# Digitalising Surgery Listing for Efficiency & Sustainability



SingHealth

Singapore Healthcare Management 2024

Yee Li Xuan, National Dental Centre Singapore Joyce Koo, National Dental Centre Singapore

## **INTRODUCTION**

The previous surgery listing process at National Dental Centre Singapore (NDCS) relied on manual entries into physical logbooks due to deficiencies in the booking system (OAS) in capturing crucial information such overview of surgery slots in all theatres, surgery type, duty clinician, patient's medical history, and whether the cases belonged to personal case (PC) or common pool (CP).

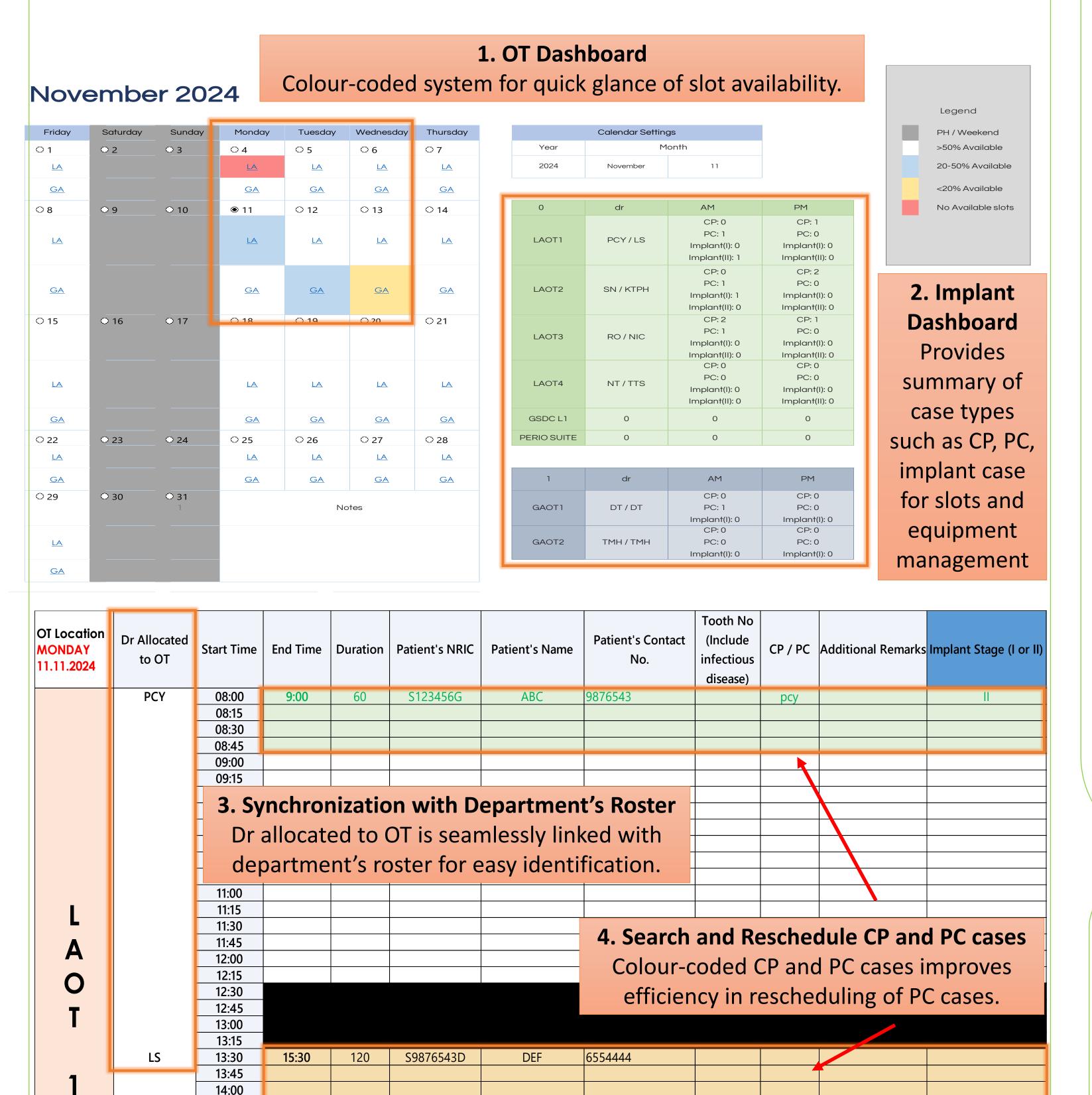
#### **OBJECTIVES**

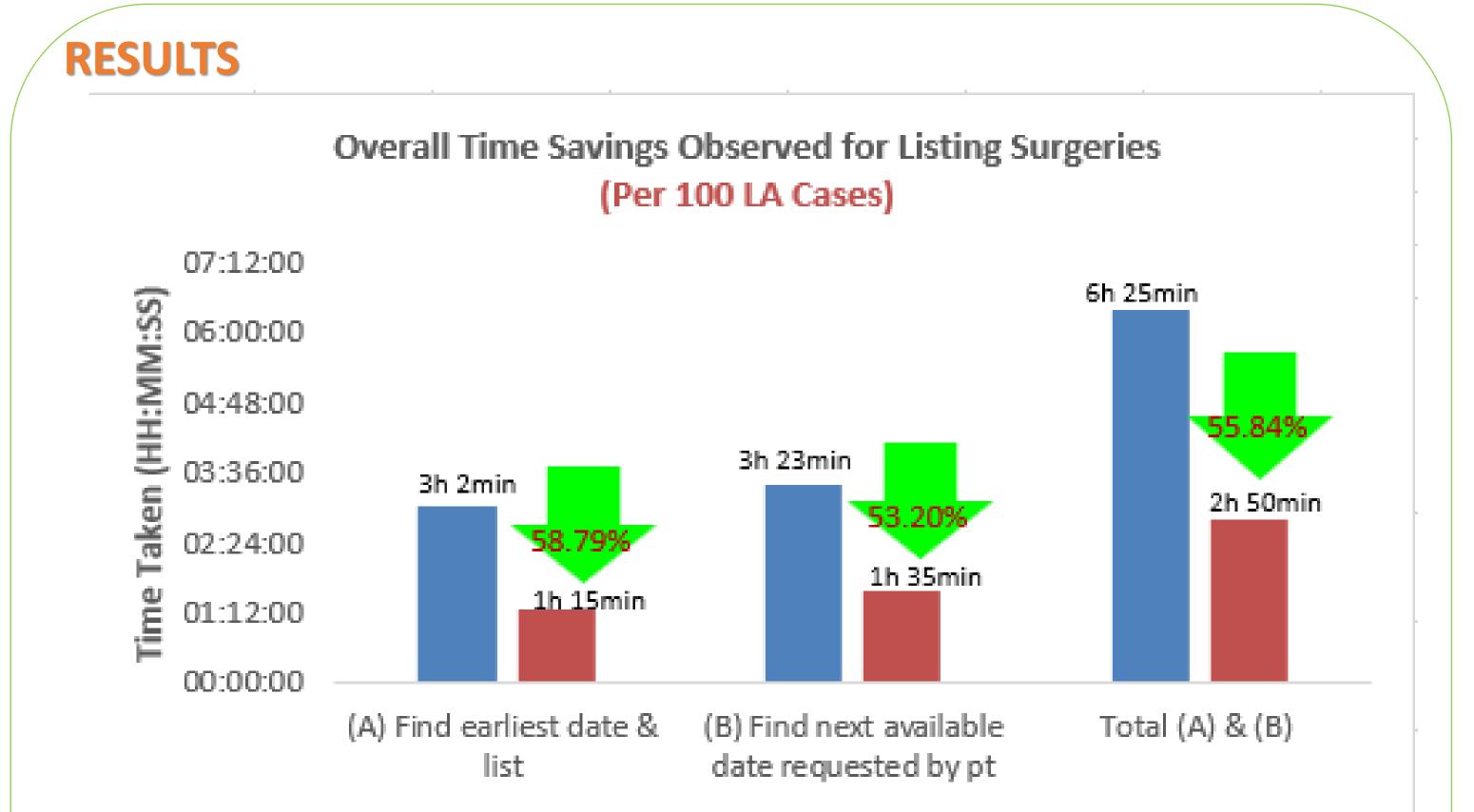
- ✓ Establish a unified platform for ease of access to listing information that is transparent to all
- ✓ Enhance the efficiency of surgery listing process
- √ Reduce reliance on paper recording of surgeries

#### **METHODOLOGY**

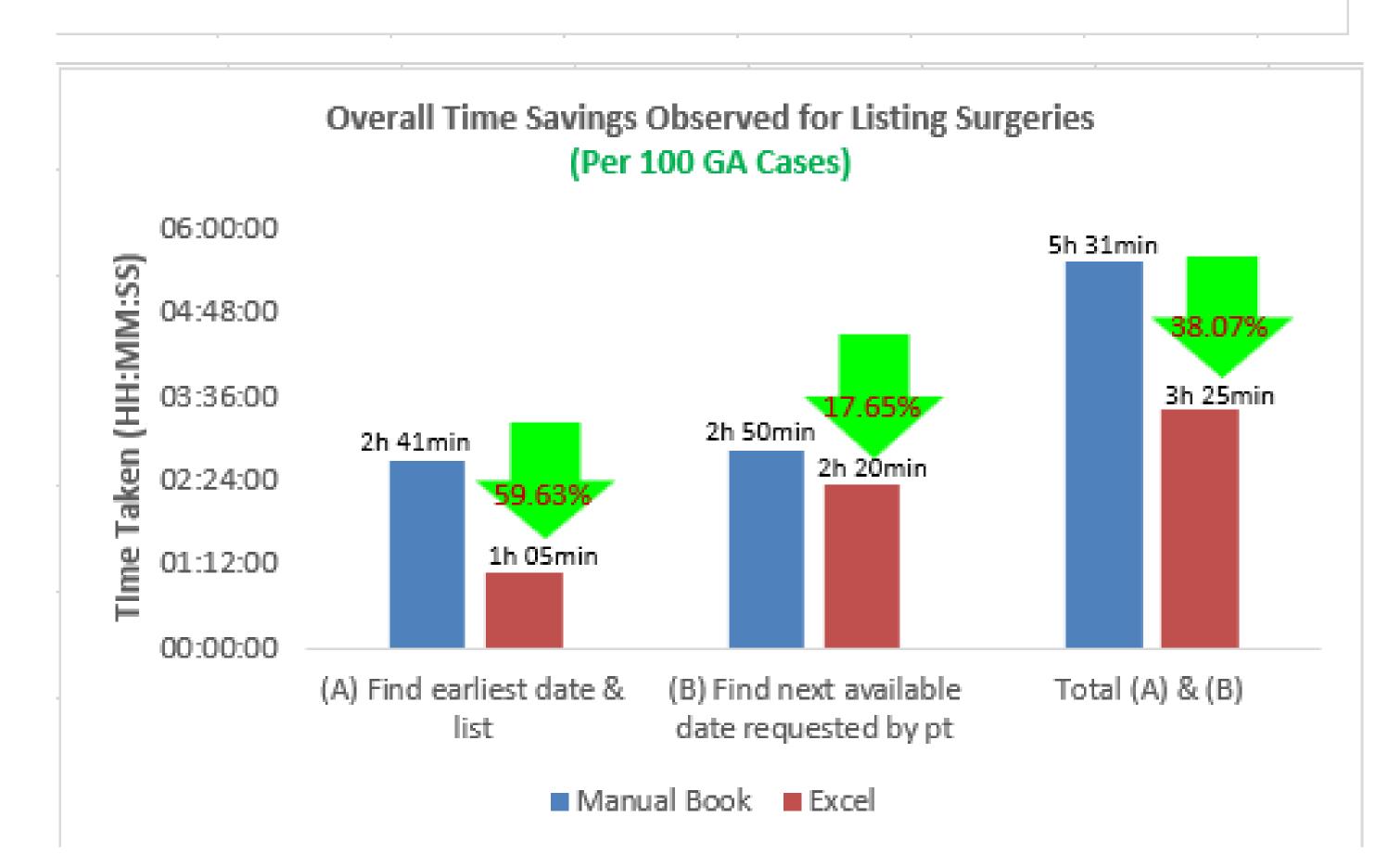
Utilizing advanced functions of Microsoft Excel, an OT Scheduler was developed to:

- Create a concise OT dashboard for quick glance of OT availability through a colour-coded system.
- Establish a comprehensive implant dashboard to improve efficiency of equipment management.
- Synchronize with department's roster to show the designated clinician for each session.
- Enable finding for earliest slots (for CP, PC and implant cases) and rescheduling of PC cases.





Manual Book Excel



- Increased efficiency
- > Total time reduction for LA cases is 56% per 100 cases.
- $\succ$  Total time reduction for GA cases is 38% per 100 cases.
- 2. The OT and implant dashboards provided a comprehensive view of available slots across all OT and facilitated efficient equipment management.
- 3. Rescheduling for CP an PC cases was simplified through roster synchronization.
- 4. These improvements enhanced resource planning, rescheduling capabilities and eliminate the need for manual day-by-day, theatre-by-theatre checks.
- 5. Staff morale has improved with streamlined processes and better information access, making tasks easier, and reducing stress and thus improving teamwork.
- 6. By switching from the logbooks to the OT scheduler, 900 sheets of paper were saved annually. This is equivalent to saving approximately 0.1 trees each year.

### CONCLUSION

The adoption of the OT scheduler has refined surgery listing processes, replacing manual books entirely and ensuring easy access to booking information for all staff. Complete reliance on paper recording has been eliminated, marking a 100% transition to the OT Scheduler.