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INNOVATION WITH REAL TIME LOCATION SYSTEM

Using Data Captured in Real Time Location System to Provide Accurate Asset Utilization for Surgery Costing

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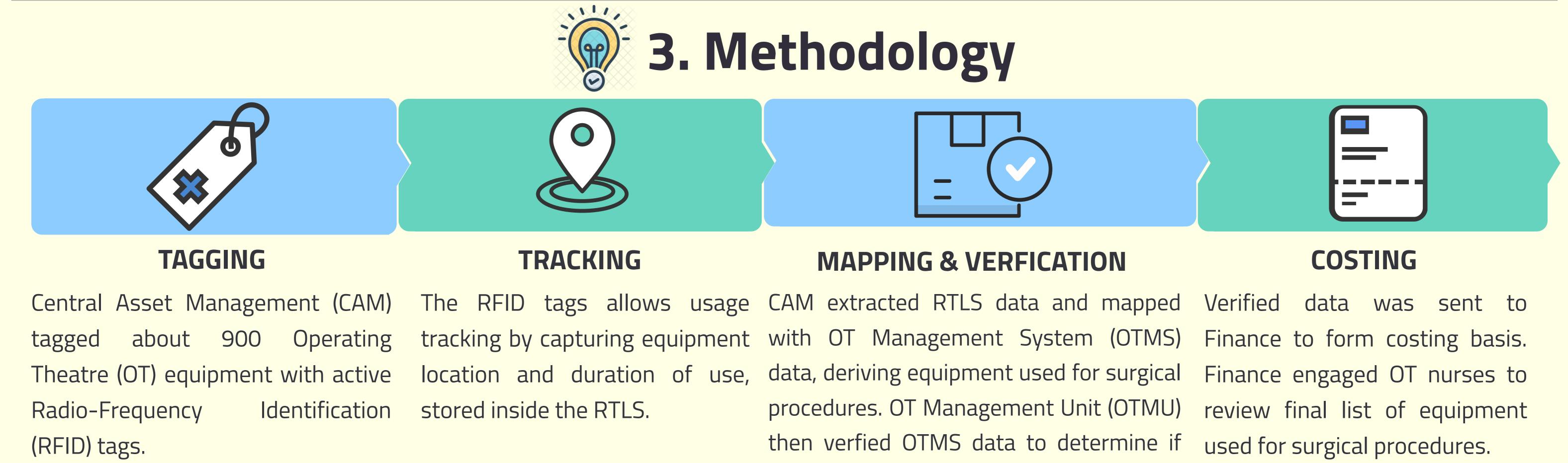


Traditionally, costing process for surgical procedures is a time consuming and labour intensive process. Extensive discussions



By innovating with data captured in the Real Time Location System (RTLS), this project aims to reduce the amount of time taken by Operating Theatre (OT) nurses for costing of surgical procedures by 70%.

are needed with various parties for mapping of assets to each surgical procedure.



equipment were indeed being used.





For each procedure, OT nurses usually spend average of 30 mins manually mapping assets used for each surgical procedure. But with RTLS data, the mapping process took less than 5 mins, which is **a significant reduction of 83% in time taken**, meeting the target set.

Time spent (mins) to map assets used for each surgical procedure

There are approximately 957 procedures to be costed annually, hence this process of making use of RTLS data translates to **annual time savings of 398.75 hours.**

RTLS also improved accuracy of assets usage and eliminated decisions made on assumptions.



Discrepancies were due to assets not in costing registry, replacement of asset, free equipment or standby equipment not identified during manual mapping.

Applying this difference over 957 procedures and total OT assets, the potential impact due to discrepancies in asset cost may be up to a significant amount of \$2.2 million.

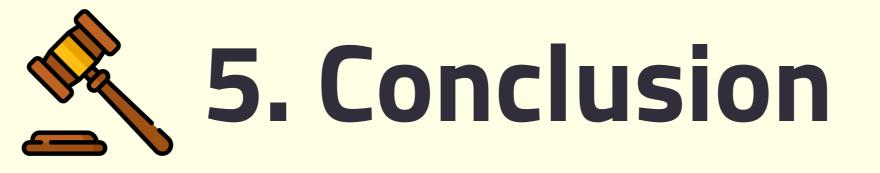
RTLS findings can also assist OT & Finance to determine if the hospital needs to purchase more assets or reduce inventory if utilization of asset is low.

Mediates the Potential Discrepancy in Asset Cost of \$2.2 mil for 957 procedures

Assist in determining if hospital should purchase more asset or reduce

used for mapping	of \$1.5 mil in asset cost.	
83% Reduction in time	data was about \$101,000 over total	if utili
020/ Deductions in times	manual mapping and using RTLS	asset
398.75 Hours	procedures, difference between	need
	During the trial mapping of 5	deter
Annual Time Savings of	accisions made on assumptions.	assis

asset inventory



By innovating with RTLS and utilizing the captured data:





Optimizes and **enhances** costing

process moving forward

