



Singapore Healthcare Management 2024

Reduction of Plastic Lamination by 48% for Medication Repackaging Boxes used in Outpatient Pharmacy Automation System (OPAS)

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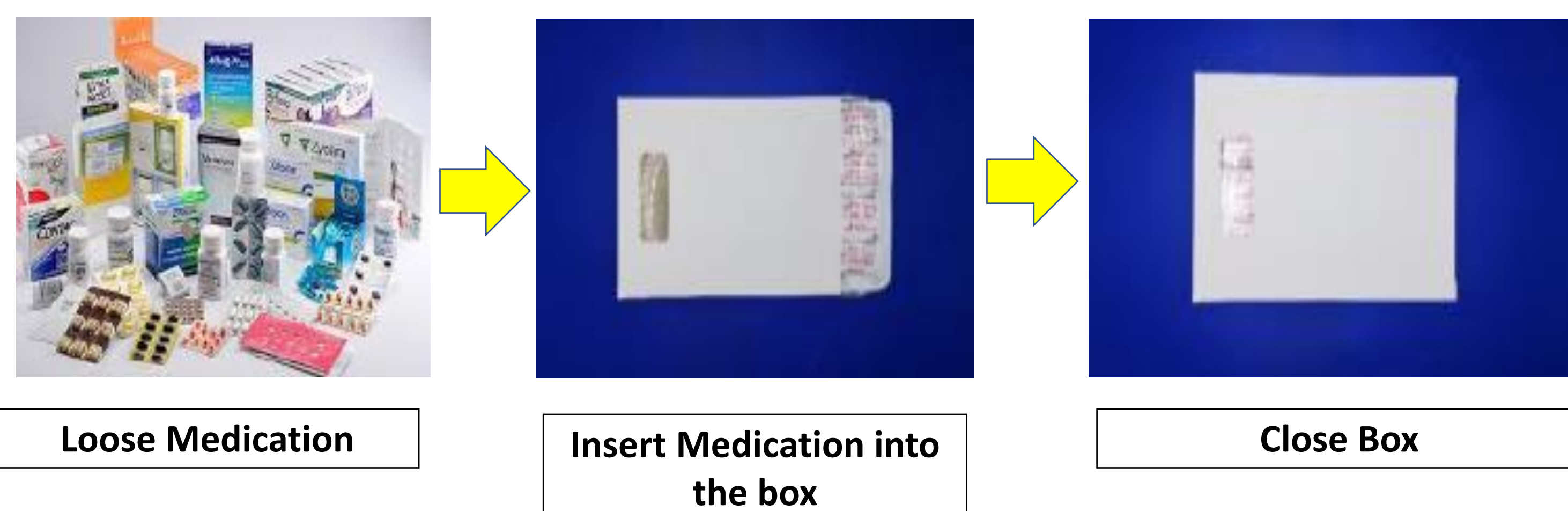


INTRODUCTION

ALPS Strategic Procurement (SP) has jointly collaborated with Winson Press to reduce environmental impact by reducing plastic usage by 48% via limiting plastic lamination on window cut out only instead of full lamination on the medication boxes.

METHODOLOGY

- OPAS is an Automated Dispensing Machine (ADM) which consists of box and loose tablet handling machines. ROWA, the box handling machine requires the medication to be repackaged into appropriate pack sizes so that it can be dispensed by the ADMS.

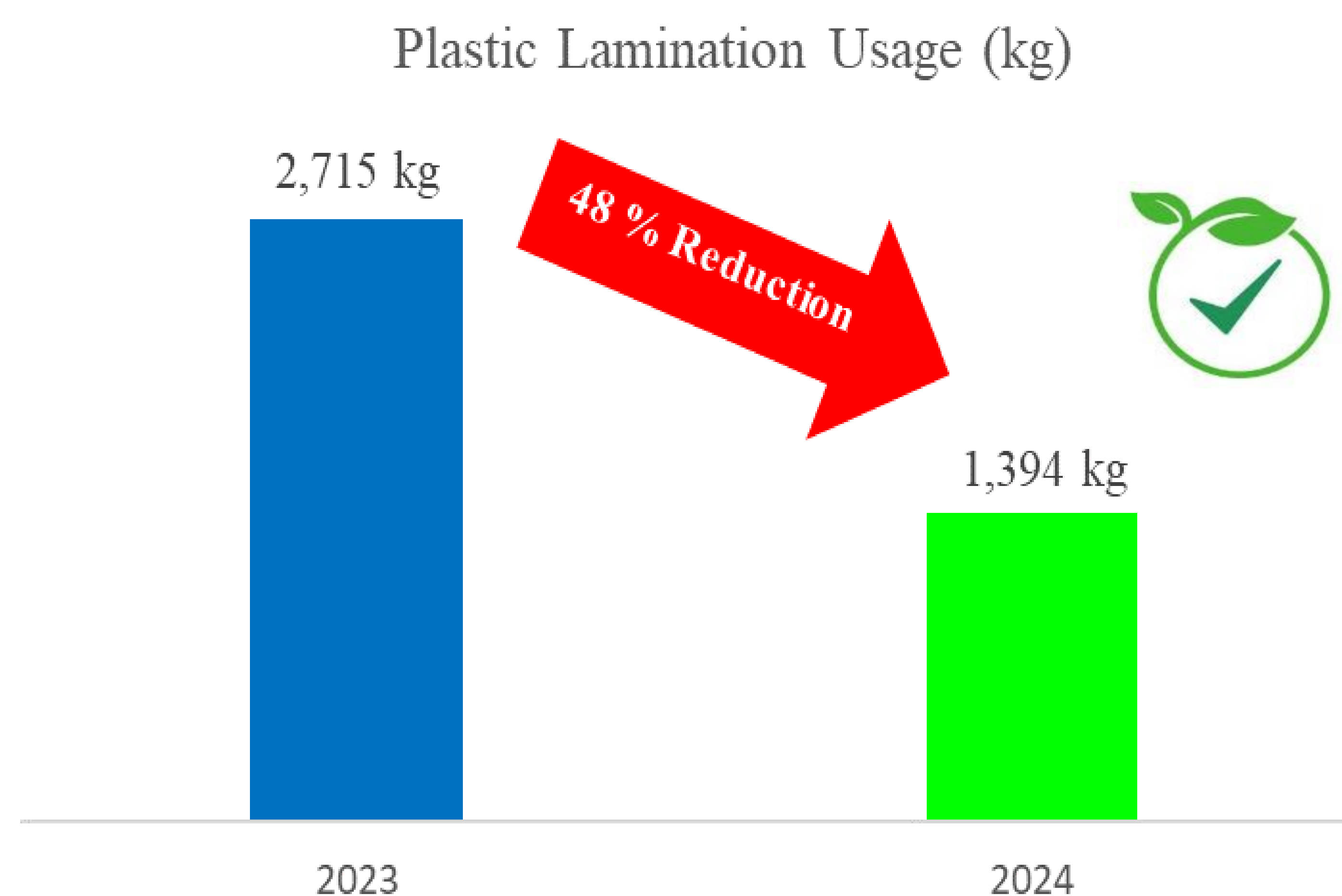


- Winson Press is the incumbent supplying the medication repackaging boxes to 6 participating Pharmacies.
- ALPS SP explored with Winson Press on ways to reduce plastic lamination on the existing medication boxes, without compromising the strength of the boxes.
- The samples with the revised specifications – plastic lamination on window cut only were sent out to respective Pharmacies for testing through the ROWA machines



RESULT

- Participating Pharmacies have tested the samples of the newly proposed non-laminated boxes and concluded the boxes to be acceptable.
- This switch from fully laminated to non-laminated plastic boxes is estimated to reduce **48% (1,322kg)** in plastic usage and carbon emission by **12%** from 2023 to 2024.



- In addition, ALPS SP also achieved negotiated saving of **\$40,483** per annual and a total of **\$80,966 (15%)** over the 2-year contract period.



CONCLUSION

- By collaborating with vendor, Winson Press, ALPS SP has not only achieved cost avoidance of **15%** but have also do our part for the environment, by reducing the plastic lamination of the repackaging medication boxes by **48% (1,322 kg)** per annum.