

Project Title

Digitalization Of Receiving Documents

Project Lead and Members

Patrick Chong Shengjun

Organisation(s) Involved

ALPS

Healthcare Family Group(s) Involved in this Project

Healthcare administration

Applicable Specialty or Discipline

Pharmacy

Aim(s)

- To reduce turn around time in retrieving documents when auditor or hospital users request for delivery / receipt acceptance document.
- To reduce on storage, transport and handling cost related to storage of physical hard copy documents in external third party (3PL) warehouse.
- To improve environmental sustainability by reducing paper usage.
- To integrate the above improved work processes as part of Business Continuity
 Plan (BCP) for seamless retrieval of digitalized documents.

Background

See poster appended/ below

Methods

See poster appended/ below



Results

See poster appended/ below

Conclusion

See poster appended/ below

Additional Information

Singapore Healthcare Management (SHM) Congress 2023 – 1st Prize (Supply Chain Management category)

Project Category

Care & Process Redesign

Productivity, Cost Saving, Manhour Saving, Time Saving, Quality Improvement, Job Effectiveness, Lean Methodology, Workflow Redesign

Workforce Transformation

Job Redesign, Digital Workforce, Workforce Performance, Workforce Productivity, Workforce Sustainability

Keywords

Seamless Retrieval, Digitalized Documents

Name and Email of Project Contact Person(s)

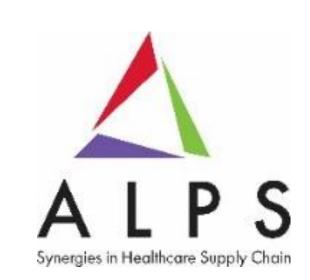
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Singapore Healthcare Management 2023

Digitalization Of Receiving Documents

Patrick Chong Shengjun **ALPS-SGH Non-Pharma Logistics**



Background

Over the years, our receiving transaction posting for non-stock and stock items has increased significantly. As a result, a lot of hardcopy documents are generated and this require filing on a daily basis.

In order to drive sustainability on saving natural resources, we reviewed and streamlined our work processes to meet the sustainability initiative without creating additional workload to the existing manpower.

Our initiative is to digitalize our receiving documents rather than printing out transaction documents and attaching to vendor delivery documents for filing.

Objectives

- To reduce turn-around time in retrieving documents when auditor or hospital users request for delivery / receipt acceptance document.
- To reduce on storage, transport and handling cost related to storage of physical hard copy documents in external third party (3PL) warehouse.
- To improve environmental sustainability by reducing paper usage.
- To integrate the above improved work processes as part of Business Continuity Plan (BCP) for seamless retrieval of digitalized documents.

Results

PDCA helped us to control and practice continual improvement of our processes. With the aid of technology and manpower training, current intensive manpower activities are being replaced in the new process.

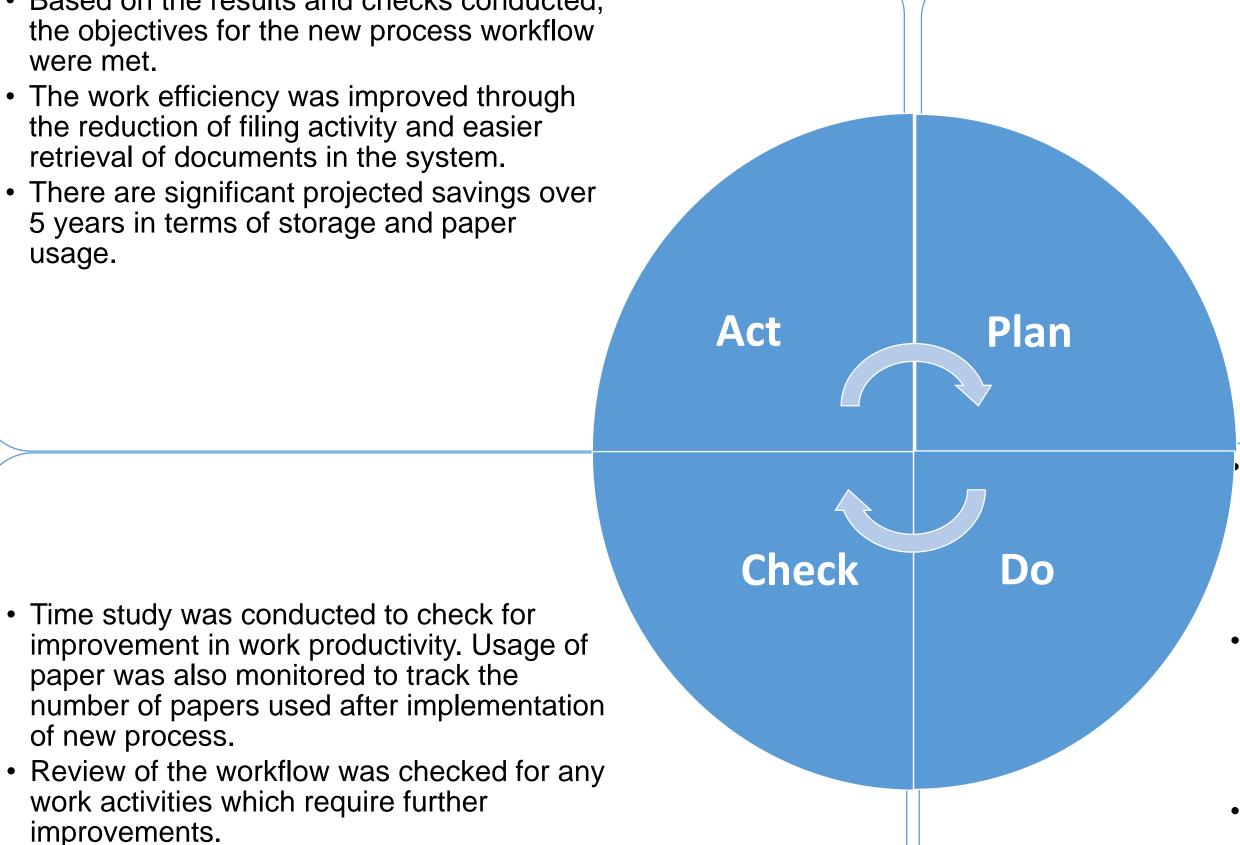
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Factor to measure	Existing Process	New Process
Storage cost for pallets stored in 3PL related to documents storage	20 pallets (based on 5-year document retention) x \$18 per pallet per month x 12 months Year $1 = \$864$ Year $2 = \$1,728$ Year $3 = \$2,592$ Year $4 = \$3,456$ Year $5 = \$4,320$	Zero storage cost. All documents are saved in shared folder or secured hard disk. 2TB Secured Hard Drive x 2 units x \$332 per unit = \$664
pallet and disposal	Handling Charges for 8 pallets (4 pallets from 3PL to send back to SGH and 4 pallets from SGH to external warehouse for storage) x 2 trips = \$48	
Transport charges	Transport for above retrievals x 2 trips = \$340.	
Number of paper used on an annual basis (in cartons)	31 cartons of paper (consist of 2500 pieces per carton) x \$17 per carton = \$527	Estimated 2 cartons of paper to be used for ad-hoc basis > \$17 per carton = \$34
Copy Charges	77,500 pieces of paper x \$0.007 = \$5,425	5,000 pieces of paper x \$0.007 = \$35
Total Annual Cost	Year 1 = \$7,204 Year 2 = \$8,068 Year 3 = \$8,932 Year 4 = \$9,796 Year 5 = \$10,660	Year 1 = \$733 Year 2 = \$69 Year 3 = \$69 Year 4 = \$69 Year 5 = \$69

Savings Achieved (for 5 years) = \$43,651 (average of \$8,730.20/year)

Methodology

The methodology that we are using is PDCA (Plan Do Check Act) so that we are constantly looking for ways to continually improve our work processes.

- Based on the results and checks conducted, the objectives for the new process workflow were met. The work efficiency was improved through
- 5 years in terms of storage and paper
- There are significant projected savings over usage.



- Discussion on the current process was conducted within MMD receiving team and put into a process workflow.
- · The team analyzed the workflow and pointed out the redundant and inefficient processes, which included labour-intensive retrieval and filing of documents as well as huge usage of paper.
- The new process workflow was designed and reviewed thoroughly by receiving team to ensure that all potential issues were identified.
- For successful implementation, the team ensured that secured HDDs were purchased and ready for use. The team were properly briefed of the whole process and standardized naming conventions of folders/files.
- The new process was implemented whereby the staff scans all DO/Tax invoices to kept in the shared folder. The information are transferred to 2 secured HDDs on the first working day of the next month.
- In the initial phase (2 months), the new workflow was reviewed on a weekly basis to ensure that the team were processing the documents correctly. Subsequently, checks would be conducted on a quarterly basis.



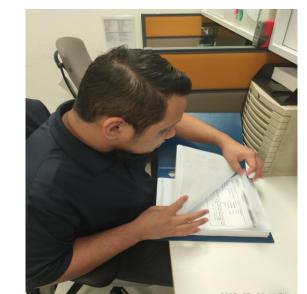
Conclusion

With this improvement initiative, we see significant savings on an annual basis and in the long term. This also drives sustainability in the department and creates more opportunities to review existing processes for improvement.

BEFORE:

storage space required for documents and labour-intensive for filing & retrieval





AFTER:

no storage space required and using technology for filing & easy retrieval

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