

Digitalisation of clinical data sets



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#bettercarecostsless



FDP and Digitalisation of Clinical Data Sets Teresa Palmer – Head of Procurement Ally Robson – FDP Engagement Lead (EY Health Partner)



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Problem Statement: The Inventory Landscape

There a five challenges impacting Trust's inventory management and supply chain activity.



Five Problems of Inventory

- 1. Limited Inventory Management Oversight
- 2. Reactive Procurement Processes
- 3. Missed Opportunities for Regional Collaboration
- 4. Challenges with Contract and Performance Management
- 5. Disconnected Decision-Making from Patient Outcomes
- The cumulative effect of these issues is an inefficient
 - "Inventory Management Pendulum,"



Figure 1: Inventory Pendulum of Cost



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Product Vision: Transformation Road Map for A Total Supply Chain (TSC)



Each tier of products builds upon the previous one, propelling advancements across the five workstreams. Northumbria Healthcare

Workstream	Wave 1 Benefits	Wave 2 Benefits	Wave 3 Benefits	Wave 4 Benefits	NHS Foundation Trust
1 Improved Inventory Management	Centralised Data Single view for level of inventory by location across Trust 	Real-time Updates Data driven stock levels based on usage data and plugged into a 	Spend Data Analysis Product range standardisation for efficiencies 	Procedure Product Harmonisation	A High Safety & Efficient Total Supply Chain
 Single view for Trust inventory Common formatting of product data Transparency on activity and usage Data driven stock levels Procedure Code product Harmonisation % % % % @ @ @ 	Simulate variou	dashboard Data-driven Inte Analytics driven stoce AI to automate char s scenarios and assess the	nges • sha	Risk Mitigation gional risk mitigation rred resilience stock	Function Supplier Shared Demand Data Value Based Procurement telligence Quality Improvement
 2 Optimised Procureme Simulate various scenarios the impact on required sto driving stock optimisation Analytics driven stock level 	optimisation and assess ck levels	Collaboration	and Data sharing	 Aggregate in a industry tren Digitisation Contract Mgt T&Cs with suppliers connected to KPIs monitored on FDP Best-in-class commercial organisation 	ds outcomes and impact on green agenda • X-ref product data with procedure
automate changes Analysing historical data ar predict future demand Intelligent supply & dema 	ind planning	between orga	• Monitors sup against live of		Product Recall AutomationAutomated reports for product recall
 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	 Collaboration and data sh Regional logistics strategy Drive additional value and Proactive regional risk milit Supply stock linkage acr We we we	l leverage scale • igation •	4 Enhanced Contract /Performane Monitors supplier performance metrics aga T&Cs with suppliers connected to KPIs mon Best-in-class commercial organisation Supplier shared demand data	hinst live data hitored on FDP • Automated reprint • X-ref product da • Total Value Bas	And patient pathways and outcomes orts for product recall ata with procedure outcomes and duration ate Procurement Image: State
building a cari		er 1 IMS	ency Improvement	WWW National Product	.northumbria.nhs.uk

A Total Supply Chain (TSC) Tool: Journey to Date

Northumbria Healthcare Foundation Trust has advanced from defining the problem to preparing for the pilot phase of a solution. Prior to initiating the live pilot, it is essential to establish a benefits strategy and methodology.

Visual Journey: FDP TSC Tool





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Benefits Realisation Strategy - Principles for Assessing Benefits

To achieve a precise and realistic assessment of the potential effects of the MVP, the benefits strategy is founded on five key principles.

Focus on Benefit Hypothesis

• As an incubator product, the benefits strategy prioritises validating benefit hypotheses rather than merely forecasting benefits.

Data-Driven Insights

• All hypotheses are based on data and inventory insights, ensuring that decisions are informed by empirical evidence.

Forecasting Post-Validation

• Forecasting will only be undertaken after a benefit has been validated during the MVP stage. This ensures accuracy and reliability.

No Double Counting

• There will be no double counting of benefits realised between different product tiers. Each hypothesised benefit is new and distinct from previously achieved benefits from any achieved from the previous tier.

Multiplier Effect

• As you progress through the different tiers of the DalL tool, there is an additional positive incremental improvement against all previous identified benefits.



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NHS Foundation Trust

Critical Path for the TSC Tool Delivery

To enable the FDP Incubator product, we need to get all our ducks in a row



Leadership	Funding	Vision	Delivery Partners	Clarity on the ROI	Data Definitions	Procedure Codes	Preference Cards	Adoption and Change
Executive	IMS	A High Safety	NHSE	Requires a lot	Trust led	Local codes	Electronic	Embed
Clinical Finance Procurement Data & Analytics	Tier 2 Development Or Internal Business Case	& Efficient Total Supply Chain Function	NHS Supply Chain GS1 UK EY IMS	of commitment to achieve business and technical readiness	approach versus creating national standards	mapped to procedure codes	Preference cards mapped to catalogue references.	Change and develop skills required for procurement and inventory teams



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