

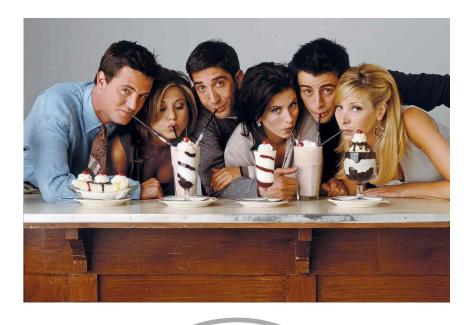
What do we need to capture in a POCT performance dashboard and how can middleware help us?

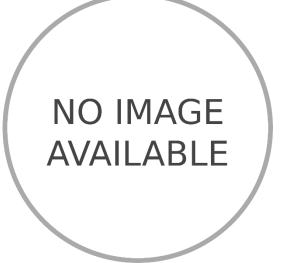
Andy Sheppard December 2023

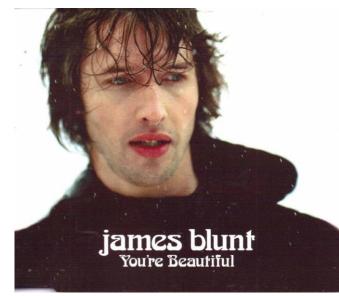


# Lets quickly go back to 2004





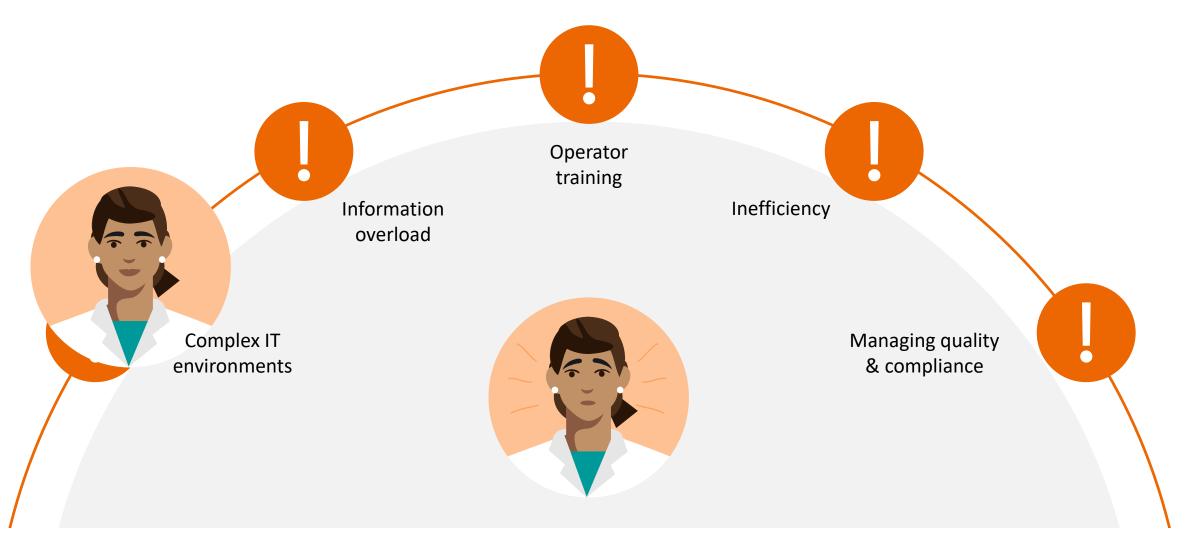






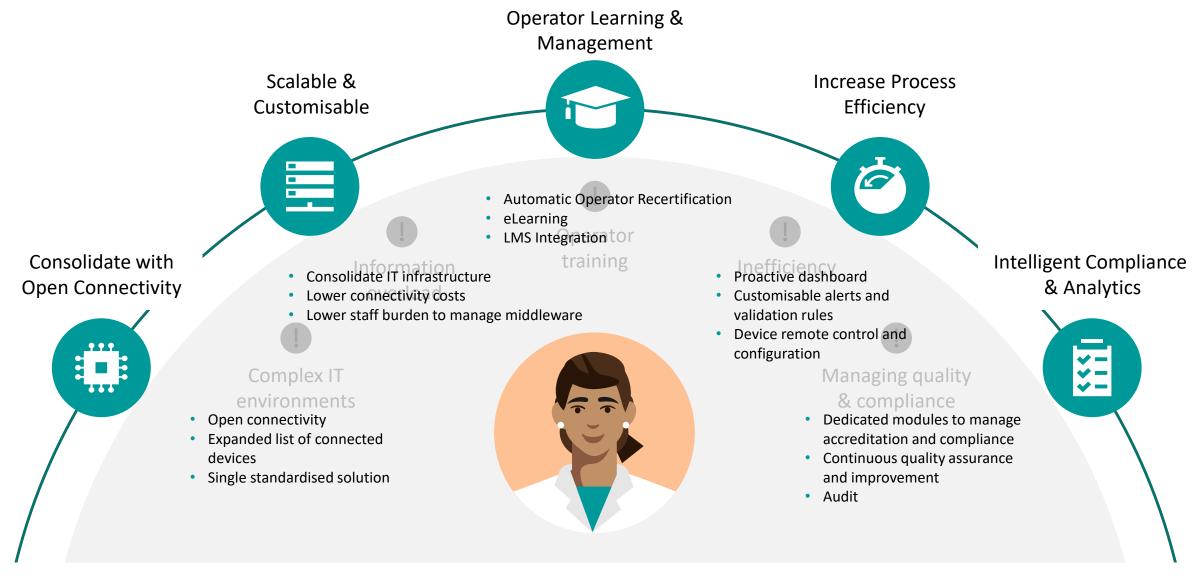
# **Pain points**





#### **Middleware solution**







# **Defining performance**

Reviewing the quality of a task or action that is being undertaken or has already been undertaken within previously defined limits

#### **POCcelerator Ci Dashboard**

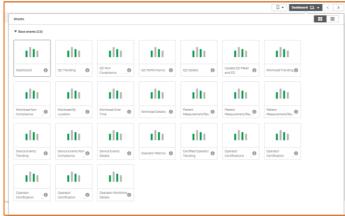


A Dashboard showing a visual summary of the data collected during the previous calendar day.

Providing easy to read details about Key Performance Indicators, such as:

- Quality Control / EQA
- Operators
- Device Workload
- Patient Measurement / Result Errors
- Device Events / Status

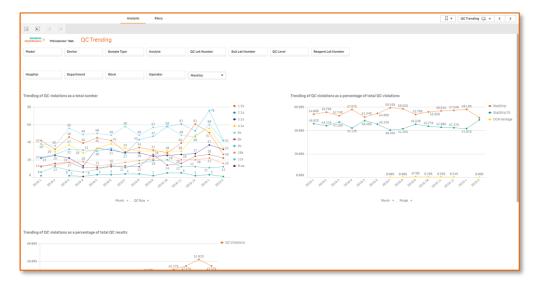




# **Quality Control**



- Trending: Providing charts for identifying trends in QC rule violations over time.
- Non-compliance: Providing charts for analysing QC result violations as a total number and as a percentage of all QC results for selected dimension(s) and filters.

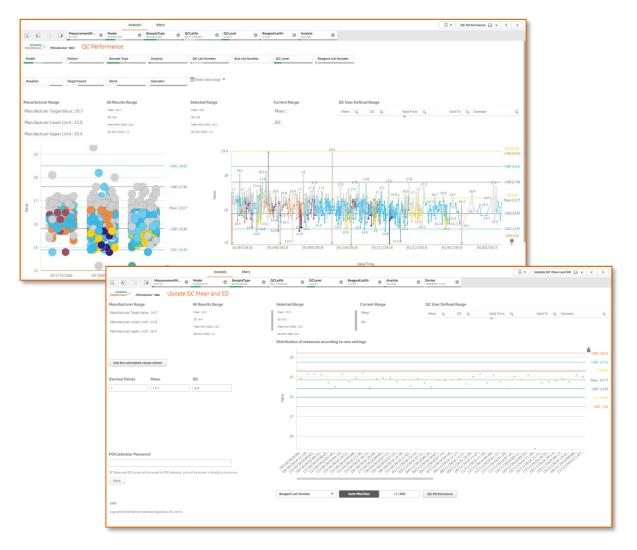




## **Quality Control (cont.)**



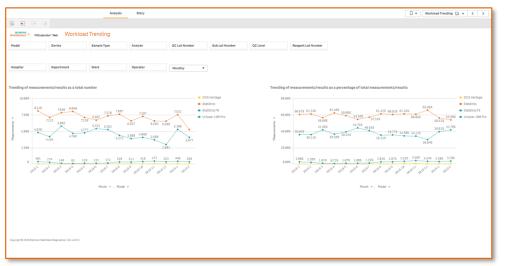
- Specificity: Providing charts for analysing quality control limits for a device model, location or individual device.
- Detail: Provides a table listing details for each QC result.
- Update Mean and SD: Allowing you to make adjustments to QC limits for a device model and save the new values automatically to the POCcelerator system.

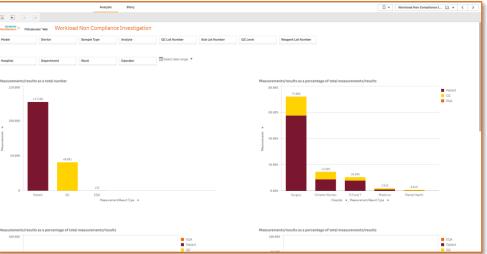


#### Workload



- Trending: Provides charts for identifying trends in measurements and results over time.
- Non-compliance: Provides charts for analysing measurements or results as a total number and as a percentage of all measurements and results for the selected dimension(s) and filters.

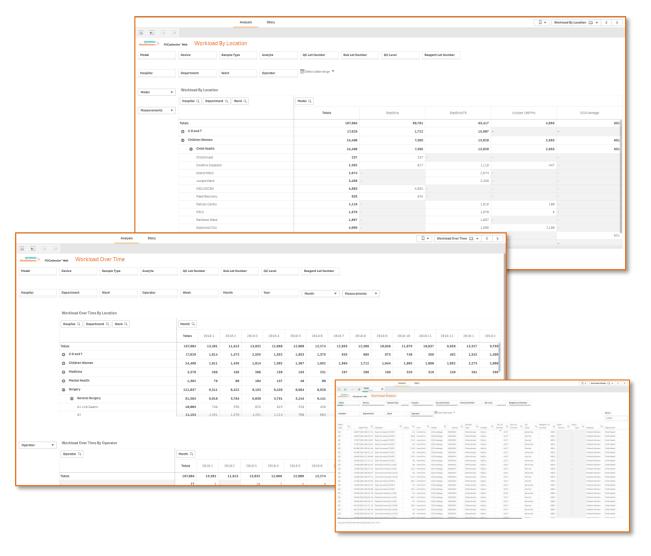




# Workload (cont.)



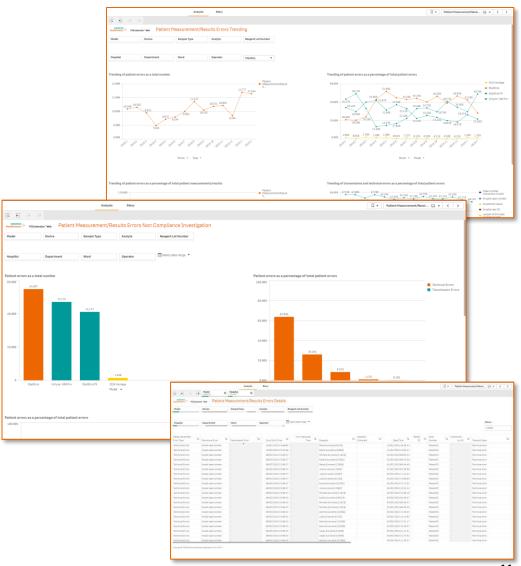
- By Location: Shows a table with the breakdown of measurements or results by location for the selected dimensions and filters.
- Over Time: Provides tables analysing measurements or results over time by location and for the selected dimension and filters.
- **Details:** Provides a table listing measurements/results by measurement/result type details.



# **Patient Measurement/Result Errors**



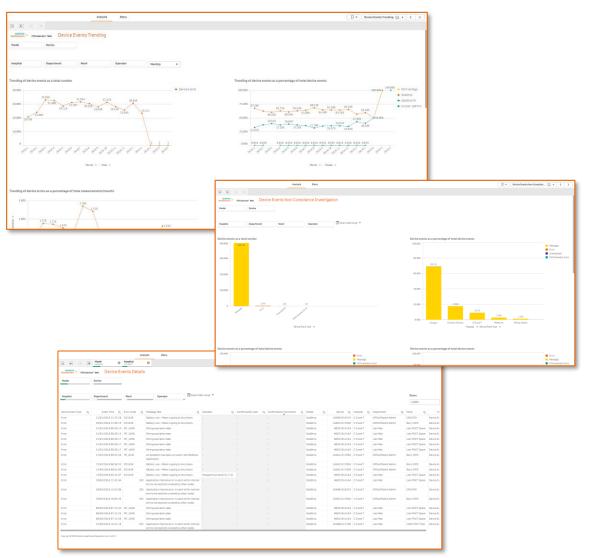
- Trending: Provides charts for identifying data trends relating to patient measurement/result errors.
- Noncompliance: Provides charts for analysing patient errors as a total number and as a percentage of all patient errors for selected dimension(s) and filters.
- **Details:** Provides a table that lists the details for each measurement/result error type.



#### **Device Events**



- Trending: Provides charts for identifying data trends relating to device events and errors.
- Noncompliance: Provides charts for analysing device events as a total number and as a percentage of all device events.
- Details: Provides a table that lists the details for each device event.



#### **Operator**



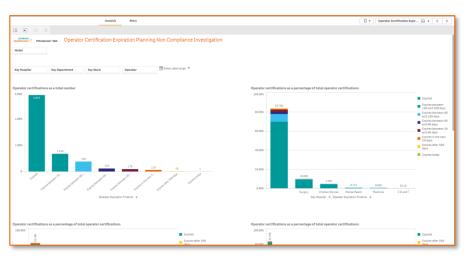
- Operator Metrics: Review active and inactive device operators along with their certification status.
- Certified Operator Trending: Provides charts for identifying trends in operator certification over time.
- Certifications Details: Provides a table that lists the certification details for an operator.
- Certification Expiration Trending: Provides charts for identifying trends in operator certifications over time.

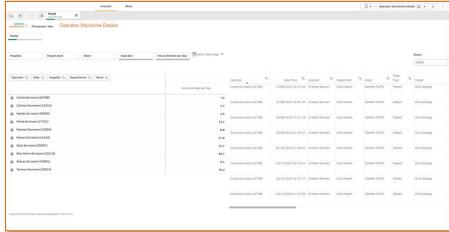


### **Operator (cont.)**



- Operator Certification Expiration Planning Non-Compliance: Provides charts to help you plan operator training needs based on certification expiration dates and model.
- Operator Certification Expiration Planning Details:
   Provides a table that lists the certification expiration details for an operator.
- Operator Worktime Details: Provides a table listing detailed operator information relating to work hours and can help you identify hospital worktime compliance violations.



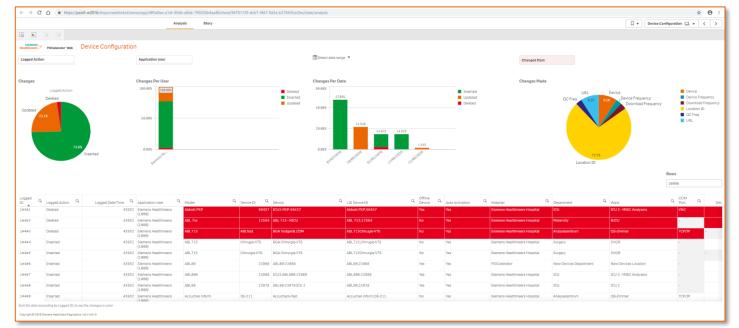


# **POCcelerator Analytics Audit Sheets**



# Audit sheets provide charts that show you the percentage of changes made to records by:

- Logged action (update, insert, delete)
- User who performed the action
- Date the change was made
- Type of change made



# **POCcelerator Analytics Audit Dashboard**



# The audit sheet Dashboard provides audit details about the following KPIs:

- Model Configuration
- Device Configuration
- Model, Device Configuration Settings
- Device Additional Information
- Model, Device, Lot Numbers, Activation/Deactivation
- EQA Distributions
- Operator Setup
- Operator Location Assignments
- Operator Model Certifications
- Operator E-learning Results

- Operator Auto Recertification
- Measurement Comments
- QC Measurements
- Incomplete QC
- EQA Measurements
- Linearity Measurements
- Patient Demographics
- Patient Results



# What do we need to capture in a POCT performance dashboard and how can middleware help us?



#### A POCT performance dashboard should present captured information relating to;

- Quality Control / EQA
- Operators
- Device Workload
- Patient Measurement / Result Errors
- Device Events / Status

#### Middleware can help us by;

Collecting and presenting captured data in an easy to use, centralised location making it more efficient for POCT staff to review, report and export the data as required.