

# PBS Developers' Forum

11th May 2017

# Agenda

- ✦ Welcome/Introduction
- ✦ Action Items
- ✦ Safety Net
- ✦ EFC UOM “nanogram”
- ✦ PBS XML Schema 3.0
- ✦ AMT v3
- ✦ IHMN
- ✦ PBS XML Subsets
- ✦ Other Business
- ✦ Meeting close

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# Action Items

- *The PBS Online system will identify if a patient has been to another Pharmacy for the same script. Department of Health will advise further on this issue.*
  - ERRCD
  - Action for EMMS

# Action Items

- ✦ *Difficult AMT cases.*
- ✦ *AMT reconciliation: how to prioritise and speed up*
  - ✦ See AMT presentation
- ✦ *S/O: Manufacturer code changes/removals*
  - ✦ DHS system does not handle changes to brands

# Action Items

- *Can we achieve better synchronisation between PBS and AMT releases?*
  - Ongoing

# Action Items

- *Pro's and Con's of adding PBS code to script.*
  - Policy discussion

# Action Items

- *How will new V3 features be emulated in V2?*
  - See presentation



# Action Items

- ✦ *Add Rendering Specification to PBS XML Schema package*
  - ✦ Accepted
  - ✦ Will be provided ASAP

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# Safety Net

- Q: can vendors handle different values and combinations of days+counted?

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# EFC UOM

- ✦ New listing (May 2017)
  - ✦ blinatumomab
- ✦ Vial size is 38.5 mcg
- ✦ Cannot have fractional size  $\Rightarrow$  new UOM
- ✦ “nanogram”

# EFC UOM

- ✦ New UOM after v3.0 PBS XML deploy
- ✦ Interim arrangement
  - ✦ vial content = 39 mcg

# EFC UOM

```
<pbs:maximum-quantity reference="unit-of-measure"  
                        amount="1"  
                        unit="mcg"  
>651 </pbs:maximum-quantity>
```

```
<pbs:vial-content unit="mcg" amount="1">39</pbs:vial-content>  
<pbs:pack-content unit="mcg" amount="1">39</pbs:pack-content>
```

# EFC UOM

- ✦ New UOM after v3.0 PBS XML deploy
- ✦ Listing will change to “nanogram”
  - ✦ vial content = 38500 nanogram
- ✦ Items 11115B, 11116C, 11117D, 11118E, 11119F, 11120G



# EFC UOM

```
<maximum-prescribable
  rdf:resource="http://pbs.gov.au/reference/unit-of-measure/nanogram">
  <value>651000</value>
  <determined/>
  <mp-reference xlink:href="#a1026">
    <code rdf:resource="http://snomed.info/sct/900062011000036108"
    >764951000168103</code>
    <effective><date>2017-05-01</date></effective>
  </mp-reference>
  <effective><date>2017-05-01</date></effective>
</maximum-prescribable>

<content
  rdf:resource="http://pbs.gov.au/reference/unit-of-measure/nanogram"
  >38500</content>
```

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# PBS XML v3.0

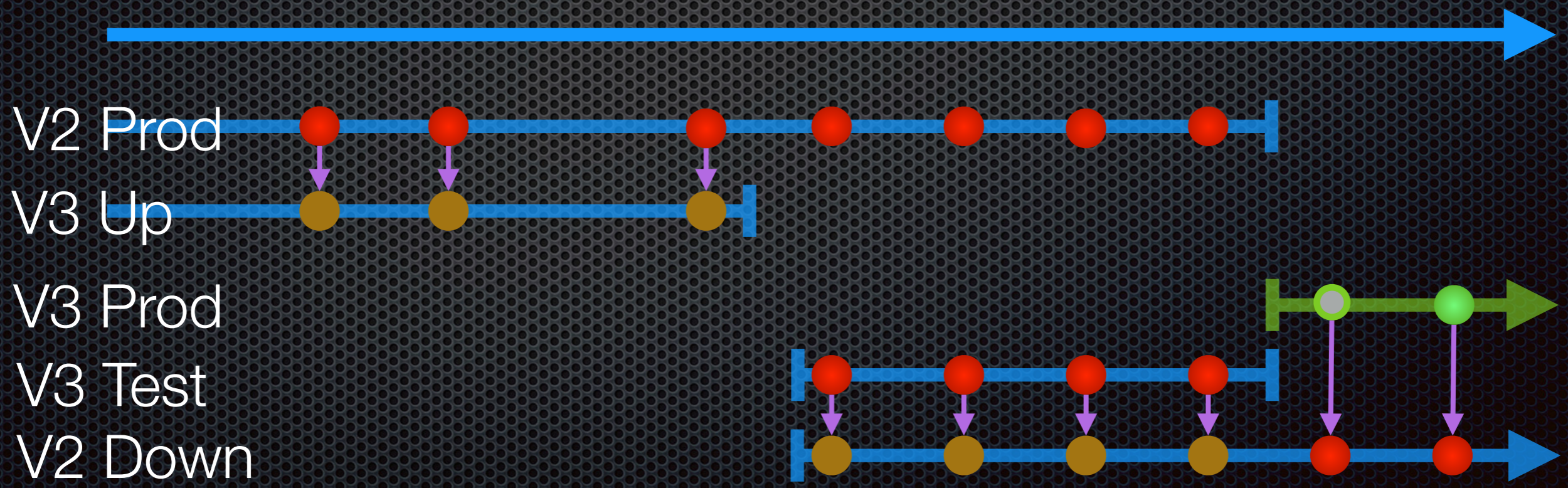
- ✦ Schedule
- ✦ Testing
- ✦ Transition Plan
- ✦ Progress

# PBS XML v3.0

- ✦ Schedule
- ✦ Align with DHS
- ✦ No changes in March 2017
- ✦ ~~V3 Go-Live: April 2017 Schedule~~
- ✦ V3 Go-Live: September 2017 Schedule

# PBS XML v3.0

Jan 2017   Feb 2017   ~~March 2017~~   April 2017   May 2017   June 2017   July 2017   Aug 2017   Sept 2017   Oct 2017



# PBS XML v3.0

- ✦ Schedule
- ✦ Testing
- ✦ Transition Plan
- ✦ Progress

# PBS XML v3.0

- ✦ V3 PBS XML test data
- ✦ down-converted V2.12 PBS XML test data
- ✦ Up to April 2017
  - ✦ Production V2.12 up-converted to V3.0

# PBS XML v3.0

- ✦ V3 PBS XML test data
- ✦ down-converted V2.12 PBS XML test data
- ✦ Beyond May 2017
  - ✦ Production Schedule produced as V3.0
  - ✦ down-convert to V2.12
  - ✦ Produce text extracts using existing process



# PBS XML v3.0

- File naming

Purpose	Filename	Zip
V2.12 PBS XML	<i>pbs-yyyy-mm-dd-vR.xml</i>	<i>yyyy-mm-dd-xml-vR.zip</i>
text extracts	<i>file_yyyymmdd.txt</i>	<i>yyyy-mm-dd-extracts-vR.zip</i>
V3.x PBS XML	<i>sch-yyyy-mm-dd-rR.xml</i>	<i>yyyy-mm-dd-sch-rR.zip</i>
DC V2.12 PBS XML	<i>down-yyyy-mm-dd-rR.xml</i>	<i>yyyy-mm-dd-down-rR.zip</i>
DC text extracts	<i>file_yyyymmdd.txt</i>	<i>yyyy-mm-dd-downextracts-vR.zip</i>

# PBS XML v3.0

- ✦ NB. 'r' for 'release' instead of 'v'
- ✦ Q: do we want DC PBS XML v2.12 to appear to be exactly the same as current v2.12 PBS XML?
  - ✦ i.e. use same filename?

# PBS XML v3.0

- ✦ UAT
- ✦ Test files available to all
- ✦ Use UAT form to report issues
  - ✦ <https://dev.pbs.gov.au/content/news/2017/04/uat-forms/uat-support-request-form.pdf>
  - ✦ <https://dev.pbs.gov.au/content/news/2017/04/uat-forms/uat-support-request-form.docx>

# PBS XML v3.0

- ✦ UAT
- ✦ 1 issue per emailed form
- ✦ Continuous feedback

# PBS XML v3.0

- ✦ UAT
- ✦ Control group
- ✦ Start 24th April 2017
- ✦ End 7th June 2017

# PBS XML v3.0

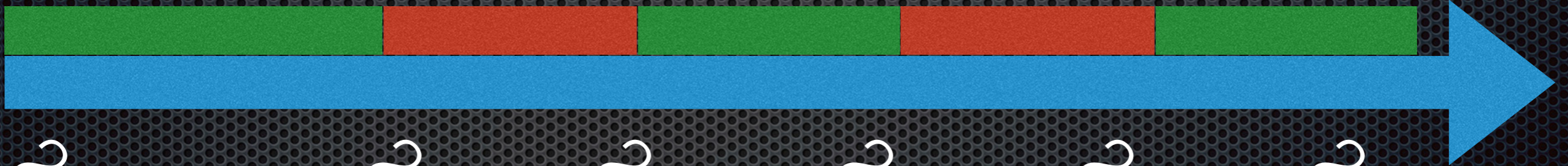
Review 1

Feedback 1

Review 2

Feedback 2

Review 3



2017-04-24

2017-05-10

2017-05-17

2017-05-24

2017-05-31

2017-06-07

# PBS XML v3.0

- ✦ Schedule
- ✦ Testing
- ✦ Transition Plan
- ✦ Progress

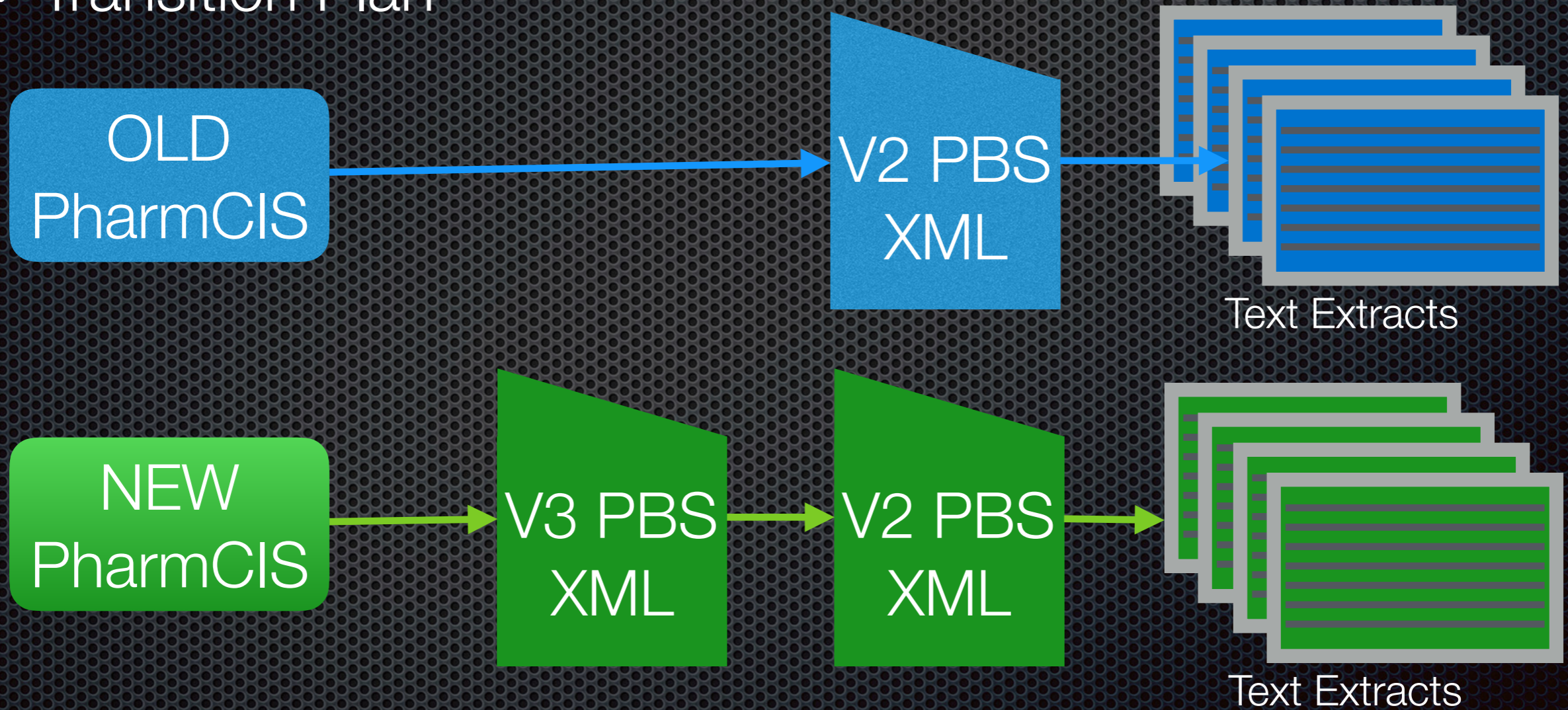
# PBS XML v3.0

- ✦ Transition Plan
- ✦ Support users to transition from v2 to v3
- ✦ Support users to adopt v3
- ✦ Support users to transition from text extracts to v3 or Subsets



# PBS XML v3.0

## Transition Plan



# PBS XML v3.0

- ✦ Transition Plan
- ✦ Provide data under embargo
  - ✦ V3 PBS XML
  - ✦ Down-converted V2 PBS XML
  - ✦ Text extracts from DC V2 PBS XML
  - ✦ Started May 2017 Schedule

# PBS XML v3.0

- ✦ Transition Plan
- ✦ No upconversion in production
- ✦ || publication of V2 and V3 PBS XML
- ✦ 12 months: final v2 PBS XML September 2018

# PBS XML v3.0

- ✦ Transition Plan
- ✦ Downconversion of V3 to V2
- ✦ Freeze v2 schema

# PBS XML v3.0

- ✦ Down convert specification
- ✦ Translate V3 elements & structures to V2.12
- ✦ Reverse of *V2 Mapping Specification*

# PBS XML v3.0

- ✦ Down convert specification
  - ✦ Supply-only items
    - ✦ De-list in first month
    - ✦ Removed in subsequent months

# PBS XML v3.0

- ✦ Down convert specification
  - ✦ V3 restriction-reference  $\Rightarrow$  V2 restriction
  - ✦ treatment-of code  $\Rightarrow$  restriction code
  - ✦ Add per-PR notes/cautions
  - ✦ V3 restriction  $\Rightarrow$  removed

# PBS XML v3.0

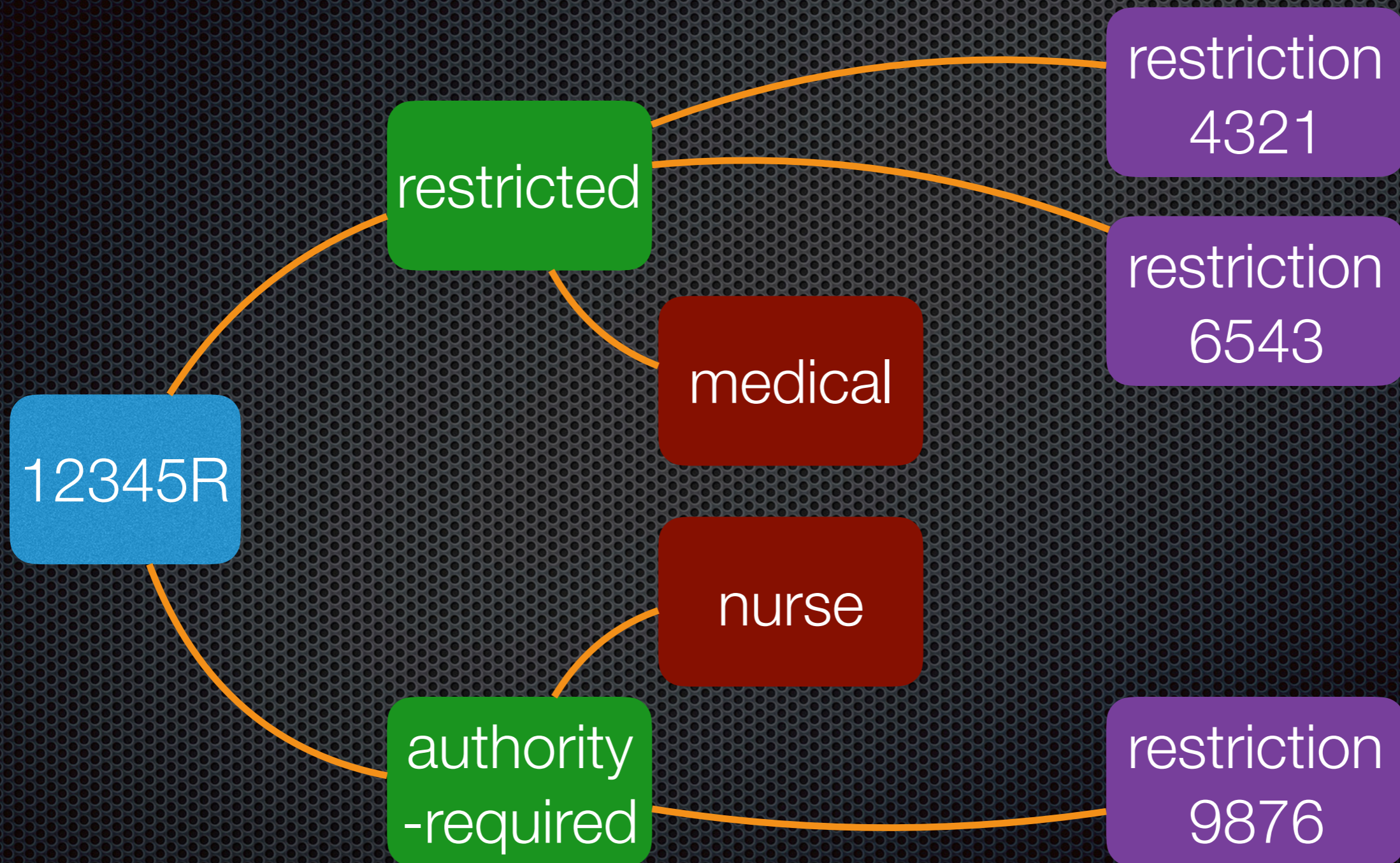
- ✦ Down convert specification
  - ✦ per-prescribing rule notes/cautions
    - ✦ Repeat on every restriction
    - ✦ unrestricted items  $\Rightarrow$  pseudo-restriction
    - ✦ 'U' code: unstable



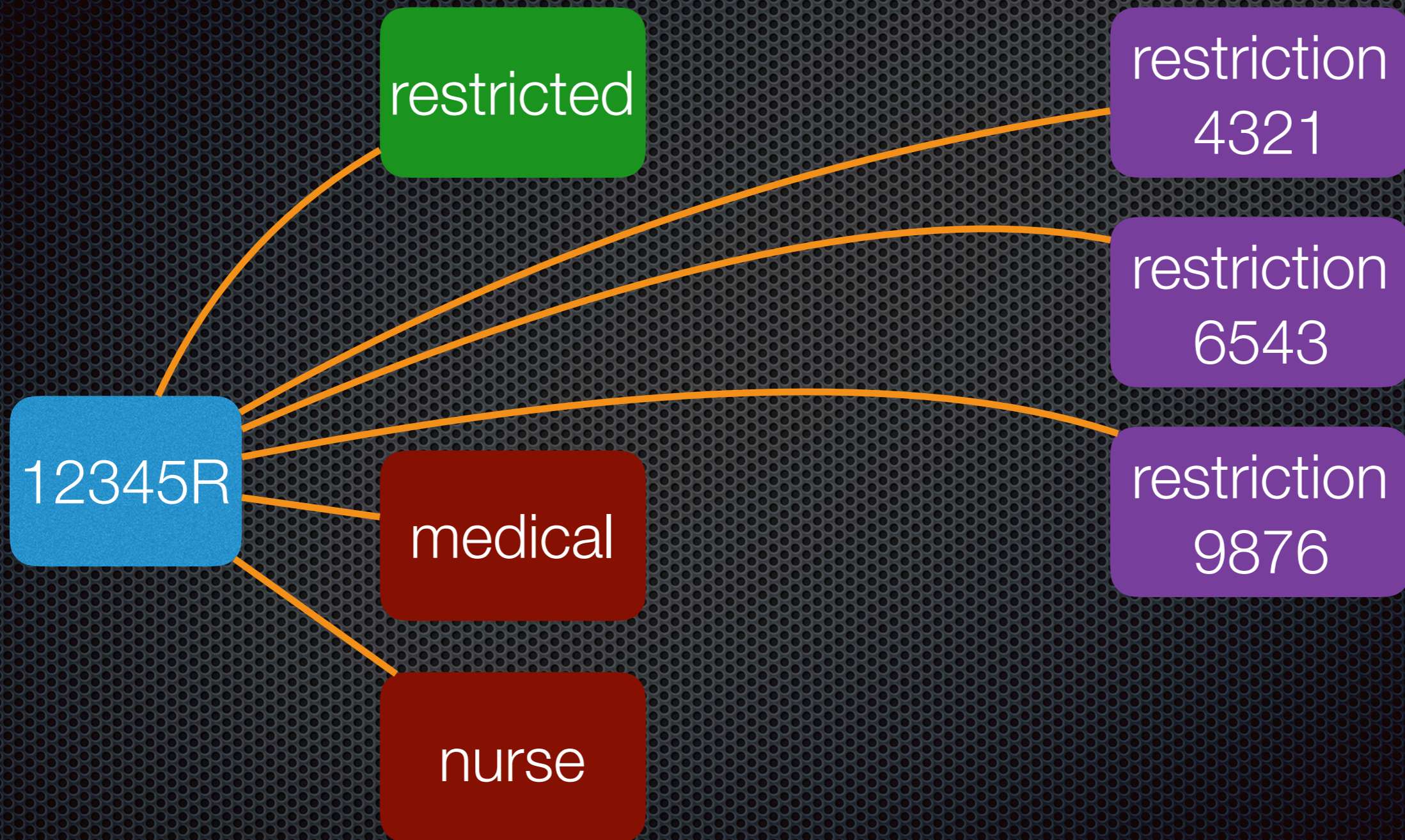
# PBS XML v3.0

- ✦ Down convert specification
  - ✦ Multiple benefit types
    - ✦ Merge restriction-reference list
    - ✦ Merge prescriber types
    - ✦ Use broadest restriction level

# PBS XML v3.0



# PBS XML v3.0



# PBS XML v3.0

- ✦ Down convert specification
  - ✦ Logical operators  $\Rightarrow$  simulate logical constraints
  - ✦ alternate-text rendered as per spec

# PBS XML v3.0

- ✦ Down convert specification
  - ✦ Logical operators  $\Rightarrow$  simulate logical constraints
  - ✦ `<restriction>/<all>`  $\Rightarrow$  ✓
  - ✦ `criteria/<any>`  $\Rightarrow$  ✓
  - ✦ `single child`  $\Rightarrow$  ✓

# PBS XML v3.0

- ✦ Down convert specification
  - ✦ Logical operators  $\Rightarrow$  simulate logical constraints
  - ✦ `<one-of>`  $\Rightarrow$  ✗ treat as `<any>`
  - ✦ `restriction/<any>`  $\Rightarrow$  ✗
  - ✦ `criteria/<all>`  $\Rightarrow$  ✗

# PBS XML v3.0

- ✦ Down convert specification
  - ✦ Remove images
  - ✦ Ignore data facets

# PBS XML v3.0

- ✦ Schedule
- ✦ Transition Plan
- ✦ Progress



# PBS XML v3.0

- ✦ Pre-Production stage
- ✦ Finalise schema, complete package, test data available
- ✦ Pre-Production Release 5: December 2016
- ✦ Production Candidate Release 1: May 2017

# PBS XML v3.0

- ✦ Production Candidate Release 1
- ✦ May 2017
- ✦ Revise terminology-class for code
  - ✦ markup-band, member-of
- ✦ Bug fix: optionality in lists

# PBS XML v3.0

- ✦ Production release
- ✦ Late July / early August 2017
- ✦ Minor releases
  - ✦ Use extension mechanism

# Agenda

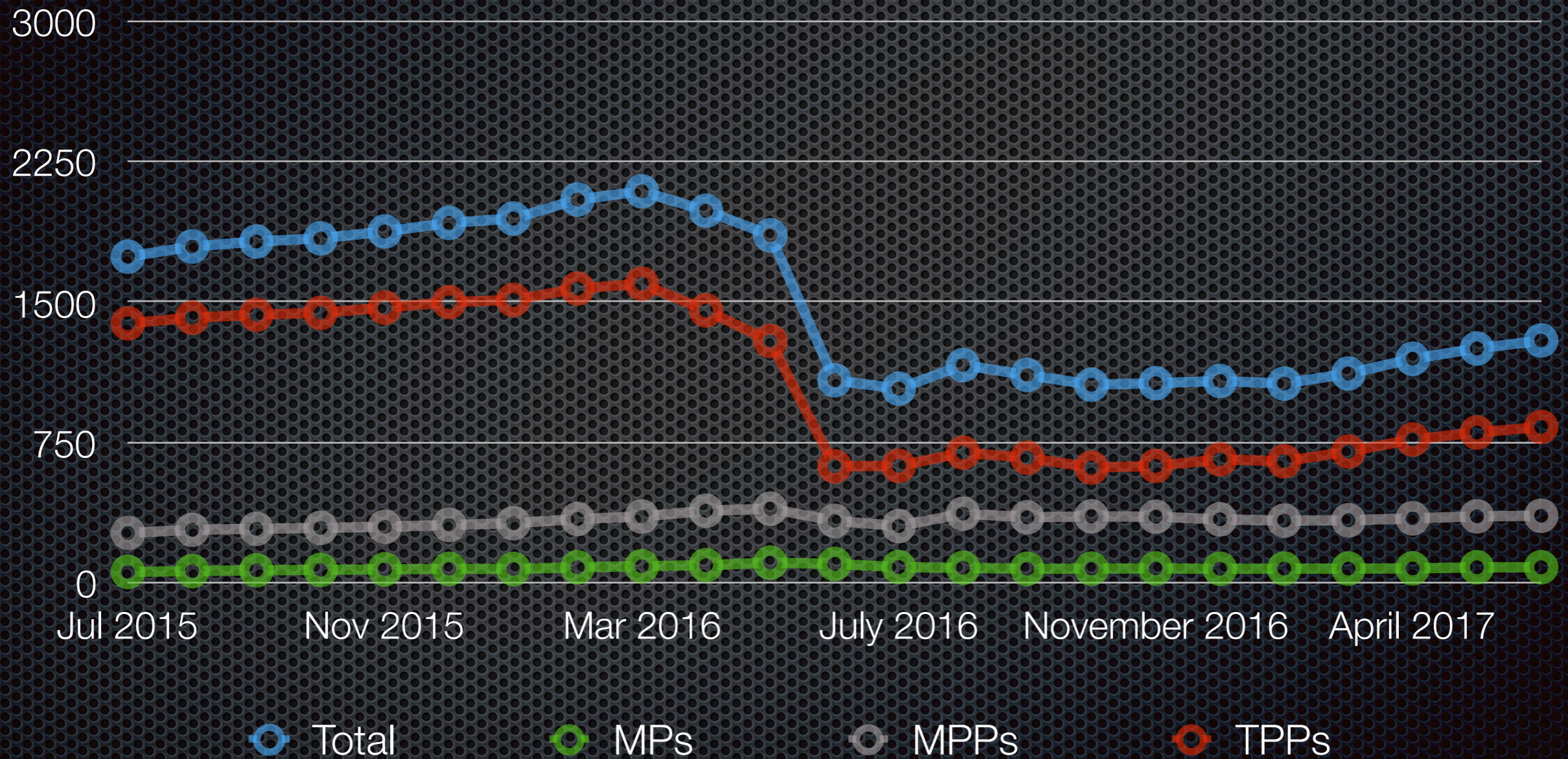
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# AMT v3

- ✦ PharmCIS uses AMT v3
- ✦ Load monthly releases
- ✦ Backlog of un-reconciled concepts

# AMT v3

## Non-AMT Concepts



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# IHMN

- International Harmonisation of Medicine Names



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# PBS XML Subsets

- Content to be provided

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# Meeting Close

- Next meeting November 2017