Malaysian tax stamp\*\*
6. Packs without Malaysian tax stamp
7. Packs with non-Malaysian tax stamp
8. Unregistered Brand\*
9. Non Compliance to Ministry of Health's Control of Tobacco Product Regulations (CTPR) 2004
  - I. Absence or Non Compliance of Pictorial Health Warning Requirements
  - II. Pack Size other than 20 sticks
  - III. Absence or Non Compliance of mandated labeling requirements

# Regulations Set By The Malaysian Government

- All locally manufactured cigarettes and imported cigarettes are required to meet the following criteria:
  - **Registered brand** with Customs
  - **Registered manufacturer** with Customs
  - **Registered importer** with Customs (if it is an imported pack)
  - **Malaysian labeling requirements** i.e. pictorial health warning clause, textual health warning clause, “no sales to under 18” clause, manufacturing date, name and address on manufacturer/importer
  - **Pack size** of not less than 20 sticks
- Additional security features for imported / manufactured packs for **domestic** consumption:
  - Blue tax stamp
- Additional security features for imported / manufactured packs for **duty free** consumption:
  - Pink tax stamp

# Visible Elements Captured By ICS

The following visible elements is **checked & coded / captured** for **each** of the collected packs by Nielsen Malaysia



Information on registered brands, registered manufacturers/ Importers is provided by CMTM



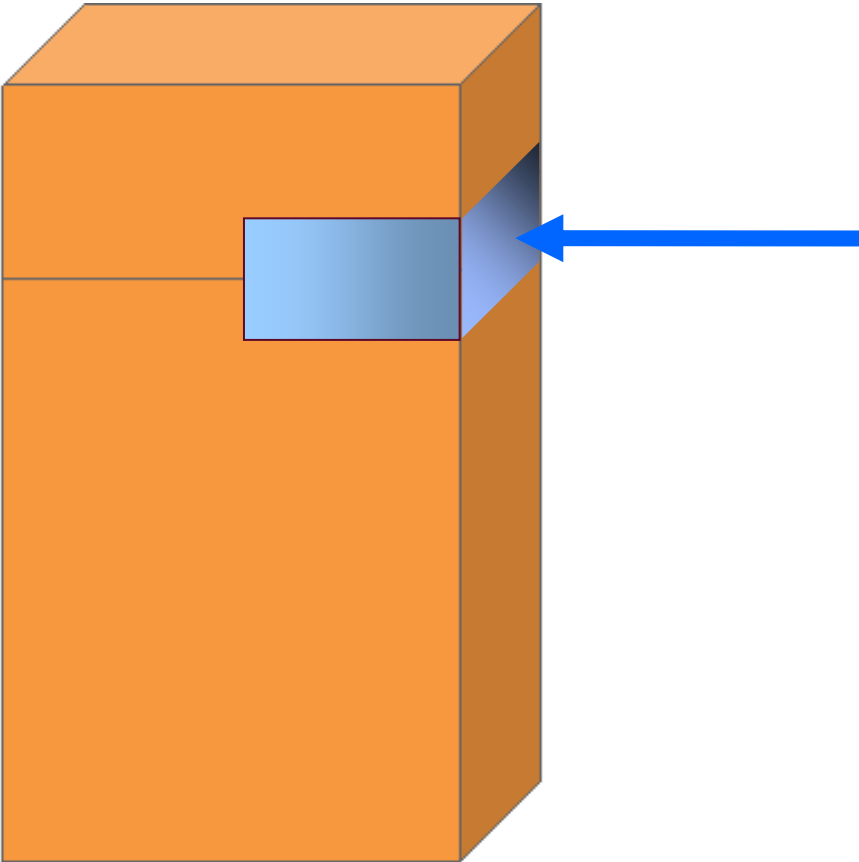
# Verification Of Security Tax Stamp

- **Tax Stamps** are verified by Lembah Sari using the special reader/tool
- Verification outcome: **sign off by Lembah Sari** & Nielsen as witness

|    | A              | B              | C        | D          | E   | H                 |
|----|----------------|----------------|----------|------------|---|-------------------|
| 1  | Local Manufact |                | F = Fake | X = No Ink | G50 = genuine security ink, DF/MY - fake (tamp) |                   |
| 2  |                |                |          |            |   | Remarks (by LSSB) |
| 3  | No             | Pack ID System | Brand    | Pack Size  | Security Ink                                    | Other Comments    |
| 10 | 7              | 30720          | John     | 20         | F   |                   |
| 11 | 8              | 111192         | John     | 20         | F   |                   |
| 12 | 9              | 110215         | John     | 20         | F   |                   |
| 13 | 10             | 101121         | John     | 20         | F   |                   |
| 14 | 11             | 40886          | John     | 20         | F   |                   |
| 15 | 12             | 40782          | John     | 20         | F   |                   |
| 16 | 13             | 121022         | John     | 20         | F   |                   |
| 17 | 14             | 100813         | John     | 20         | F   |                   |
| 18 | 15             | 121196         | John     | 20         | F   |                   |
| 19 | 16             | 110975         | John     | 20         | F   |                   |
| 20 | 17             | 60734          | John     | 20         | F   |                   |
| 21 | 18             | 110977         | John     | 20         | F   |                   |
| 22 | 19             | 41164          | John     | 20         | F   |                   |
| 23 | 20             | 40784          | John     | 20         | F   |                   |
| 24 | 21             | 40689          | John     | 20         | F   |                   |
| 25 | 22             | 40788          | John     | 20         | F   |                   |
| 26 | 23             | 40711          | John     | 20         | F   |                   |
| 27 | 24             | 10938          | John     | 20         | F   |                   |
| 28 | 25             | 41050          | John     | 20         | F   |                   |
| 29 | 26             | 40682          | John     | 20         | F   |                   |
| 30 | 27             | 40936          | John     | 20         | F   |                   |
| 31 | 28             | 4167           | John     | 20         | F   |                   |
| 32 | 29             | 111160         | John     | 20         | F   |                   |
| 33 | 30             | 41032          | John     | 20         | F   |                   |
| 34 | 31             | 40639          | John     | 20         | F   |                   |
| 35 | 32             | 120799         | John     | 20         | F   |                   |
| 36 | 33             | 40843          | John     | 20         | F   |                   |
| 37 | 34             | 4188           | John     | 20         | F   |                   |



# Verification Of Security Tax Stamp



**Blue Tax Stamp**  
(Domestic Market)

OR

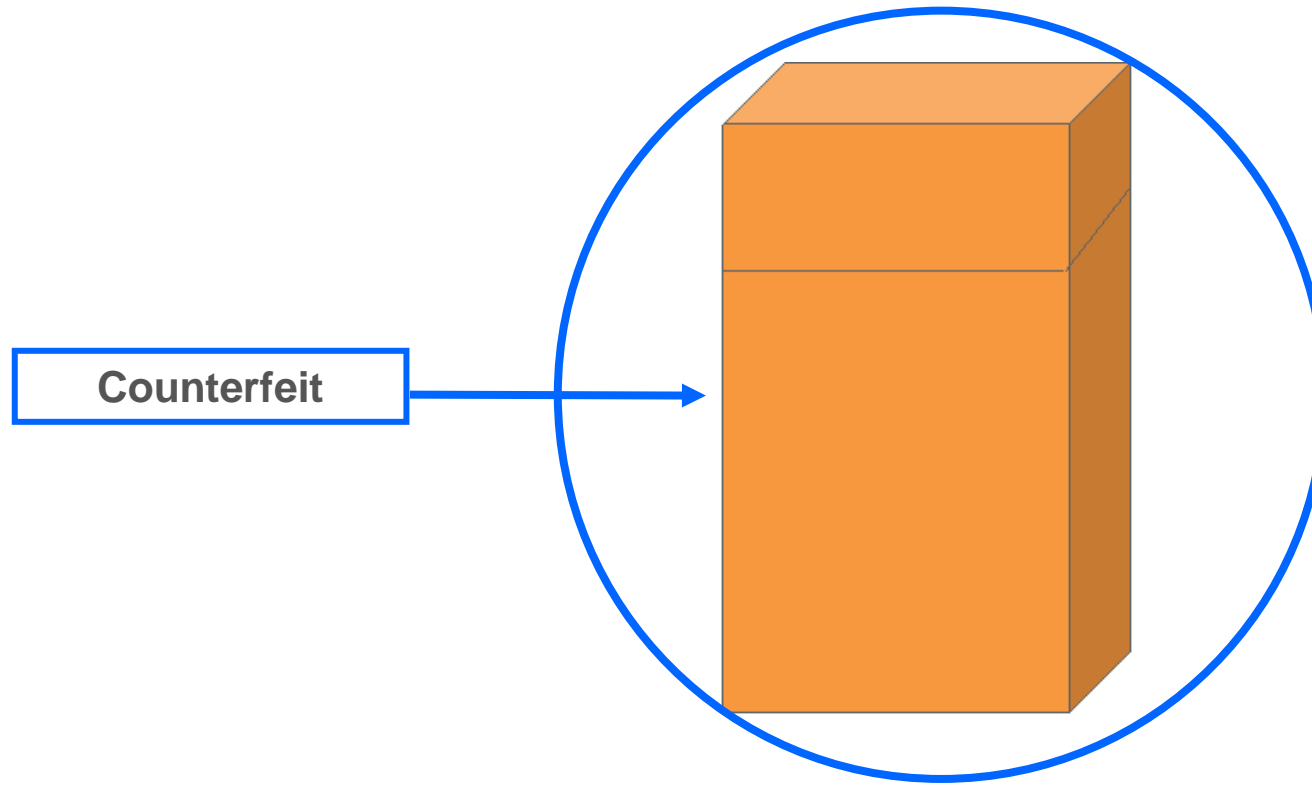


**Pink Tax Stamp**  
(Duty Free Market)



# Verification Of Non-Visible Elements

- Only applicable to CMTM members' brands
- **Verification** by the respective member companies' **technical experts**
- Pack **IDs of identified Counterfeit packs** are given to Nielsen Malaysia



# ICS Research Methodology & Design

I. ICS Universe, Sample Size

II. Sampling Coverage Of ICS and Fieldwork

III. Coding Processes

**IV. Data Processing**

V. Weighting The Survey Data

# Data Processing (Data Cleaning & Merging)

- Software program to ensure data accuracy
- Logic checks on brand and manufacturers
- Security feature verification results merged into data file



## Control of Response List by Researchers

- Data entry can only input data as per the response list provided
- Any new information to be added to the response list is subject to Research Team approval
- Research Team will review and validate the new details before adding in any new response into the system

# Data Processing (Quality Control)

| 1      | 2                         | 3        | 4      | 5                 | 6   | 7   | 8      | 9                 | 10   | 11    | 12              | 13  | 14     | 15                | 16  | 17        | 18                              | 19    | 20              | 21   | 22    | 23               | 24  | 25    | 26               | 27  | 28    | 29               | 30  | 31    | 32               | 33  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
|--------|---------------------------|----------|--------|-------------------|---|---|--------|-------------------|--|-------|-----------------|---|--------|-------------------|---|-----------|---------------------------------|-------|-----------------|--|-------|------------------|---|-------|------------------|---|-------|------------------|---|-------|------------------|---|-------|------------------|---|-------|------------------|---|-------|------------------|---|-------|------------------|---|-------|------------------|---|-------|------------------|---|-------|------------------|---|-------|------------------|---|-------|------------------|---|
| Wave 3 | Week 33                   | 03/10/20 | Oct-12 | Johor             | Johor - Ba Urban                            | Johor, Bar Taman Bc South [Joh Dunhill Re | Perlis | Perlis - Ka Urban | Perlis, Kar Jalan Ara, North Per Peter Shy | Sabah | Sabah - K Urban | Sabah, Ko Likas - Tor East Mela, Dunhill Re | Perlis | Perlis - Ka Urban | Perlis, Kar Jalan Ara, North Per Dunhill Re | Jin Paser | Jalan Pas East Mela, Dunhill Re | Sabah | Sabah - K Urban | Sabah, Ko Likas - Tor East Mela, Winston R | Johor | Johor - Ba Urban | Johor, Bar Taman Bc South [Joh Dunhill Re | Johor | Johor - Ba Urban | Johor, Bar Taman Bc South [Joh Dunhill Re | Johor | Johor - Ba Urban | Johor, Bar Taman Bc South [Joh Dunhill Re | Johor | Johor - Ba Urban | Johor, Bar Taman Bc South [Joh Dunhill Re | Johor | Johor - Ba Urban | Johor, Bar Taman Bc South [Joh Dunhill Re | Johor | Johor - Ba Urban | Johor, Bar Taman Bc South [Joh Dunhill Re | Johor | Johor - Ba Urban | Johor, Bar Taman Bc South [Joh Dunhill Re | Johor | Johor - Ba Urban | Johor, Bar Taman Bc South [Joh Dunhill Re | Johor | Johor - Ba Urban | Johor, Bar Taman Bc South [Joh Dunhill Re | Johor | Johor - Ba Urban | Johor, Bar Taman Bc South [Joh Dunhill Re | Johor | Johor - Ba Urban | Johor, Bar Taman Bc South [Joh Dunhill Re | Johor | Johor - Ba Urban | Johor, Bar Taman Bc South [Joh Dunhill Re | Johor | Johor - Ba Urban | Johor, Bar Taman Bc South [Joh Dunhill Re |
| 24003  | Wave 3, Week 33, 03/10/20 | Oct-12   | Johor  | Johor - Ba Urban  | Johor, Bar Taman Bc South [Joh Dunhill Re   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 7      | Wave 3, Week 33, 03/10/20 | Oct-12   | Perlis | Perlis - Ka Urban | Perlis, Kar Jalan Ara, North Per Peter Shy  |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36003  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Sabah, Ko Likas - Tor East Mela, Dunhill Re |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 56     | Wave 3, Week 33, 03/10/20 | Oct-12   | Perlis | Perlis - Ka Urban | Perlis, Kar Jalan Ara, North Per Dunhill Re |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36008  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Jin Paser, Jalan Pas East Mela, Dunhill Re  |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36004  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Sabah, Ko Likas - Tor East Mela, Winston R  |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 24004  | Wave 3, Week 33, 03/10/20 | Oct-12   | Johor  | Johor - Ba Urban  | Johor, Bar Taman Bc South [Joh Dunhill Re   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 24005  | Wave 3, Week 33, 03/10/20 | Oct-12   | Johor  | Johor - Ba Urban  | Johor, Bar Taman Bc South [Joh Dunhill Re   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36005  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Sabah, Ko Likas - Tor East Mela, Dunhill Re |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 24006  | Wave 3, Week 33, 03/10/20 | Oct-12   | Johor  | Johor - Ba Urban  | Johor, Bar Taman Bc South [Joh Dunhill Re   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36040  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Jin Paser, Jalan Pas East Mela, Dunhill Re  |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36006  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Sabah, Ko Likas - Tor East Mela, Gudang G   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36007  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Sabah, Ko Likas - Tor East Mela, Gudang G   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36078  | Wave 3, Week 33, 03/10/20 | Oct-12   | Kedah  | Kedah - A Urban   | Jalan Peg, Jalan Peg North Per Marlboro     |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36041  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Jin Paser, Jalan Pas East Mela, Dunhill Re  |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 24007  | Wave 3, Week 33, 03/10/20 | Oct-12   | Johor  | Johor - Ba Urban  | Johor, Bar Taman Bc South [Joh Winston R    |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 24008  | Wave 3, Week 33, 03/10/20 | Oct-12   | Johor  | Johor - Ba Urban  | Johor, Bar Taman Bc South [Joh Winston R    |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36042  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Jin Paser, Jalan Pas East Mela, Premium B   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36009  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Sabah, Ko Likas - Tor East Mela, Gudang G   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36009  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Sabah, Ko Likas - Tor East Mela, Gudang G   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36009  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Sabah, Ko Likas - Tor East Mela, Gudang G   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36079  | Wave 3, Week 33, 03/10/20 | Oct-12   | Kedah  | Kedah - A Urban   | Jalan Peg, Jalan Peg North Per Marlboro     |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36010  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Sabah, Ko Likas - Tor East Mela, Marlboro   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36043  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Jin Paser, Jalan Pas East Mela, Premium B   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36011  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Sabah, Ko Likas - Tor East Mela, Ero Prem   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36044  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Jin Paser, Jalan Pas East Mela, Premium B   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 24009  | Wave 3, Week 33, 03/10/20 | Oct-12   | Johor  | Johor - Ba Urban  | Johor, Bar Taman Bc South [Joh Winston R    |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 3609   | Wave 3, Week 33, 03/10/20 | Oct-12   | Kedah  | Kedah - A Urban   | Jalan Peg, Jalan Peg North Per Marlboro     |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 5      | Wave 3, Week 33, 03/10/20 | Oct-12   | Perlis | Perlis - Ka Urban | Perlis, Kar Jalan Ara, North Per Marlboro   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 24010  | Wave 3, Week 33, 03/10/20 | Oct-12   | Johor  | Johor - Ba Urban  | Johor, Bar Taman Bc South [Joh Winston R    |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 36085  | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Jin Paser, Jalan Pas East Mela, Premium B   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 3681   | Wave 3, Week 33, 03/10/20 | Oct-12   | Kedah  | Kedah - A Urban   | Jalan Peg, Jalan Peg North Per Marlboro     |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |
| 3686   | Wave 3, Week 33, 03/10/20 | Oct-12   | Sabah  | Sabah - K Urban   | Jin Paser, Jalan Pas East Mela, Premium B   |   |        |                   |  |       |                 |   |        |                   |   |           |                                 |       |                 |  |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |       |                  |   |

10% of data entered into the database will be cross-check by a QC personnel to ensure data accuracy and coders are capturing the data correctly

QC personnel will randomly select 10% of packs which has been keyed into the system, cross-compare to ensure pack features is similar to what has been recorded in the system and rectify the data

Besides completing a 10% physical QC check, the database is reviewed to check for data discrepancy against known facts

- E.g. Dunhill belongs to BAT M'sia ,
- Legal packs comes only in pack size of 20s

If any data discrepancies are detected, the affected pack will be extracted and a physical validation process will be undergone

# ICS Research Methodology & Design

- I. ICS Universe, Sample Size
- II. Sampling Coverage Of ICS and Fieldwork
- III. Coding Processes
- IV. Data Processing
- V. Weighting The Survey Data**

# How Does Nielsen Weight The Data?

## Step 1 : Establish the Estimated Legal Industry Volume

- The **estimated legal industry volume** is established based on the following information:
  - In-market sales** as provided independently by British American Tobacco Malaysia (BATM), Philip Morris Malaysia (PMM) and Japan Tobacco International (JTI)
  - Local manufacturers' **volume** and **Malaysian Duty Free** volume from Illicit Cigarettes Study (**ICS**)

|  | Jul, 2024      |  |
|--|----------------|--|
|  | ('000 sticks)  |  |
| CMTM Member Companies (BATM, PMM, JTI) | 574,659        | Derive from actual in-market sales as provided by CMTM member companies        |
| Other Local manufacturers              | 0              |  |
| Malaysian Duty Free                    | 1,807          | ICS volume estimation is used as substitute since actual data is not available |
| <b>Total Legal Cigarettes Sales</b>    | <b>576,466</b> |  |

Unit of measurement : thousand sticks



# How Does Nielsen Weight The Data?

## Step 2 : Establish the Legal Industry Volume contribution by State

- Using in-market sales (3 months average) as provided by CMTM member companies as a guideline, **establish each states' legal volume contribution** towards the national volume of 576,466,000 sticks

|              | IN-MARKET SALES BY CMTM | STATE'S LEGAL VOLUME CONTRIBUTION |
|--------------|-------------------------|-----------------------------------|
| PERLIS       | 3,047                   | 0.5%                              |
| KEDAH        | 21,577                  | 3.9%                              |
| PENANG       | 40,819                  | 7.3%                              |
| PERAK        | 42,830                  | 7.7%                              |
| SELANGOR     | 135,763                 | 24.3%                             |
| WP KL        | 63,818                  | 11.4%                             |
| WP PUTRAJAYA | 300                     | 0.1%                              |
| N.SEMBILAN   | 27,639                  | 4.9%                              |
| MELAKA       | 19,718                  | 3.5%                              |
| JOHOR        | 115,081                 | 20.6%                             |
| PAHANG       | 25,310                  | 4.5%                              |
| TERENGGANU   | 10,638                  | 1.9%                              |
| KELANTAN     | 16,240                  | 2.9%                              |
| WP LABUAN    | 254                     | 0.0%                              |
| SABAH        | 17,015                  | 3.0%                              |
| SARAWAK      | 18,403                  | 3.3%                              |
| NATIONAL     | 558,451                 |                                   |

### Step 2a. (Using In-Market Sales)

$$\text{State Legal Volume} = \frac{\text{State's In-Market Volume}}{\text{National Volume}} \times \text{Contribution}$$

(e.g.  $135,763 / 558,451 = 24.3\%$ )

|          | IN-MARKET SALES | STATE'S LEGAL VOLUME CONTRIBUTION | PROJECTED/ ESTIMATED STATE LEGAL VOLUME |
|----------|-----------------|-----------------------------------|---|
| SELANGOR | 135,763         | 24.3%                             | 140,143                                 |
| NATIONAL | 558,451         |                                   | 576,466                                 |

### Step 2b.

#### Projected States Legal Volume

$$\text{Projected States Legal Volume} = \text{State Legal Volume Contribution} \times \text{National Legal Volume}$$

(derived from In-Market Sales) (obtained from Step 1)

(e.g.  $24.3\% \times 576,466 = 140,143$ )

# How Does Nielsen Weight The Data?

## Step 2 : Key Output

|                 | IN-MARKET SALES BY CMTM | STATE'S LEGAL VOLUME CONTRIBUTION | PROJECTED/<br>ESTIMATED<br>STATE LEGAL VOLUME |
|-----------------|-------------------------|-----------------------------------|---|
| PERLIS          | 3,047                   | 0.5%                              | 3,146   |
| KEDAH           | 21,577                  | 3.9%                              | 22,273  |
| PENANG          | 40,819                  | 7.3%                              | 42,136  |
| PERAK           | 42,830                  | 7.7%                              | 44,212  |
| <b>SELANGOR</b> | <b>135,763</b>          | <b>24.3%</b>                      | <b>140,143</b>                                |
| WP KL           | 63,818                  | 11.4%                             | 65,876  |
| WP PUTRAJAYA    | 300                     | 0.1%                              | 310   |
| N.SEMBILAN      | 27,639                  | 4.9%                              | 28,530  |
| MELAKA          | 19,718                  | 3.5%                              | 20,354  |
| JOHOR           | 115,081                 | 20.6%                             | 118,793                                       |
| PAHANG          | 25,310                  | 4.5%                              | 26,126  |
| T'GANU          | 10,638                  | 1.9%                              | 10,981  |
| KELANTAN        | 16,240                  | 2.9%                              | 16,764  |
| WP LABUAN       | 254                     | 0.0%                              | 262   |
| SABAH           | 17,015                  | 3.0%                              | 17,563  |
| SARAWAK         | 18,403                  | 3.3%                              | 18,996  |
| <b>NATIONAL</b> | <b>558,451</b>          |                                   | <b>576,466</b>                                |

# How Does Nielsen Weight The Data?

## Step 3 : Establish the Incidence for Legal / Illegal Cigarettes

- Convert the data from “**packs collected**” to “**sticks**” (based on pack size)
- The **study’s unit of measurement** is based on consumption in **sticks**
  - Though CTPR prohibits the sales of cigarettes below the pack sizes of 20 sticks, **illegal cigarettes** (primarily for illegal kretek) could still be found **in pack sizes below 20 sticks**
  - The **calculation based on number of packs collected** will **create a false inflation** on illegal volume due to the presence of packs sizes below 20 sticks

| State    | Total packs collected (Jul'24) | Number of legal packs collected | (Unweighted) Volume of legal packs collected | Number of illegal packs collected | (Unweighted) Volume of illegal packs collected | Total volume (Legal + Illegal) | Incidence of legal cigarettes | Incidence of illegal cigarettes |
|----------|--------------------------------|---------------------------------|--|-----------------------------------|--|--------------------------------|-------------------------------|---------------------------------|
|          |                                |                                 | A  |                                   | B  | C = A + B                      | D = A / C                     | E = B / C                       |
| SELANGOR | 3,200                          | 1,780                           | 35,600                                       | 1,420                             | 26,280   | 61,880                         | 57.5%                         | 42.5%                           |



**Step 3a.**  
Sum up the number of sticks per pack for all legal packs collected to establish the estimated legal volume in sticks



**Step 3b.**  
Repeat Step 3a to establish the estimated illegal volume in sticks



**Step 3c.**  
Sum up the total consumption for both legal and illegal to establish The estimated total cigarette volume at state level



**Step 3d.**  
Calculate the ratio of estimated legal vs. illegal volume

# Top 10 Illegal Cigarettes Brands\* For Sarawak

## Step 3 : Incidence for Legal / Illegal Cigarettes Key Output

- Establish the level of legal vs. illegal cigarettes ratio in each respective state

| State        | Total packs collected (Jul'24) | Number of legal packs collected | (Unweighted) Volume of legal packs collected | Number of illegal packs collected | (Unweighted) Volume of illegal packs collected | Total volume (Legal + Illegal) | Incidence of legal cigarettes | Incidence of illegal cigarettes |
|--------------|--------------------------------|---------------------------------|--|-----------------------------------|--|--------------------------------|-------------------------------|---------------------------------|
|              |                                |                                 | A  |                                   | B  | C = A + B                      | D = A / C                     | E = B / C                       |
| PERLIS       | 1,200                          | 473                             | 9,460  | 727                               | 14,140   | 23,600                         | 40.1%                         | 59.9%                           |
| KEDAH        | 1,200                          | 618                             | 12,360                                       | 582                               | 11,408   | 23,768                         | 52.0%                         | 48.0%                           |
| PENANG       | 1,200                          | 648                             | 12,960                                       | 552                               | 10,640   | 23,600                         | 54.9%                         | 45.1%                           |
| PERAK        | 1,200                          | 820                             | 16,400                                       | 380                               | 7,529  | 23,929                         | 68.5%                         | 31.5%                           |
| SELANGOR     | 3,200                          | 1,780                           | 35,600                                       | 1,420                             | 26,280   | 61,880                         | 57.5%                         | 42.5%                           |
| WP KL        | 1,300                          | 715                             | 14,300                                       | 585                               | 10,571   | 24,871                         | 57.5%                         | 42.5%                           |
| WP PUTRAJAYA | 400                            | 216                             | 4,320  | 184                               | 3,180  | 7,500                          | 57.6%                         | 42.4%                           |
| N.SEMBILAN   | 1,200                          | 708                             | 14,160                                       | 492                               | 9,626  | 23,786                         | 59.5%                         | 40.5%                           |
| MELAKA       | 1,200                          | 423                             | 8,460  | 777                               | 15,459   | 23,919                         | 35.4%                         | 64.6%                           |
| JOHOR        | 1,900                          | 929                             | 18,580                                       | 971                               | 19,236   | 37,816                         | 49.1%                         | 50.9%                           |
| PAHANG       | 1,200                          | 273                             | 5,460  | 927                               | 17,822   | 23,282                         | 23.5%                         | 76.5%                           |
| T'GANU       | 1,200                          | 303                             | 6,060  | 897                               | 17,495   | 23,555                         | 25.7%                         | 74.3%                           |
| KELANTAN     | 1,200                          | 507                             | 10,140                                       | 693                               | 13,812   | 23,952                         | 42.3%                         | 57.7%                           |
| WP LABUAN    | 400                            | 77                              | 1,540  | 323                               | 6,460  | 8,000                          | 19.3%                         | 80.7%                           |
| SABAH        | 1,600                          | 340                             | 6,800  | 1,260                             | 25,032   | 31,832                         | 21.4%                         | 78.6%                           |
| SARAWAK      | 1,600                          | 332                             | 6,640  | 1,268                             | 24,564   | 31,204                         | 21.3%                         | 78.7%                           |

# How Does Nielsen Weight The Data?

## Step 4 : Project Total Market Volume

- Once each states' estimated legal volume and legal incidence have been established, the numbers will be used to project total industry volume for each state

|          | STATE LEGAL VOLUME | LEGAL INCIDENCE | TOTAL MARKET VOLUME | STATE ILLEGAL VOLUME |
|----------|--------------------|-----------------|---------------------|----------------------|
|          | A                  | B               | $C = A / B$         | $D = C - A$          |
| SELANGOR | 140,143            | 57.5%           | 243,596             | 103,453              |



**Step 4a.**  
 Based on the incidence for legal cigarettes of 56.9% in Selangor, project the total volume for the state  
 (e.g. 140,143 divide by 57.5% = 243,596)



**Step 4b.**  
 Illegal volume is established by subtracting the projected total state's volume with the legal volume  
 (e.g. 243,596 – 140,143 = 103,453)

# How Does Nielsen Weight The Data?

## Step 4 : Key Output - Illegal Cigarettes Incidence @ National level

- Repeat the same process in Step 4 for all States

|                 | STATE LEGAL VOLUME | LEGAL INCIDENCE | TOTAL MARKET VOLUME | STATE ILLEGAL VOLUME |
|-----------------|--------------------|-----------------|---------------------|----------------------|
| PERLIS          | 3,146              | 40.1%           | 7,847               | 4,701                |
| KEDAH           | 22,273             | 52.0%           | 42,831              | 20,558               |
| PENANG          | 42,136             | 54.9%           | 76,728              | 34,592               |
| PERAK           | 44,212             | 68.5%           | 64,508              | 20,296               |
| SELANGOR        | 140,143            | 57.5%           | 243,596             | 103,453              |
| WP KL           | 65,876             | 57.5%           | 114,574             | 48,698               |
| WP PUTRAJAYA    | 310                | 57.6%           | 538                 | 228                  |
| N.SEMBILAN      | 28,530             | 59.5%           | 47,925              | 19,395               |
| MELAKA          | 20,354             | 35.4%           | 57,547              | 37,193               |
| JOHOR           | 118,793            | 49.1%           | 241,781             | 122,988              |
| PAHANG          | 26,126             | 23.5%           | 111,405             | 85,279               |
| TERENGGANU      | 10,981             | 25.7%           | 42,684              | 31,703               |
| KELANTAN        | 16,764             | 42.3%           | 39,600              | 22,836               |
| WP LABUAN       | 262                | 19.3%           | 1,360               | 1,098                |
| SABAH           | 17,563             | 21.4%           | 82,217              | 64,654               |
| SARAWAK         | 18,996             | 21.3%           | 89,271              | 70,275               |
| <b>NATIONAL</b> | <b>576,466</b>     |                 | <b>1,264,413</b>    | <b>687,947</b>       |

Divide **National Illegal Volume 687,947** with **National Total Market Volume 1,264,413** **54.4%**

NIQ

**NIQ**