

# Developing Australian requirements for data matrix codes on medicines

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Australian Government

Department of Health

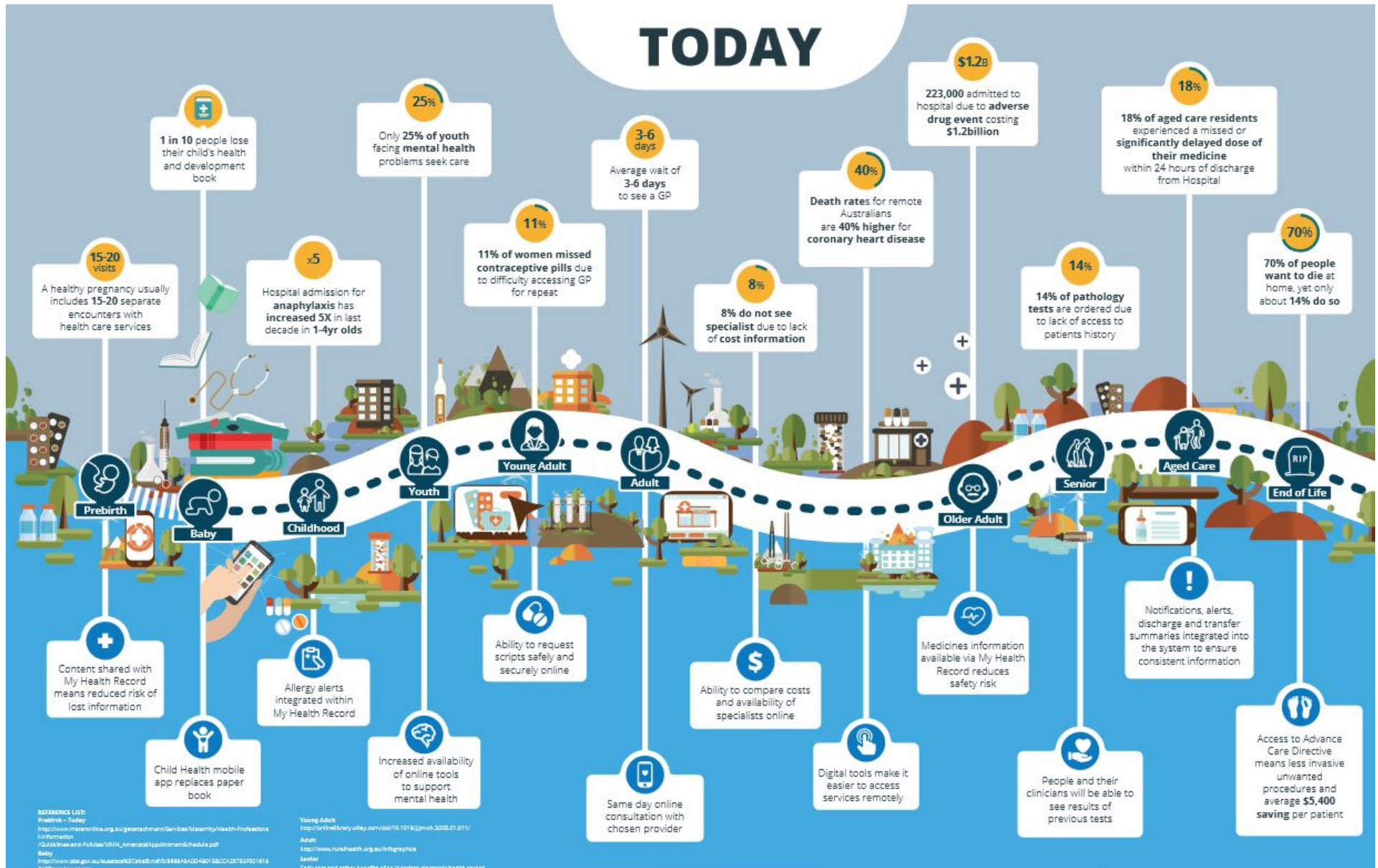
Therapeutic Goods Administration

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

# Outline

- » Australia's National Digital Health Strategy
- » Role of the Therapeutic Goods Administration
- » Making standards for medicines
- » Traceability & eMedication
- » Data matrix codes
- » Bringing it all together
- » Be part of the conversation

## TODAY



## FUTURE

**Finalists – Today**

<http://www.menofchina.org.sg/academicServices/Member/Health-Professionals-Information>  
2016 Information Folder VHM Annual Appointment Schedule.pdf

**Italy**

<http://www.aita.gov.it/areaassessor3/Catena/tema/9/888/4/024/001/560/CA/257920014/1/4/0/0/dependencies>

<http://www.medicaresearch.us.au/men-health-eaale-spline-for-the-latest-blue-book-revision-194161>

**Childhood**

<http://www.jadwinia.org/article/G009-4774/1/5/00703-2/abstract>

**Yishu**

<http://www.mindthe-media.hk/en/mindthe-media-reporting-mental-health-and-its-issues>

**CAW**

**Adults**  
<http://www.nursinghealth.org.au/InPgraphics>  
**Senior**  
Early onset and safety benefits of an inpatient electronic health record  
Dabab et al  
J Am Med Inform Assoc (2015) 18 (2): 166-172  
**Aged Care**  
Dose Individualized Advance Care Planning reduces the costs of care near  
systematic review and critical conclusions  
Corliss Hingstler, Jorges In der Schmiedt and Georg Mandmann  
End of Life / Palliative  
<http://grm.inm.edu.au/wp-content/uploads/2014/08/3-15-tying-evidence>

**Senior**  
Early onset and safety benefits of an implantable electronic health record  
Zibak et al  
J Am Med Inform Assoc (2015) 18 (2):168-172  
**Agreed Cases**  
Does facilitated Advance Care Planning reduce the cost of care near  
Systematic review and ethical considerations  
Corina Winkler, Jürgen In der Schmelz and Georg Meisemann  
End of Life / Palliative  
<https://www.ama-assn.org/spe-cen/etn/upload/2014/09/15-dying-well>



Australian Government  
Australian Digital Health Agency

# Role of the TGA

Part of the Department of Health, the TGA regulates therapeutic goods in Australia.

We administer the *Therapeutic Goods Act (1989)* to support the quality, safety, efficacy and timely availability of therapeutic goods.

We:

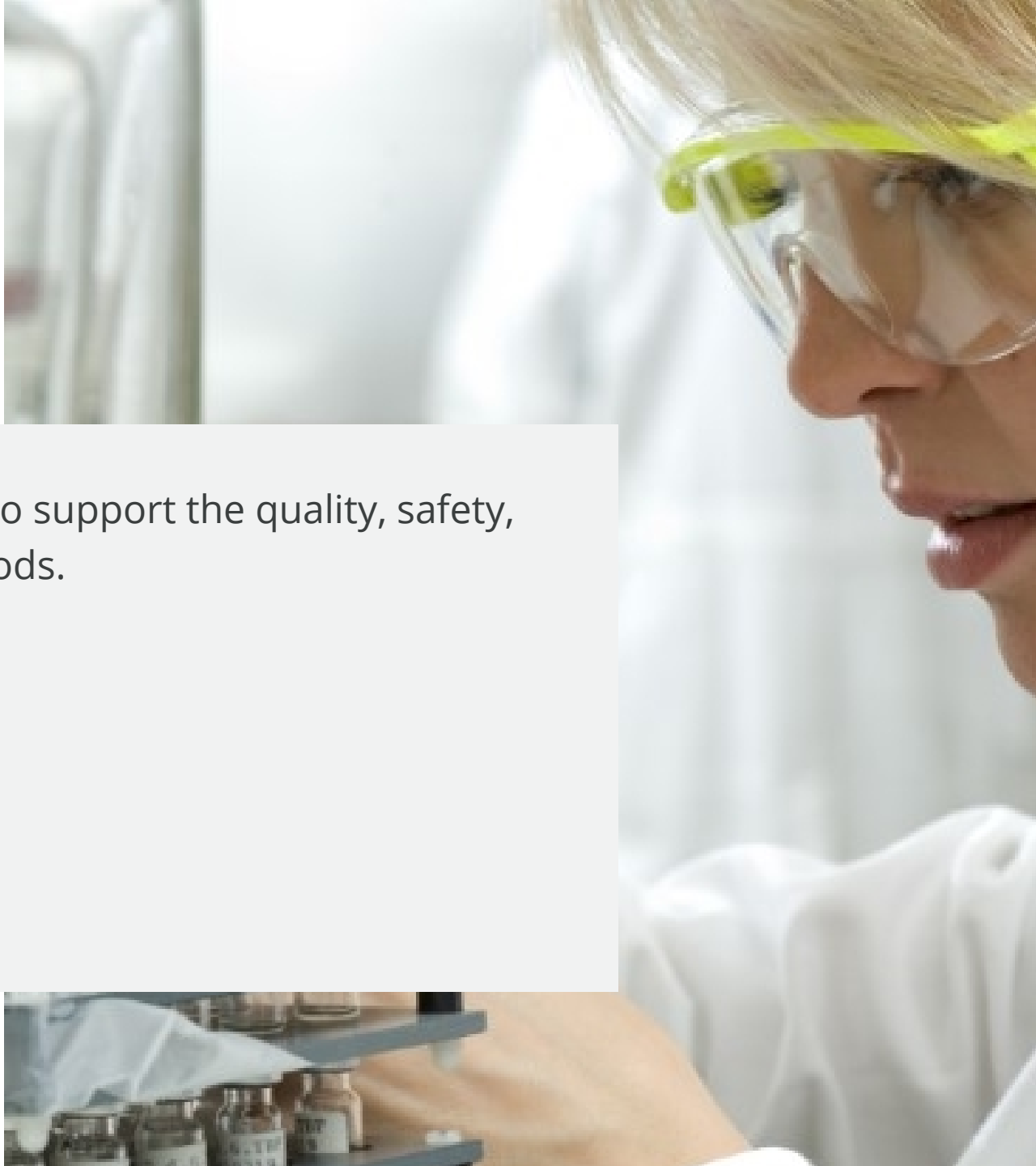
- approve medicines for supply
- recall and recover products that are not safe
- license manufacturing sites
- set requirements to establish quality.



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# Making standards for medicines



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# Medicine identification

## Where we started

GTIN uniquely identifies the product  
- strengths, pack size, dose forms

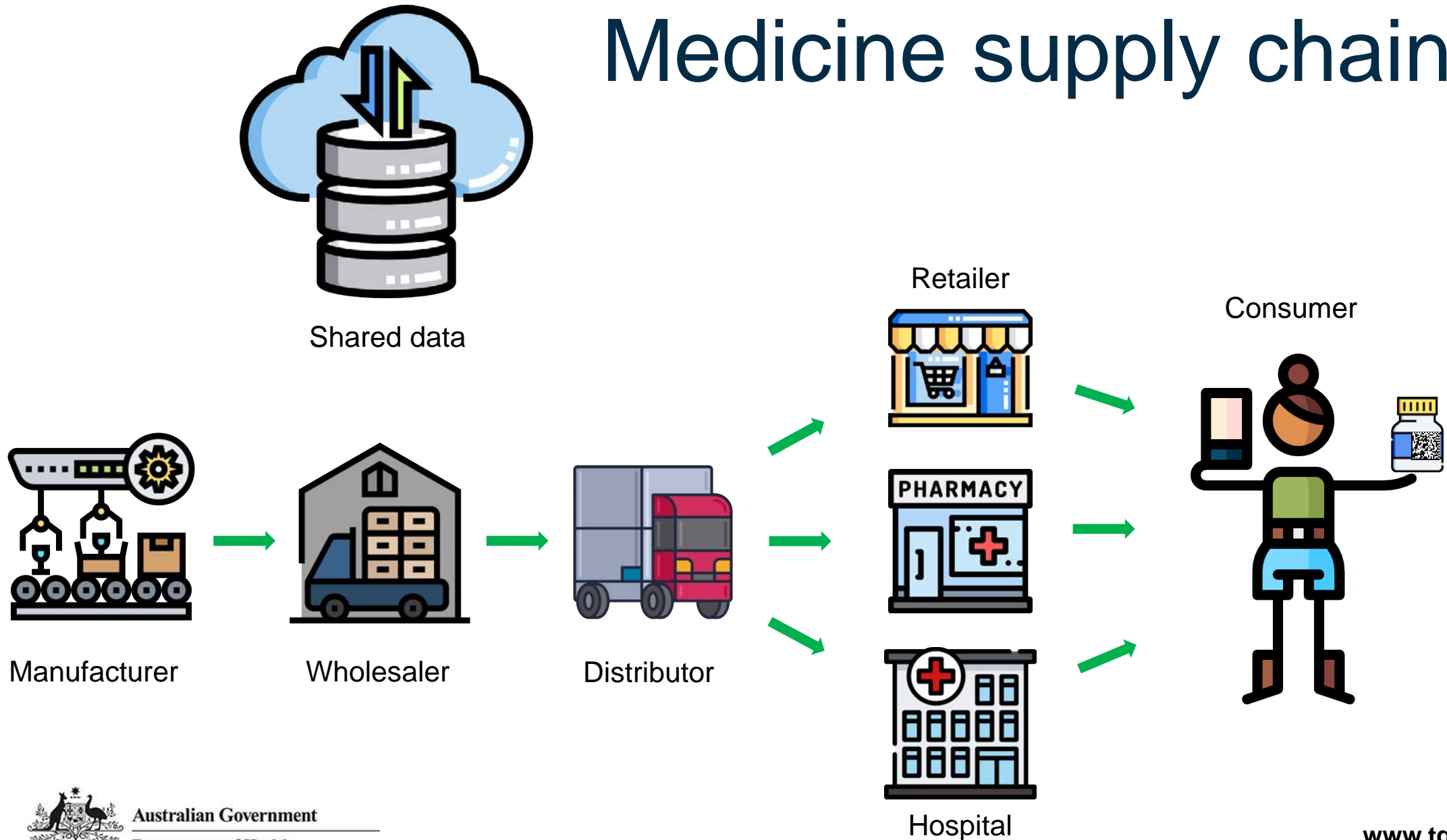
GS1 compliant

Linear barcode





# Medicine supply chain



# Traceability

Benefits when data matrix codes are used in a traceability model



Efficient and targeted  
recalls



Global interoperability



Improved inventory  
management



Authenticity verification



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# eHealth

eHealth opportunities enhanced by data matrix codes



# Preparing for the future

A standard for data matrix codes is the first step towards medicine traceability in Australia



# Why DataMatrix

Linear barcode



- ✗ The more data encoded, the bigger the barcode
- ✗ Not practical for small packs
- ✗ Sensitive to scan

2D DataMatrix code



- ✓ Holds more data in a smaller area
- ✓ High level error correction mechanism
- ✓ Better scanning reliability
- ✓ Industry standard



A clear and consistent  
standard nationally  
applied and globally  
interoperable



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# Our limitations

- ✗ Track and trace policy for medicines
- ✗ Policies and practices for health professionals, software vendors or other parts of government
- ✗ Regulation of medicine distribution
- ✗ Visibility of supply information
- ✗ Consolidated data, other than the ARTG

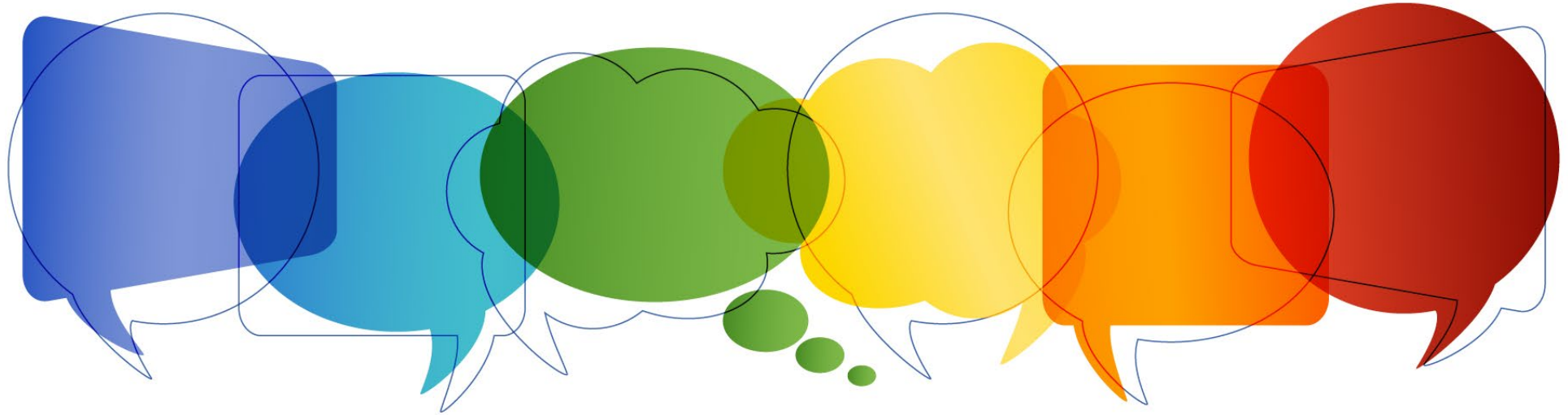




An aerial view of a large crowd of people walking on a floor that has a complex, colorful circuit board pattern. The pattern consists of red, blue, and purple lines forming a grid-like structure with various angles and intersections. The people are small figures scattered across the floor, moving in different directions. A dark blue rectangular banner is overlaid in the center of the image, containing the text "Bringing it all together" in white.

# Bringing it all together





# Be part of the conversation

Consultation will be open for comments on the  
TGA website

[tga.gov.au/open-consultations-reviews](https://www.tga.gov.au/open-consultations-reviews)



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# Questions?

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Therapeutic Goods Administration