

# CDB Data Update

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STAFF

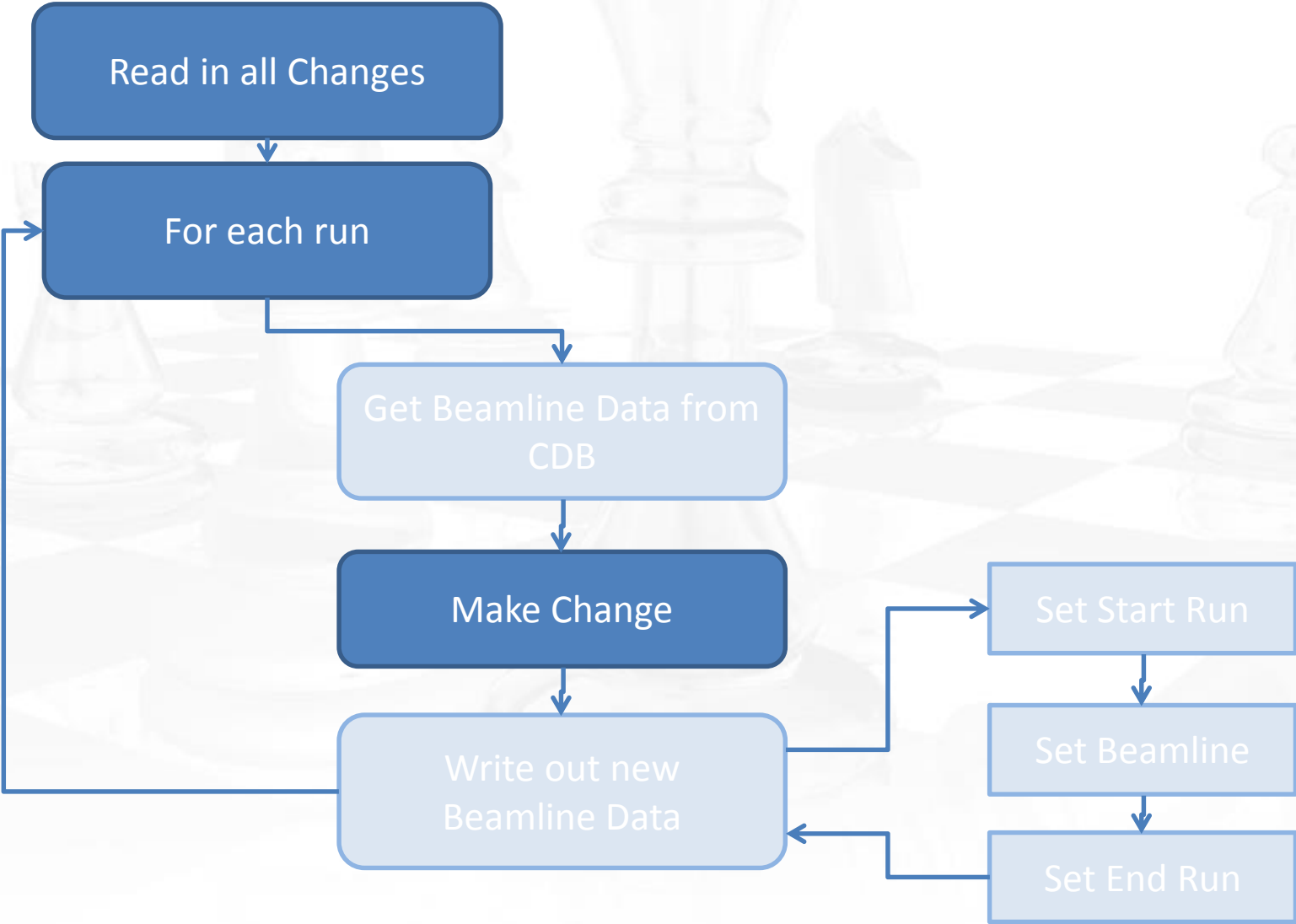


PHD MASTERS  
BACHELORS

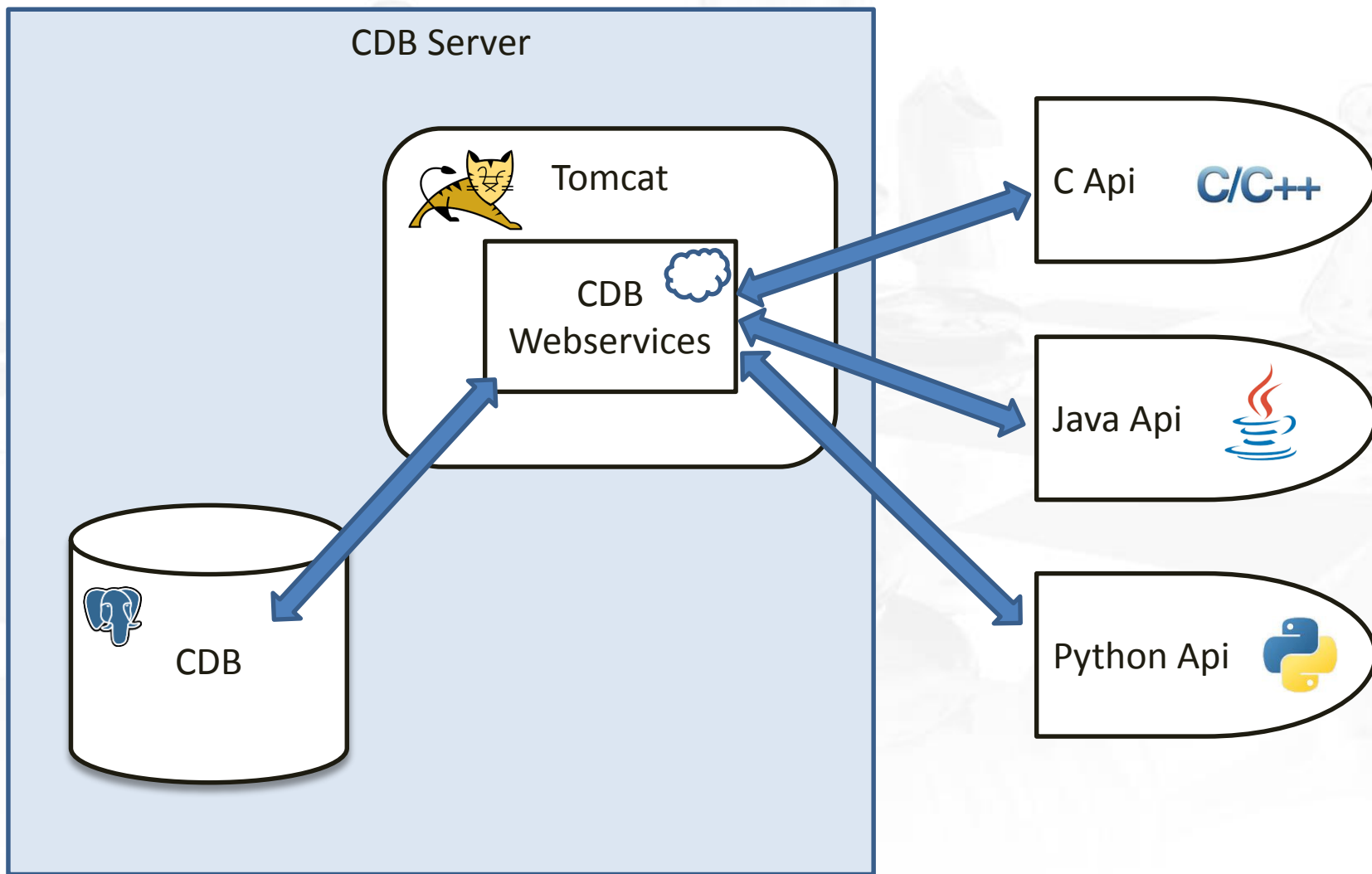
8 OFFICES IN  
4 TIME ZONES

£23.1  
MILLION  
REVENUE  
2013 / 2014

# Making Changes



# CDB Architecture



# Change Set Format

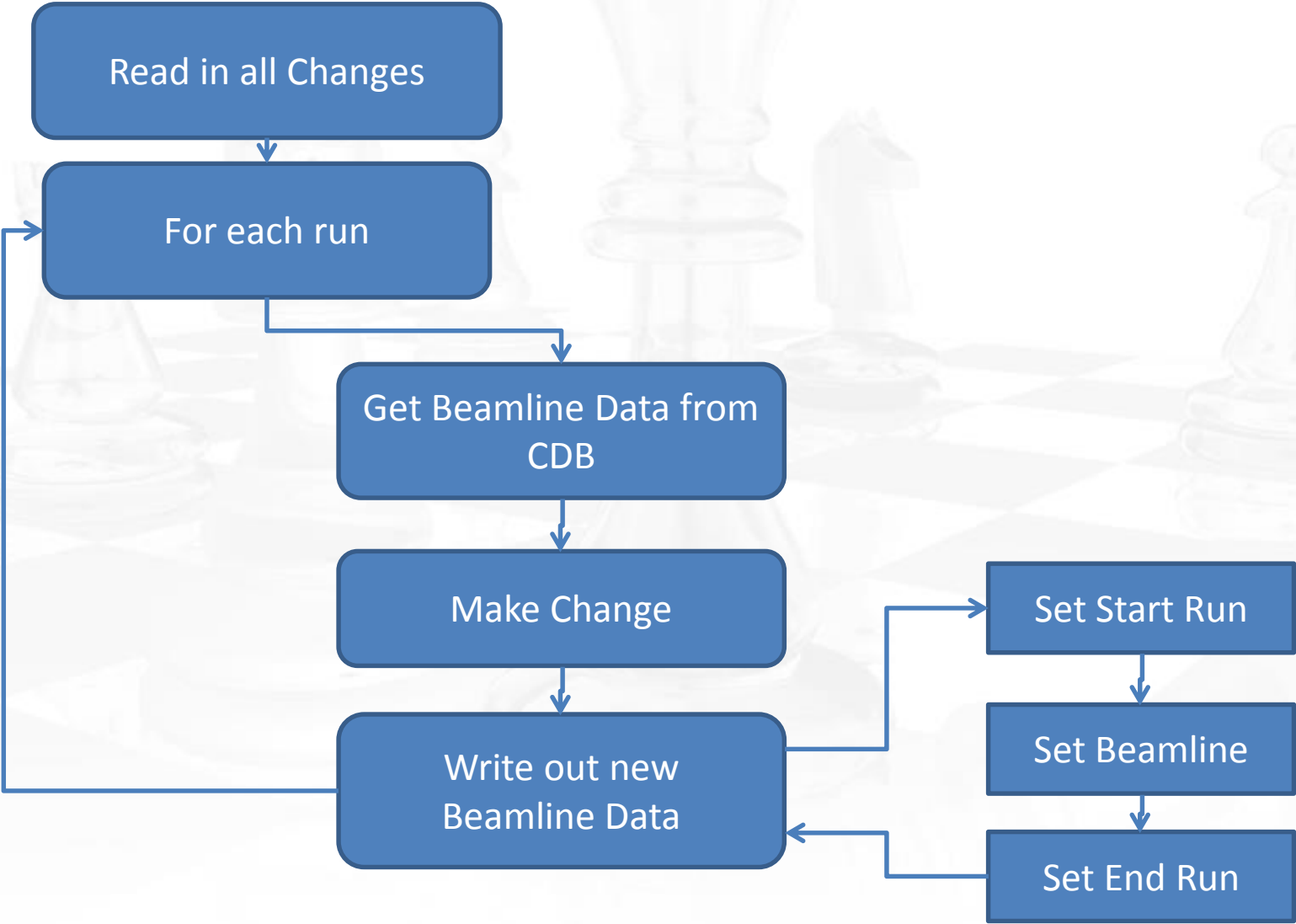
Run Number	Variable Name	CDB Value	New Value (from spreadsheet)	Change (Y/N)
6582	magnets:DS:set_current	621.8	534.6	Y
6588	proton_absorber_thickness	146	147	N
6588	magnets:DS:set_current	779.9	772.7	N

# Change Set Generation

- Load data from Run Spreadsheet
- Compare to CDB (within tolerance)
- Generate Change Set
- Original code by Ryan Bayes



# Making Changes





# Set Start Run

- Run Number
  - If run doesn't exist create from template
- Start Time
  - Defined in Summary Spreadsheet but as date/time fields
- Start Notes
- Optics
- Start Pulse
- Step
  - Calculate
- Run Type
- Daq Trigger
- Daq Gate Width
- Daq Version
- GDC Host Name
- Target Delay
- Target Depth
- Target Drive Voltage
- LDC Host Names
  - Name



# Set Beamline

- Beam Stop
- Diffuser Thickness
- Proton Absorber Thickness
- Magnets
  - Dictionary of dictionaries -> dictionary
  - Polarity
    - Overall in run summary, per magnet in CDB
  - Name
  - Set Current



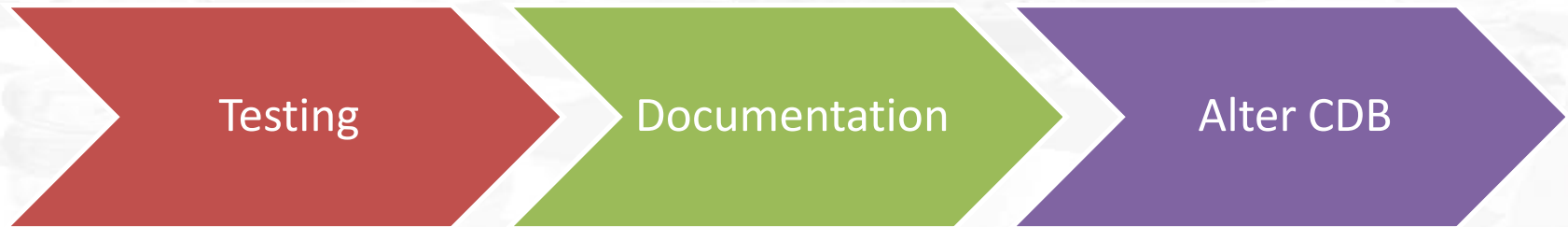
# Set End Run

- End Time
  - Not recorded in Run Summary
  - Next start time
- End Pulse
- Status
- End Notes
  - Add message noting change after initial recording
- Scalar
  - Name
  - Value
- Isis Beam
  - Name
  - Mean



# Progress

- Is Issue 1705 done?



# Summary

- Who I Am
- Architecture
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*Summary*

# Questions

- Who I Am
- Architecture
- Change Set
- Making the changes
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