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UPDATE ON PROGRESS OF MPP SUBLICENSEES

TILL DECEMBER 2024

[MEDICINESPATENTPOOL.ORG](https://medicinespatentpool.org)



SUMMARY



- This presentation showcases the progress made by MPP licensees (generic pharmaceutical companies).



- To date, MPP has signed agreements with 22 patent holders for 13 HIV antiretrovirals, 1 HIV technology platform, 3 hepatitis C direct-acting antivirals, 1 tuberculosis treatment, 4 long-acting technologies, 1 cancer treatment, 3 oral antiviral treatments for COVID-19, 1 post partum haemorrhage medicine and 16 Covid-19 technologies.



- Licensed products are developed by multiple MPP licensees, with an aim of encouraging competition, reducing market prices and providing faster access to medicines for people living in low- and middle-income countries (LMICs).

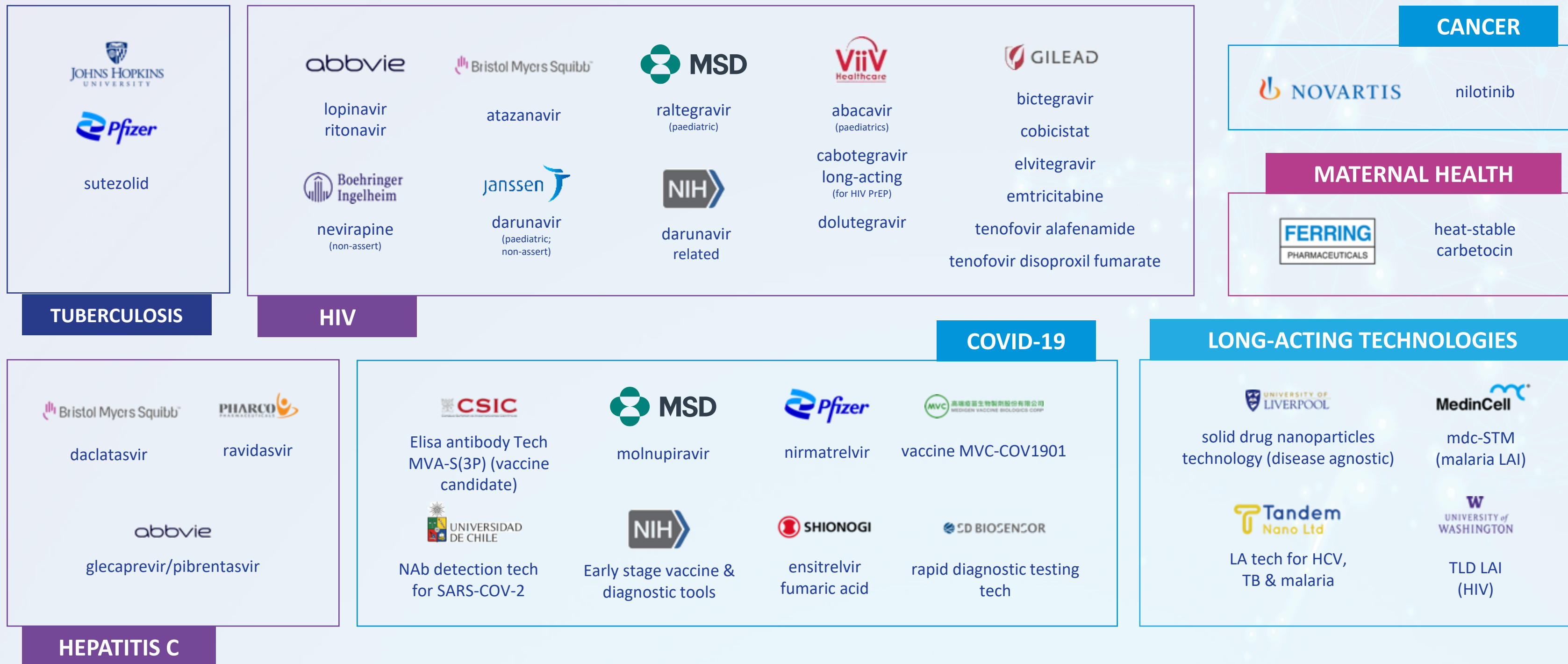


- Generic medicines are developed and filed with stringent regulatory authorities such as the U.S. Food and Drug Administration (USFDA) and the World Health Organization prequalification (WHO-PQ), ensuring availability of quality assured products in LMICs.



- This presentation gives a snapshot of the development of each licensed product and when the product may be filed with regulators. It also shows which countries the local filing is taking place in and when – thereby providing a clearer picture of availability of new formulations in each country.

PARTNERSHIPS WITH INNOVATORS ACROSS DIFFERENT DISEASE AREAS



MPP PARTNERSHIPS WITH GENERICS

abacavir (paed)

Aurobindo

atazanavir

Aurobindo
Cipla
Desano

Emcure
Mylan

bictegravir

Adcock Ingram
Arene
Aurobindo
Desano

Emcure
Laurus Labs
Lupin
Macleods

cabotegravir

Aurobindo
Cipla
Mylan

cobicistat

Adcock Ingram
Arene

Emcure
Lupin

dolutegravir

Adcock Ingram#
Celltrion#
Cipla#
Desano#
Emcure#
Hetero^
Laurus Labs#

Lupin#
Macleods#
Mangalam
Micro Labs#
Mylan^
Strides#
Sun Pharma^

elvitegravir

Adcock Ingram
Arene

emtricitabine

Adcock Ingram
Arene
Emcure
Lupin

Lopinavir, ritonavir

Adcock Ingram
Arene
Aurobindo
Cipla*
Desano

Emcure
Hetero**
Lupin
Sun Pharma

raltegravir / Paed

Lupin

tenofovir alafenamide

Adcock Ingram
Aurobindo
Desano
Emcure
Laurus Labs
Lupin
Macleods
Micro Labs
Natco

tenofovir disoproxil fumarate

Adcock Ingram
Arene

sutezolid / John Hopkins University

TB Alliance!

sutezolid / Pfizer

Bill & Melinda
Gates Foundation!



daclatasavir

Beximco
Cipla
Hetero
Laurus Labs

Mylan
Natco
Zydus

glecaprevir/pibrentasvir

Arene
Mylan
Remington
USV



molnupiravir

Arene
Beximco
Biophore
CPT
Desano
Dongbang
Fosun
Hikma
Incepta

Kimia Farma
Laurus Labs
MSN
Remington
SMS Pharma
Stellapharm
Strides
UCL



nirmatrelvir

Amneal
Apeloa
Arene
Aurisco
Aurobindo
Biocon
Cadila
Celltrion
Cipla
Darnitsa
Desano
Divis

Dongbang
Dr. Reddy's
Emcure
Fosun Pharma
Glenmark
Granules
Hetero
Hikma
Huahai
Jiuzhou
Laurus Labs



ensitrelvir

Charioteer
Fosun
Hetero
Laurus Labs
Lekhim
Lepu
Stellapharm



nilotinib

BrightGene
Dr. Reddy's
Eugia
Hetero

MPP'S NETWORK OF GENERIC MANUFACTURERS AND PRODUCT DEVELOPERS ARE IN 14 COUNTRIES

Bangladesh

Beximco
Incepta

China

Apeloa
Aurisco
Charioteer
Desano
Fosun
Huahai
Jiuzhou
Lepu

Dominican Republic

Magnachem

Product developers

Biotech
TB Alliance
Gates MRI

India

Amneal
Arene
Aurobindo
Biocon
Biophore
Cadila
Cipla
Divi's
Dr Reddy's
Emcure
Eugia
Glenmark
Granules
Hetero
Laurus
Lupin
Macleods
Mangalam
Micro Labs
MSN
Mylan (Viatris)
Natco
SMS Pharma
Strides
Sun
Torrent
USV
Zydus

Indonesia

BrightGene (PT
Anvita Pharma)
Kimia Farma

Jordan

Hikma

Kenya

UCL

Mexico

Neolpharma

Pakistan

Remington

Serbia

FHI Zdravlje

South Africa

Adcock Ingram
CPT

South Korea

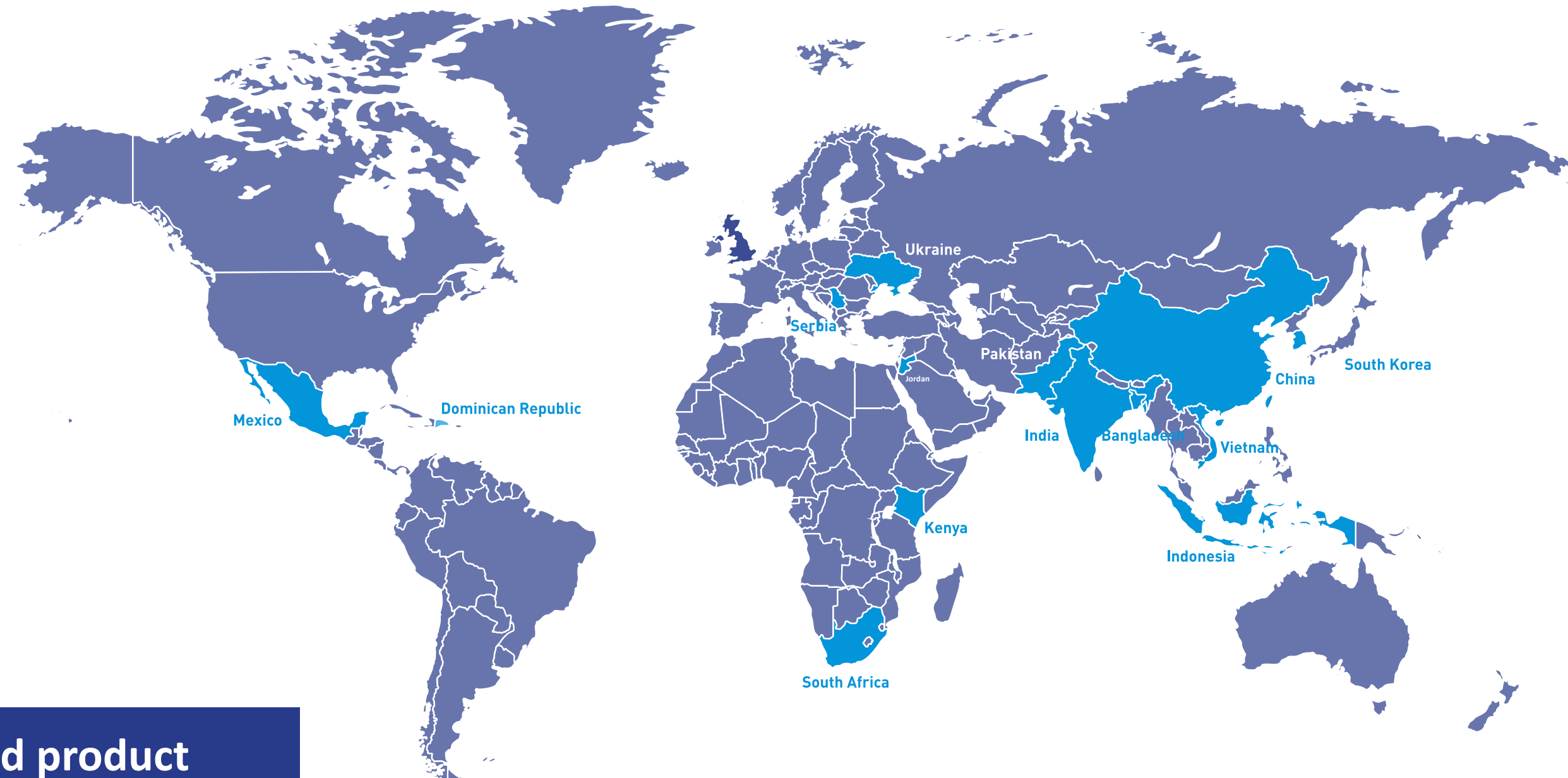
Celltrion
Dongbang

Ukraine

Darnitsa
Lekhim

Vietnam

Stella

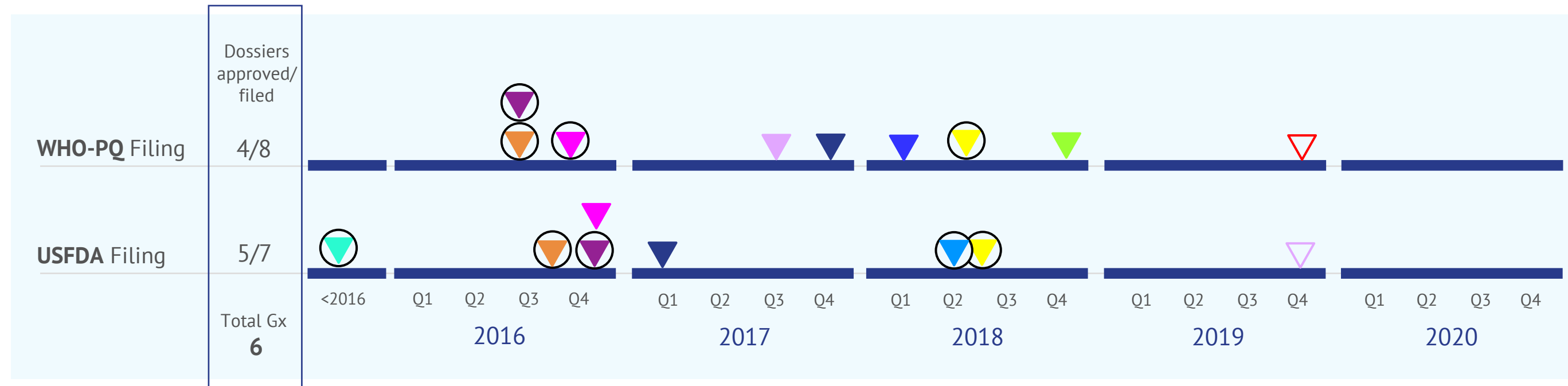


56 generic manufacturers and product developers



TRIANGLE CHARTS

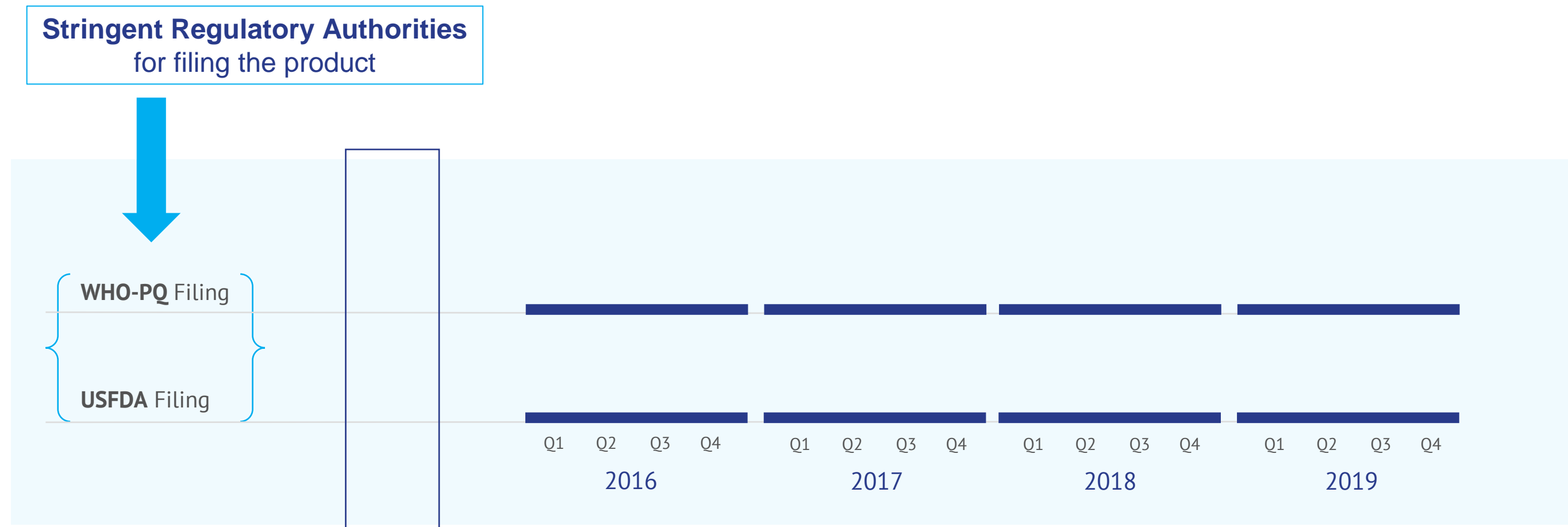
Triangle charts represent a comparative analysis of each MPP licensee's filings with WHO-PQ and/or USFDA for each product

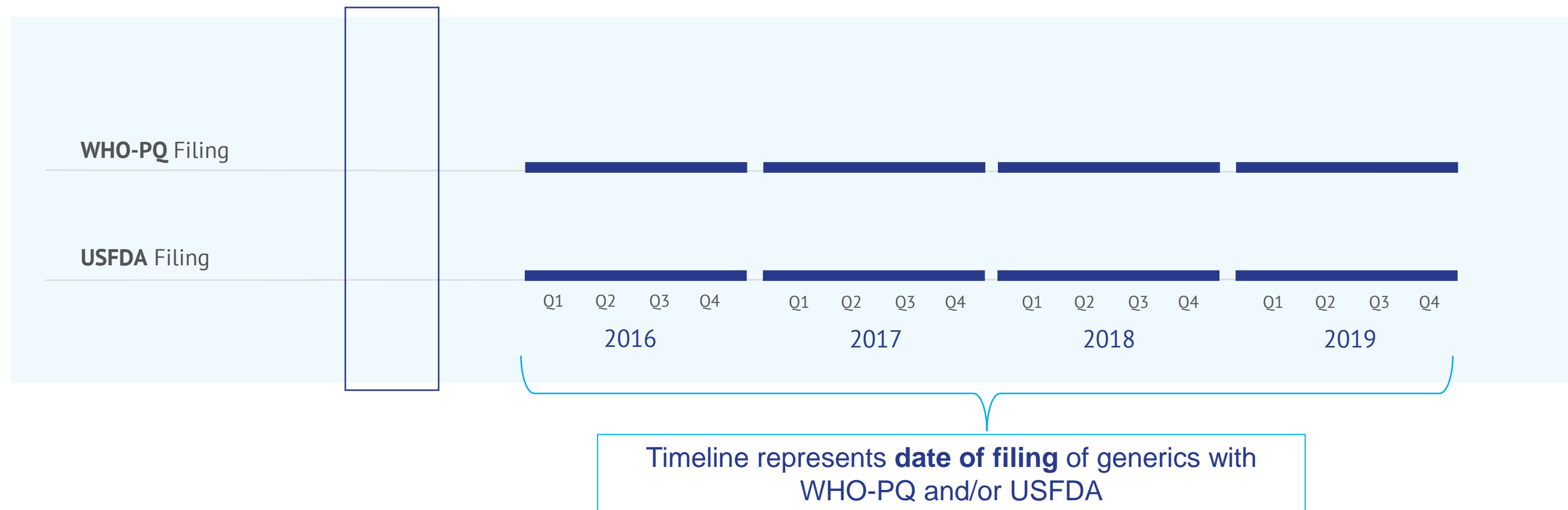


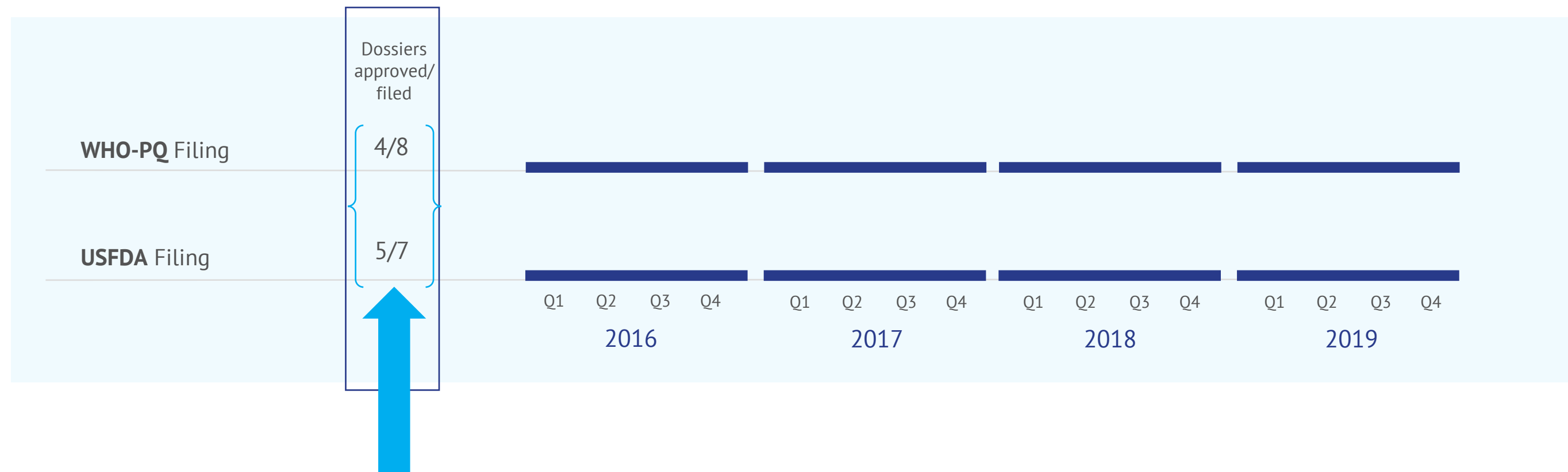
 Companies approved
  Companies filed
  Companies planning to file

Note: Each triangle represents a manufacturer and timelines represent date of filing

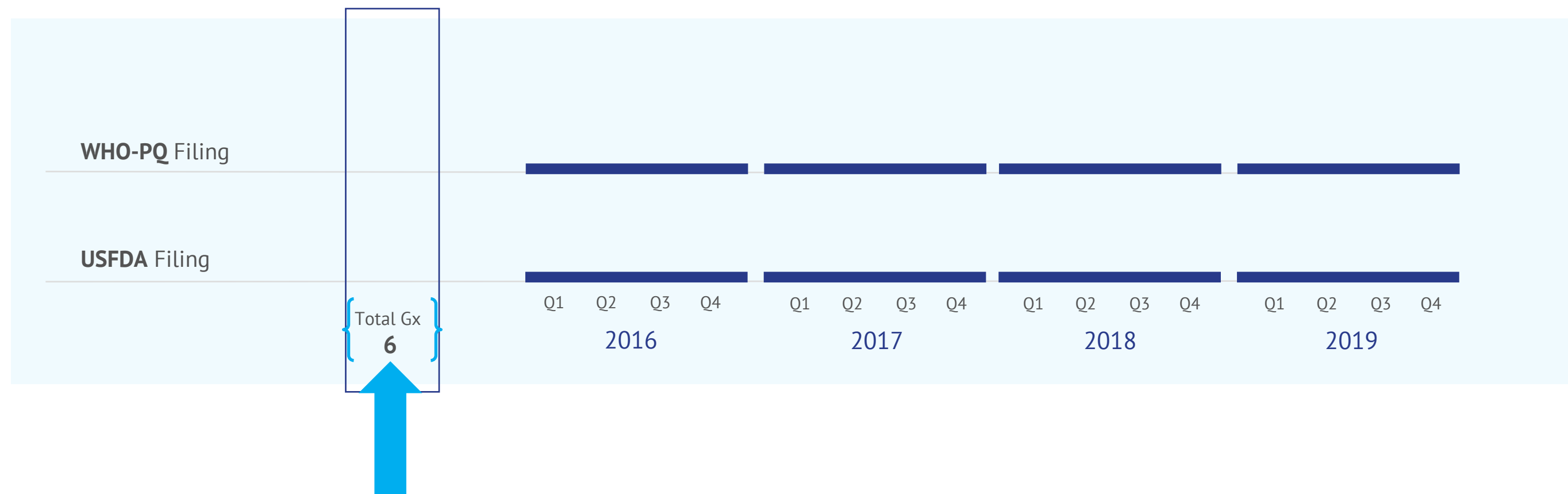
See following slides for explanation





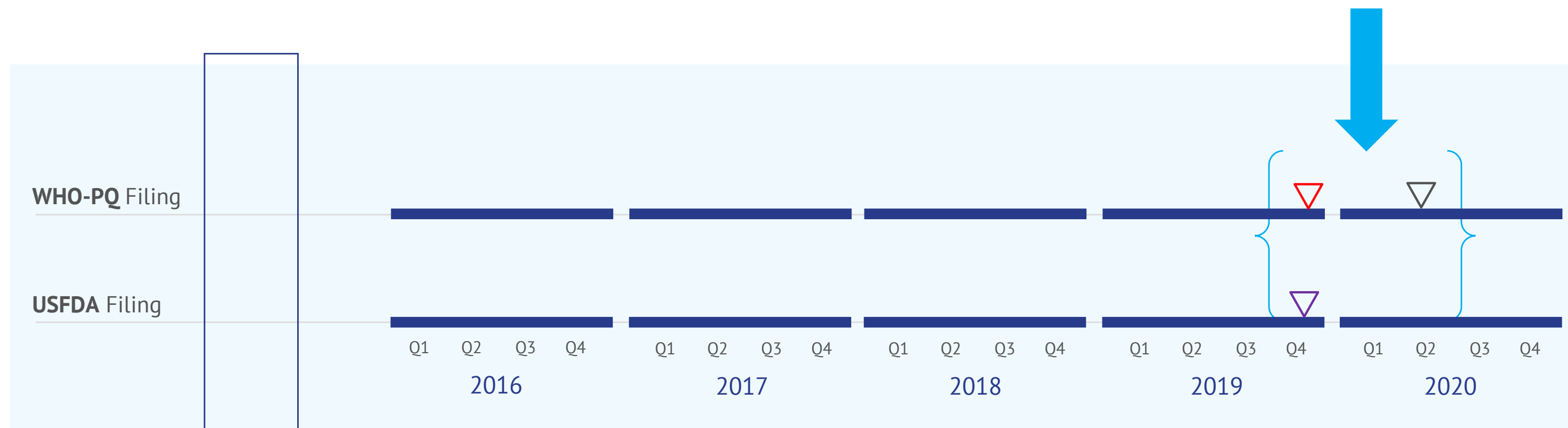


No. of companies that have **received approval out of total companies filed** with WHO-PQ/USFDA



Total no. of companies that have been approved by WHO-PQ/USFDA

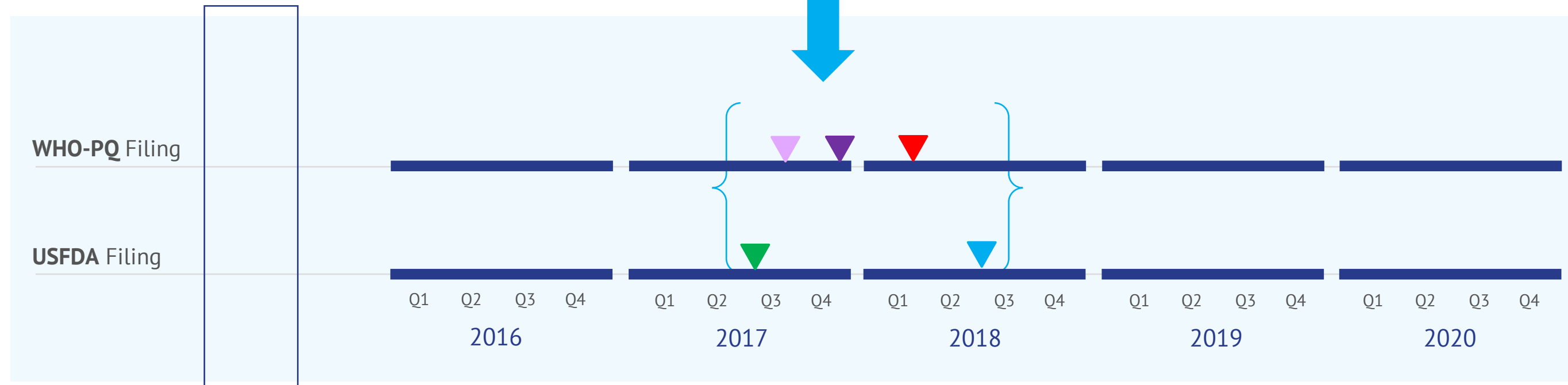
Outlined triangles (∇) represent companies **developing the product** and **planning to file** with WHO-PQ and/or USFDA



∇ Companies planning to file

Note: Each triangle represents a manufacturer and timelines represent date of filing

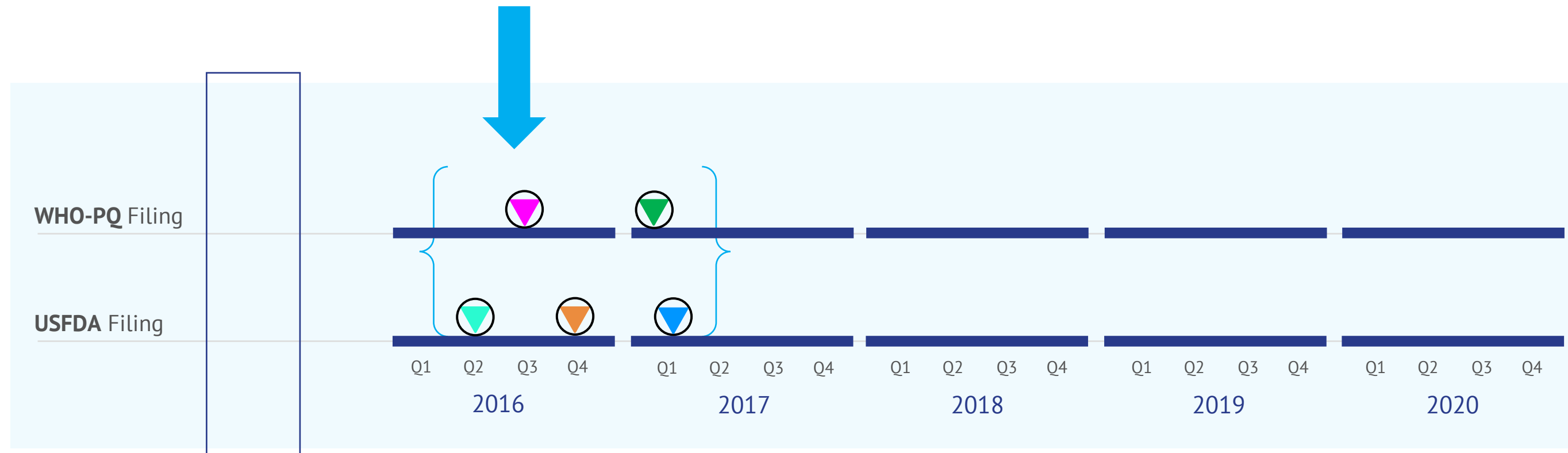
Filled triangles (▼) represent companies who have **completed the product development** and have **filed** with WHO-PQ and/or USFDA



▼ Companies filed

Note: Each triangle represents a manufacturer and timelines represent date of filing

Circled triangles  represent companies who have **completed the product development** and have **received approvals** from WHO-PQ and/or USFDA



 Companies approved

Note: Each triangle represents a manufacturer and timelines represent date of filing

DOLUTEGRAVIR



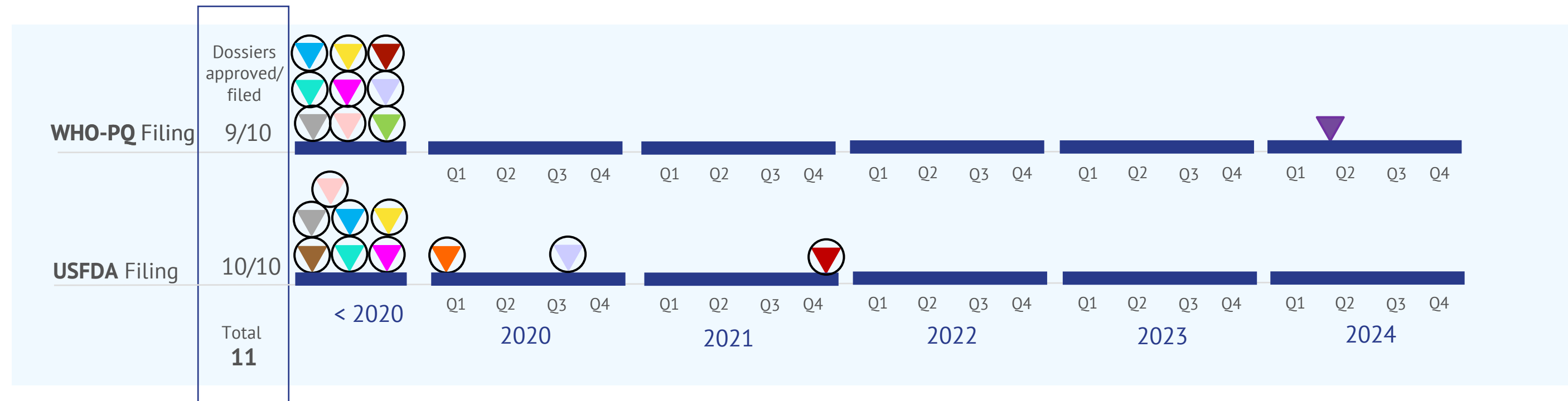
CURRENT SUBLICENSEES FOR ViiV-MPP DOLUTEGRAVIR LICENCE

14 Dolutegravir Sub-licensee Agreements



*Aurobindo is a direct licensee of ViiV. A tripartite agreement Aurobindo-ViiV-MPP has been signed. For the purposes of this presentation only, data from Aurobindo will be included in the presentation.

Note: the following presentation contains updates as of December 2024, however approvals through March 2025 are included.



Companies approved

Companies filed

Note: Each triangle represents a manufacturer and timelines represent date of filing

12 MPP LICENSEES HAVE DEVELOPED DTG 50MG, OF WHICH 11 ARE READY TO COMMERCIALIZE THE PRODUCT

Licensees Approved*: Aurobindo, Cipla, Desano, Emcure, Hetero, Laurus, Macleods, Micro Labs, Mylan, Strides, Sun Pharma

1 licensee awaiting WHO-PQ approval

*USFDA and/or WHO-PQ

Generic DTG 50mg has been filed in **78** countries, which contribute to an effective coverage of **93.7%**

PLHIV[^]

DTG 50MG: COUNTRY WISE FILING STATUS

APPROVED (67) 90.5% PLHIV [^]							
Anguilla*	Botswana	Costa Rica*	Honduras	Malaysia	Nigeria	Senegal	Uruguay*
Antigua and Barbuda*	Burkina Faso	Côte d'Ivoire	India	Mauritius	Oman*	South Africa	Uzbekistan
Armenia	Burundi	Dominica*	Indonesia	Moldova	Pakistan	Tajikistan	Zambia
Azerbaijan	Cambodia	Dominican Republic*	Iran*	Montserrat*	Panama*	Tanzania	Zimbabwe
Bahamas*	Cameroon	Ecuador	Kazakhstan	Mozambique	Peru*	Thailand*	
Barbados*	Chad	Ethiopia	Kenya	Myanmar	Philippines	Turkmenistan	
Belarus	Chile*	Ghana	Kyrgyzstan	Namibia	Rwanda	Turks and Caicos Islands*	
Benin	Congo	Grenada	Madagascar	Nicaragua	Saint Lucia*	Uganda	
Bhutan	Congo, DR	Guatemala	Malawi	Niger	Saint Vincent and the Grenadines*	Ukraine	

FILED (11) 3.2% PLHIV [^]		
Algeria	El Salvador	Morocco
Angola	Guyana	Sri Lanka
Bolivia	Jamaica	Viet Nam
Colombia	Mali	

▪ New filings and approvals in **green** vis-à-vis last update (Q2-24)

▪ Countries where DTG has been sold indicated in **bold type**

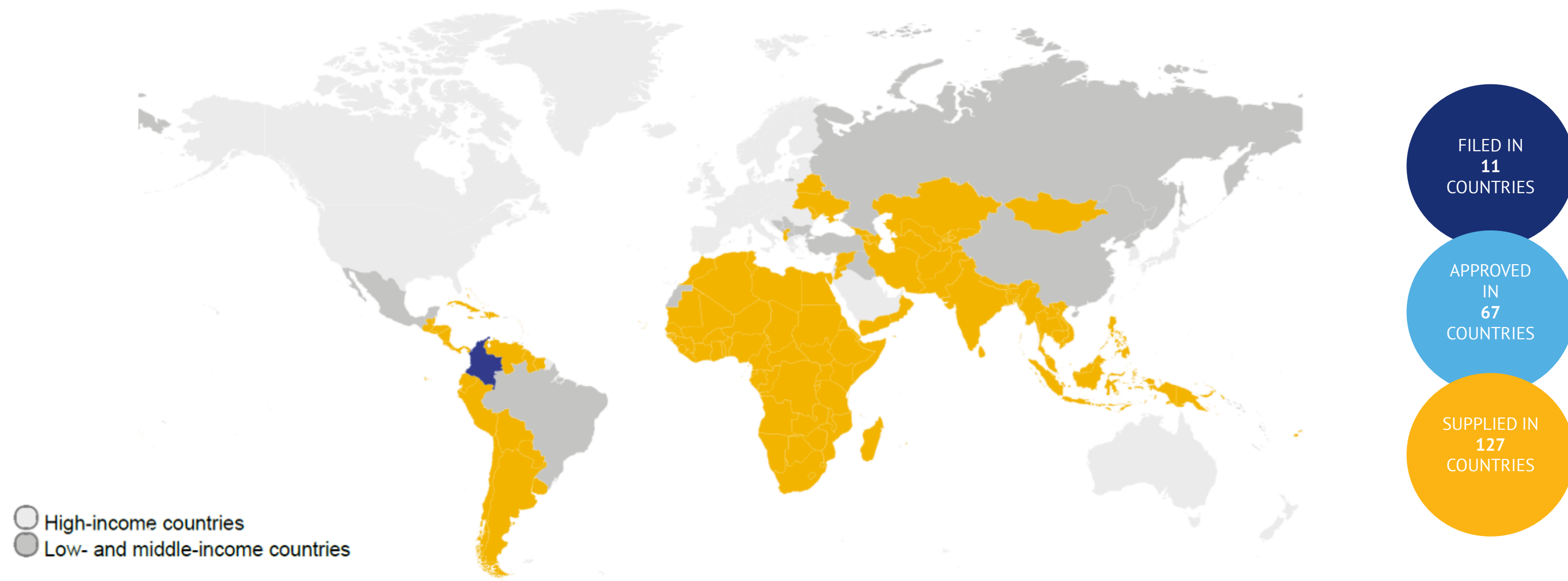
* Countries not included in DTG Adult licence but supply by MPP licensees permitted if no patent is being infringed in that country

[^] People living with HIV (2023) in the licensed territory (refer [MPP-ViiV DTG licence agreement](#) and [MPP-ViiV DTG UMIC licence](#)) and countries with no patent infringements

Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

DTG 50mg Impact Map

Generic DTG 50mg sales have occurred in 127 countries in which 99.2% of PLHIV[^] reside



Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

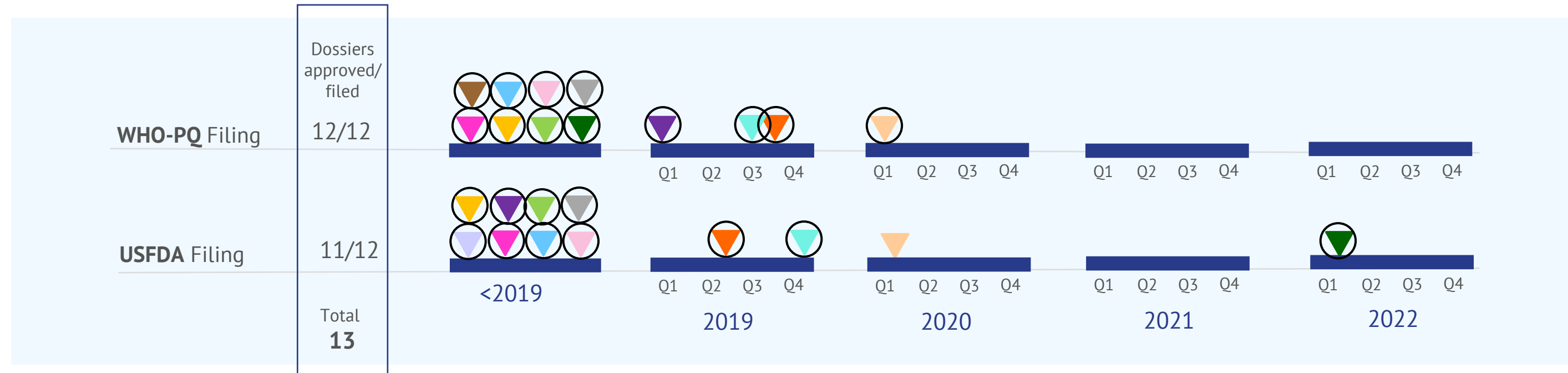
[^] People living with HIV (2023) in the licensed territory and countries with no patent infringements

#For licensed territory, refer:

[MPP-ViiV DTG adult licence](#)

[MPP-ViiV DTG UMIC licence](#)

Data as of December 2024



Companies approved



Companies filed

Note: Each triangle represents a manufacturer and timelines represent date of filing

13 MPP LICENSEES HAVE DEVELOPED TDF/3TC/DTG AND ALL ARE READY TO COMMERCIALIZE THE PRODUCT

Licensees Approved*: Aurobindo, Celltrion, Cipla, Desano, Emcure, Hetero, Laurus, Lupin, Macleods, Micro Labs, Mylan, Strides, Sun Pharma

1 licensee awaiting USFDA approval

*USFDA and/or WHO-PQ

TDF/3TC/DTG has been filed in **83** countries which contribute to an effective coverage of **94.3%** PLHIV[^]

TDF/3TC/DTG (TLD): COUNTRY WISE FILING STATUS

APPROVED (71) 90.7% PLHIV [^]							
Anguilla*	Bhutan	Congo, DR	Guatemala	Madagascar	Myanmar	Saint Kitts and Nevis*	Turkmenistan
Antigua and Barbuda*	Botswana	Côte d'Ivoire	Guyana	Malawi	Namibia	Saint Lucia*	Turks and Caicos Islands*
Armenia	Burkina Faso	Dominica*	Haiti	Malaysia	Nepal	Saint Vincent and the Grenadines*	Uganda
Azerbaijan	Burundi	Eritrea	India	Mali	Niger	Senegal	Ukraine
Bahamas*	Cambodia	Ethiopia	Indonesia	Mauritania	Nigeria	South Africa	Uzbekistan
Barbados*	Cameroon	Gabon	Jamaica	Mauritius	Panama*	Suriname*	Viet Nam
Belarus	Chad	Gambia	Kazakhstan	Moldova	Peru*	Tajikistan	Zambia
Belize*	Chile*	Ghana	Kenya	Montserrat*	Philippines	Tanzania	Zimbabwe
Benin	Congo	Grenada*	Kyrgyzstan	Mozambique	Rwanda	Thailand	

FILED (12) 3.6% PLHIV [^]			
Angola	Lebanon	Sierra Leone	Sudan
Costa Rica*	Morocco	South Sudan	Togo
Guinea	Pakistan	Sri Lanka	Uruguay*

New filings and approvals in **green** vis-à-vis last update (Q2-24)

Countries where TLD has been sold indicated in **bold type**

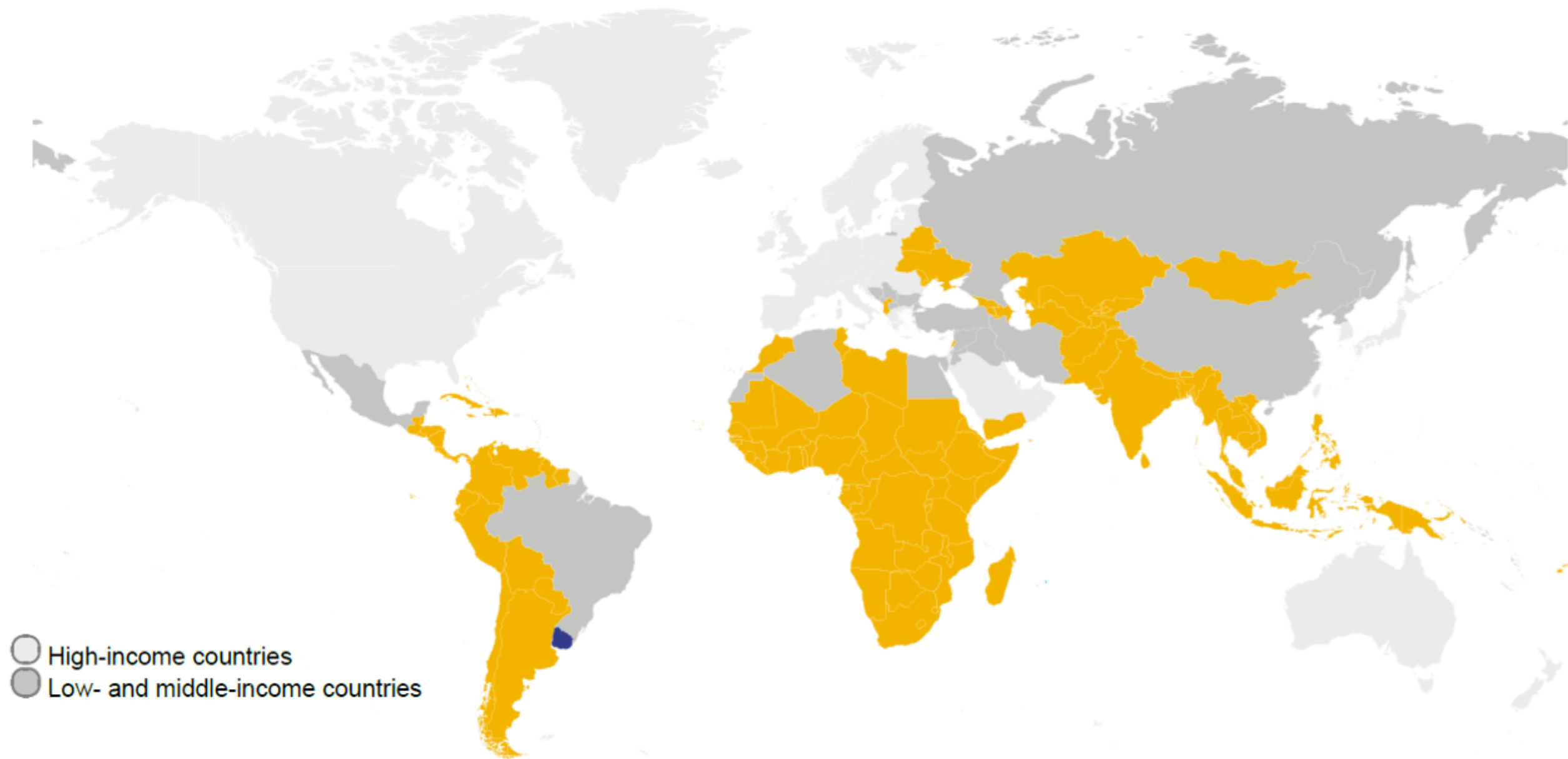
* Countries not included in DTG Adult licence but supply by MPP licensees permitted if no patent is being infringed in that country

[^] People living with HIV (2023) in the licensed territory (refer [MPP-ViiV DTG licence agreement](#) and [MPP-ViiV DTG UMIC licence](#)) and countries with no patent infringements and with compulsory licence issued

Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

TDF/3TC/DTG Impact Map

Generic TLD sales have occurred in 118 countries in which 99.5% of PLHIV[^] reside



FILED IN
12
COUNTRIES

APPROVED
IN
71
COUNTRIES

SUPPLIED IN
118
COUNTRIES

Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

[^] People living with HIV (2023) in the licensed territory and countries with no patent infringements

#For licensed territory, refer:

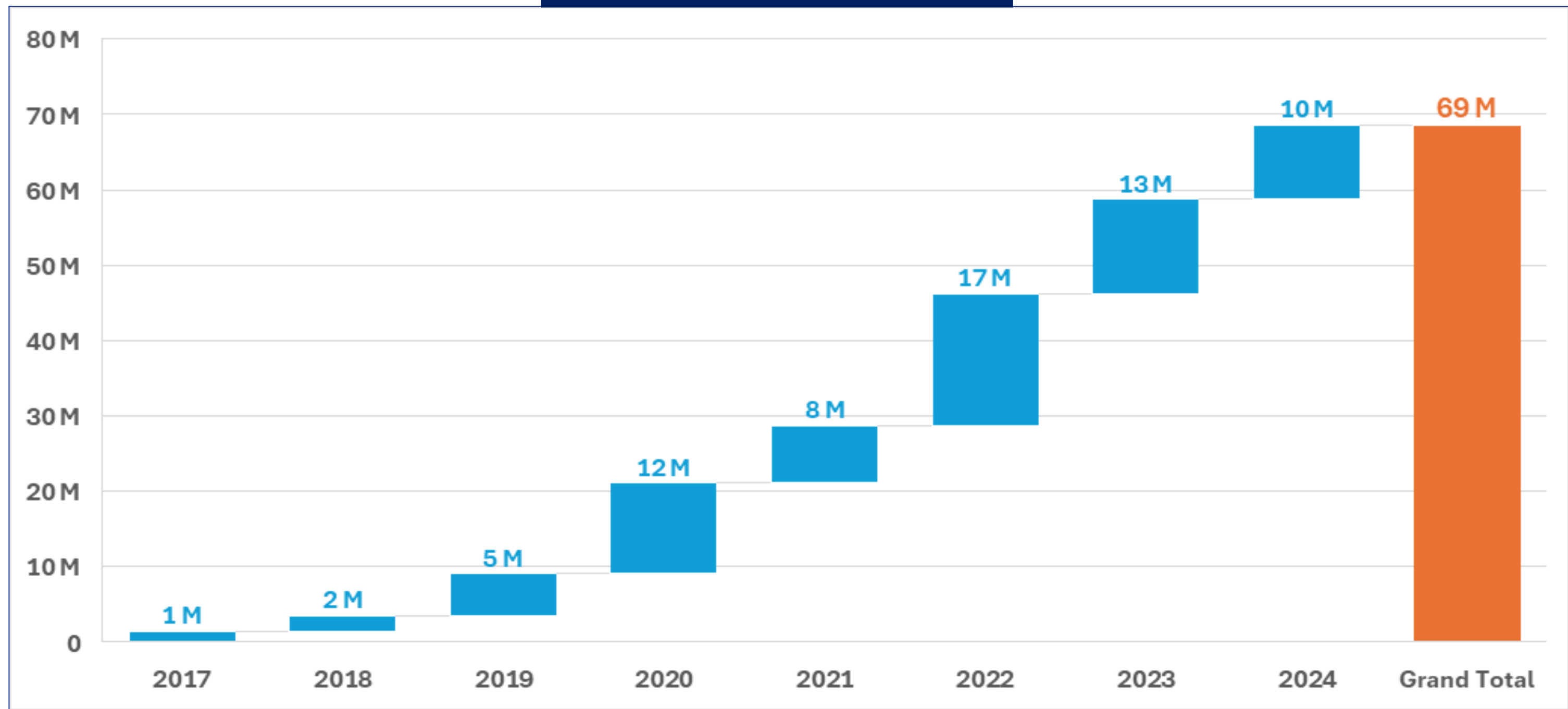
[MPP-ViiV DTG adult licence](#)

[MPP-ViiV DTG UMIC licence](#)

COUNTRIES OF SALE OF DTG BASED TREATMENTS (ADULT) (2017- 2024)

COUNTRIES OF SALE (129)					
Afghanistan	Cambodia	Fiji	Lebanon	Oman	Syrian Arab Republic
Albania	Cameroon	Gabon	Lesotho	Pakistan	Tajikistan
Algeria	Central African Republic	Gambia	Liberia	Panama	Tanzania
Angola	Chad	Georgia	Libya	Papua New Guinea	Thailand
Anguilla	Chile	Ghana	Madagascar	Paraguay	Timor-Leste
Antigua and Barbuda	Comoros	Grenada	Malawi	Peru	Togo
Argentina	Colombia	Guatemala	Malaysia	Philippines	Tunisia
Armenia	Congo	Guinea	Mali	Rwanda	Turkmenistan
Azerbaijan	Congo, DR	Guinea-Bissau	Mauritania	Saint Kitts and Nevis	Turks and Caicos Islands
Bahamas	Costa Rica	Guyana	Mauritius	Saint Lucia	Uganda
Bangladesh	Côte d'Ivoire	Haiti	Micronesia	Saint Vincent and the Grenadines	Ukraine
Barbados	Cuba	Honduras	Moldova	Sao Tome and Principe	Uruguay
Belarus	Djibouti	India	Mongolia	Senegal	Uzbekistan
Belize	Dominica	Indonesia	Montserrat	Seychelles	Venezuela
Benin	Dominican Republic	Iran	Morocco	Sierra Leone	Vietnam
Bermuda	Ecuador	Jamaica	Mozambique	Somalia	Virgin Islands (British)
Bhutan	Egypt	Jordan	Myanmar	South Africa	Yemen
Bolivia	El Salvador	Kazakhstan	Namibia	South Sudan	Zambia
Botswana	Equatorial Guinea	Kenya	Nepal	Sri Lanka	Zimbabwe
Burkina Faso	Eritrea	Kosovo	Nicaragua	State of Palestine	-
Burundi	Eswatini	Kyrgyzstan	Niger	Sudan	-
Cabo Verde	Ethiopia	Laos PDR	Nigeria	Suriname	-

69 million packs of DTG 50mg sold till December 2024

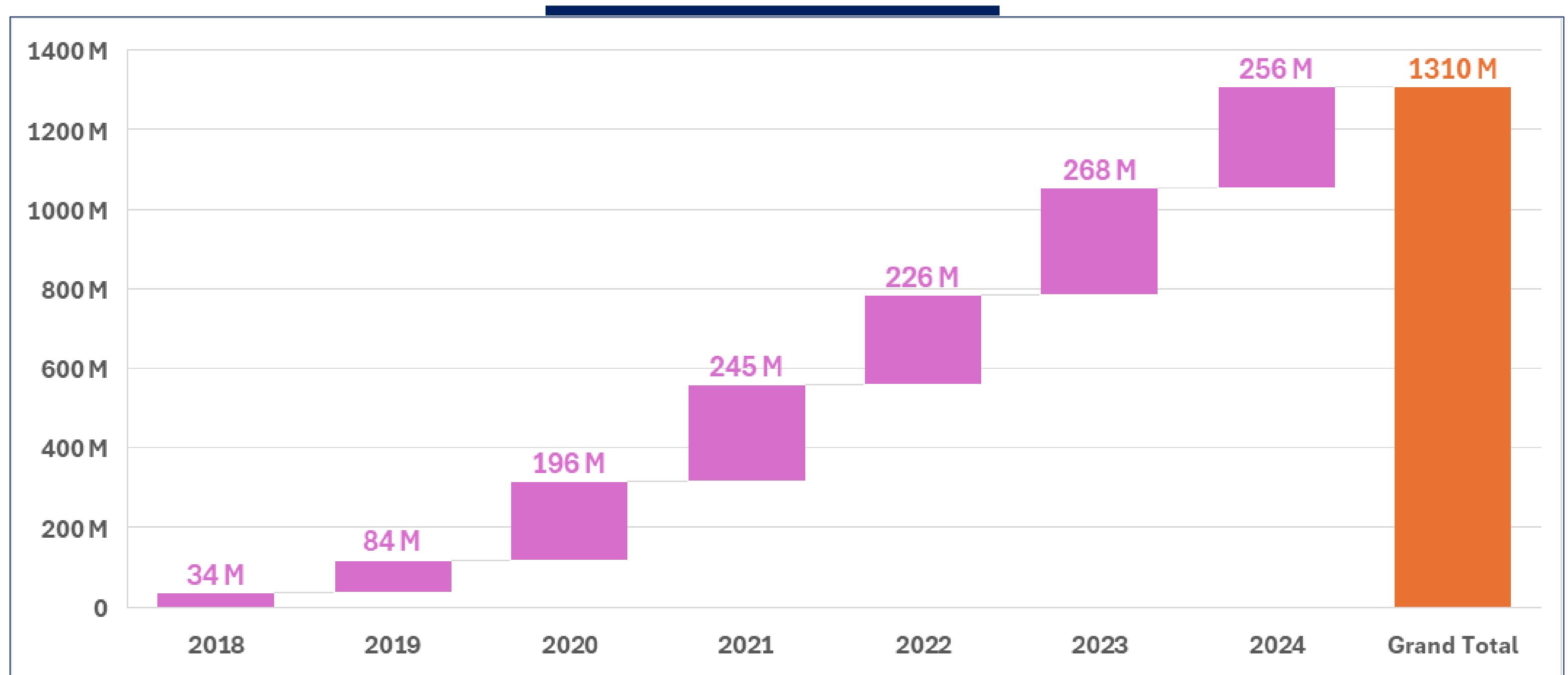


Source: confidential sales data by MPP licensees

Note: Packs of 28's, 90's & 180's converted to 30's for this analysis

● DTG 50mg ● Total Packs

1.31 billion packs of TLD sold till December 2024



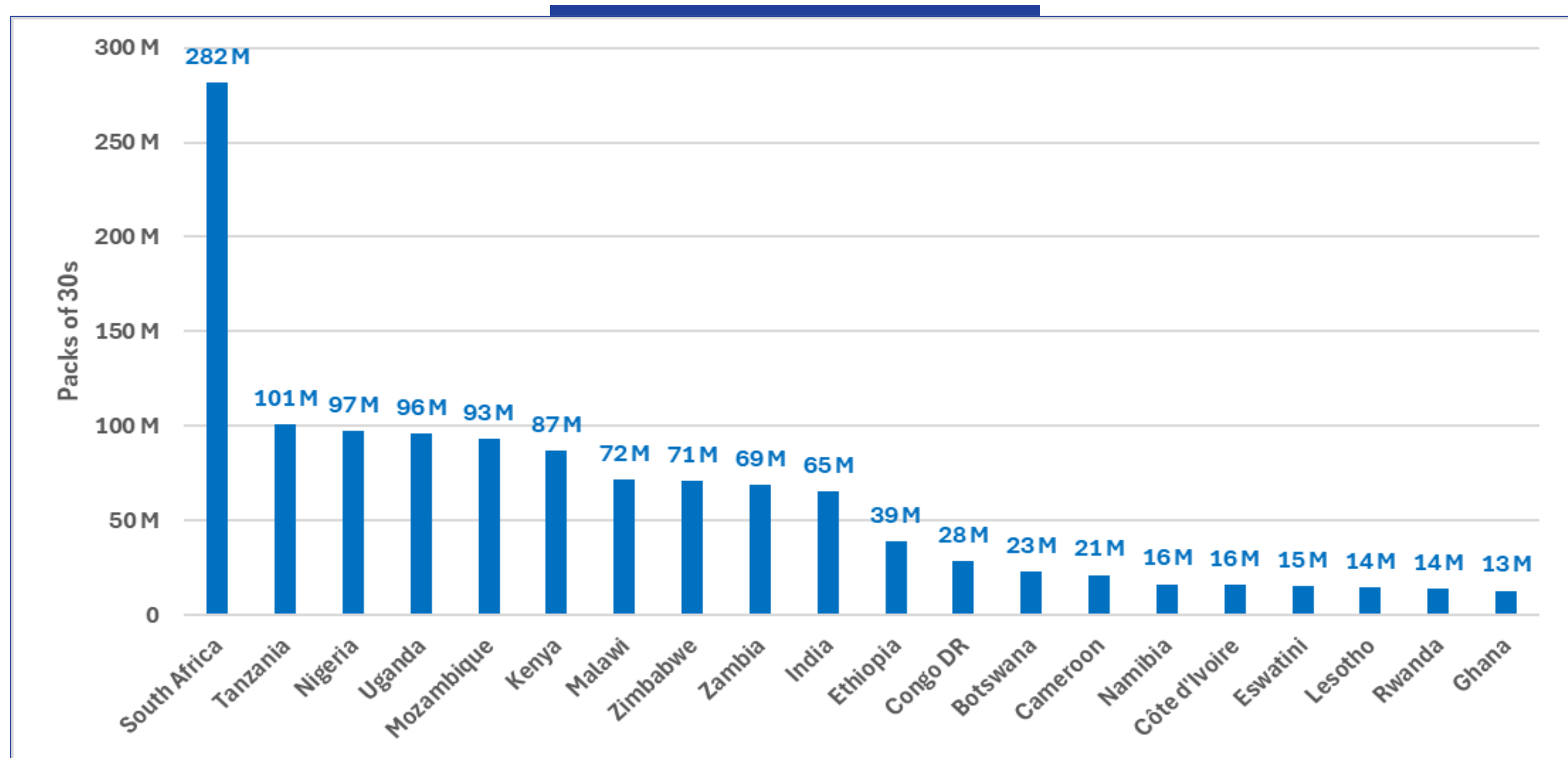
Source: confidential sales data by MPP licensees

Note: Packs of 28's, 90's & 180's converted to 30's for this analysis

● TLD ● Total Packs

TOP COUNTRY RECIPIENTS OF ADULT DTG BASED FORMULATIONS (2017 to 2024)

Top 20 countries receiving Adult DTG based treatments

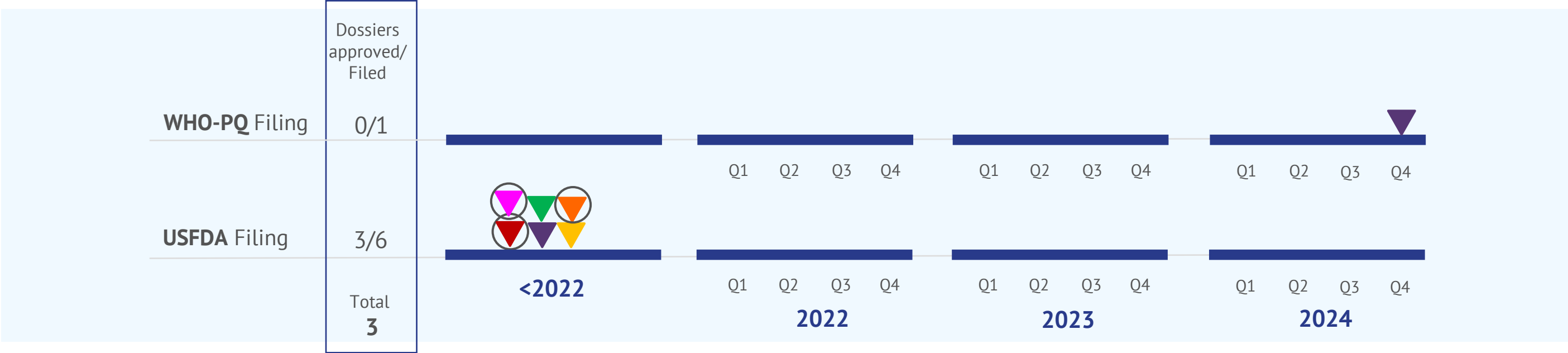


Source: confidential sales data by MPP licensees

Note: Packs of 28's, 90's & 180's converted to 30's for this analysis
Analysis includes sales DTG 50mg, TLD, ALD Adult, TAF-ED, TAF-LD, DTG/3TC, DTG/RPV

Data as of December 2024

ABC/3TC/DTG ADULT (ALD): FORMULATION DEVELOPMENT TIMELINES



Companies approved



Companies filed

Note: Each triangle represents a manufacturer and timelines represent date of filing

**6 MPP LICENSEES HAVE DEVELOPED ABC/3TC/DTG ADULT FORMULATION, OF WHICH:
3 ARE READY TO COMMERCIALIZE**

Licensees Approved: Aurobindo, Emcure, Laurus

3 licensees awaiting USFDA approval | 1 licensee awaiting WHO-PQ approval

ABC/3TC/DTG has been filed in **39** countries which contribute to an effective coverage of **86.6%** PLHIV[^]

ABC/3TC/DTG (ALD): COUNTRY WISE FILING STATUS

APPROVED (22) 71.4% PLHIV [^]					
Botswana	Ghana	Kyrgyzstan	Nigeria	Uganda	Zambia
Cambodia	India	Malawi	Rwanda	Ukraine	Zimbabwe
Cameroon	Kazakhstan	Myanmar	South Africa	Uruguay*	
Gabon	Kenya	Namibia	Tanzania	Uzbekistan	

FILED (17) 15.2% PLHIV [^]				
Belarus	El Salvador	Jamaica	Philippines	Viet Nam
Congo, DR	Ethiopia	Moldova	Senegal	
Costa Rica*	Guatemala	Mozambique	Sri Lanka	
Côte d'Ivoire	Guyana	Pakistan	Thailand	

New filings and approvals in **green** vis-à-vis last update (Q2-24)

Countries where ALD has been sold indicated in **bold type**

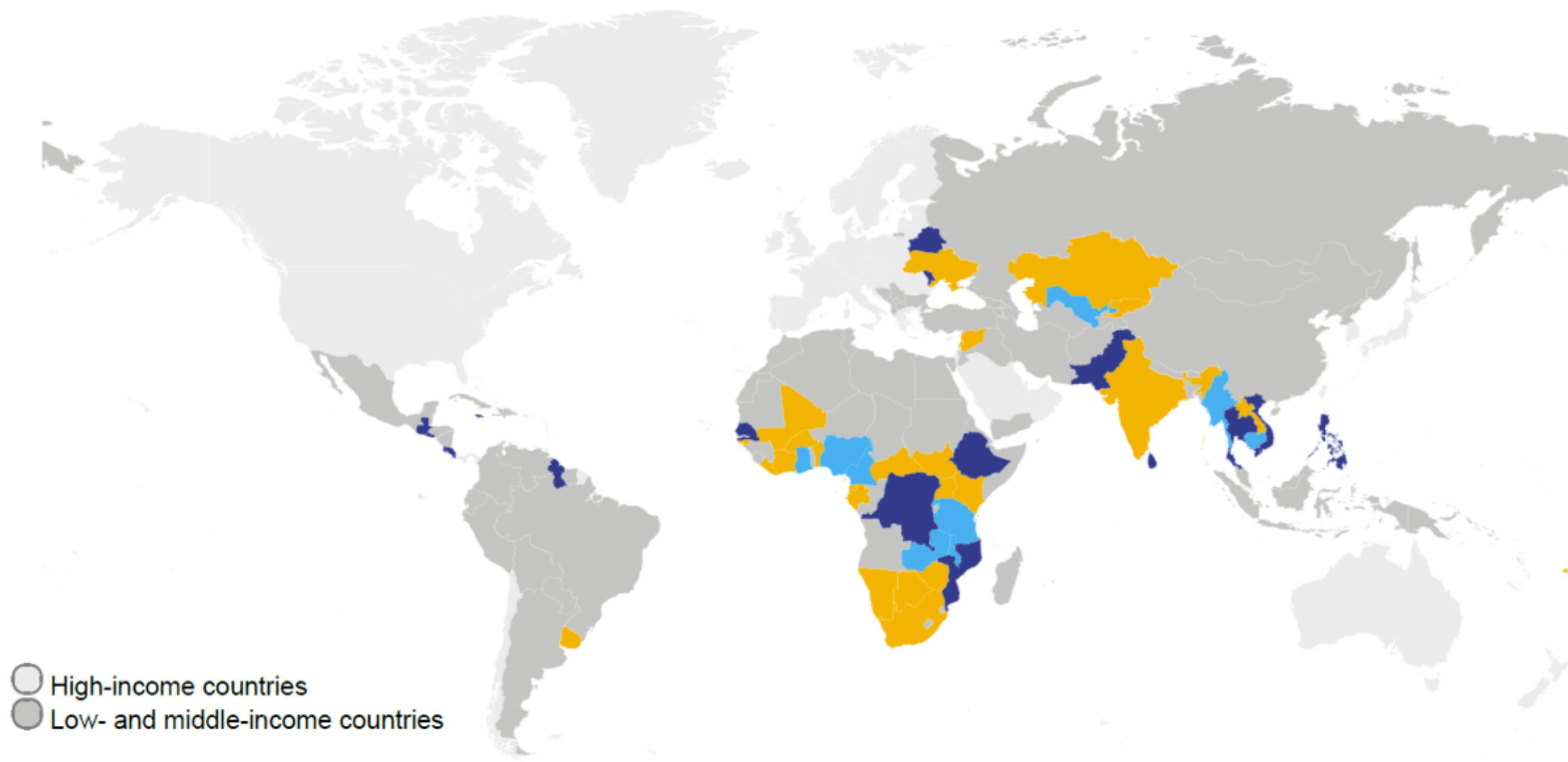
• Countries not included in DTG Adult licence but supply by MPP licensees permitted if no patent is being infringed in that country

[^] People living with HIV (2023) in the licensed territory (refer [MPP-ViiV DTG licence agreement](#) and [MPP-ViiV DTG UMIC licence](#)) and countries with no patent infringements

Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

ABC/3TC/DTG Adult Impact Map

Generic ALD adult sales have occurred in 25 countries in which 51.6% of PLHIV[^] reside



FILED IN
17
COUNTRIES

APPROVED
IN
22
COUNTRIES

SUPPLIED IN
25
COUNTRIES

Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

[^] People living with HIV (2023) in the licensed territory and countries with no patent infringements

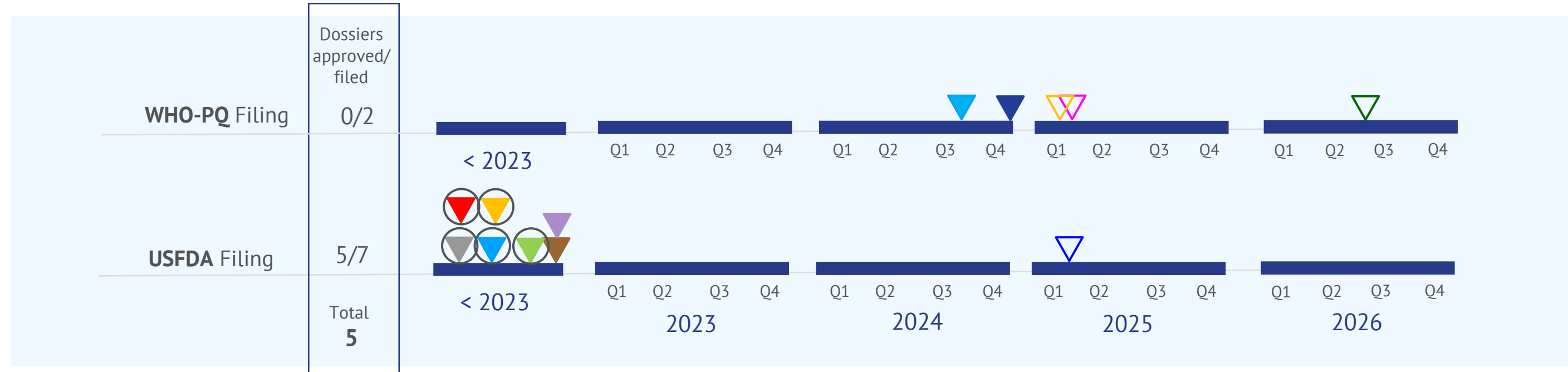
#For licensed territory, refer:

[MPP-ViiV DTG adult licence](#)

[MPP-ViiV DTG UMIC licence](#)

Data as of December 2024

TAF/FTC/DTG (TAF-ED): FORMULATION DEVELOPMENT TIMELINES



Companies approved



Companies filed



Companies planning to file

Note: Each triangle represents a manufacturer and timelines represent date of filing

8 MPP LICENSEES HAVE DEVELOPED TAF/FTC/DTG FORMULATION, OF WHICH: 5 ARE READY TO COMMERCIALIZE

Licensees Approved: Aurobindo, Hetero, Laurus, Lupin, Mylan

2 licensees awaiting USFDA approval | 2 licensees awaiting WHO-PQ approval | 2 additional licensee developing

TAF/FTC/DTG has been filed in **43** countries which contribute to an effective coverage of **92.2%** of PLHIV[^]

APPROVED (29) 86% PLHIV [^]				
Botswana	Dominican Republic	Kazakhstan	Namibia	Thailand
Burkina Faso	Ethiopia	Kenya	Nigeria	Uganda
Cambodia	Gabon	Kyrgyzstan	Philippines	Ukraine
Cameroon	Ghana	Malawi	Rwanda	Zambia
Congo	Guatemala	Mozambique	South Africa	Zimbabwe
Congo, DR	India	Myanmar	Tanzania	

TAF/FTC/DTG (TAF-ED): COUNTRY WISE FILING STATUS

FILED (14) 6.2% PLHIV [^]			
Benin	Indonesia	Moldova	Sri Lanka
Côte d'Ivoire	Jamaica	Niger	Viet Nam
El Salvador	Malaysia	Pakistan	
Guyana	Mali	Senegal	

New filings and approvals in **green** vis-à-vis last update (Q2-24)

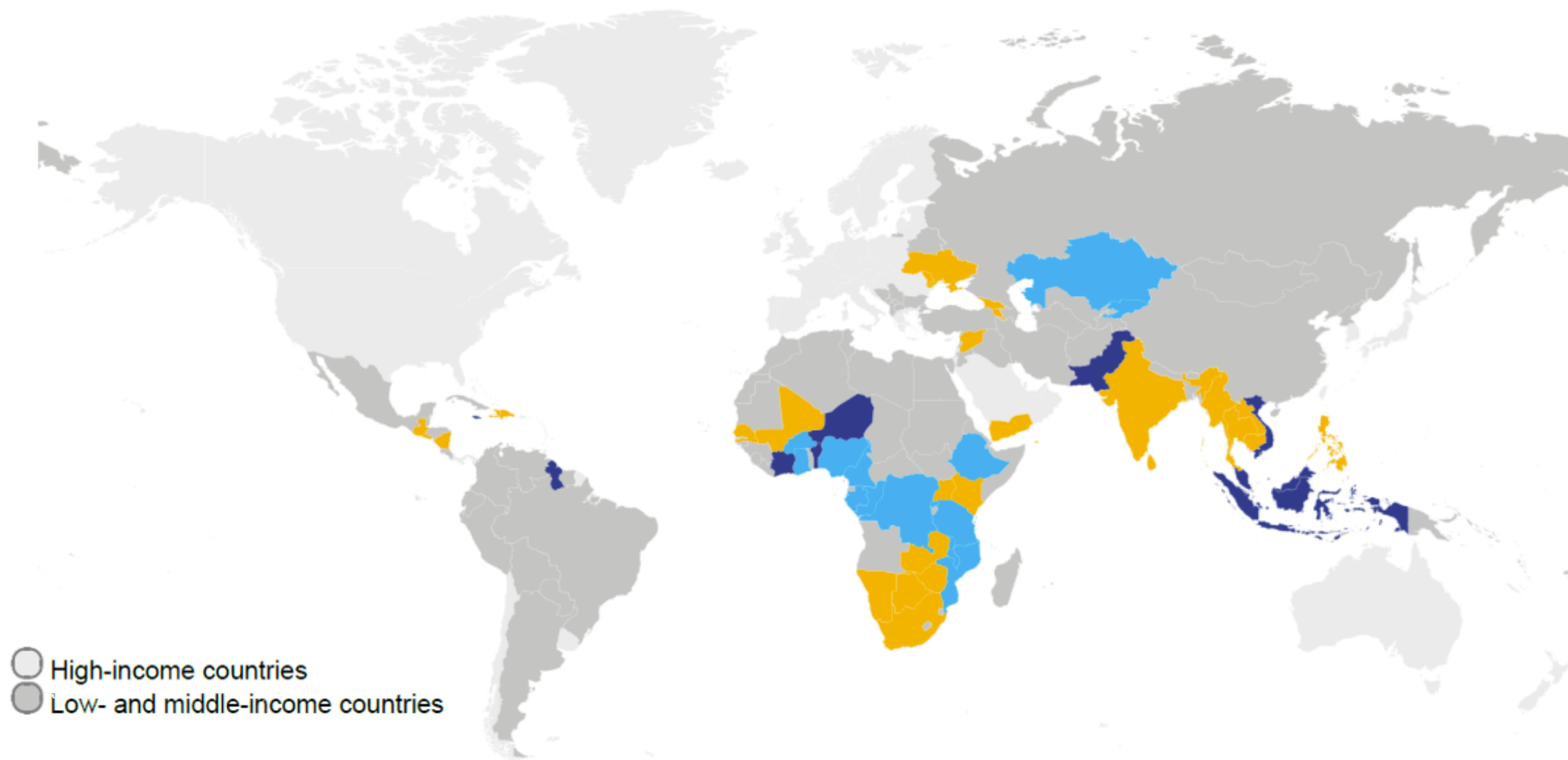
Countries where TAF-ED has been sold indicated in **bold type**

[^] People living with HIV (2023) in the licensed territory (refer [MPP-Gilead TAF licence agreement](#))

Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

TAF/FTC/DTG Impact Map

TAF-ED sales have occurred in 28 countries in which 57.6% of PLHIV[^] reside

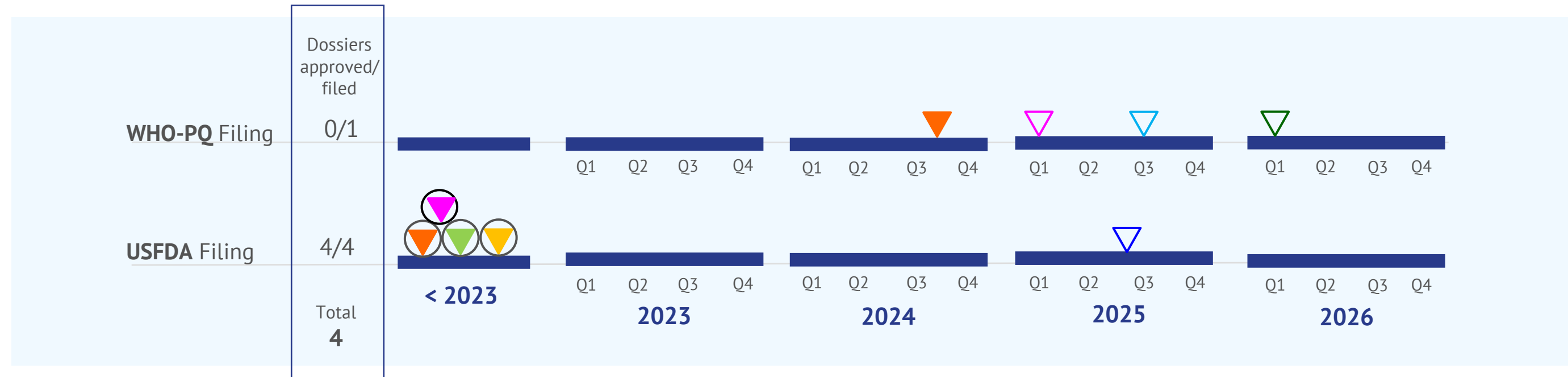


Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

[^] People living with HIV (2023) in the licensed territory (refer [MPP-Gilead TAF licence agreement](#))

Data as of December 2024

TAF/3TC/DTG (TAF-LD): FORMULATION DEVELOPMENT TIMELINES



 Companies approved
  Companies filed
  Companies planning to file

Note: Each triangle represents a manufacturer and timelines represent date of filing

4 MPP LICENSEES HAVE DEVELOPED TAF/3TC/DTG ADULT FORMULATION AND ALL ARE READY TO COMMERCIALIZE

Licensees Approved: Cipla, Laurus, Lupin, Mylan

1 licensee awaiting WHO-PQ approval | 3 additional licensees developing

TAF/3TC/DTG (TAF-LD): COUNTRY WISE FILING STATUS

TAF/3TC/DTG has been filed in **22** countries

APPROVED (15)				
Botswana	Congo, DR	Malawi	Nigeria	Tanzania
Cameroon	Ethiopia	Mozambique	Rwanda	Zambia
Congo	Kenya	Namibia	South Africa	Zimbabwe

FILED (7)			
Benin	Côte d'Ivoire	Senegal	Viet Nam
Burkina Faso	Ghana	Uganda	

New filings and approvals in **green** vis-à-vis last update (Q2-24)

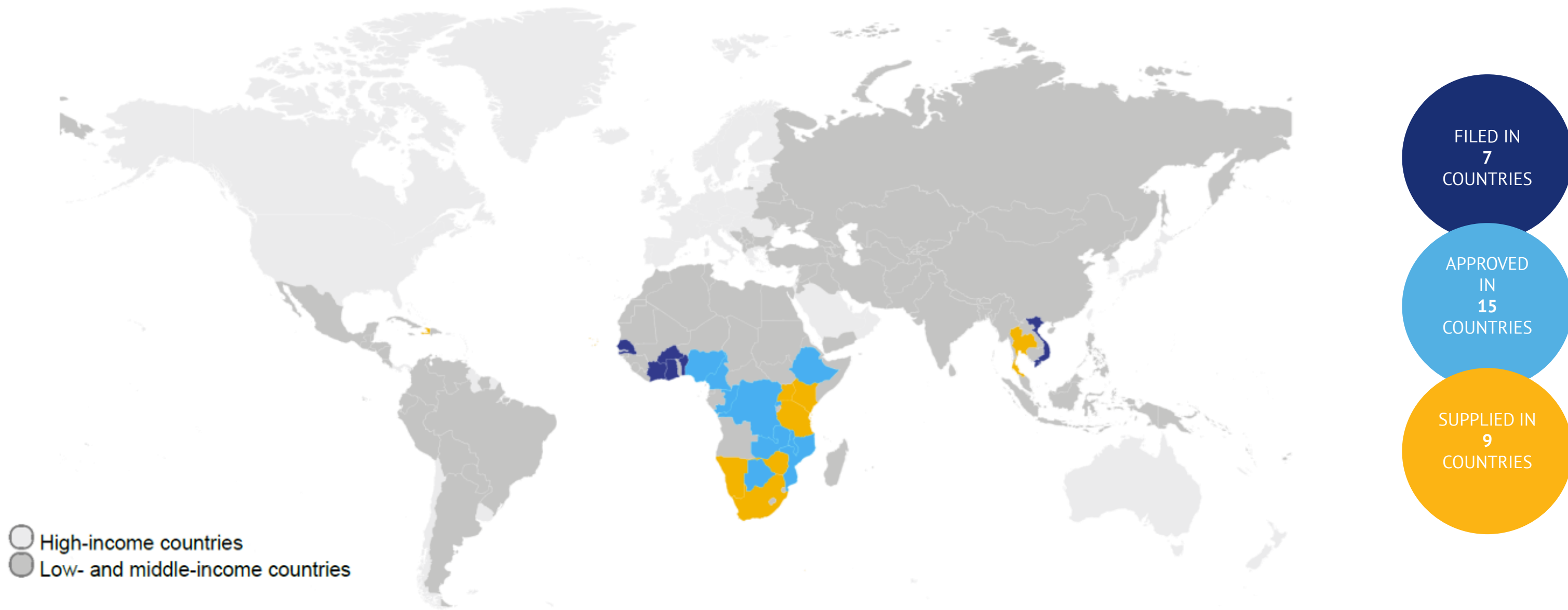
Countries where TAF-LD has been sold indicated in **bold type**

^ People living with HIV (2023) in the licensed territory (refer [MPP-Gilead TAF licence agreement](#))

Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

TAF/3TC/DTG Impact Map

TAF-LD sales have occurred in 9 countries in which 45.5% of PLHIV[^] reside

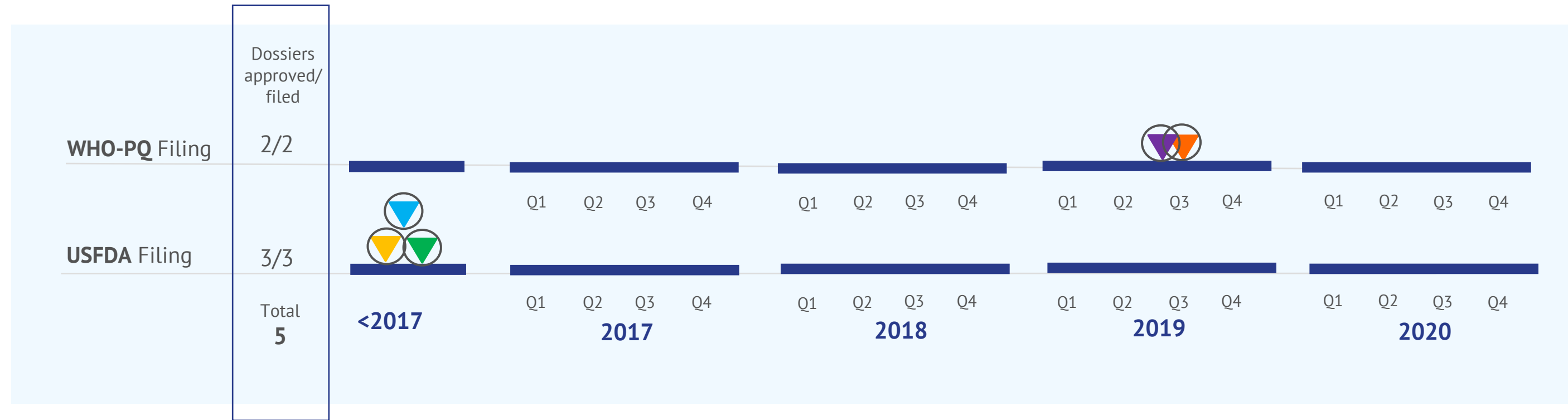


Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

[^] People living with HIV (2023) in the licensed territory (refer [MPP-Gilead TAF licence agreement](#))

Data as of December 2024

FORMULATION DEVELOPMENT TIMELINES



 Companies approved

Note: Each triangle represents a manufacturer and timelines represent date of filing

**5 MPP LICENSEES HAVE DEVELOPED ATV/R FORMULATION AND
ALL ARE READY TO COMMERCIALIZE**

Licensees Approved*: Cipla, Desano, Emcure, Mylan, Sun Pharma

*USFDA and/or WHO-PQ

Generic ATV/r has been filed in **51** countries which contribute to an effective coverage of **88.9%** PLHIV[^]

APPROVED (41) 84.6% PLHIV [^]					
Armenia	Colombia*	Guyana	Malaysia	Namibia	Trinidad and Tobago*
Belarus	Congo	India	Malawi	Nigeria	Uganda
Bolivia	Congo DR	Iran	Mali	Peru*	Ukraine
Botswana	Dominican Republic	Jamaica	Mauritius	Philippines	Uzbekistan
Burkina Faso	Ethiopia	Kenya	Moldova	Rwanda	Zambia
Cambodia	Ghana	Kyrgyzstan	Mozambique	South Africa	Zimbabwe
Cameroon	Guatemala	Madagascar	Myanmar	Tanzania	

ATV/R: COUNTRY WISE FILING STATUS

FILED (10) 4.3% PLHIV [^]			
Benin	El Salvador	Pakistan	Viet Nam
Burundi	Indonesia	Senegal	
Costa Rica	Nepal	Sri Lanka	

New approvals in **green** vis-à-vis last update (Q2-24)

Countries where ATV/r has been sold indicated in **bold type**

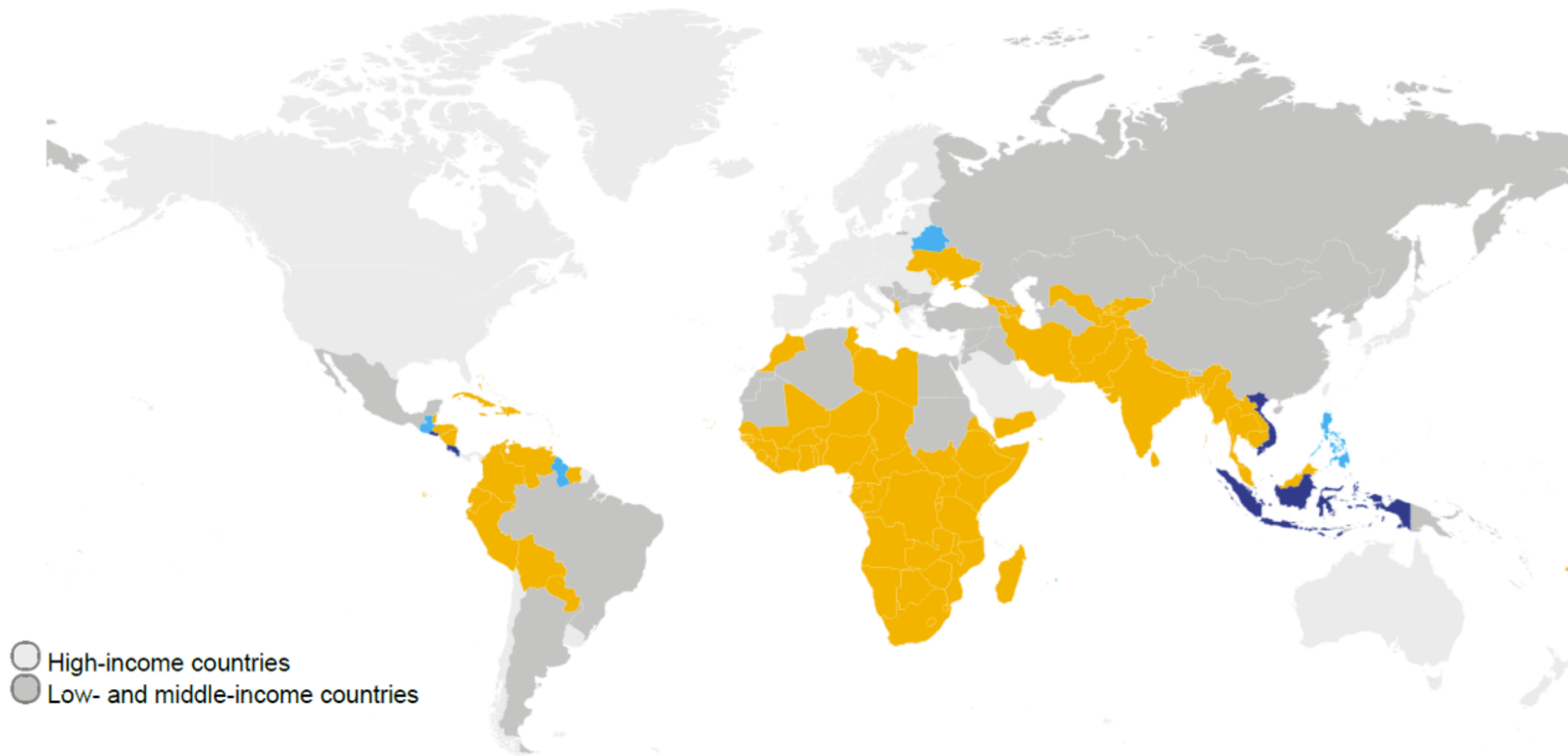
* Countries not included in ATV licence but supply by MPP licensees permitted if no patent is being infringed in that country

[^] People living with HIV (2023) in the licensed territory (refer [MPP-BMS ATV licence agreement](#)) and countries with no patent infringements

Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

ATV/r Impact Map

ATV/r sales have occurred in 98 countries in which 95.1% of PLHIV[^] reside



FILED IN
10
COUNTRIES

APPROVED
IN
41
COUNTRIES

SUPPLIED IN
98
COUNTRIES

FORMULATION DEVELOPMENT TIMELINES



Companies approved



Companies filed



Companies planning to file

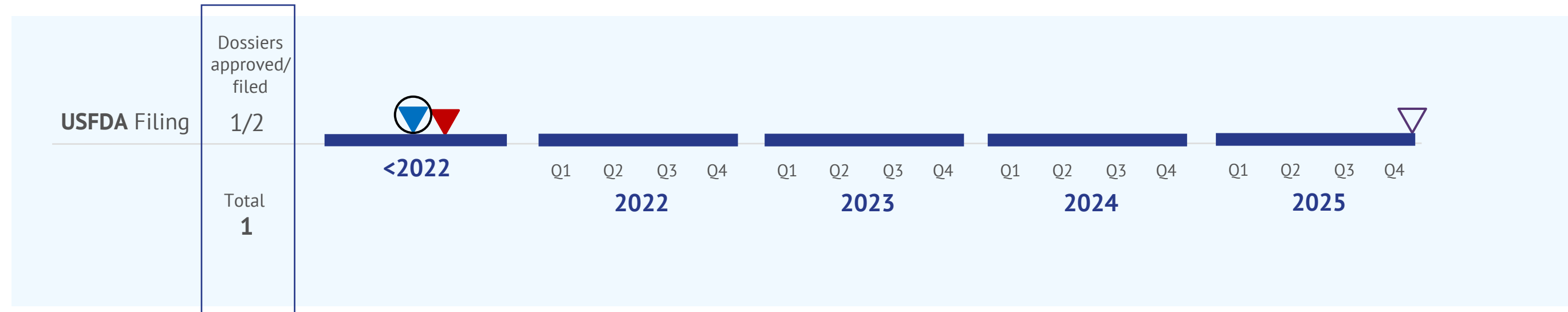
Note: Each triangle represents a manufacturer and timelines represent date of filing

**4 MPP LICENSEES HAVE DEVELOPED DTG/3TC DUAL FORMULATION, OF WHICH:
2 ARE READY TO COMMERCIALIZE**

Licensee Approved: Cipla, Hetero

2 licensees awaiting USFDA approval | 2 additional licensee developing

FORMULATION DEVELOPMENT TIMELINES



 Companies approved
  Companies filed
  Companies planning to file

Note: Each triangle represents a manufacturer and timelines represent date of filing

**2 MPP LICENSEES HAVE DEVELOPED DTG/RPV DUAL FORMULATION, OF WHICH:
1 IS READY TO COMMERCIALIZE**

Licensee Approved: Lupin

1 licensee awaiting USFDA approval | 1 additional licensee developing

FORMULATION DEVELOPMENT TIMELINES



 Companies approved
  Companies filed
  Companies planning to file

Note: Each triangle represents a manufacturer and timelines represent date of filing

**6 MPP LICENSEES HAVE DEVELOPED TAF/FTC DUAL FORMULATION, OF WHICH:
3 ARE READY TO COMMERCIALIZE**

Licensee Approved: Aurobindo, Laurus, Lupin

3 licensees awaiting USFDA approval



medicines
patent
pool

NYUMBANI
is a part
of the
DTG story

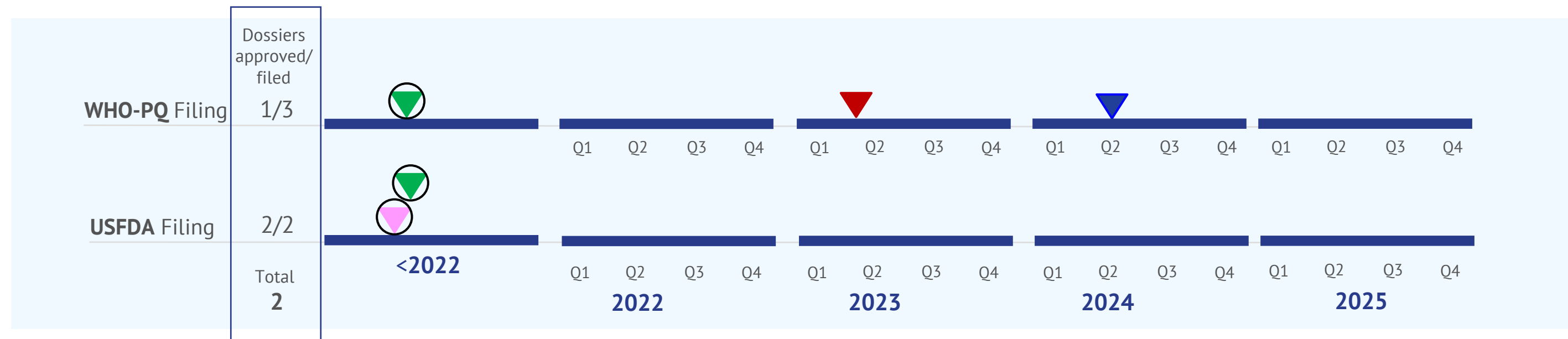
PAEDIATRIC HIV

MEDICINESPATENTPOOL.ORG

COUNTRIES OF SALE OF DTG BASED TREATMENTS (PAEDIATRIC) (2021- 2024)

COUNTRIES OF SALE (102)					
Albania	Comoros	Guinea	Mali	Sierra Leone	Zambia
Angola	Congo	Guinea-Bissau	Mauritania	Somalia	Zimbabwe
Argentina	Congo, DR	Guyana	Mauritius	South Africa	
Armenia	Côte d'Ivoire	Haiti	Moldova	South Sudan	
Azerbaijan	Cuba	Honduras	Morocco	Sri Lanka	
Bangladesh	Djibouti	India	Mozambique	Sudan	
Belarus	Dominican Republic	Indonesia	Myanmar	Suriname	
Belize	Ecuador	Iran	Namibia	Syrian Arab Republic	
Benin	Egypt	Jamaica	Nepal	Tajikistan	
Bhutan	El Salvador	Jordan	Nicaragua	Tanzania	
Bolivia	Equatorial Guinea	Kenya	Niger	Thailand	
Botswana	Eritrea	Kyrgyzstan	Nigeria	Timor-Leste	
Burkina Faso	Eswatini	Laos PDR	Pakistan	Togo	
Burundi	Ethiopia	Lebanon	Panama	Tunisia	
Cabo Verde	Fiji	Lesotho	Papua New Guinea	Uganda	
Cambodia	Gabon	Liberia	Paraguay	Ukraine	
Cameroon	Gambia	Libya	Philippines	Uzbekistan	
Central African Republic	Georgia	Madagascar	Rwanda	Venezuela	
Chad	Ghana	Malawi	Sao Tome and Principe	Vietnam	
Chile	Guatemala	Malaysia	Senegal	Yemen	-

DTG DT PAED (10MG SCORED): FORMULATION DEVELOPMENT TIMELINES



Companies approved



Companies filed

Note: Each triangle represents a manufacturer and timelines represent date of filing

**4 MPP LICENSEES HAVE DEVELOPED DTG DT PAED FORMULATION, OF WHICH:
2 ARE READY TO COMMERCIALIZE**

Licensees Approved*: Macleods, Mylan

2 licensees awaiting WHO approval

*USFDA and/or WHO-PQ

Generic DTG DT 10mg has been filed in **38** countries which contribute to an effective coverage of **91%** of CLHIV[^]

DTG DT PAED (10MG SCORED): COUNTRY WISE FILING STATUS

APPROVED (25) 83.2% CLHIV [^]				
Botswana	Ethiopia	Malawi	Nigeria	Togo
Cameroon	Ghana	Mali	Rwanda	Uganda
Chad	Guatemala	Mozambique	South Africa	Uzbekistan
Congo	India	Myanmar	Tanzania	Zambia
Congo, DR	Kenya	Namibia	Thailand	Zimbabwe

FILED (13) 7.8% CLHIV [^]			
Angola	Côte d'Ivoire	Indonesia	Viet Nam
Benin	Dominican Republic	Niger	
Burkina Faso	Gabon	Philippines	
Burundi	Guinea-Bissau	Senegal	

New filings and approvals in **green** vis-à-vis last update (Q2-24)

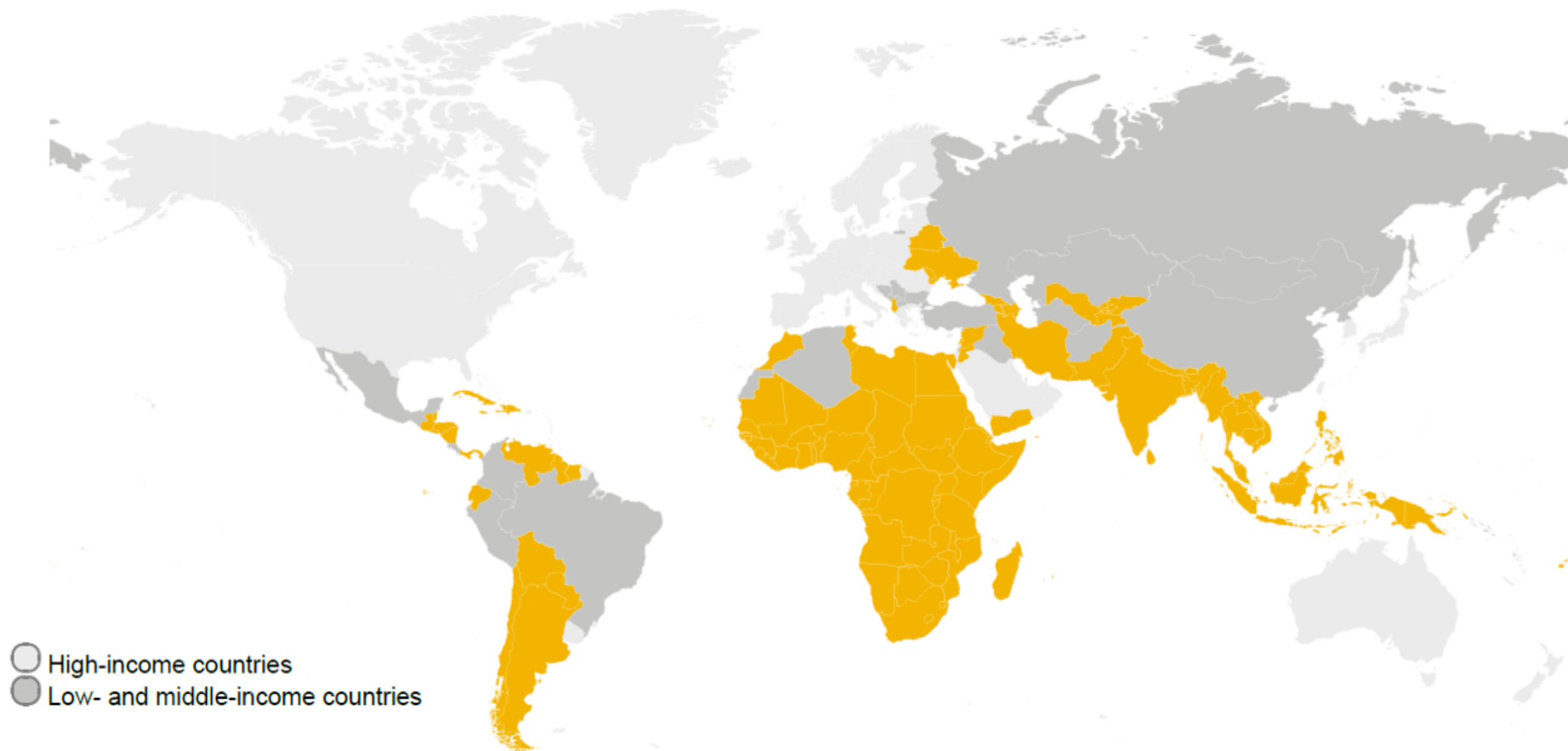
Countries where DTG DT 10MG has been sold indicated in **bold type**

[^] Children living with HIV (2023) in the licensed territory (refer [MPP-ViiV DTG Paed licence agreement](#)) and countries with no patent infringements

Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

DTG 10mg DT Impact Map

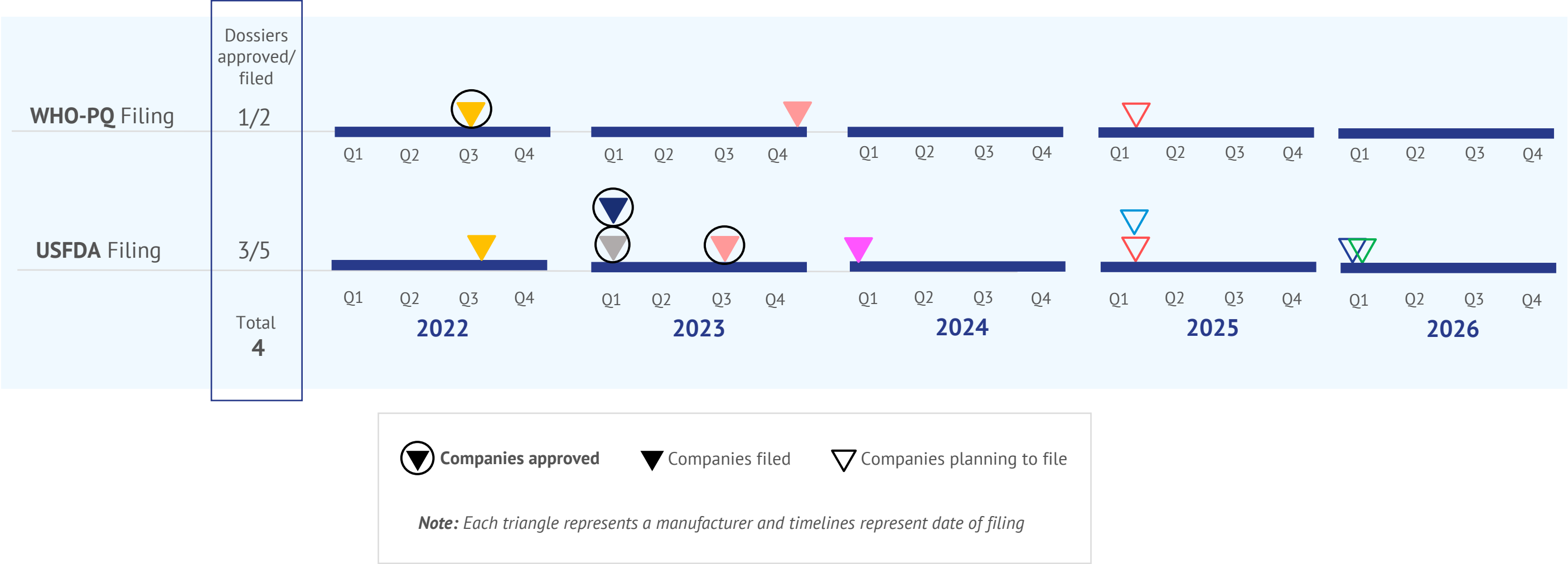
Generic DTG 10mg DT sales have occurred in 102 countries in which 99.5% of CLHIV[^]



FILED IN
13
COUNTRIES

APPROVED
IN
25
COUNTRIES

SUPPLIED IN
102
COUNTRIES



5 MPP LICENSEES HAVE DEVELOPED ABC/3TC/DTG PAED FORMULATION, OF WHICH:
4 ARE READY TO COMMERCIALIZE

Licensees Approved*: Aurobindo, Cipla, Lupin, Mylan

1 licensee awaiting WHO approval | 2 licensees awaiting USFDA approval | 4 additional licensees developing

*USFDA and/or WHO-PQ

ABC/3TC/DTG PAED: COUNTRY WISE FILING STATUS

Generic ALD paed has been filed in **33** countries, of which approval have been received in 10 countries

APPROVED (10)			
Botswana	Ghana	South Africa	Zimbabwe
Cameroon	Malawi	Tanzania	
Gabon	Mozambique	Uganda	

FILED (23)			
Angola	Congo DR	India	Niger
Benin	Côte d'Ivoire	Kenya	Nigeria
Burkina Faso	Eritrea	Madagascar	Rwanda
Burundi	Ethiopia	Mali	Senegal
Chad	Gambia	Myanmar	Zambia
Congo	Guinea	Namibia	

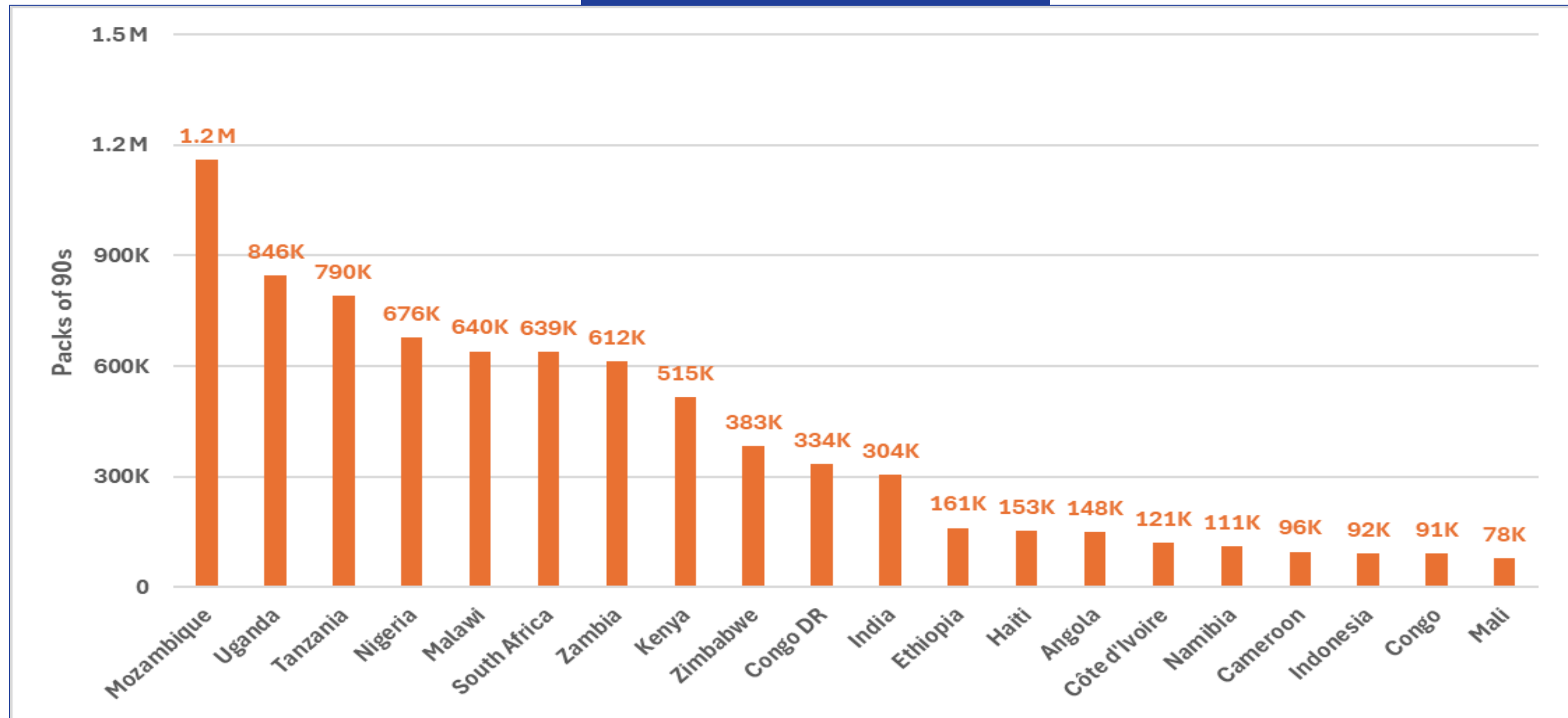
New filings and approvals in **green** vis-à-vis last update (Q2-24)

Country where ALD paed has been sold indicated in **bold type**

Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

TOP COUNTRY RECIPIENTS OF PAEDIATRIC DTG BASED FORMULATIONS (2021 TO 2024)

Top 20 countries receiving Paediatric DTG based treatments



Source: confidential sales data by MPP licensees

Note: Packs of 30's, 90's & 180's converted to 90's for this analysis

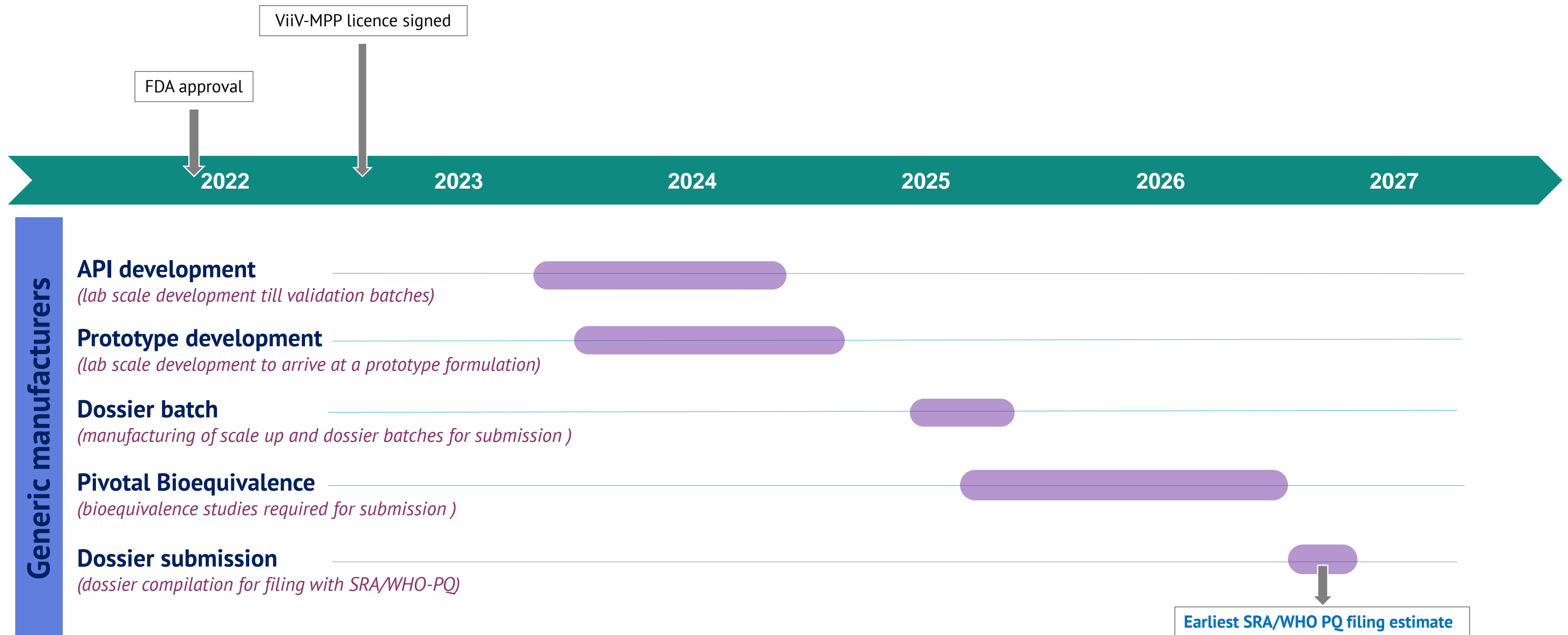


CABOTEGRAVIR

CURRENT SUBLICENSEES FOR ViiV-MPP CAB-LA LICENCE

3 CAB-LA Sub-licensee Agreements





- These timelines are not specific to any generic company; these are averages of the timelines required for different activities as shared by MPP licensees.
- The earliest possible timelines for filing is H2 2026 based on the current estimation by MPP.
- Due to the uncertainty associated with product development, especially for such long-acting products, the timelines quoted here are tentative and can change during development of the product.

HEPATITIS



CURRENT SUBLICENSEES FOR BMS-MPP DACLATASVIR LICENCE

7 Daclatasvir Sub-licensee Agreements



DAC 30MG & 60MG: FORMULATION DEVELOPMENT TIMELINES



 Companies approved

Note: Each triangle represents a manufacturer and timelines represent date of filing

**4 MPP LICENSEES HAVE DEVELOPED DAC 30/60 MG FORMULATION AND
ALL ARE READY TO COMMERCIALIZE**

Licensees Approved: Hetero, Laurus, Mylan*, Zydus

** Mylan has approval for only DAC (60mg)*

Generic DAC 30/60 mg has been filed in **49** countries which contribute to an effective coverage of **60.4%** PLHCV^

DAC 30 & 60MG:
COUNTRY WISE
FILING STATUS

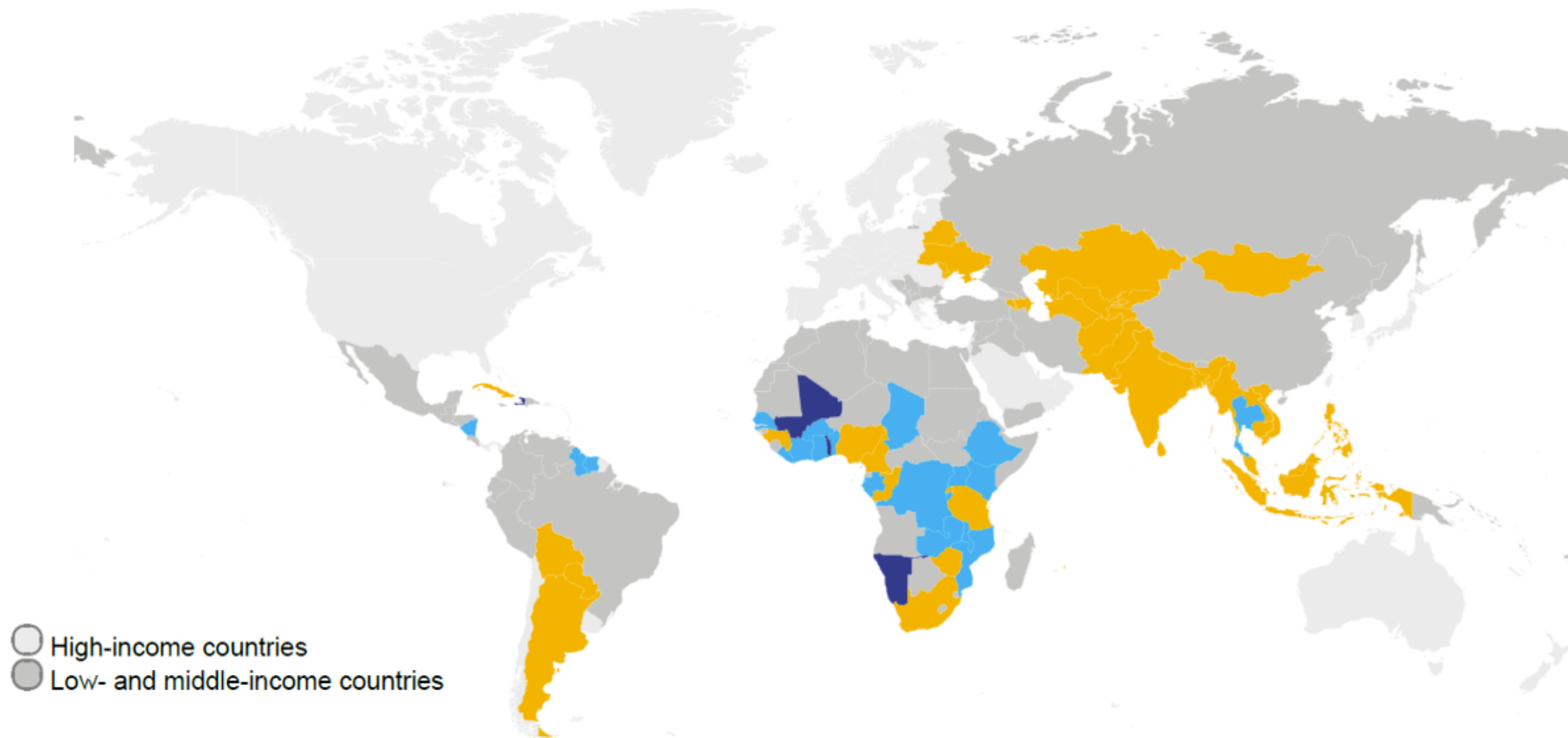
APPROVED (41) 58.6% PLHCV^				
Azerbaijan	Congo, DR	Kenya	Pakistan	Ukraine
Belarus	Côte d'Ivoire	Kyrgyzstan	Philippines	Uzbekistan
Benin	Ethiopia	Liberia	Rwanda	Viet Nam
Burkina Faso	Gabon	Malawi	Senegal	Zambia
Burundi	Ghana	Malaysia	Suriname	Zimbabwe
Cambodia	Guyana	Mozambique	Tanzania	
Cameroon	India	Myanmar	Thailand	
Chad	Indonesia	Nicaragua	Turkmenistan	
Congo	Kazakhstan	Nigeria	Uganda	

FILED (8) 1.8% PLHCV^		
Bolivia	Mongolia	Paraguay
Haiti	Namibia	Togo
Mali	Nepal	

New filings and approvals in **green** vis-à-vis last update (Q2-24)
 Countries where either DAC 30mg or DAC 60mg have been sold indicated in **bold type**
 ^ People living with Hepatitis C (2023) in the licensed territory (refer [MPP-BMS DAC licence agreement](#)) and countries with no patent enforcements
 # **Note:** Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

DAC 60mg Impact Map

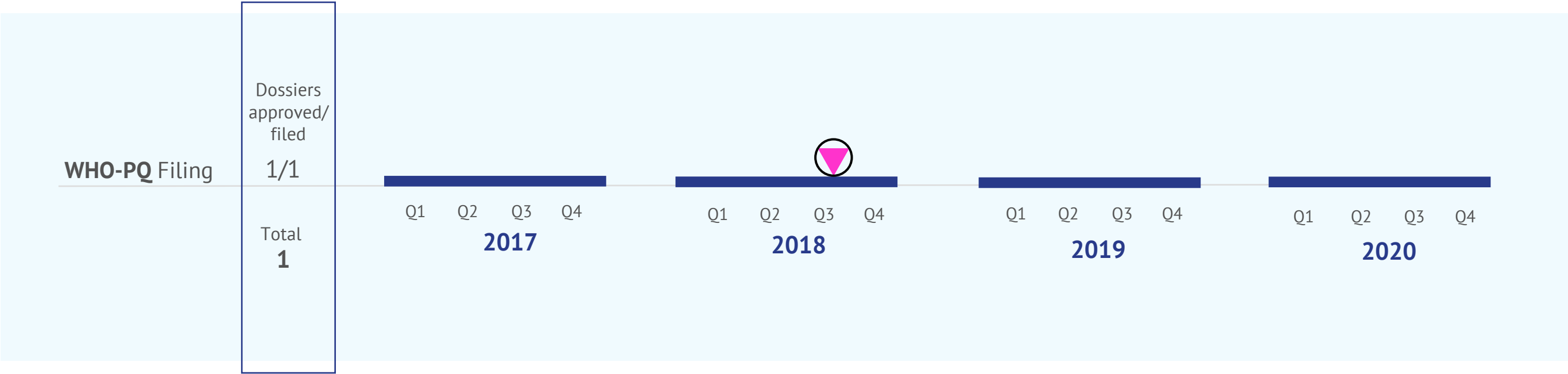
DAC 60mg sales have occurred in 38 countries in which 55.9% of PLHCV[^] reside and where MPP licensees have supplied **~1.53 million treatments***



FILED IN
8
COUNTRIES

APPROVED
IN
41
COUNTRIES

SUPPLIED IN
38
COUNTRIES

 Companies approved

Note: Each triangle represents a manufacturer and timelines represent date of filing

1 MPP LICENSEE HAS DEVELOPED DAC/SOF FORMULATION AND IS READY TO COMMERCIALIZE

Licensee Approved: Mylan

DAC/SOF: COUNTRY WISE FILING STATUS

DAC/SOF has been filed in **19** countries, out of which approval has been received in **18** countries

APPROVED (18)		
Belarus*	Indonesia	Tanzania
Cambodia	Kenya	Turkmenistan
Côte d'Ivoire	Malawi	Uganda
Ethiopia	Myanmar	Ukraine*
Ghana	Nigeria	Zambia
India	Suriname	Zimbabwe

New approvals in **green** vis-à-vis last update (Q2-24)

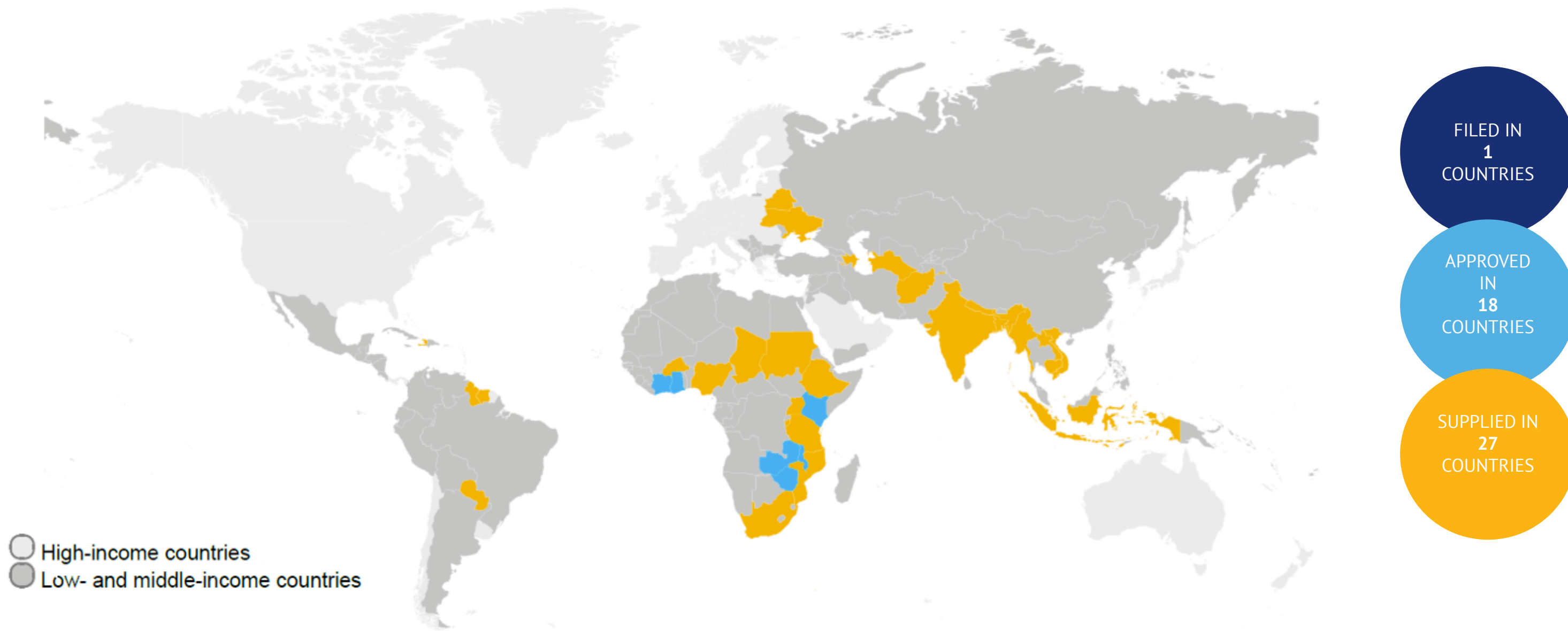
Countries where DAC/SOF has been sold indicated in **bold type**

* Countries not included in DAC licence but supply by MPP licensees permitted if no patent is being infringed in that country

Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

DAC/SOF Impact Map

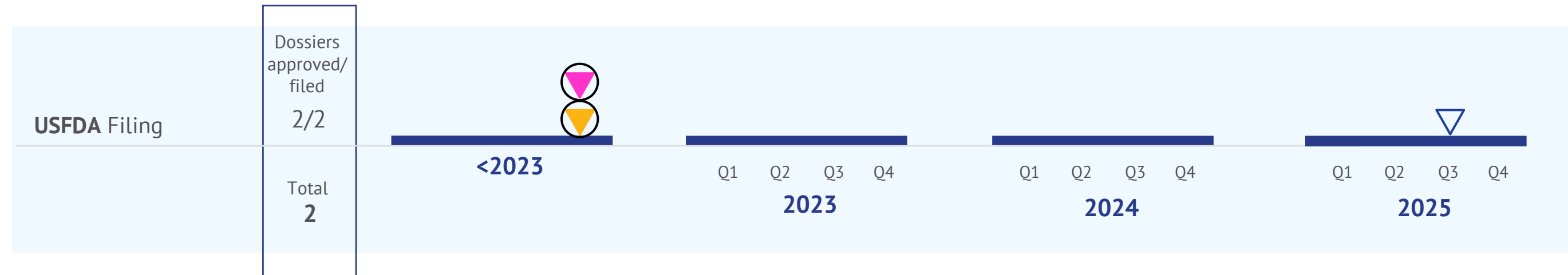
DAC/SOF sales have occurred in 27 countries in which 53.4% of PLHCV[^] reside and where MPP licensees have supplied **~174,166 treatments***



CURRENT SUBLICENSEES FOR GILEAD-MPP TENOFOVIR ALAFENAMIDE LICENCE

9 Tenofovir Alafenamide Sub-licensee Agreements





Companies approved



Companies planning to file

Note: Each triangle represents a manufacturer and timelines represent date of filing

**2 MPP LICENSEES HAVE DEVELOPED TAF 25MG FORMULATION AND BOTH ARE
READY TO COMMERCIALIZE**

Licensees Approved: Laurus, Lupin

1 additional licensee developing

Generic TAF 25mg has been filed in **23** countries, of which approval has been received in **14** countries

TAF 25MG: COUNTRY WISE FILING STATUS

APPROVED (14)			
India	Lao	Thailand	Viet Nam
Indonesia	Myanmar	Uganda	Zimbabwe
Kazakhstan	Philippines	Ukraine	
Kyrgyzstan	Tanzania	Uzbekistan	

FILED (9)		
Azerbaijan	Kenya	Mongolia
Cambodia	Malawi	Nigeria
Ethiopia	Malaysia	Zambia

New filings in **green** vis-à-vis last update (Q2-24)

Countries where TAF 25mg has been sold indicated in **bold type**

Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

COVID-19





 Companies approved
  Companies filed
  Companies planning to file

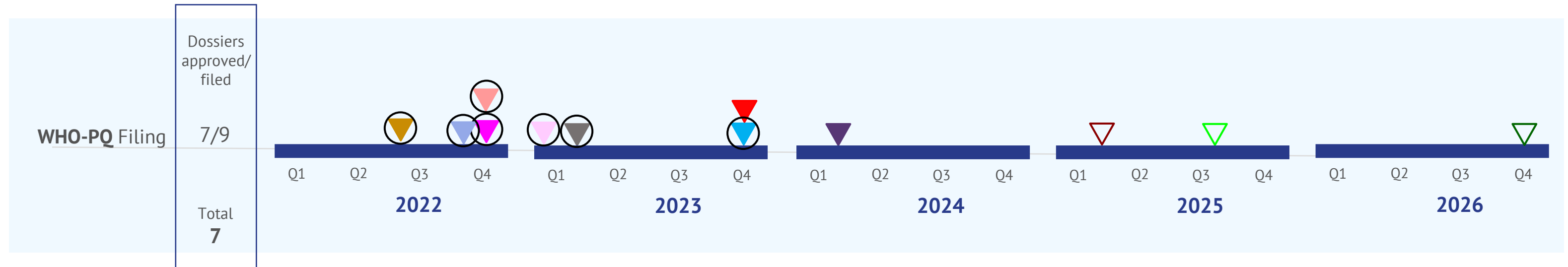
Note: Each triangle represents a manufacturer and timelines represent date of filing

**3 MPP LICENSEES HAVE DEVELOPED MOL 200MG, OF WHICH:
2 ARE READY TO COMMERCIALIZE**

Licensees Approved: Desano, Fosun

1 licensee awaiting WHO-PQ approval

NIRMATRELVIR+RITONAVIR (CO-PACK): FORMULATION DEVELOPMENT TIMELINES



 Companies approved
  Companies filed
  Companies planning to file

Note: Each triangle represents a manufacturer and timelines represent date of filing

9 MPP LICENSEES HAVE DEVELOPED NIR+RTV CO-PACK, OF WHICH: 7 ARE READY TO COMMERCIALIZE

Licensee approved: Apelo, Celltrion, Desano, Fosun, Hetero, Huahai, Mylan

2 licensees awaiting WHO-PQ approval | 3 additional licensees developing

COVID-19 PRODUCTS: COUNTRY WISE FILING STATUS

NIR300mg +RTV100mg (Co-pack) has been filed in **28** countries, of which approval has been received in **10** countries

FILED (18)	
Burkina Faso	Morocco
Cameroon	Namibia
El Salvador	Nicaragua
Gabon	Philippines
Honduras	Senegal
Indonesia	Uganda
Kenya	Viet Nam
Mali	Zambia
Mongolia	Zimbabwe

APPROVED (10)	
Botswana	India
Cambodia	Laos
Congo DR	Malawi
Ethiopia	South Africa
Ghana	Tanzania

MOL 200mg has been filed in **7** countries, of which approval has been received in **5** countries

FILED (2)	
Ghana	Thailand

APPROVED (5)	
India	Philippines
Indonesia	Viet Nam
Pakistan	

New filings and approvals in **green** vis-à-vis last update (Q2-24)

Countries where MOL 200mg and NIR 300mg+RTV 100mg (co-pack) have been sold indicated in **bold type**

Note: Sales may occur in countries in the absence of registration via procurement channels, registration waivers and/or exemptions

NILOTINIB



CURRENT SUBLICENSEES FOR NOVARTIS-MPP NILOTINIB LICENCE

4 Nilotinib Sub-licensee Agreements





⬇ Companies approved ⬇ Companies filed ⬇ Companies planning to file

Note: Each triangle represents a manufacturer and timelines represent date of filing

2 MPP LICENSEES HAVE DEVELOPED NTB 150/200 MG BOTH ARE READY TO
COMMERCIALIZE

Licensee approved: Hetero, Dr. Reddy's*

2 additional licensees developing

** has approval for 50mg strength also*



THANK YOU