

HPV Vaccine Delivery Taxonomy

Full Change Report

Version 1.0 → Version 2.0

June 2026 | Alive Evidence / HPV Vaccine Delivery Project

1. Overview

This report documents all changes to the HPV Vaccine Delivery taxonomy from its initial release (v1.0) to version 2.0. Changes were made incorporating 126 feedback items. The report covers: new schemes, scheme restructuring, concept additions, concept retirements, renames, and significant scope note updates.

	v1.0	v2.0	Change
Total schemes (excl. Country)	26	39	▲ +13
Total concepts (excl. 249 ISO countries)	230	347	▲ +117
New schemes added	0	9	▲ +9
Schemes retired	0	2	▲ +2
New concepts added	0	80	▲ +80
Concepts retired	0	23	▲ +23
Concepts renamed	0	6	▲ +6
Feedback items resolved	0	126	▲ +126

2. Scheme-level changes

The following table shows every scheme in the taxonomy and what changed between v1.0 and v2.0.

Scheme	v1.0	v2.0	Change
Country	249 ISO concepts	249 ISO concepts	UNCHANGED
UNICEF Region	7 concepts (no North America)	8 concepts (North America added)	EXPANDED
WHO Region	6 concepts	6 concepts	UNCHANGED
World Bank Region	7 concepts	7 concepts	UNCHANGED
World Bank Income Classification	4 concepts (standalone scheme)	Retired — merged into Country Classification	RETIRED
Gavi Eligibility Status	4 concepts (standalone scheme)	Retired — merged into Country Classification	RETIRED
Country Classification	Did not exist	13 concepts: WB income tier (4) + Gavi status (7 incl. Gavi 6.0 portfolio)	NEW SCHEME
Study Design	~20 concepts	24 concepts — added Programme evaluation or implementation research; Mixed methods	EXPANDED
Data Source	10 concepts	16 concepts — added 6 new concepts	EXPANDED
Program Maturity	3 concepts (no Pre-introduction)	3 concepts — Pre-introduction added, PIRI removed to Delivery Platform	EXPANDED
Program Scale	Did not exist	3 concepts: National, Sub-national, Pilot or demonstration	NEW SCHEME
Outcome Measure	15 concepts: 3 parents + 12 children	4 flat domains — children retired, content in scope notes, Demand & Acceptability added	RESTRUCTURED
Thematic Focus — Primary	Did not exist	11 theme concepts — single-select, mandatory	NEW SCHEME
Thematic Focus — Secondary	Did not exist	11 theme concepts — single-select, optional	NEW SCHEME
Document Type	Did not exist	8 concepts: Journal Article, Pre-print, Book Chapter, Thesis, Conference, Govt Report, IDPO Report, NGO Report	NEW SCHEME
Vaccine Type	Did not exist	3 concepts: Bivalent, Quadrivalent, Nonavalent	NEW SCHEME
Delivery Model Type	Did not exist	4 concepts: Single-platform, Sequential, Integrated/simultaneous, Unspecified	NEW SCHEME
Delivery Platform	9 concepts	14 concepts — added HIV treatment platform, Hit-and-run delivery, Private clinic or pharmacy; PIRI added	EXPANDED
Delivery Site	4 concepts (no Private clinic or pharmacy, no Mobile unit)	5 concepts — Private clinic or pharmacy and Mobile unit added	EXPANDED
Delivery Actor	5 concepts	5 concepts — scope notes updated	UNCHANGED
Vaccine Schedule	3 concepts (Single, Two dose, Extended interval)	4 concepts — Three dose added; Extended interval retained	EXPANDED

Vaccination Eligibility	3 concepts	4 concepts — Routine target cohort added	EXPANDED
Target Population	13 concepts	16 concepts — added Men who have sex with men; 0–8 years; 21+ years; Out-of-school adolescents; School enrolment branch	EXPANDED
Setting Context	3 concepts (Urban, Rural, Conflict/Fragile)	3 concepts — Conflict/Fragile deleted; Hard-to-reach added; Urban and Rural scope notes updated	EXPANDED
Fragility & Humanitarian Context	Did not exist	4 concepts: Conflict-affected, Post-conflict, Displaced populations, Humanitarian emergency	NEW SCHEME
Implementation Strategy	5 concepts	5 concepts — scope notes updated	UNCHANGED
Integration Type	~4 concepts (Co-delivery, Planning, Bundled comms, Other)	6 concepts — restructured and expanded	EXPANDED
Co-delivered Intervention	13 concepts (no HIV/AIDS, no Mental health, no Nutrition, no Other vaccines)	16 concepts — added HIV/AIDS care and treatment, Mental health, Nutrition, Other vaccines	EXPANDED
Communication Sender	7 concepts	8 concepts — scope notes updated; Teachers, Peers, Media moved here from Delivery Actor	EXPANDED
Communication Recipient	7 concepts	9 concepts — expanded	EXPANDED
Communication Channel	5 concepts (no Other)	6 concepts — Other added	EXPANDED
Communication strategies/interventions	3 concepts	5 concepts — School-based engagement and Teacher engagement added	EXPANDED
Behavioural and Social Driver	9 concepts with children	4 flat WHO BeSD domains — children retired, Gender added then absorbed, Health seeking behaviour retired	RESTRUCTURED
Acceptability Target	4 concepts	4 concepts — unchanged	UNCHANGED
Equity Dimension	5 concepts (Gender, SES, Education, Disability, Migration)	15 concepts — added 10: Place of residence, Ethnicity/race, Occupation, Religion, SOGI, Social capital, Age, Immunocompromised status, Geographic equity, Disease burden	EXPANDED
Quality of Care Dimension	5 concepts (Treatment by HW was old label)	5 concepts — Treatment by health workers renamed Interpersonal interaction; Referral systems added	EXPANDED
Governance Actor	7 concepts (no NIP/EPI, no NITAG as actor, no Ministry of Gender)	10 concepts — added NIP/EPI, NITAG as actor, Ministry of Gender, Ministry of Interior	EXPANDED
Coordination Mechanism	1 concept (ICC only)	2 concepts — NITAG added	EXPANDED
Financing Mechanism	2 concepts (Programme financing, User fees)	4 concepts — Public financing and Donor or external financing added; Programme financing and User fees renamed	EXPANDED
Supply Chain Aspect	9 concepts (no Financial and resource constraints)	10 concepts — Financial and resource constraints added; Vaccine expiration management added	EXPANDED
Misinformation Activity	17 concepts	17 concepts — present since v1.0, no structural changes in this review	UNCHANGED

AI Application	2 concepts	2 concepts — unchanged	UNCHANGED
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3. Detailed concept additions

The following table lists every concept added to the taxonomy since v1.0, organised by scheme.

Scheme	Concept	Action	Notes
Country Classification	World Bank income tier (parent)	ADDED	New scheme: branch parent
Country Classification	Low income	ADDED	From retired WB Income Classification scheme
Country Classification	Lower middle income	ADDED	From retired WB Income Classification scheme
Country Classification	Upper middle income	ADDED	From retired WB Income Classification scheme
Country Classification	High income	ADDED	From retired WB Income Classification scheme
Country Classification	Gavi status (parent)	ADDED	New scheme: branch parent
Country Classification	Gavi-eligible	ADDED	From retired Gavi Eligibility Status scheme
Country Classification	Gavi transitioning	ADDED	From retired Gavi Eligibility Status scheme
Country Classification	Gavi not eligible	ADDED	Replaces 'Self-financing' — covers both never-eligible and transitioned countries
Country Classification	Gavi Core	ADDED	New Gavi 6.0 portfolio concept (2026+)
Country Classification	Gavi High-impact	ADDED	New Gavi 6.0 portfolio concept (2026+)
Country Classification	Gavi Fragile and Humanitarian	ADDED	New Gavi 6.0 portfolio concept (2026+)
Country Classification	Gavi MICS	ADDED	New concept — Middle Income Country Support portfolio
Program Scale	National	ADDED	New scheme
Program Scale	Sub-national	ADDED	New scheme
Program Scale	Pilot or demonstration	ADDED	New scheme
Delivery Model Type	Single-platform	ADDED	New scheme
Delivery Model Type	Sequential	ADDED	New scheme
Delivery Model Type	Integrated/simultaneous	ADDED	New scheme
Delivery Model Type	Unspecified	ADDED	New scheme
Fragility & Humanitarian Context	Conflict-affected	ADDED	New scheme — replaces Conflict/Fragile in Setting Context
Fragility & Humanitarian Context	Post-conflict	ADDED	New scheme
Fragility & Humanitarian Context	Displaced populations	ADDED	New scheme
Fragility & Humanitarian Context	Humanitarian emergency	ADDED	New scheme
UNICEF Region	North America	ADDED	Completes regional coverage
Study Design	Programme evaluation or implementation research	ADDED	Feedback: Cristian — needed for implementation science papers
Study Design	Mixed methods	ADDED	Covers studies combining quantitative and qualitative designs
Data Source	Primary quantitative data	ADDED	Equivalent of Primary qualitative data — for clinical trials and primary quantitative studies
Data Source	Published study data	ADDED	For CEAs, models, systematic reviews drawing on published literature
Data Source	Expert elicitation data	ADDED	For Delphi and structured expert panels in modelling studies
Data Source	Social media and online data	ADDED	For studies using Twitter/X, Facebook, Google Trends as research data sources
Data Source	Geospatial and GIS data	ADDED	For GPS, satellite imagery, GIS coverage mapping studies

Data Source	Global modelled estimates	ADDED	For WUENIC, GBD/IHME, UN population estimates — distinct from raw survey or admin data
Program Maturity	Pre-introduction	ADDED	Feedback: Erica — needed for feasibility and planning studies before programme launch
Delivery Platform	HIV treatment platform	ADDED	Feedback: delivery of HPV vaccination through ART clinics and HIV community services
Delivery Platform	Hit-and-run delivery	ADDED	Security-driven rapid deployment strategy in conflict/insecure settings
Delivery Platform	Periodic Intensification of Routine Immunization (PIRI)	MOVED	Moved from Program Maturity to Delivery Platform → Routine EPI (4th child)
Delivery Site	Private clinic or pharmacy	ADDED	Feedback: Erica and Fumane — covers private practice doctors, clinics, pharmacies
Delivery Site	Mobile unit	ADDED	Feedback: Mikey — distinct from Community delivery site
Vaccine Schedule	Three dose	ADDED	Feedback: Laure-Anais — WHO SAGE recommendation for immunocompromised girls
Vaccination Eligibility	Routine target cohort	ADDED	Feedback: Clovis — the standard nationally defined primary vaccination cohort
Target Population	Men who have sex with men	ADDED	Feedback: Mikey — relevant in European and Americas programmes
Target Population	School enrolment (parent)	ADDED	New branch in Target Population hierarchy
Target Population	In-school adolescents	ADDED	New concept under School enrolment
Target Population	Out-of-school adolescents	ADDED	Key equity population — previously absent
Target Population	0–8 years	ADDED	Completes the age spectrum below 9 years
Target Population	21+ years	ADDED	Completes the age spectrum above 20 years
Setting Context	Hard-to-reach	ADDED	Feedback: Deogratias/Mikey — WHO definition; replaces the deleted Conflict/Fragile concept
Communication Channel	Other	ADDED	Feedback: allows recording of channels not covered by existing concepts
Communication strategies/interventions	School-based engagement	ADDED	Feedback: from Communication Channel review
Communication strategies/interventions	Teacher engagement	ADDED	Feedback: Fumane/ERICA — teacher-led communication strategy
Equity Dimension	Place of residence	ADDED	PROGRESS+ — urban/rural as equity dimension distinct from Setting Context descriptor
Equity Dimension	Ethnicity and race	ADDED	PROGRESS+ — missing from v1.0
Equity Dimension	Occupation	ADDED	PROGRESS+ — employment type as equity barrier
Equity Dimension	Religion	ADDED	PROGRESS+ — religious affiliation as equity dimension
Equity Dimension	Sexual orientation and gender identity	ADDED	PROGRESS+ Plus — SOGI as equity dimension
Equity Dimension	Social capital	ADDED	PROGRESS+ second S — community trust and networks as equity dimension
Equity Dimension	Age	ADDED	PROGRESS+ Plus — age as equity variable within eligible cohort
Equity Dimension	Immunocompromised status	ADDED	Feedback: ALHIV and immunocompromised as equity dimension
Equity Dimension	Geographic and cross-country equity	ADDED	Extension beyond PROGRESS+ — disparities across countries, regions, or income groups
Equity Dimension	Disease burden and cancer incidence	ADDED	Extension beyond PROGRESS+ — equity framed through differential HPV/cervical cancer burden
Quality of Care Dimension	Referral systems	ADDED	Feedback: Fumane — added alongside renamed Interpersonal interaction
Governance Actor	National immunisation programme/EPI	ADDED	Feedback: added as distinct from Ministry of Health

Governance Actor	NITAG (as Governance Actor)	ADDED	<i>Feedback: NITAG as governance actor distinct from NITAG in Coordination Mechanism</i>
Governance Actor	Ministry of Gender or Humanitarian Affairs	ADDED	<i>Added for fragile/humanitarian contexts</i>
Governance Actor	Ministry of Interior	ADDED	<i>Added for programmes requiring security sector coordination</i>
Coordination Mechanism	NITAG	ADDED	<i>Feedback: NITAG as coordination mechanism</i>
Financing Mechanism	Public financing	ADDED	<i>Feedback: Cristian — government budget lines; replaces old 'Programme financing'</i>
Financing Mechanism	Donor or external financing	ADDED	<i>Feedback: Cristian — Gavi, bilateral donors, multilateral funds</i>
Supply Chain Aspect	Financial and resource constraints	ADDED	<i>Feedback: Mikey — budget shortfalls affecting supply chain operations</i>
Supply Chain Aspect	Vaccine expiration management	ADDED	<i>Feedback: Fumane — stock rotation, shelf-life monitoring, expired dose disposal</i>
Co-delivered Intervention	HIV/AIDS care and treatment	ADDED	<i>Feedback: Laure-Anais — distinct from SRH; clinical rationale documented in scope note</i>
Co-delivered Intervention	Mental health	ADDED	<i>Added to complete the co-delivery service spectrum</i>
Co-delivered Intervention	Nutrition	ADDED	<i>Added to complete the co-delivery service spectrum</i>
Co-delivered Intervention	Other vaccines	ADDED	<i>Added for multi-antigen co-administration studies</i>
Outcome Measure	Demand and Acceptability (domain)	ADDED	<i>New fourth domain — Acceptability moved here from Delivery and Operations</i>
Thematic Focus — Primary	All 11 theme concepts	ADDED	<i>New scheme — replaces 9 broad EPPI Thematic Focus codes</i>
Thematic Focus — Secondary	All 11 theme concepts	ADDED	<i>New scheme — optional secondary theme</i>
Document Type	All 8 concepts	ADDED	<i>New scheme — added by Britta Jeppesen 26 May 2026</i>
Vaccine Type	Bivalent HPV vaccine	ADDED	<i>New scheme — covers Cervarix, Cecolin, Walrinvax</i>
Vaccine Type	Quadrivalent HPV vaccine	ADDED	<i>New scheme — covers Gardasil, Cervavac</i>
Vaccine Type	Nonavalent HPV vaccine	ADDED	<i>New scheme — covers Gardasil 9</i>

4. Concept retirements and renames

The following concepts were retired or renamed. Retired concepts had their content absorbed into scope notes of restructured or parent concepts.

Scheme	Concept	Action	Notes
World Bank Income Classification (scheme)	Entire scheme	RETIRED	Replaced by WB income tier branch in Country Classification
Gavi Eligibility Status (scheme)	Entire scheme	RETIRED	Replaced by Gavi status branch in Country Classification
Setting Context	Conflict/Fragile	RETIRED	Replaced by Hard-to-reach (Setting Context) and the new Fragility & Humanitarian Context scheme
Financing Mechanism	Programme financing	RENAMED	Renamed to 'Free/fully subsidised' (now separate concept); Public financing added as new concept
Financing Mechanism	User fees	RENAMED	Renamed to 'User fee'
Behavioural and Social Driver	Health seeking behaviour	RETIRED	Outcome variable, not a driver — content absorbed into Motivation scope note
Behavioural and Social Driver	Education level	RETIRED	Content absorbed into Thinking and feeling scope note
Behavioural and Social Driver	Language	RETIRED	Content absorbed into Practical issues scope note
Behavioural and Social Driver	Gender (BeSD child)	RETIRED	Added briefly then absorbed into Social processes scope note during restructure
Behavioural and Social Driver	Religion (BeSD child)	RETIRED	Content absorbed into Social processes scope note
Outcome Measure	Acceptability	RETIRED	Absorbed into new Demand and Acceptability domain scope note
Outcome Measure	Completion	RETIRED	Absorbed into Delivery and Operations scope note
Outcome Measure	Coverage (by dose)	RETIRED	Absorbed into Delivery and Operations scope note
Outcome Measure	Drop-out	RETIRED	Absorbed into Delivery and Operations scope note
Outcome Measure	Timeliness	RETIRED	Absorbed into Delivery and Operations scope note
Outcome Measure	Wastage	RETIRED	Absorbed into Delivery and Operations scope note
Outcome Measure	Cost per fully vaccinated girl	RETIRED	Label updated to 'Cost per fully vaccinated person' in scope note to support gender-neutral programmes
Outcome Measure	DALYs	RETIRED	Absorbed into Economic domain scope note
Outcome Measure	QALYs	RETIRED	QALYs added then absorbed into Economic domain scope note during restructure
Outcome Measure	Unit cost per dose	RETIRED	Absorbed into Economic domain scope note
Outcome Measure	Effectiveness	RETIRED	Absorbed into Vaccine Impact domain scope note
Outcome Measure	Efficacy	RETIRED	Absorbed into Vaccine Impact domain scope note
Quality of Care Dimension	Treatment by health workers	RENAMED	Renamed to Interpersonal interaction
Program Maturity	PIRI	MOVED	Moved to Delivery Platform → Routine EPI as 4th child
Delivery Platform	Other Integration/Special Program	RETIRED	Deleted during restructure — cervical cancer screening addressed in Co-delivered Intervention

5. Major scope note and definition updates

The following schemes and concepts received substantial scope note or definition updates beyond minor wording. This list covers the most significant changes — many additional concepts received minor clarifications.

Schemes fully restructured with new scope notes

- Behavioural and Social Driver — all four WHO BeSD domains now have full scope notes listing the constructs each domain covers, with include/exclude guidance and cross-references
- Outcome Measure — all four domains have full scope notes with illustrative (non-exhaustive) lists of outcomes within each domain
- Equity Dimension — scheme description updated to reflect full PROGRESS+ framework plus two HPV-specific extensions; 10 new concepts each with scope notes

Key individual concept scope note updates

- **Mobile (Delivery Platform)** — enriched with transport modes (vehicle, boat, motorcycle, temporary camps), nomadic and insecure settings, and a clear distinction from Outreach
- **Cervical cancer screening (Co-delivered Intervention)** — expanded to cover four scenarios: service co-delivery, sequential integration, modelling studies projecting combined impact, and 90-70-90 elimination strategy papers; mother-daughter approach named explicitly
- **National Cancer Control Programme (Delivery Platform)** — expanded to cover combined vaccination-screening strategy and elimination framing
- **Service co-delivery (Integration Type)** — explicit guidance added on the cervical cancer screening co-delivery scenario and boundary with modelling studies
- **Gavi not eligible (Country Classification)** — scope note explains the concept covers both never-eligible and transitioned countries, with concrete country examples and temporal tagging logic
- **PIRI (Delivery Platform)** — new scope note: PIRI can deploy any of Facility-based, Mobile, or Outreach simultaneously; distinguished from Campaign
- **HIV/AIDS care and treatment (Co-delivered Intervention)** — new concept scope note documents clinical rationale for HPV-HIV linkage and cross-references related concepts
- **Independent or evaluative study (Data Source)** — removed personal attribution reference ('Covers Erica's suggestion'); added distinction from same-named Study Design concept
- **Published study data (Data Source)** — updated to explicitly cover systematic review corpora alongside model inputs
- **Gavi not eligible (Country Classification)** — documents both never-eligible and transitioned-out scenarios with temporal logic
- **SRH (Co-delivered Intervention)** — definition updated to clarify scope and distinguish from HIV/AIDS care and treatment
- **Routine/established (Program Maturity)** — scope note acknowledges contextual variation across settings
- **Campaign (Delivery Platform)** — scope note added to address tension between campaign as approach vs. platform
- **Facility (Delivery Site)** — scope note clarifies coverage of public vs. private facilities and cross-references Private clinic or pharmacy
- **School (Delivery Site)** — scope note covers all school types; school sub-typing deferred to study-level metadata