# STARS Unlocking Data to Improve Patient Flow and Access

Whole of Hospital Program Master Class Friday 17 October 2014

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Ministry

Clinicians and Managers



Other Districts

# DATA MINING AND ANALYTICS

Ambulance Service Other States

ACI







## Limitations of Current System

- Labour intensive
- Limited data able to be reviewed
- Unable to respond to different needs of different departments
- No real time access to data



## **Limitations of Current System**

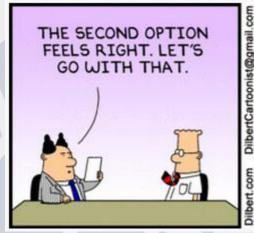
- Labour intensive
- Limited data able to
- El Time consuming
  El Inefficient Unabla
- EDisengagement of clinicians

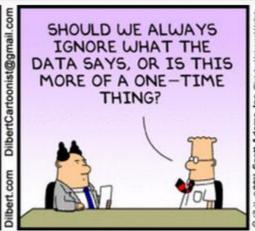
  "too hard"



## Why STARS?

- We can't manage what we can't analyse/monitor
- Managing processes in real time
- Efficient insight into data
- Combines and manages multiple sources of data









## **Data Source Collections**





vta Collections: n Admitted Patient Data

> ta Collections: nitted Patient Data gency Department

Clinical

SLHD Targeted Activity
SLHD Targeted System ases

#### Feeder Systems:

- Pathology
- •Imaging
- •Pharmac
- •Proc
- •Blc
- •Oper.



#### Data Extracta

- •Overdue Patie мy)
- •Financial Class ames a Day)
- •NEAT (Daily)
- Orders and Results



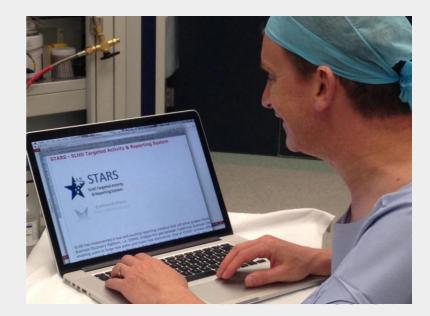
#### Incidents related to:

- •Falls
- Medication
- Pressure Ulcers



## What does STARS offer clinicians & managers?

- A tool to help:
  - increase our collective knowledge about our services
  - identify clinical variation / reduce unwarranted clinical variation
  - strengthen / implement 'best-practice' models of care, & monitor outcomes
  - improve clinical outcomes





## What does STARS offer clinicians?

- ☑ Real time access to a huge amount of data
- ☑ User driven and flexible design
- ☑ Link to clinical databases







## STARS Implementation

- Strong governance
- Managed by the Performance Unit
- Focus groups for individual application development
- Review of applications/functions used at other healthcare facilities (internationally)
- Data access and security
- Resources





## Governance

## STARS Executive Steering Committee

#### Clinicians:

Medical / Surgical / O&G JMOs Nursing and Allied Health Mental Health

#### Managers:

Chief Executive Senior Executive General Managers HIMs



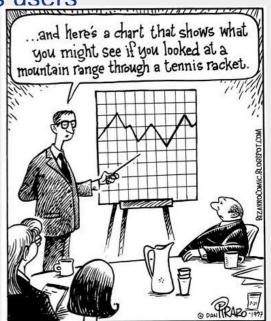
## Take Home Messages STARS

- New innovative data management system
- Tool to identify and interrogate clinical variation
- Needs clinicians and managers to work together for it to gain maximum benefits

Will only be as good as its data inputs and its users

- For successful local implementation needs
  - adequate resources
  - educated, engaged clinicians and managers
  - clear governance structures and processes





## Where we are now:



#### 201415 Acute NWAU Projections.qvw

Last Update: 2014-04-02 09:14 view details



#### Haemovigilance.qvw

Last Update: 2014-05-13 15:28 view details



#### NWAU13 Acute.qvw

Last Update: 2014-06-15 22:00 view details



#### Acute Admitted Activity.qvw

Last Update: 2014-06-15 22:00 view details



#### HITH.qvw

Last Update: 2014-06-15 22:00 view details



#### NWAU13 Emergency.qvw

Last Update: 2014-06-15 22:00 view details



#### Clinical Variation.qvw

Last Update: 2014-06-15 22:01 view details



#### IIMS.qvw

Last Update: 2014-02-25 14:11 view details



#### Revenue.qvw

Last Update: 2014-06-16 02:10 view details



#### Emergency Department Utilisation.qvw

Last Update: 2014-06-15 22:00 view details



#### Mental Health Admitted Activity.qvw

Last Update: 2014-06-15 22:00

view details

## District led









## Specialty / Clinician driven



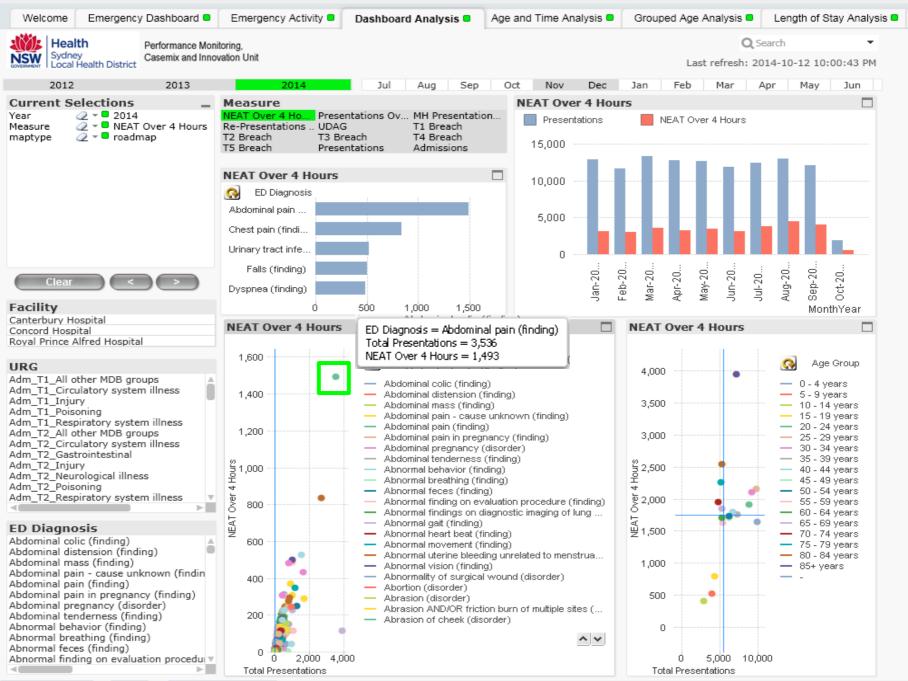


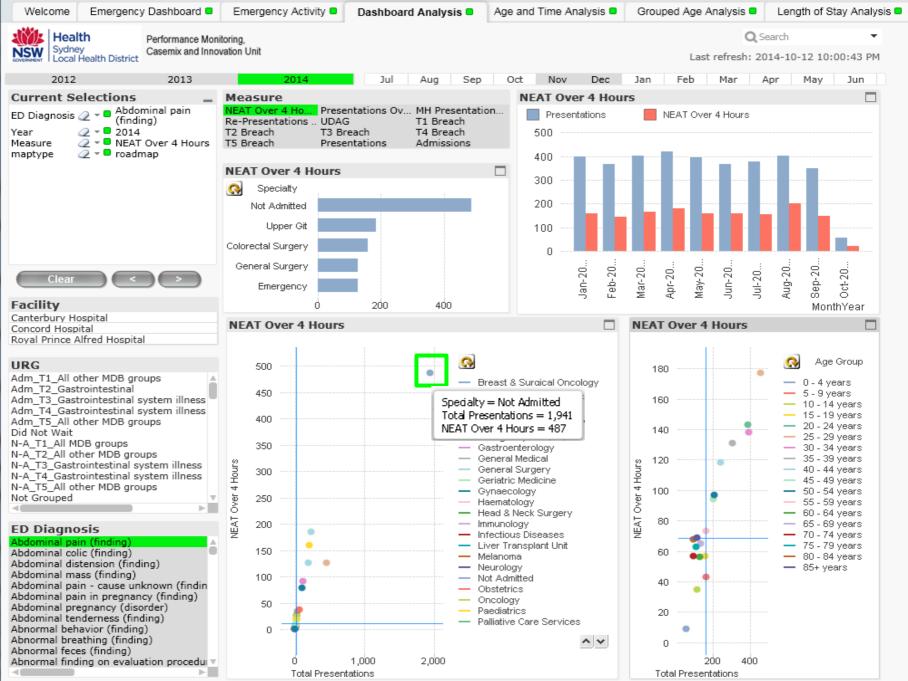


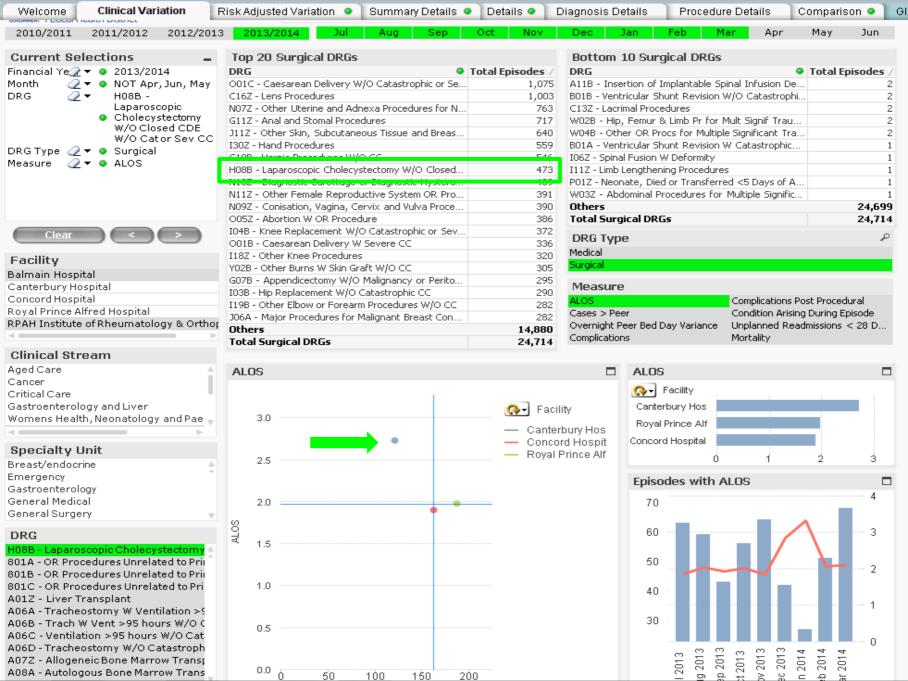
## STARS DEMONSTRATION

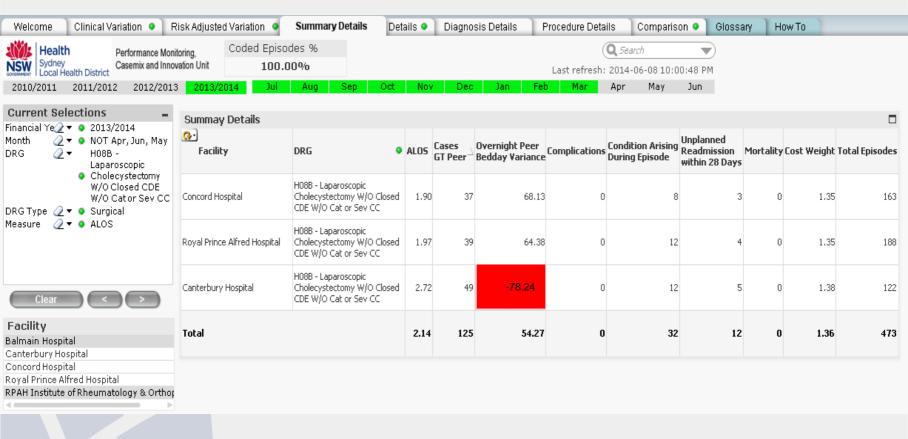
















## **Key Messages**

- Collaboration is the critical success factor
- Clinicians have to be involved early in governance and app design
- System needs to be fast and accessible
- Need the processes for data review to already be in place
- Education is critical
- Focus on understanding and explaining variation
- Set clear expectations regarding data review, feedback and accountability