

# **Optimising the PGY1 Feedback Collation Workflow** Using FormSG, Plumber, and Excel Formulas

Singapore Healthcare Management 2024

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# (1) INTRODUCTION

The Department of Internal Medicine (DIM) hosts about 50 Post-Graduate Year 1 (PGY1) doctors at any one time.

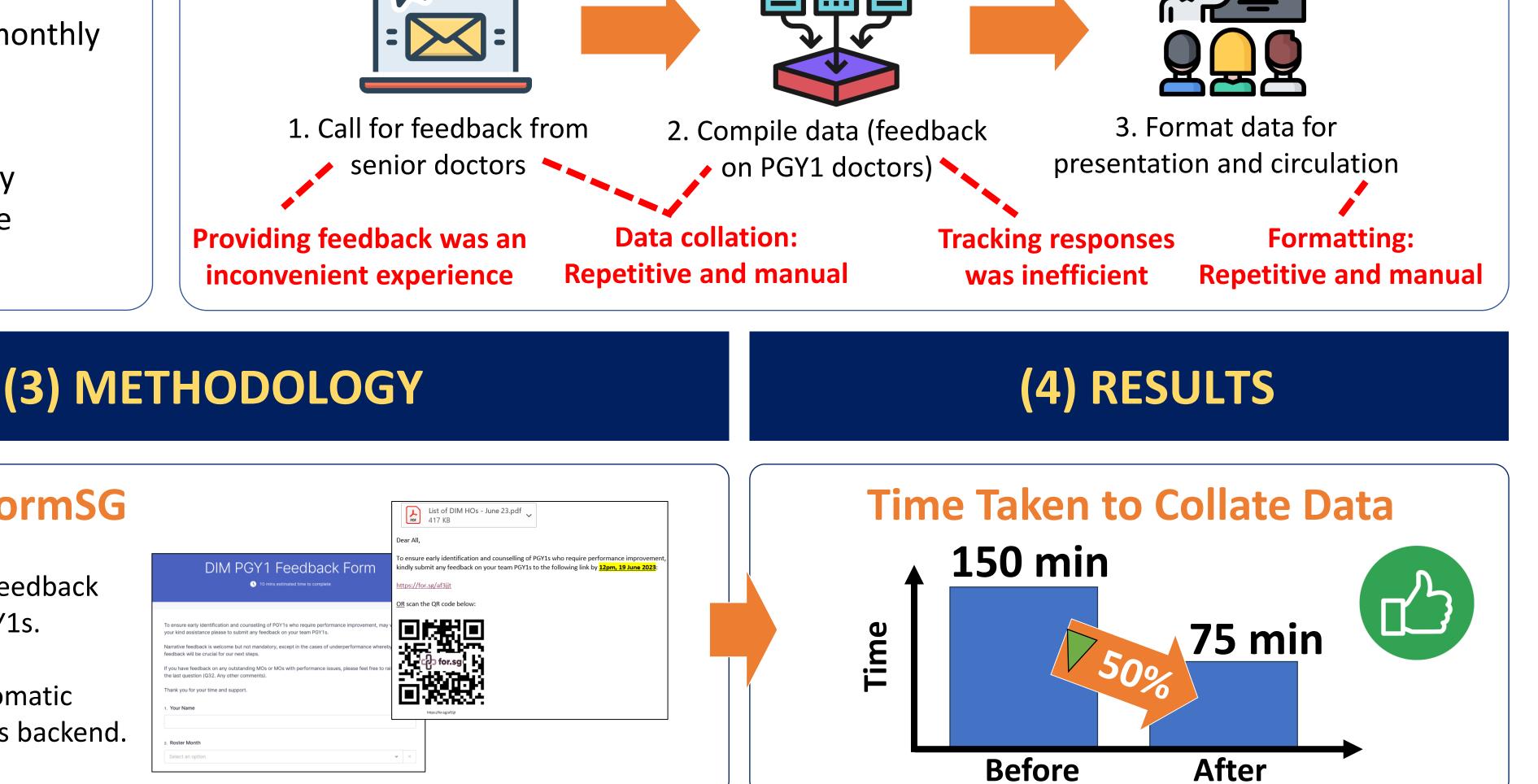
**Process Flow & Pain Points** 







- Every month, feedback regarding their performance is collated monthly from their team Senior Doctors (Senior Residents, Registrars, Consultants).
- This is an essential part of department operations to ensure early identification and counselling of PGY1s who require performance improvement.



# **Formatting Process: Repetitive and Manual**

(2) PAIN POINTS

**Data Collation Process:** 

**Repetitive and Manual** 

Individual emails sent to 15-17 teams

Individual replies received from each

team's doctors  $\rightarrow$  50 email threads to track

#### **Usage of Formulas and Macros**

**Creation of FormSG** 

For doctors to fill in feedback

about their team PGY1s.

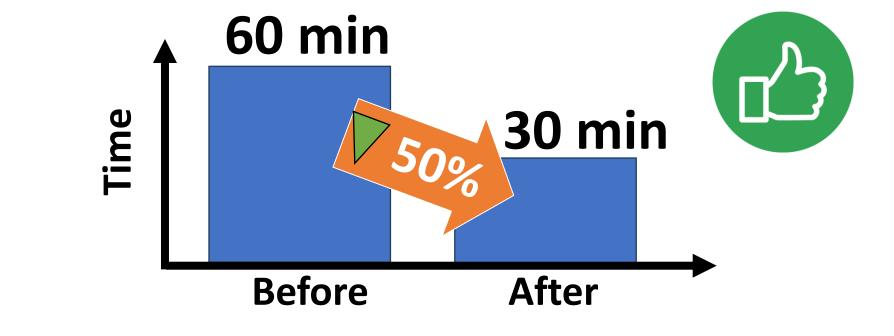
FormSG enables automatic

collation of responses backend.

Formulas (CONCATENATE & VLOOKUP) and macros speed up process by performing an automatic match of supervisors to PGY1s and compile feedback in ascending order, respectively.

## **Time Taken to Format Data**





Responses manually copy-pasted from the 50 threads into an excel document

PGY1s' supervisors names manually input during formatting of excel document

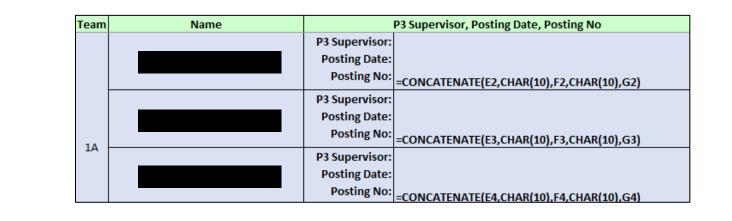
**Tracking of Responses:** 

Need to manually log into FormSG

passwords) to check for results

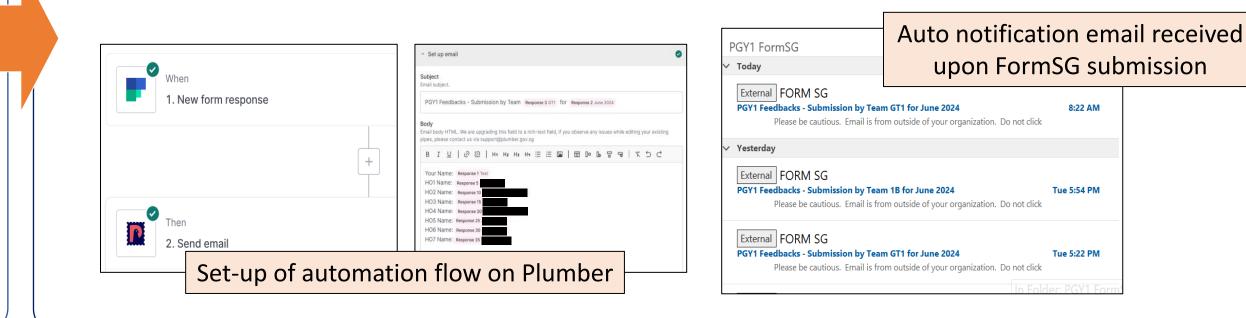
(which requires retrieval of multiple

Inefficient

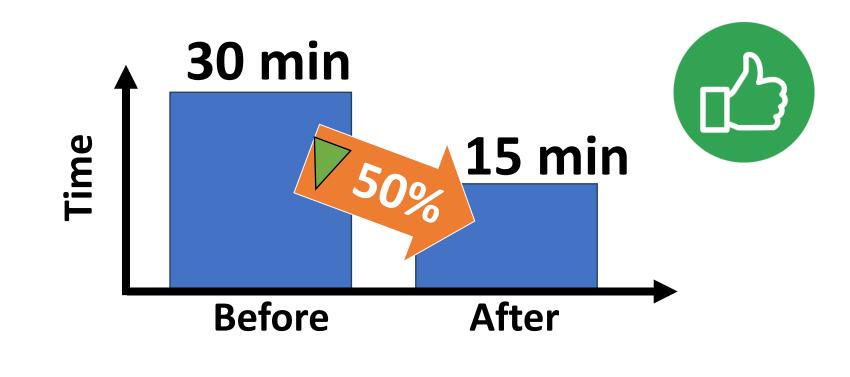


### **Automation of Tracking with Plumber**

Plumber is a platform used to automate FormSG responses directly into Outlook inboxes to track submission progress at a glance.



#### **Time Taken to Track Responses**

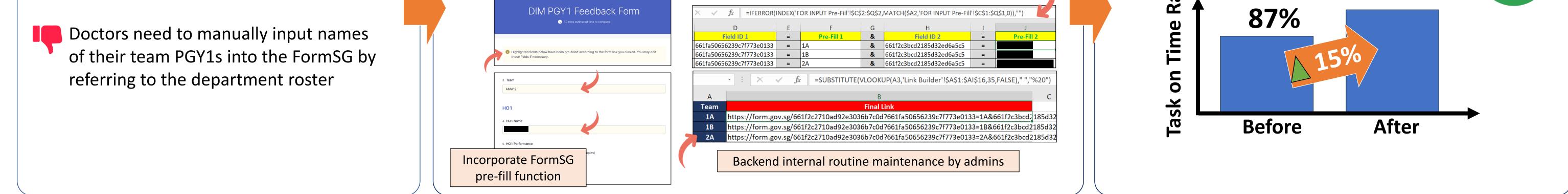


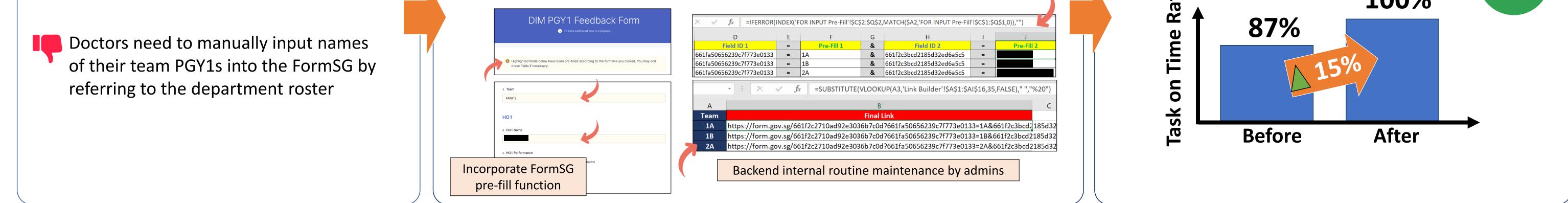


Doctors need to manually input names

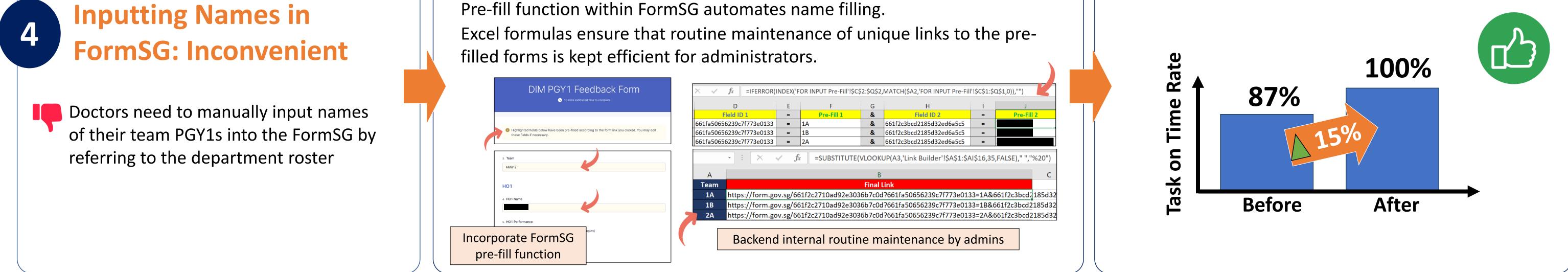
## **Usage of Pre-Fill Function**

filled forms is kept efficient for administrators.



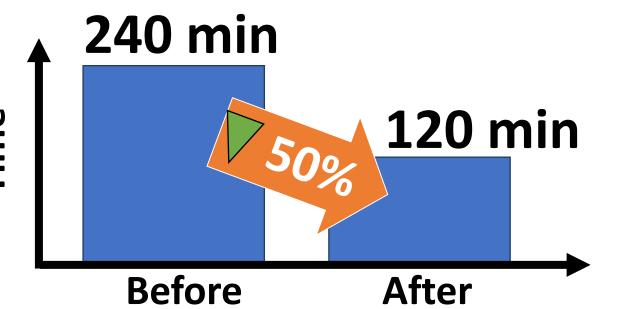


#### **Task on Time Rate**









- Achieved a reduction by 50% in time taken to complete the PGY1 feedback collation workflow every month and a relative increase by 15% in task on time rate.
- The interventions will continue to be implemented for other administrative processes due to their ability to increase efficiency, reduce human error, and improve user experience.
- The tools used are low to no-code, which can encourage more staff to use them. This may help remove the perception that automation is restricted to technical staff.