

Regulatory update from the Medical Devices Surveillance Branch

Dr Kelly Tsang
Acting Director, Devices Post-Market Monitoring Section
Medical Device Surveillance Branch
Department of Health and Aged Care, TGA



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

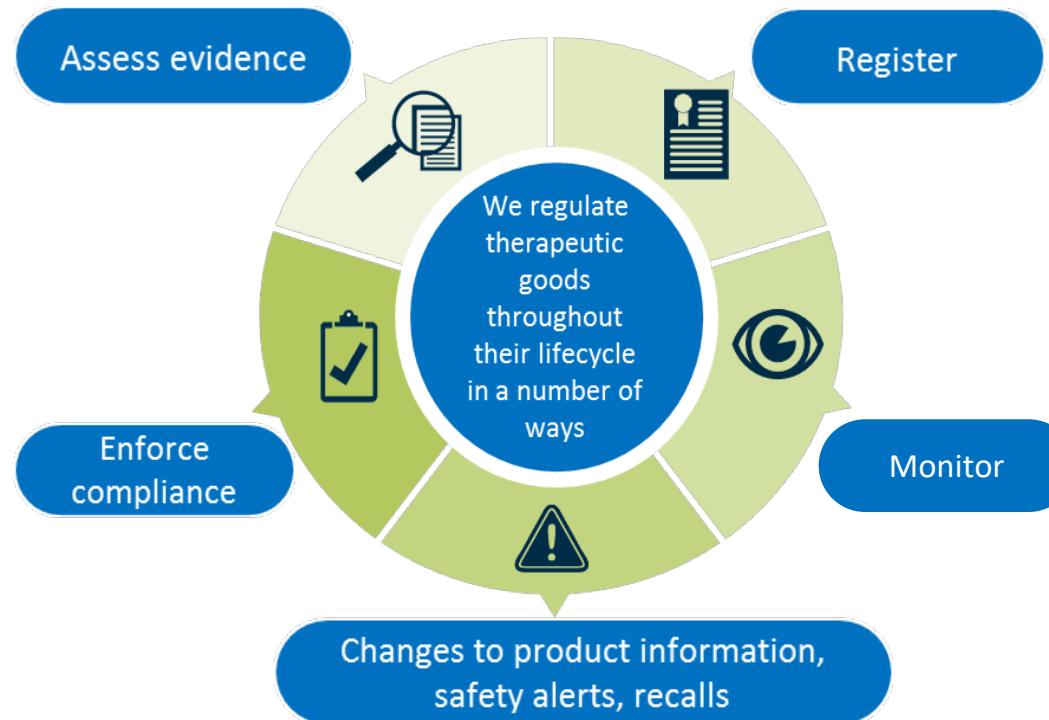
Part 1

Adverse events and annual reports refresher

- Ongoing obligations for sponsors and manufacturers
- Definitions and requirements for reporting of adverse event
- TGA activities in response to adverse events
- Requirements for annual reporting and additional conditions of inclusion



Regulating throughout the lifecycle



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Post-Market Obligations

- Post-market performance is monitored for trends or issues not previously known.
- Medical devices are subject to conditions of inclusion.
- Medical devices can be subjected to post-market review or investigations at any time.
- Summary available on the TGA website



The screenshot shows the official website of the Australian Government's Department of Health and Aged Care, Therapeutic Goods Administration. The header includes the Australian Coat of Arms, the text 'Australian Government', 'Department of Health and Aged Care', and 'Therapeutic Goods Administration'. It also features a 'News and Community' link, an 'About us' link, a search bar with placeholder text 'Search this website', and a magnifying glass icon.

The main navigation menu at the top of the page includes 'Products we regulate', 'Product safety', 'How we regulate', and 'Guidance and resources'.

The breadcrumb navigation on the left side of the content area shows: Home > Guidance and resources > Resources > Guidance.

Post market responsibilities for manufacturers and sponsors of medical devices

Start here to learn the basics of post market requirements

Listen Print Share

On this page

- [Ongoing responsibilities](#)
- [Sponsor's ongoing responsibilities](#)
- [Manufacturer's ongoing responsibilities](#)
- [Supporting documents](#)

Ongoing responsibilities

Manufacturer responsibility

Manufacturer - the person who is responsible for the design, production, packaging and labelling of the device before it is supplied under the person's name

- Allow entry and inspections of premises
- Demonstrate compliance with essential principles
- Demonstrate and maintain compliance with conformity assessment procedures (CAP)
- Notify TGA of substantial changes in design, production or changes to CAP
- Maintain records of complaints, adverse event records and post-market action
- Undertake investigations and implement actions based on post-market experience, including recalls



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

Sponsor responsibility

Sponsor - person who arranges for import, export and supply of therapeutic goods in Australia

- TGA's point of contact for regulation, legal entity for post-market action
- Arrange for import/ export/ supply of goods in Australia
- Have written agreement with manufacturer to obtain information when requested by the TGA
- Deliver samples upon request
- Facilitate Australian recall actions
- Comply with the Therapeutic Goods Advertising Code
- Pay annual charges



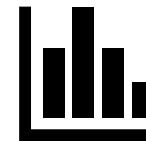
Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

Examples of TGA post-market activities

The TGA has a variety of processes for managing ongoing compliance

- Device incident reports
- Product investigations or post-market review
- Desktop and/ or on-site inspections
- Review annual reports (Class IIb implantable, Class III and Class 4 IVD)
- Impose / vary additional conditions of inclusion
- Consent to Supply products that don't meet Essential Principles
- Recall actions
- Ongoing surveillance and exchange of information with other agencies, international regulators / notified bodies.



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

What is an 'adverse event'?

- An event that resulted in serious injury, illness or death to patient, healthcare worker or other person.
- A medical device adverse event is an event associated (caused or partially attributable) with the use (or misuse) of a medical device.
- Faults that may affect the quality, timeliness and cost-effectiveness such as, problems with getting the device to operate, repeated repairs, device design and difficulty of use.



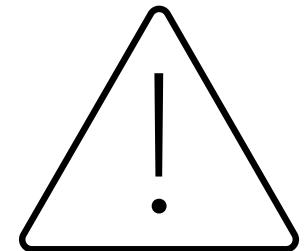
Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

What is a 'near adverse event?

- An event that could have resulted in (had effective intervention not taken place) serious injury, illness or death to patient, healthcare worker or other person.
- For an event to be defined as a near adverse event:
 - ✓ An event associated with the device occurred
 - ✓ If the event occurred again, it might lead to death or serious injury



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

What is a serious injury?

Serious injury (serious deterioration in state of health) is:

- A life threatening illness or injury
- A permanent impairment of a body function (Irreversible impairment or damage to a body structure or function)
- Permanent damage to a body structure
- A condition necessitating medical or surgical intervention to prevent permanent impairment of a body function or permanent damage to a body structure



Australian Government

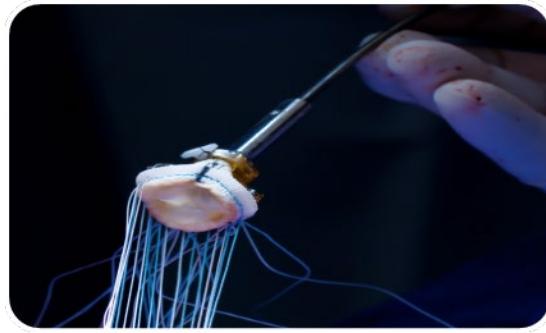
Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Sponsor – mandatory reporting obligations

- Sponsors must report the details of events associated with their medical device(s) that have resulted, or could have resulted, in serious injury or death
- 41MP & 41MPA refers to reporting information related to malfunction or deterioration in characteristics or performance of a device
- Conditions of inclusion
 - *Therapeutic Goods Act 1989* (41FN(3),(d) and 41MP(2) & 41MPA)
 - *Therapeutic Goods (Medical Devices) Regulations 2002* (Reg 5.7)





It is often difficult to determine whether an adverse event was caused by a medical device.

- Causality of the event does not need to be established at the time of reporting
- When in doubt it is better to report than not to report



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

When to report (Reg 5.7)

- Within **2 days** of becoming aware of an issue of serious public health threat or concern that will require prompt action to reduce the hazard
- Within **10 days** of becoming aware of a death or serious injury
- Within **30 days** of becoming aware of an event that might have led to serious injury or death
- Within **60 days** of becoming aware of the lapsing or revocation of a conformity assessment certificate



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

When to finalise the report (Reg 5.8A)

- It is now a legislative requirement to provide the final report within 120 days of first reporting to the TGA.
- The report must include
 - ✓ Any updates to the original information since that information was given
 - ✓ Details of actions taken to investigate the event or other occurrence concerned
 - ✓ Details of actions taken to alleviate the impact of the event or other occurrence concerned for patients or users
 - ✓ Details of similar events or occurrences in the last 3 years



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

What to include in the report?

Sponsors of medical devices must provide:

- Clear details of the adverse event
- ARTG entry number for the device
- Device name
- Findings of the manufacturer's investigation into the event
- Corrective and preventative actions taken
- Details of similar events for the last 3 years (these may be provided in the form of a rate or as a number of similar incidents (clinical observation) over the last 3 years together with the number of devices supplied in that same period). Separate rates for Australia and worldwide to be provided.



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Report to IRIS

Incidents/adverse events associated with

- Medical devices included in the Australian Register of Therapeutic Goods (ARTG)
- Medical devices exempt from inclusion on the ARTG e.g. personalised, custom made
- Other Therapeutic Goods e.g. Tampons, Disinfectants
- Devices supplied as part of a clinical trial*
- Devices supplied under Special Access Scheme**
- Devices supplied under Authorised prescriber scheme**

Note: adverse reactions associated with vaccines, medicines and biologicals should be reported to Medicines –see AEMS guidance for sponsors on the TGA Website



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

What happens to the report?

- Reports are entered into the IRIS database
- Focus is on urgent reports, unusual problems, potentially serious problems, or problems that have high levels of incidences
- After risk assessment the level of investigation is determined
- The manufacturer has primary responsibility to investigation and take action based on their QMS
- Many reports are not investigated by the TGA, however they are utilised for trending and monitoring purposes
- Most reports are placed onto the Database of Adverse Event Notifications (DAEN)



Potential outcomes of investigations

- Safety alert
- Hazard alert
- Recall
- Information on TGA website
- Product and labelling improvements (updating Instructions for Use)
- Increasing post-market surveillance
- Imposing limitations on the medical device's use
- Investigating manufacturing sites
- Suspending or cancelling the product from the ARTG
- Referral to other TGA sections for other regulatory actions



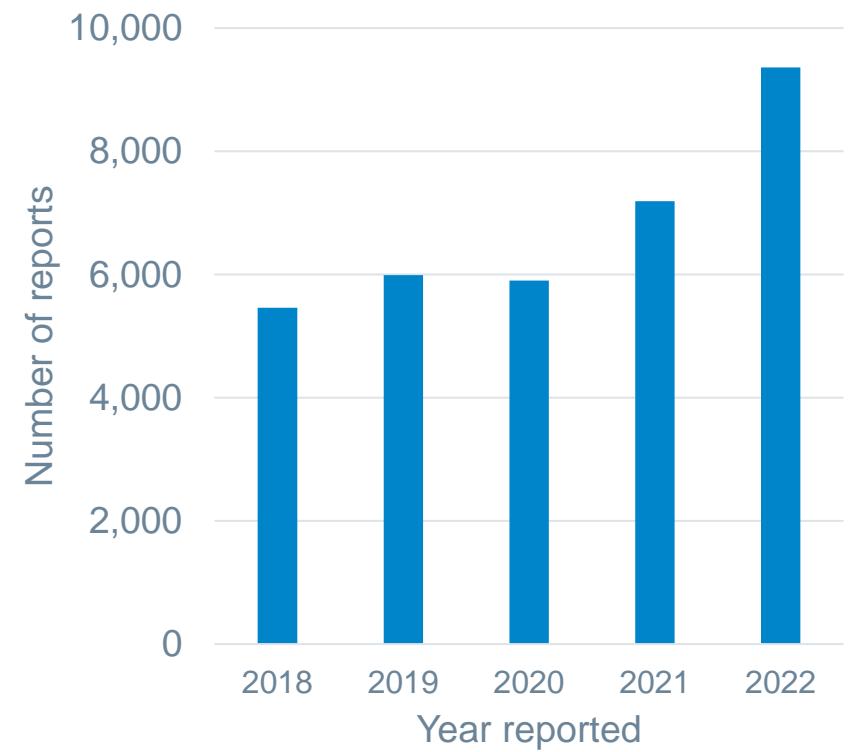
Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Future of adverse event surveillance

- The TGA received ~300 reports annually when first implemented market surveillance activities, now >9,000 reports per year
- Additional sources from state and territory mandatory reporting
- How do we effectively manage risk to patients and users in the face of increased reporting?
 - data analytics and trending
 - analysis of adverse event outcome experience
 - focused risk assessment on specific report source or risk criteria
 - focus on non-compliance (e.g. lack of reports)
 - decreased manual risk assessment and increased investigation



Annual reports - automatic condition of inclusion

Review of experience gained in post-market

- Annual reports are required to be submitted for the first 3 years of inclusion for Class IIb implantable, Class III devices or Class 4 IVDs.
- Due by 1 October each year
- Non-compliance may lead to cancellation from the ARTG.
- Further information and template available at
<https://www.tga.gov.au/resources/resource/guidance/annual-reports>
- Ongoing work on content and how reports are submitted to reduce the admin burden



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

[tga.gov.au](https://www.tga.gov.au)

Additional conditions of inclusion

Processes to monitor ongoing safety issues

- Additional COIs can be imposed at the time of inclusion, or later
- Allow ongoing monitoring of information and evidence
 - E.g. submit the results of the clinical study and the manufacturer's analysis of the study, as well as any updates to the clinical evaluation report.
- Sponsors should ensure timely receipt of information from manufacturers. Ensure there are channels to receive information from manufacturer, and to generate relevant records to demonstrate compliance
- Non-compliance may lead to further regulatory action.



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au



Summary

- Establish communication channels with manufacturer for:
 - Passing on complaints and annual reports
 - Requesting further information- TGA requests, investigations, evidence of compliance
 - Ensuring regulatory timeframes and obligations are met
- Manufacturers have primary responsibility for investigating complaints and AEs
 - TGA may ask sponsor further questions based on risks and trends
 - Sponsors to provide initial and final reports of incidents to the TGA within timeframes
 - If in doubt- contact us or submit a report anyway



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Therapeutic Goods Administration (TGA)

Exhibition booth No.1

Want to chat with me further? Come visit us.



Questions?

www.tga.gov.au



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Post Market Reviews Considerations for medical device sponsors

Dr Amanda Craig
Director
Devices Post Market Reforms and Reviews Section
Medical Devices Surveillance Branch
Department of Health and Aged Care, TGA



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Post-market reviews are conducted by the TGA to ensure a medical device continues to meet legislated requirements



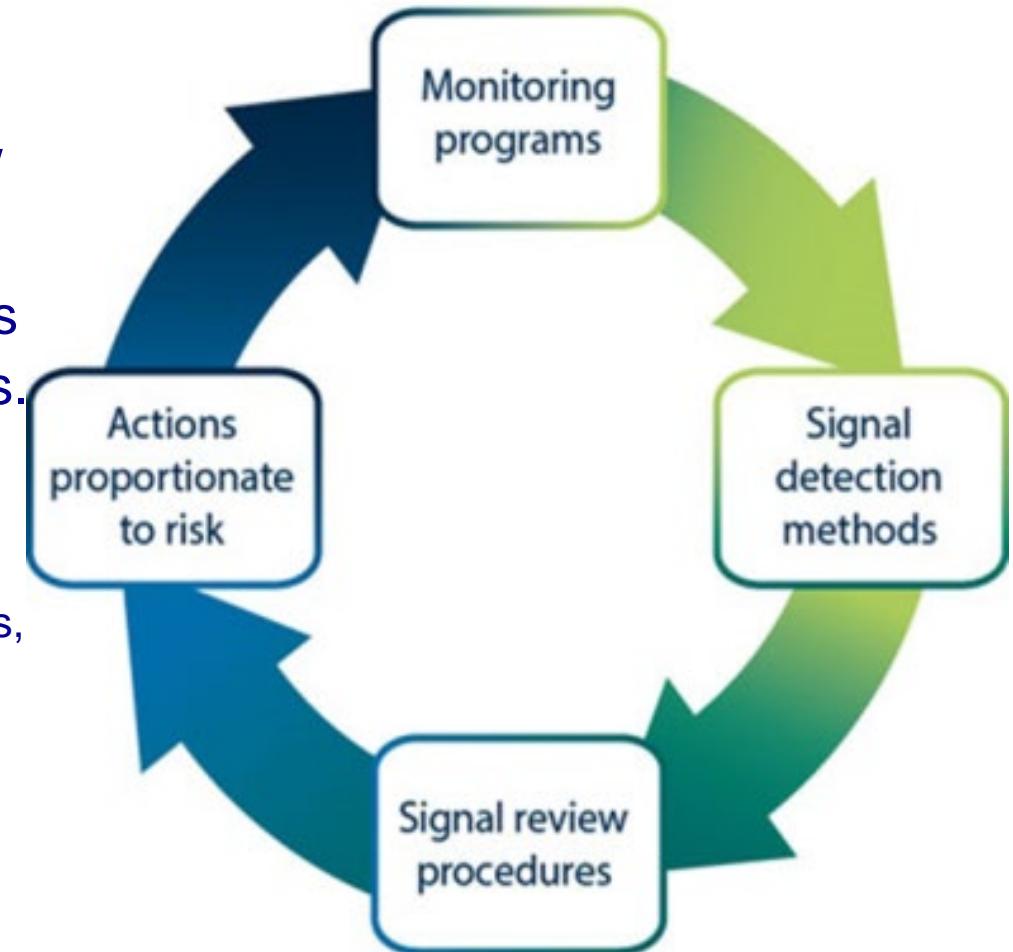
Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Post-market obligations

- ARTG inclusion is just the beginning
- Devices can be subjected to post-market review or investigations at any time.
- Post-market performance is monitored for trends or issues not previously known to manufacturers.
- Devices are subject to conditions of inclusion such as:
 - Ensuring continued compliance with the EPs and CAPs,
 - reporting adverse events,
 - providing information and samples,
 - reporting annually for higher classes of device.



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Selection for Post-Market Review

There are numerous reasons a product may be selected for post-market review including, but not limited to, the following:

Detection of a trend or signal amongst post-market data. This data can include, but is not limited to, adverse event reports, annual reporting, clinical publications.

Information received from, or action taken by, other medical device regulators.

Identification of a safety or performance issue for a similar device currently included in the ARTG.

Unresolved or repeated recalls.

Literature review of available clinical evidence.

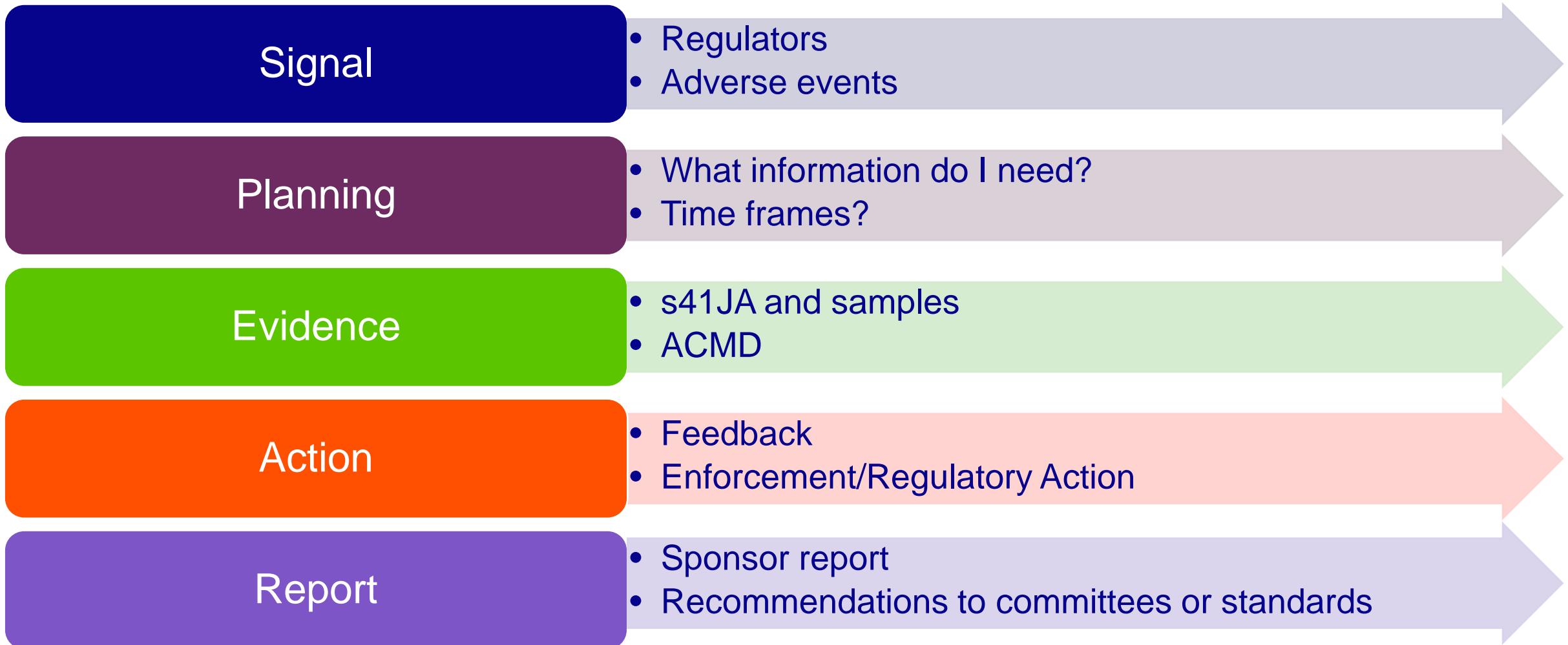


Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

SPEAR process



Post-market review: Types of evidence reviewed



Therapeutic Goods (Medical Devices) Regulations 2002

Statutory Rules No. 236, 2002

made under the

Therapeutic Goods Act 1989

INTERNATIONAL STANDARD

ISO
13485

Third edition
2016-03-01

Medical devices — Quality management systems — Requirements for regulatory purposes



Australian Government
Department of Health
Therapeutic Goods Administration

Clinical evidence guidelines for medical devices

Version 3.0, November 2021

TGA Health Safety Regulation

INTERNATIONAL STANDARD

ISO
14971

Second edition
2007-03-01

Medical devices — Application of risk management to medical devices

Specific kinds of data we may request

- Risk analysis
- Risk management
- Root Cause and Corrective and Preventative Actions
- Clinical evidence
- Test evidence
- Advertisements and labelling
- Adverse event reports
- Supply information
- And more....



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Case Study Example (not an actual case)

- The TGA are reviewing the long-term safety of a Device known as 'Stimulators r us'.
- A total of 400 devices have been implanted in the past 2 years.
- The TGA received 232 adverse event reports of the device providing insufficient stimulation resulting in surgical revision.

What kinds of post-market evidence would you expect the TGA to require?



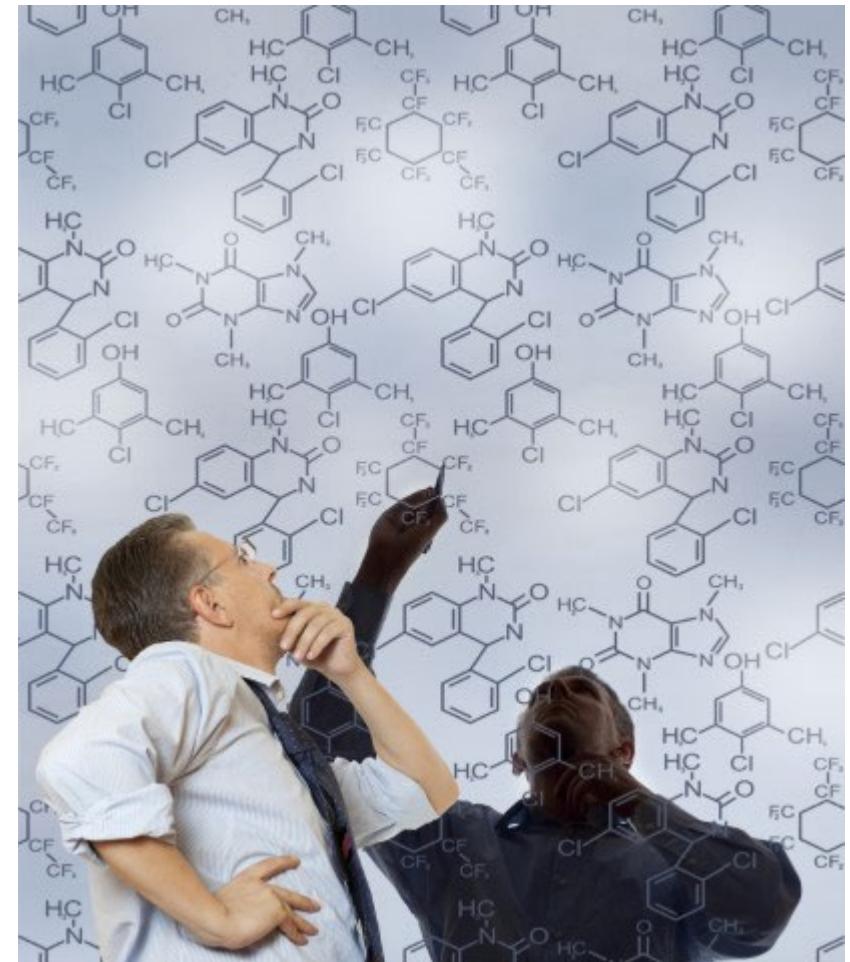
Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Types of information we expect

- Evidence that supports the entire lifespan of the device with regard to:
 - Adverse event/complaint/CAPA
 - Risk analysis/FMEA
 - Safety (clinical trials, test evidence)
 - Biocompatibility (where possible)
 - Functional outcomes – Intended purpose
 - Population reflects the claims on the IFU
 - Post-market studies post implantation (quality of life)



Thought process in Post-Market



- Based on the reports, the revision rate of these implants is 58%
- The total adverse events (surgical revisions) (232) is unacceptably high compared to the total amount of implants (400)

Questions we may have

- What procedures does the manufacturer have in place to minimise this risk?
- What is the root cause of the issue?
- How long has this occurred for?
- Are there unaccounted cases?
- What immediate action can we take to minimise this harm?



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Risk Management – What does it look like?



Scale	Likelihood/occurrence	Harm/Severity
1	>1 in 1,000,000 events per year	No injury or damage
2	>1 in 100,000 events per year	Some first aid required
3	>1 in 10,000 events per year	External non-life threatening injuries
4	>1 in 1,000 events per year	Extensive life-threatening injuries
5	>1 in 10 events per year	Death or Major injury resulting in intubation



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Case Study Example – Emerging Risks

- SARS-CoV-2 emerged late 2019 with the wildtype (Wuhan strain)
- Kits are designed against SARS/SARS-CoV-2 wildtype strain
- New variants emerge over time (Omicron, Delta)



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Important – risk may change throughout lifecycle!

What do we expect?

Proactive monitoring! COVID-19 test kit specific example

- Identify the risk – Mutations present in emerging variants may impact sensitivity of test kit
- Identify the potential harm – false negative results, delayed detection



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

au

What do we expect – Cont.

- Identify the outcome – Delayed detection or false negatives may lead to patient infection and spread in the community
- Mitigate the risk - Put processes in place to address and mitigate the risk as far as possible. This may include undertaking in-silico analysis, wet-lab testing, clinical testing.
- Continue to monitor the risk – Continue to monitor adverse events, literature evidence, media, genomic surveillance databases to remain abreast of any new variants.



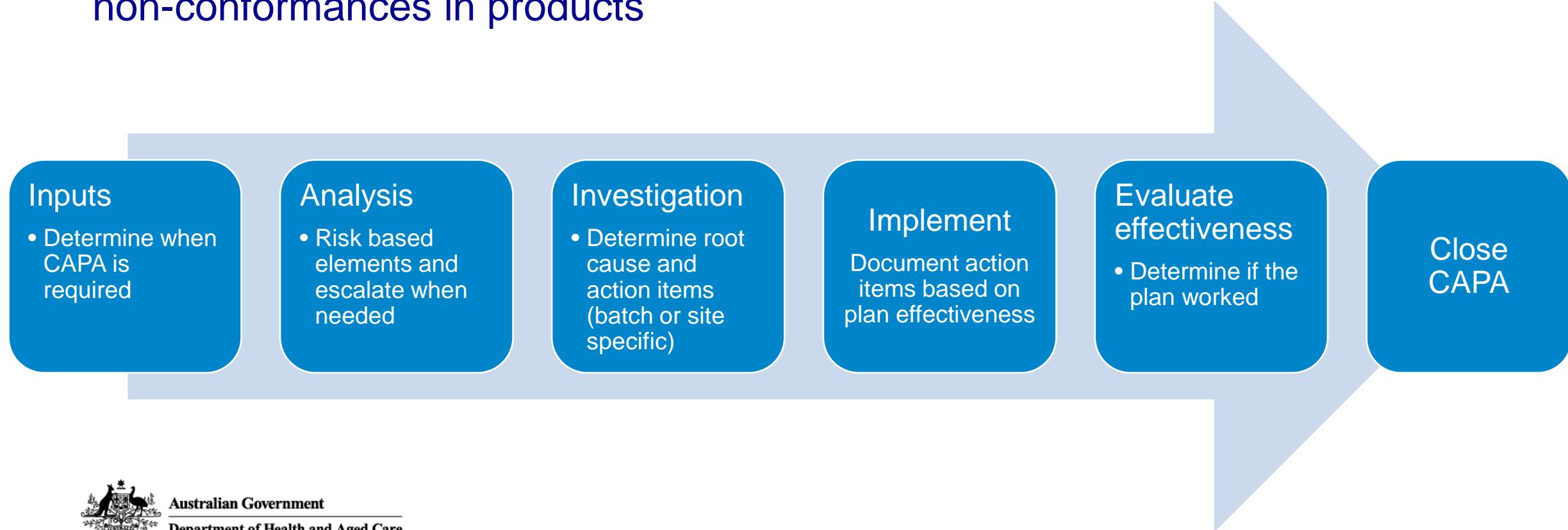
Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Root Cause Analysis and CAPA

Identification and elimination or reduction of existing or potential non-conformances in products



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Post-market review outcomes

- Closure of review
 - Not in scope
 - Sufficient and satisfactory evidence provided
- Amendment to Instructions for Use
- Recall of devices or safety notice
- Additional conditions of inclusion (s41 FP)
- Suspension (s41 GA & GF)
- Cancellation (s41 GK, GL, GM, & GN)
- Infringement notices
- Referral to:
 - Advertising Compliance (s42 DL) or
 - Regulatory Compliance

Uniform Recall Procedure for Therapeutic Goods
(<https://www.tga.gov.au/sites/default/files/uniform-recall-procedure-therapeutic-goods-urptg.pdf>)



If in doubt – contact us

Devices contact team

devices@health.gov.au

1800 141 144

Reforms

devicereforms@health.gov.au

Incident reporting

IRIS@health.gov.au

1800 809 361

Post-market reviews

postmarketdevices@health.gov.au



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Therapeutic Goods Administration (TGA)

Exhibition booth No.1

Want to chat with me further? Come visit us.





Australian Government

Department of Health and Aged Care

Therapeutic Goods Administration

Regulatory Update from the Medical Devices Surveillance Branch

Maria Ong
Director, Devices Vigilance and Policy Section
Medical Devices Surveillance Branch
Department of Health and Aged Care, TGA

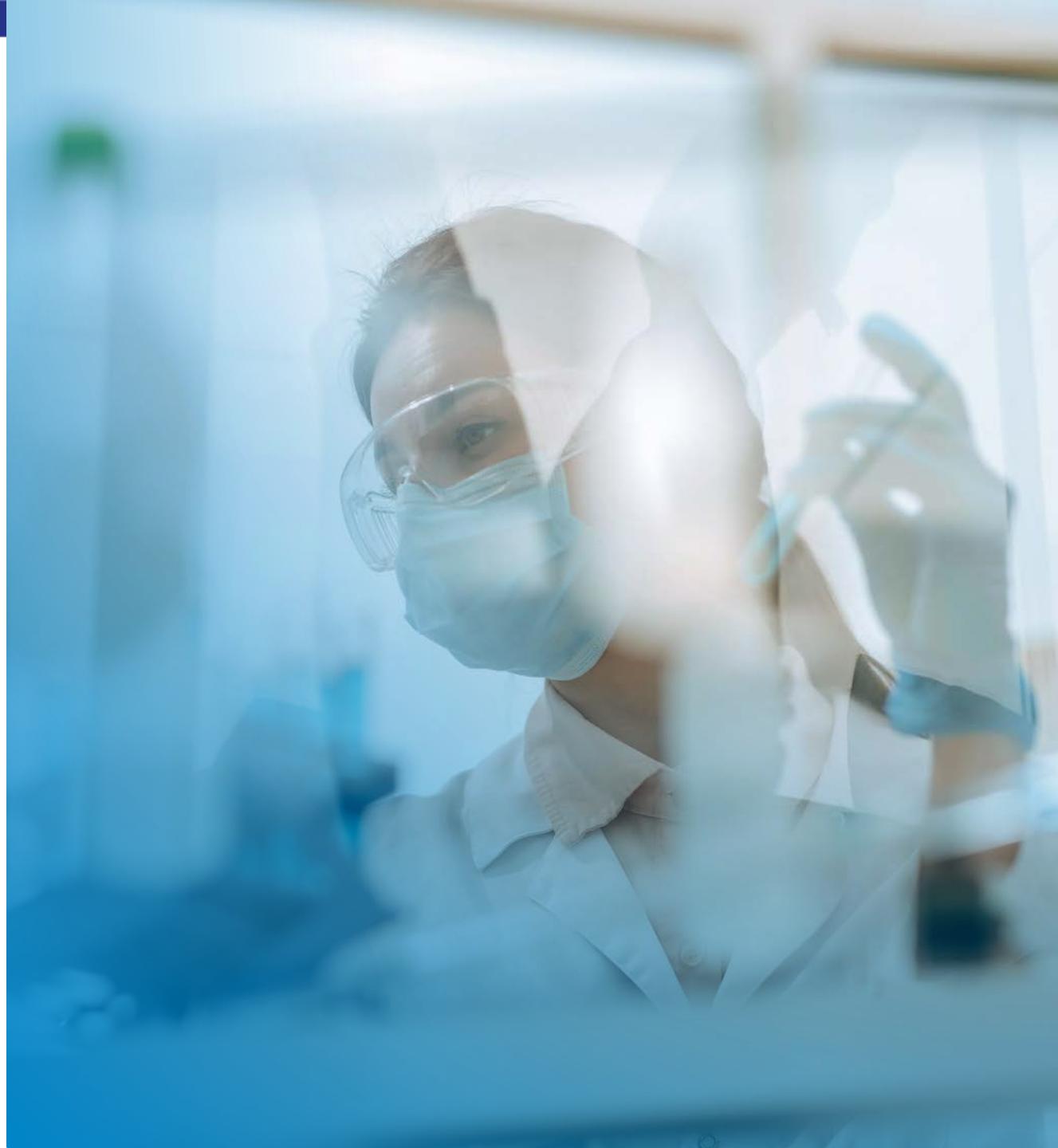


Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration

tga.gov.au

Medical Devices Vigilance Program

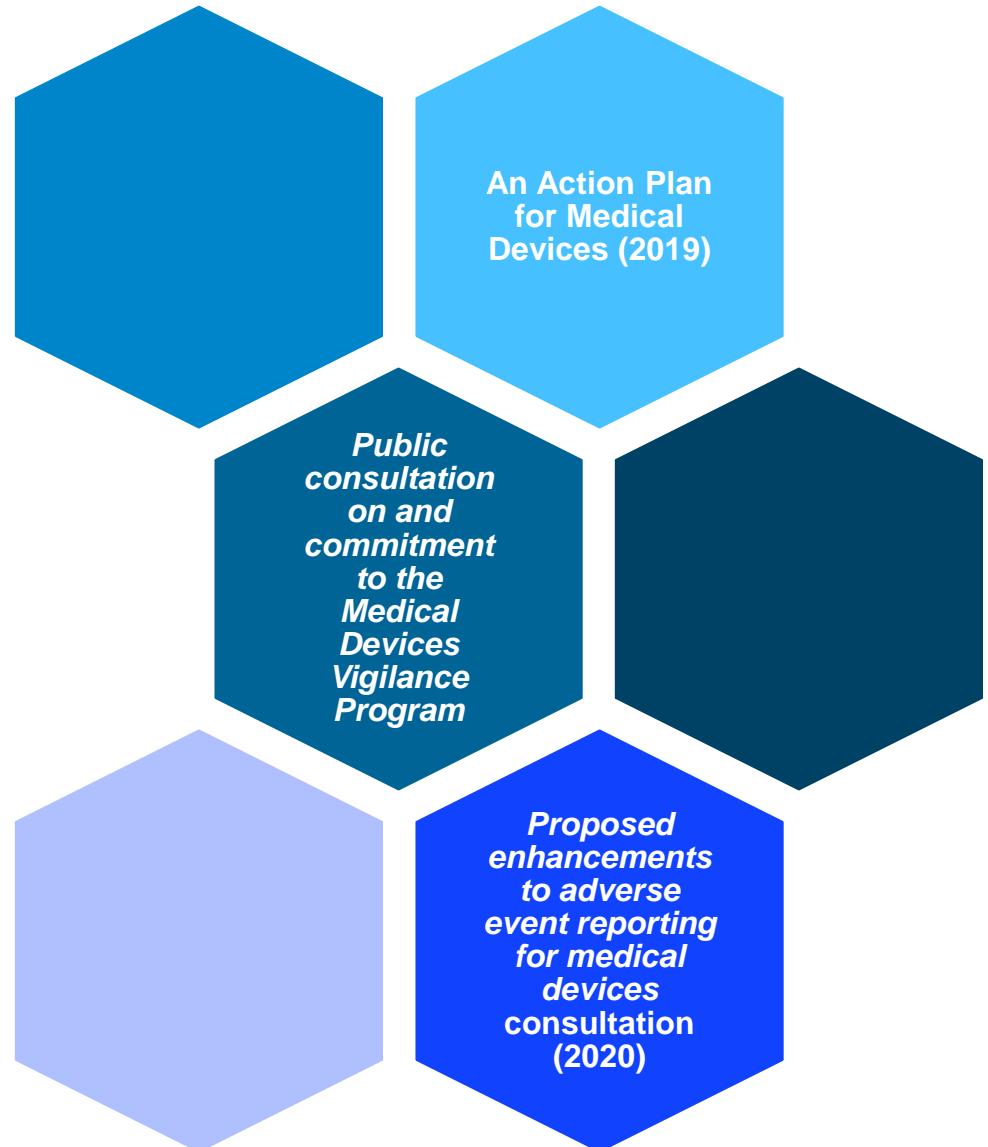


Background

Action Plan for Medical Devices

TGA 2020 consultation paper – industry and consumer feedback supported implementing such a program to:

- **educate and promote** better regulatory compliance among sponsors
- **reinforce** the requirement to hold timely and accurate information, and
- **ensure compliance** to requirements, whilst identifying areas for improvement.



MDVP Objectives



Improve understanding of regulatory obligations



Reinforce medical device sponsors' regulatory obligations and requirements



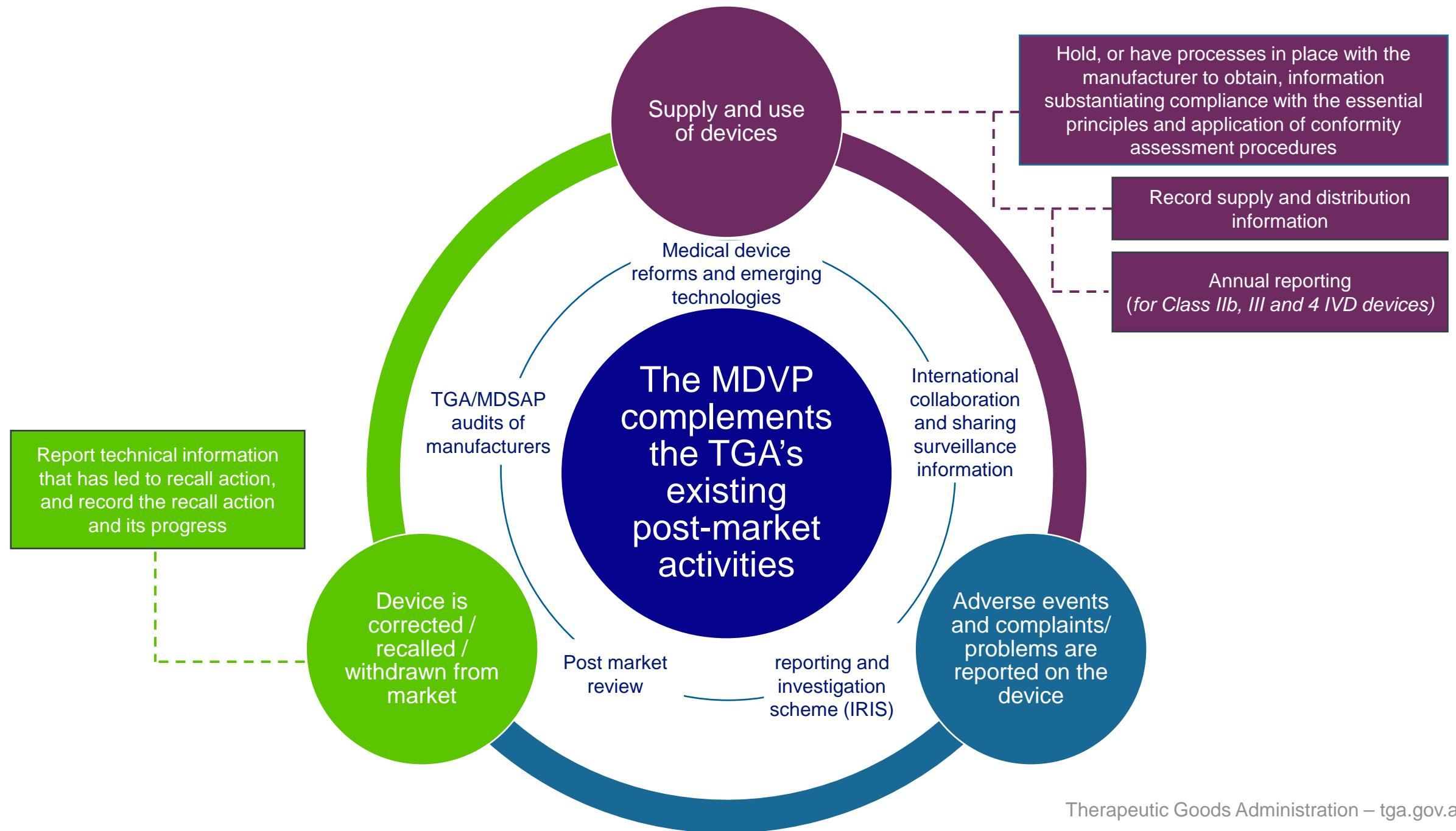
Increase access to, and availability and quality of the TGA's information that improves education, regulation and compliance



Improve the public's confidence in medical devices and its regulation

The MDVP aims to increase Australian medical device sponsors' understanding of, and compliance with, their post-market regulatory obligations.

It will complement the TGA's existing post-market monitoring, review and audit activities for medical devices.



Regulatory requirements reviewed by the MDVP

Therapeutic Goods Act 1989

Sections 41FN, KA, MP/MPA

Therapeutic Goods (Medical Devices) Regulation 2002

Clauses 5.6-5.8, 5.10, 5.11, 8.1

Information substantiating compliance with EPs and CAPs

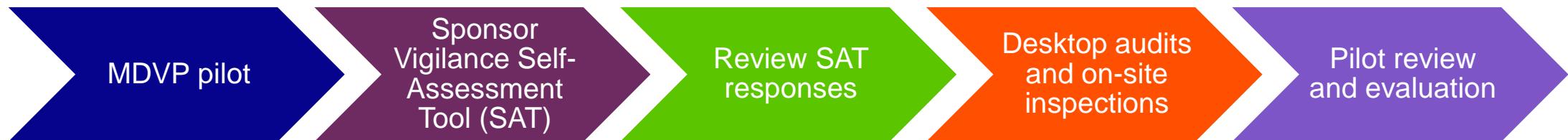
Receive, record, relay and retain adverse event reports and complaints/problems

Record and report recall actions and its progress

Record supply and distribution information

Annual reporting (for Class IIb, III and 4 IVD devices)

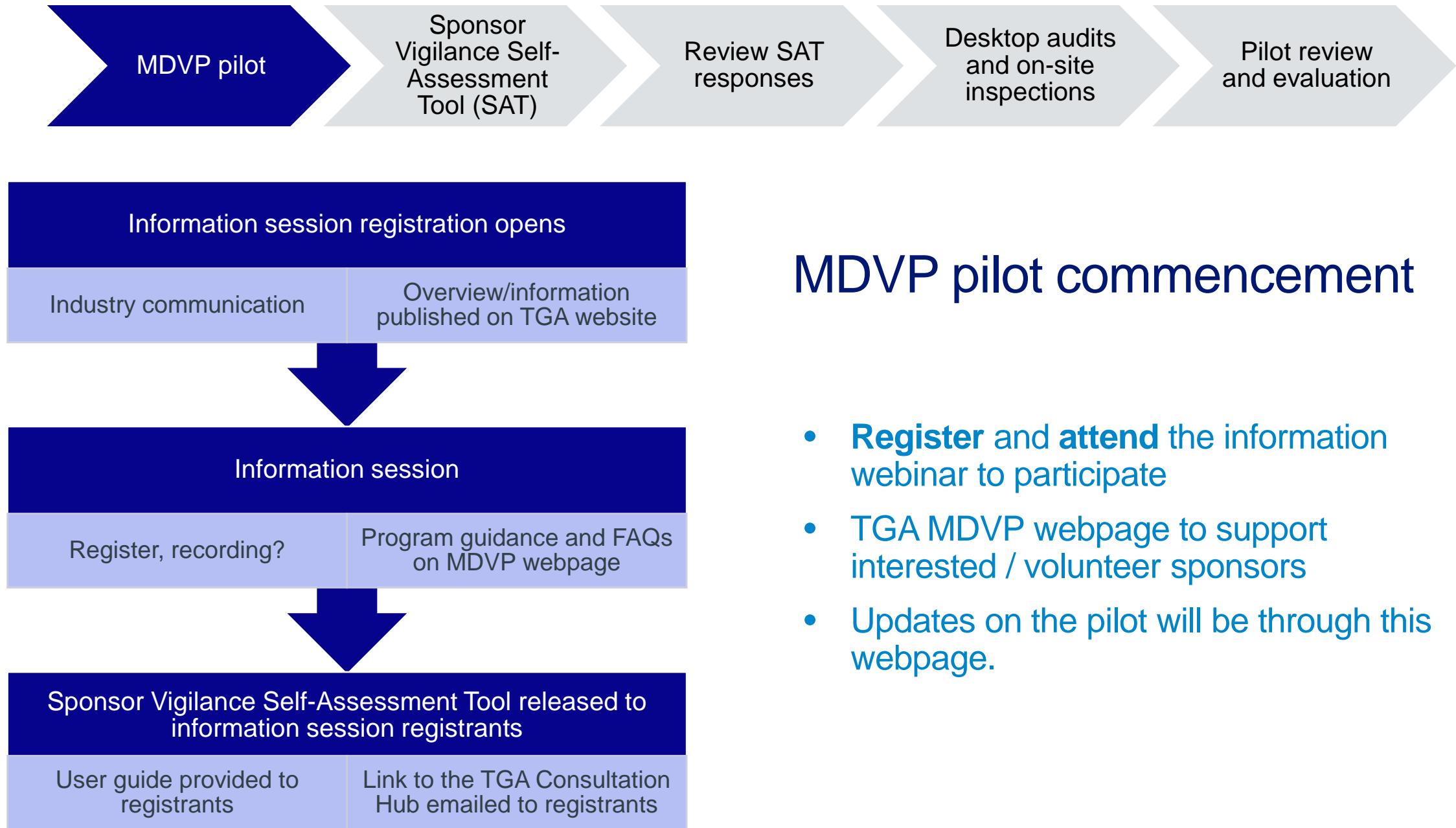
The MDVP pilot process

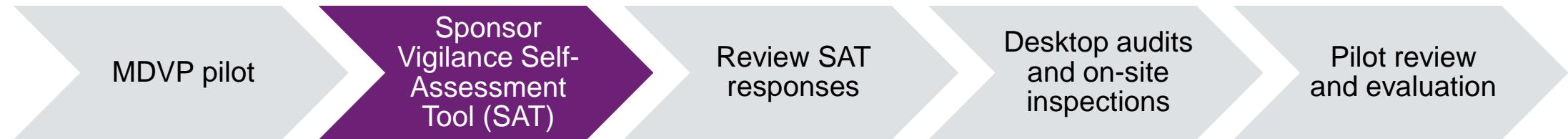


The MDVP pilot will run for 12 months across the 2023-24 financial year.

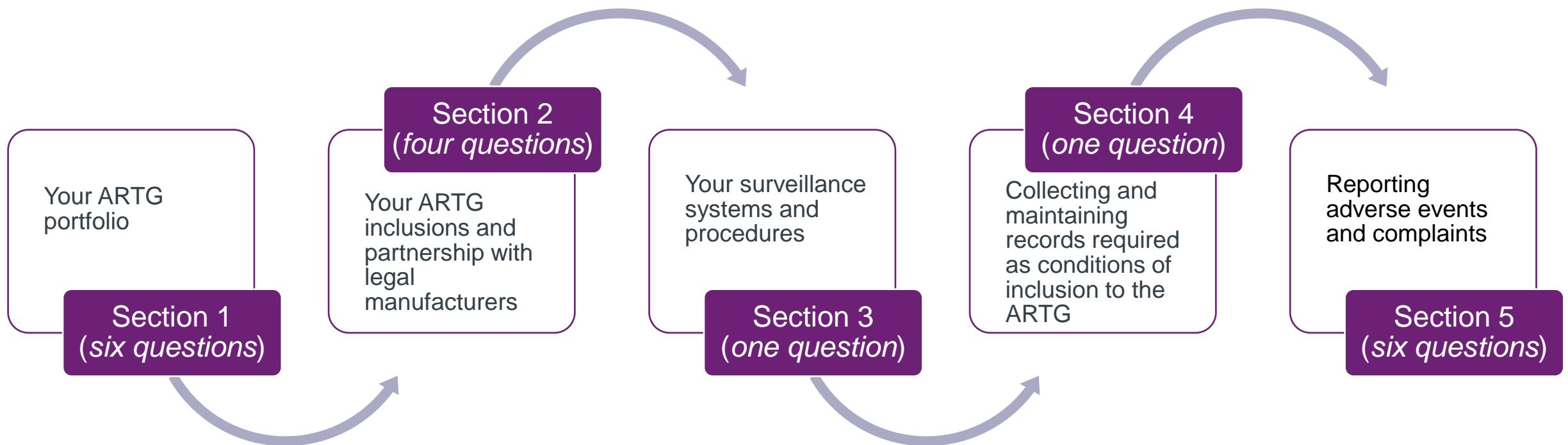
The pilot will:

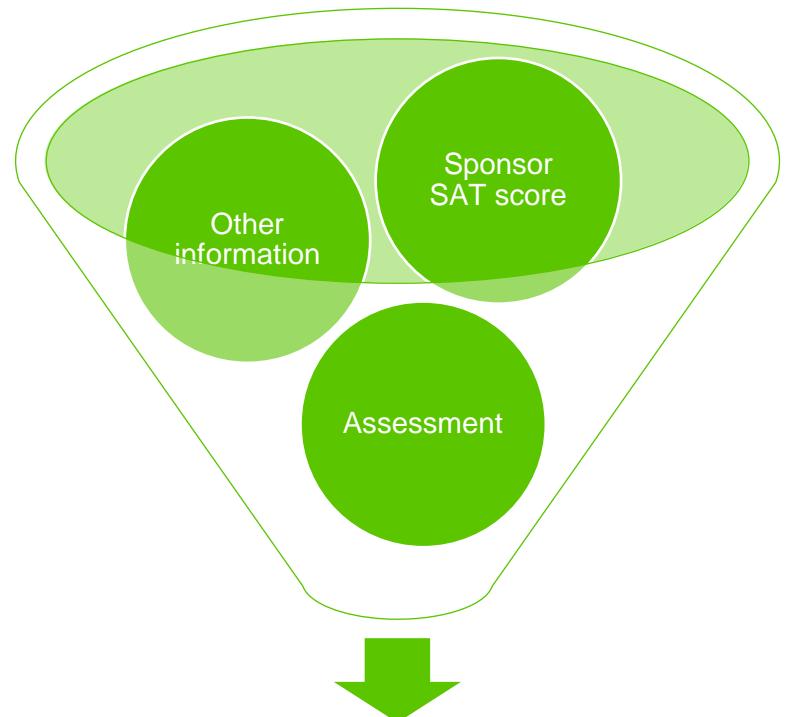
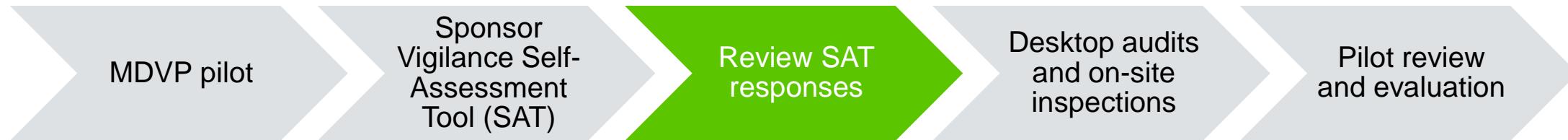
- gather information from volunteer sponsors
- select sponsors to progress to the next stage, based on responses to the sponsor survey/SAT tool
- undertake desktop audits and on-site inspections, and
- identify areas for improvement





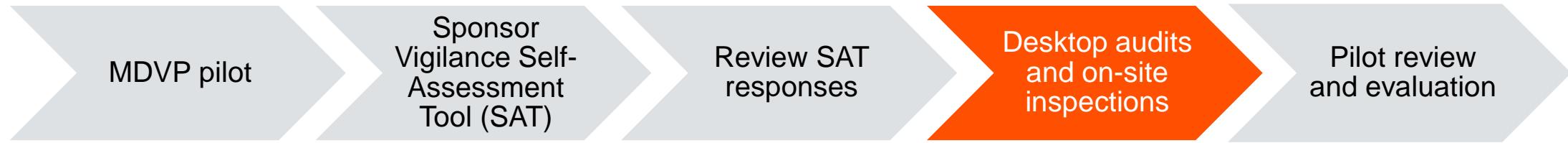
Sponsor Vigilance Self-Assessment Tool



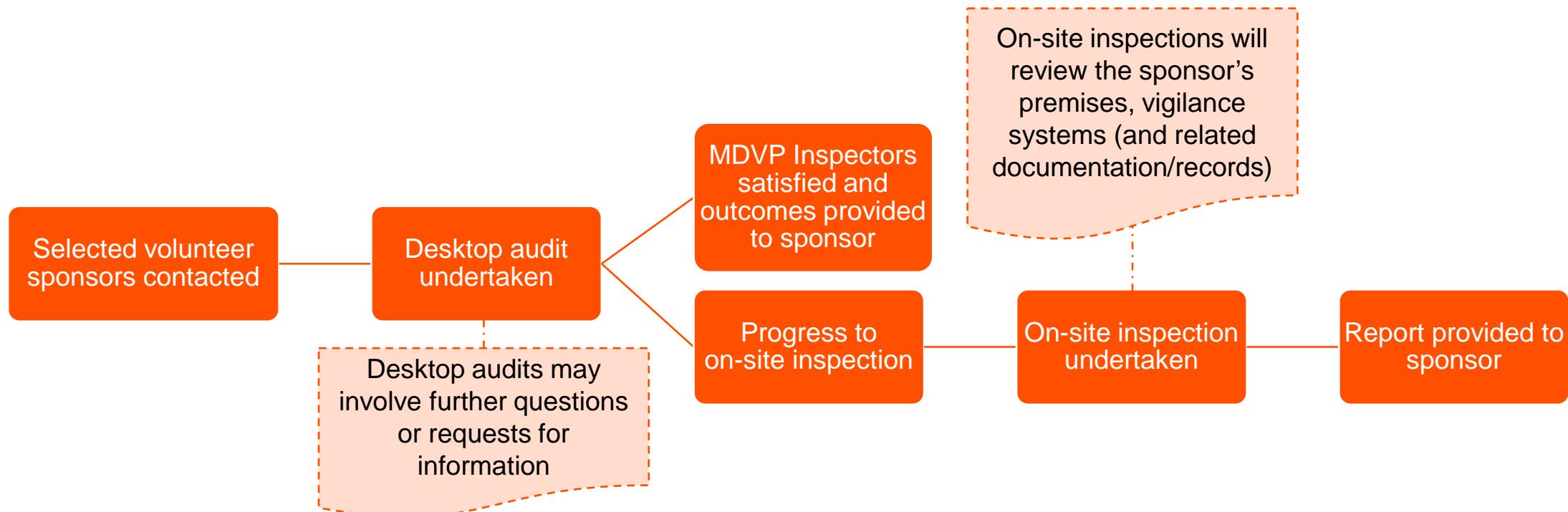


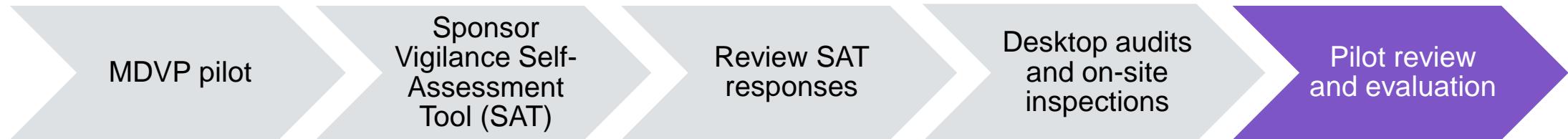
Review SAT responses

- Risk-based approach to select sponsors for desktop audits and/or on-site inspections
- Range of sponsors: i.e., different company sizes, experience, ARTG portfolio / device class diversity, etc can be selected

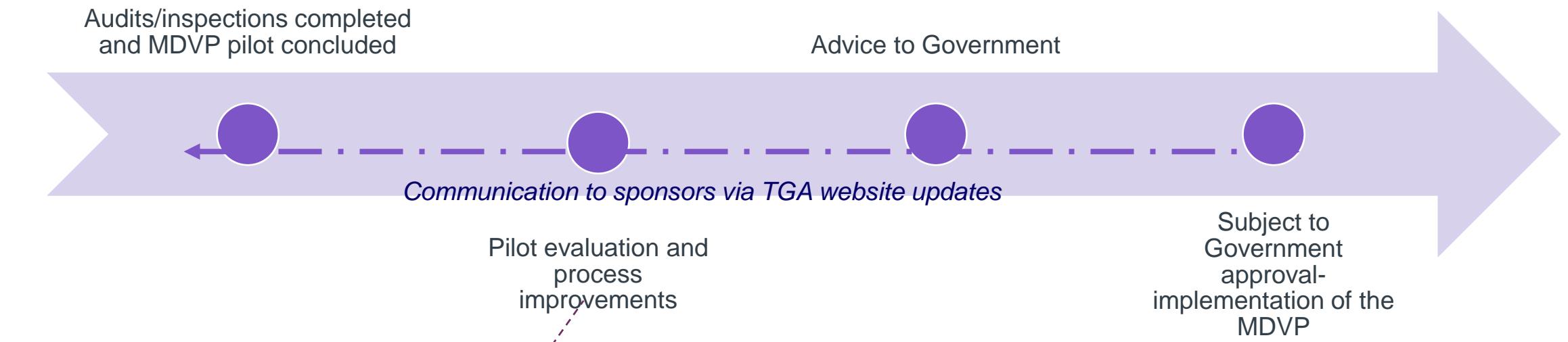


Desktop audits and on-site inspections





Pilot review and evaluation



Touchpoints for sponsor feedback:

- ❖ After information session (and associated education sessions)
- ❖ SAT user experience questionnaire (following SAT completion)
- ❖ [if sponsor is selected for audit/inspection] Following audit/inspection process
- ❖ Ongoing opportunity for feedback through the MDVP webpage and emails

Next steps and what to look out for



Government approval to commence the MDVP pilot



Communication from the TGA on the information session



MDVP website
Information session registration



[Contact us: MDVP@health.gov.au.](mailto:MDVP@health.gov.au)



Therapeutic Goods Administration (TGA)

Exhibition booth No.1

Want to chat with me further? Come visit us.





Questions?

www.tga.gov.au



Australian Government

Department of Health and Aged Care
Therapeutic Goods Administration