National Clinical Engineering Programme

Healthcare Technology Informatics and Medical Equipment Management

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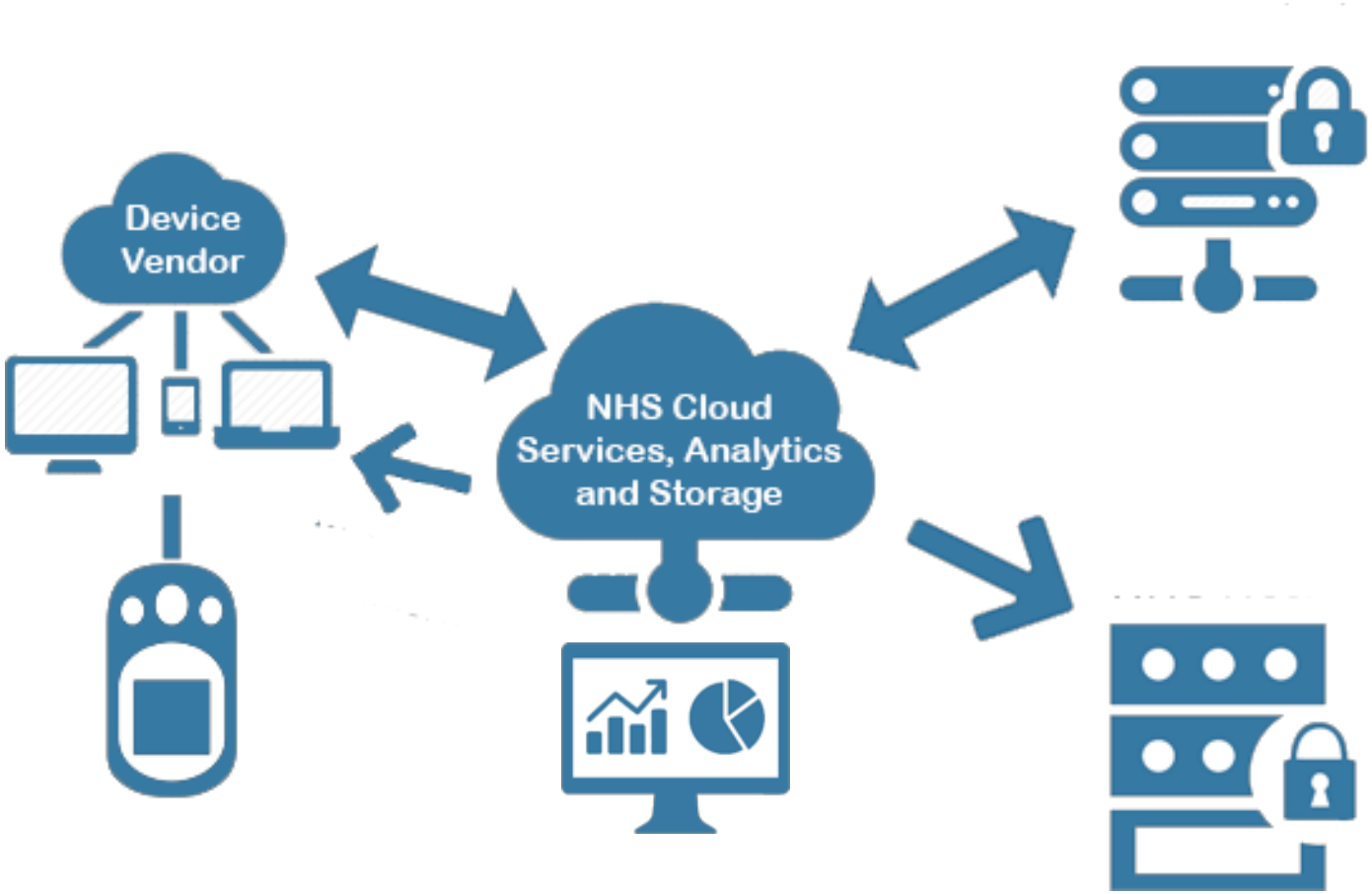
Clinical Engineering

- Healthcare Technology Informatics
  - Scope
  - Project updates
  - Planned activity
- Medical Equipment Management
  - Scope reminder
  - Project updates

Healthcare Technology Informatics



Healthcare Technology Informatics

Further develop the prototype for capturing patient data from home managed devices, focussing on the Abbot Freestyle Libre Flash Glucose Monitoring Device.

- Maintain generic nature of solution
- Deliver an effective ‘dashboard’ for clinicians
- Enables SHTG evaluation of device effectiveness
  - Incident reporting – device issues
- Monitor patient compliance with SDG guidance

Healthcare Technology Informatics

Project updates:

- Working with Abbott's to receive patient data from Freestyle Libre devices
- Collaborating with Dexcom for access to their API to receive data from G5 and G6 CGM devices

Healthcare Technology Informatics

Project updates:

- Working with both vendors will help maintain generic nature of solution
- Lifescan still onboard (following test of change)
- Recruited software developer into team – another coming on board
- Collaborating across NSS IT, GGC eHealth Team and NES NDS
  - NDP providing central data repository
  - Collaboration for visualisation, patient and clinician authentication
  - Benchmark for connecting personal devices to NHS, compliance with NDR regulations

Healthcare Technology Informatics

Moving forward:

- Planned activity
  - Commence base system build
  - Obtain widespread clinician validation to system design throughout process via SDG and Diabetes Technical Group
  - Ensure generic nature of solution
    - Touch points with other conditions & clinicians (e.g. COPD)

Medical Equipment Management

Develop a Business Case for the implementation of a National Medical Equipment Management System

Medical Equipment Management

Undertaken 2 workshops to inform our Business Case:

- September
  - Benefits identification, categorisation and measurement
  - System requirements identification
  - High level options identification
  - Pro's and con's
- December
  - Options appraisal
    - Benefit criteria weighting
    - Option scoring
    - Preferred way forward
  - Implementation approach

Strategic Case

The current problem:

The £1.3 billion estimated medical equipment asset replacement value is currently managed by 16 separate database instances in Scotland

There is currently **no overall view** of medical equipment estate in Scotland

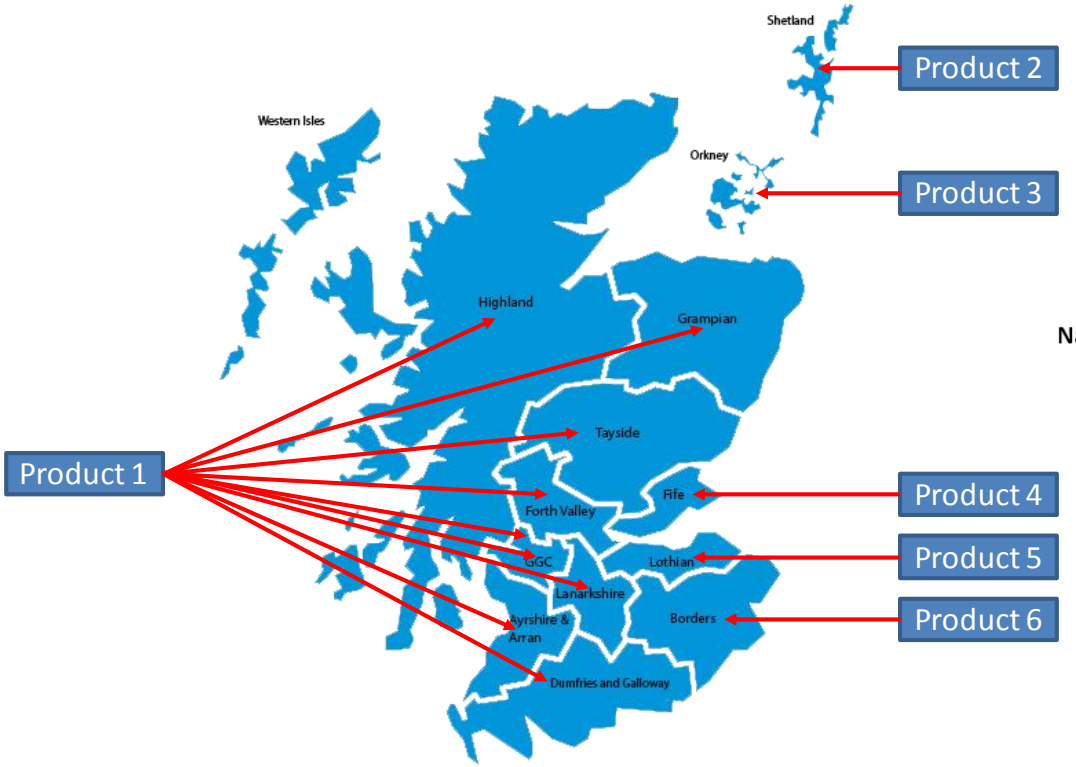
This creates **inequality of service** for patients and clinicians

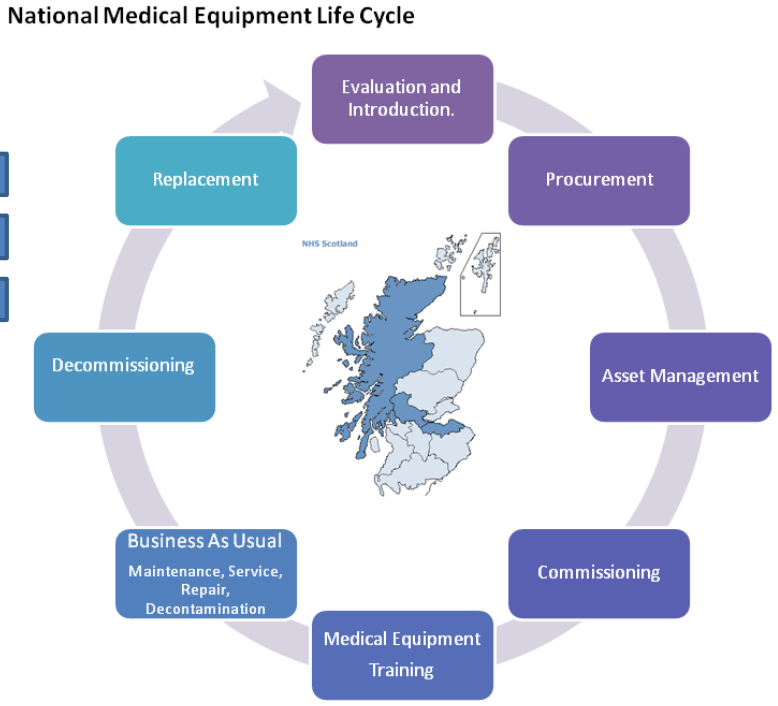
Impedes:

- Decision making and planning
- Cost saving opportunities
- Collective purchasing power
- Cross-border resource sharing
- Opportunities to improve service resilience

Strategic Case

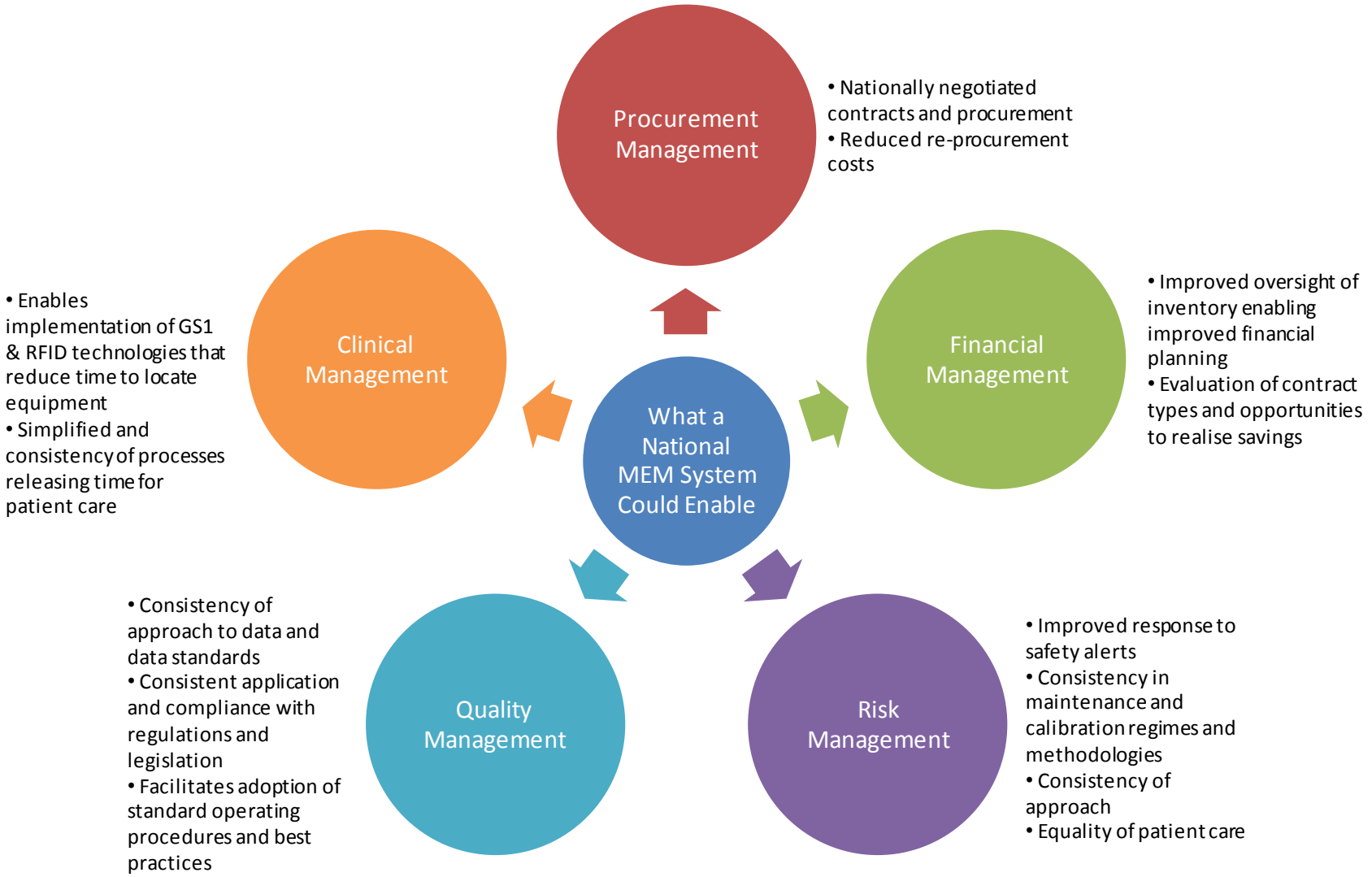
How equipment is managed at all stages of the life cycle differs from board to board





Strategic Case

What could a National MEM System enable?



Medical Equipment Management

IRIC links

Improved incident reporting

- Consistency and speed of incident reporting
- Improved results
- Service improvement for patients and clinicians

Next steps

- Seeking funding source to take forward
- Seeking appropriate handoff point to HFS

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