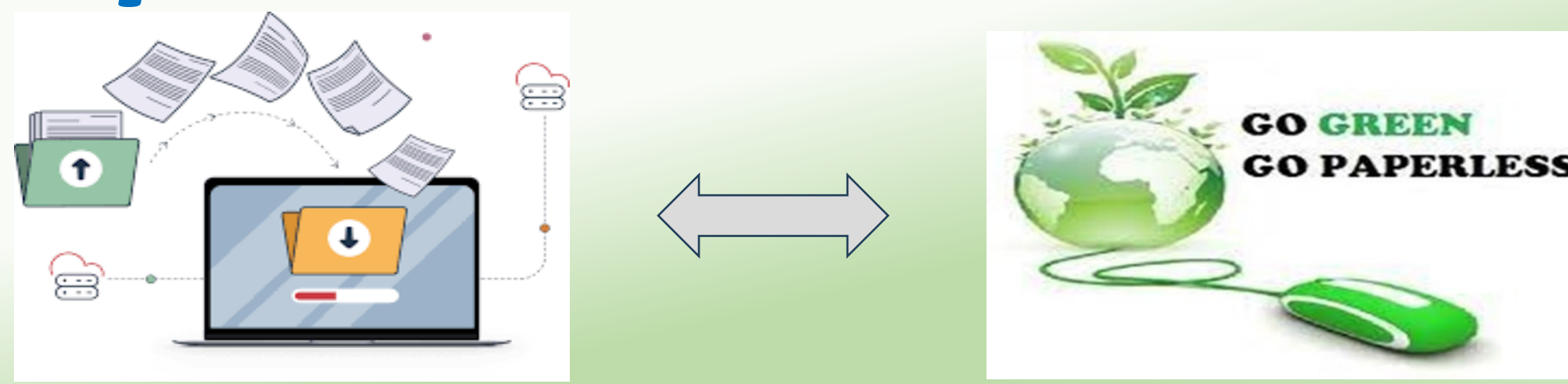




# Converting Paper-Based Forms to e-Forms



Singapore Healthcare Management 2024

Gladys Yap, SingHealth Community Hospitals  
 Mazlinna Binte Ahmad, SingHealth Community Hospitals  
 Sandy Tan, SingHealth Community Hospitals  
 Patrica Thean, SingHealth Community Hospitals  
 Dacanay Darwin Rivera, Synapxe



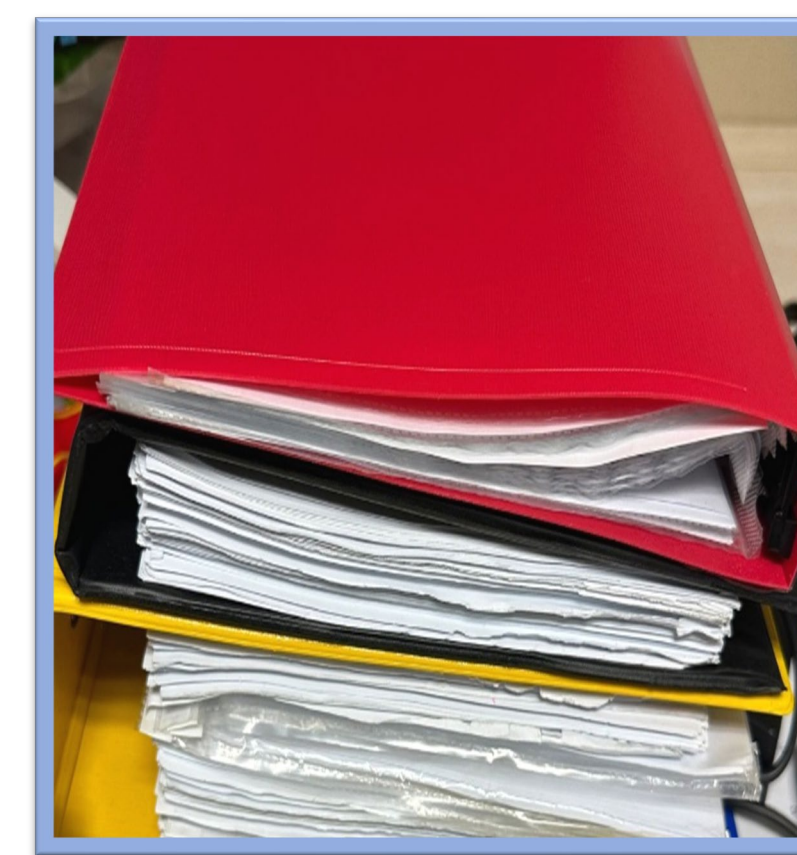
## Introduction

In recent years, SCH Operations has increasingly recognized the benefits of transitioning from paper-based forms to electronic forms (eForms). This is further required with accumulation of some urgent issues faced by SCH Operations as follow:



4/1/23	A02 Teag USI
6/1/23	97 (Fish Tail)
12/1/23	97 (Fish Tail)
15/2/23	97 (Fish Tail) → HR Journals
20/3/23	A02 Access Pass
18/9/23	A02 Access Pass
20/9/23	Word 96 Tutorial Rm CHS/10
21/9/23	Word 96 Tutorial Rm CHS/10
10/9/23	Word 96 Tutorial Rm CHS/10
17/10/23	Word 96 Tutorial Rm CHS/10
11/11/23	Word 96 Tutorial Rm CHS/10

- Storage and Space Issues** → Physical documents require significant storage space
- Time-Consuming Processing** → Handling, sorting, and processing physical documents has been labor-intensive and time-consuming for the team and this resulted in further delay of overall application processing workflow
- Difficulty in Data Retrieval** → Searching for specific information in a stack of physical documents has been tedious and inefficient, leading to delays and potential errors in retrieving the application forms
- Environmental Concerns** → Use of paper contributes to deforestation and environmental degradation, and the need for printing adds to carbon footprints and resource consumption.
- Cost** → Increased in monthly costs associated with printing, storing. This also include expenses for paper, ink, filing cabinets, and storage facilities.



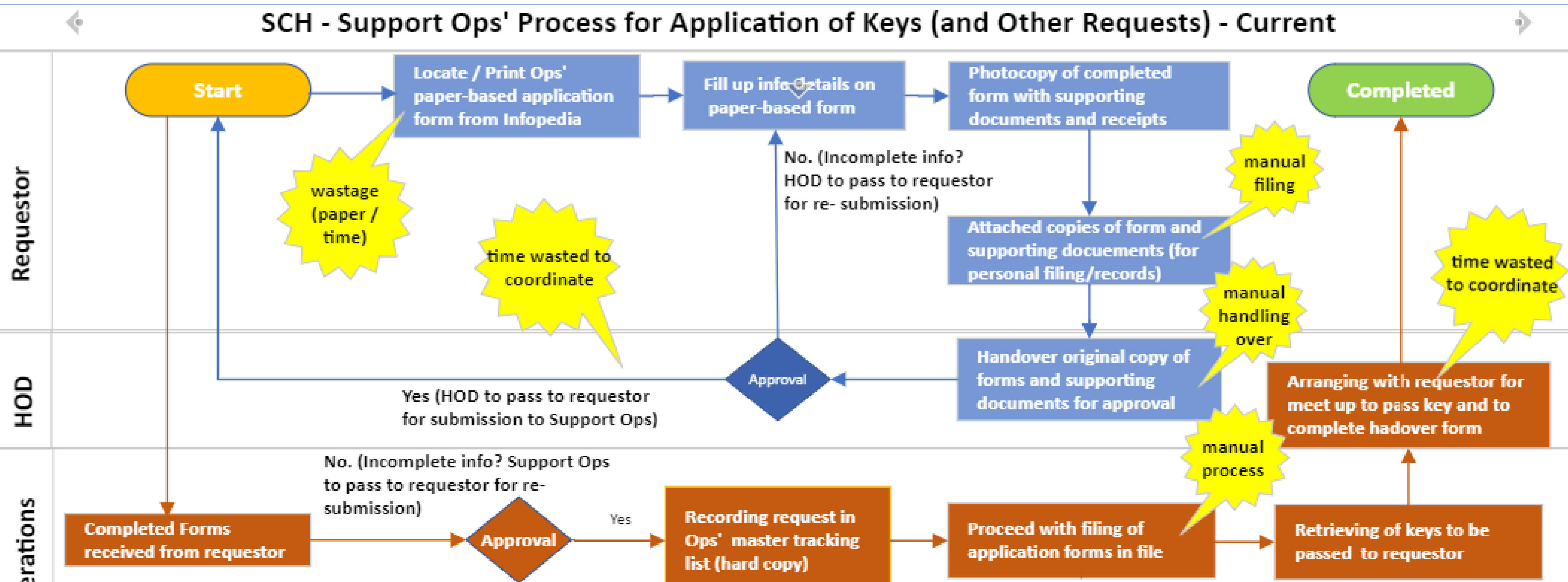
## Methodology

(1) The team came together in July 23 and decided on one most appropriate manual form to be converted to e-Forms. (2) "Request of Key Form" was chosen as it is the highest number of application forms received by SCH Operations. (3) Process Mapping was conducted to identify wastages and areas to eliminate. (4) Numerous testing with designing and streamlining of workflows were conducted via UAT/Production – Nintex.

### 1. Key Request Form selected as it is most frequently

S/N	Type of Forms	Sites Involved	Departments Involved	Remarks
1	Request for Key	SCH	Ops, Synapxe, Comms	Highest number of applications received
2	Request for Mobile Phone Allowance	SCH	Ops, Synapxe, Comms, IFSS	2nd highest number of applications received
3	Request for Carpark Benefit (Monthly)	SCH, SKH, SingHealth HQ?	Ops, SKH, SingHealth HQ	Obsolete
4	Encrypted Portable Storage Device Application / Return Form	SCH	Ops, Synapxe, Comms	Ops to share knowledge for other depts to benefit
5	Future Forms – Potential Collaboration with HR, Finance, Nursing (e.g Replacement Form for Name Tag)	SCH	All	

### 2. Mapping of typical process of manual application received by Ops to identify bottlenecks, inefficiencies and areas of improvement



### 3. Designing eForms via nintex

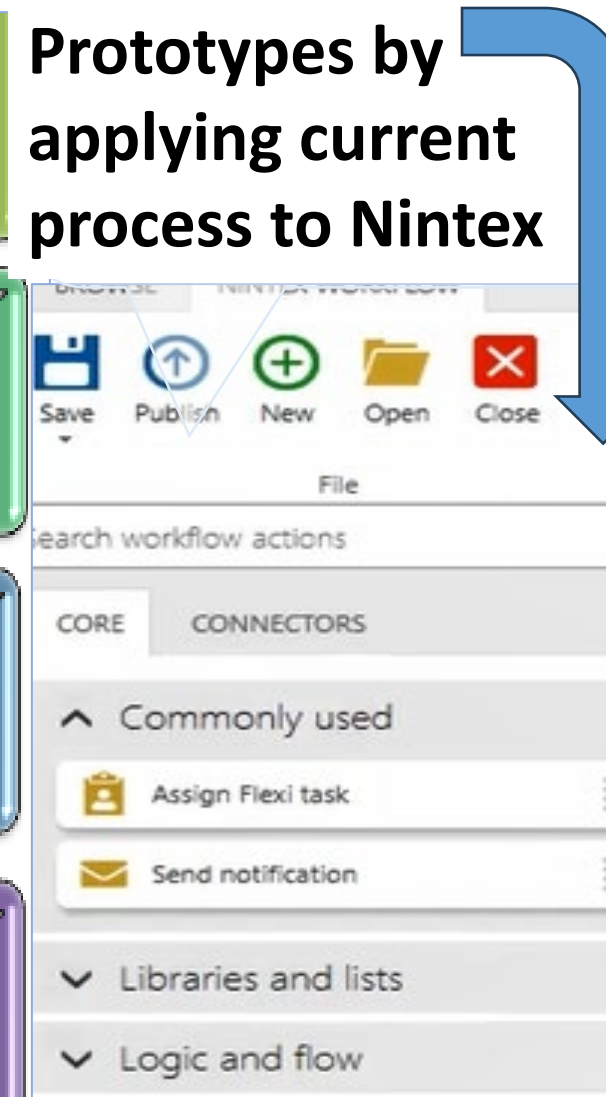
Automating of processes and solutions to workflow management easily and quickly through low-code, drag-and-drop design

Enable automating and streamlining business processes by allowing users to design customized e-forms, reusing templates and modules

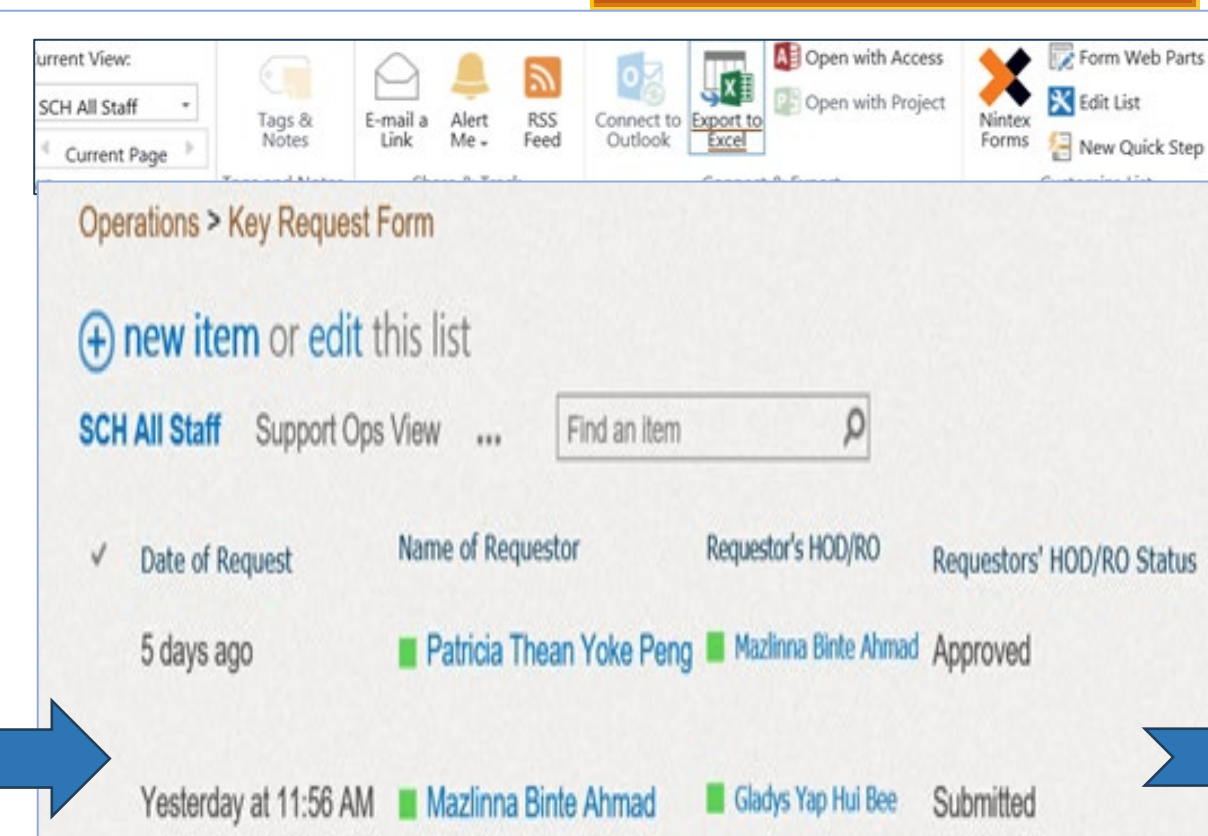
Improved in efficiency of interaction among with domains through real-time status updates and workflow tracking through notification via emails

For ease of generating data, tracking of number of forms submitted, accepted and rejected

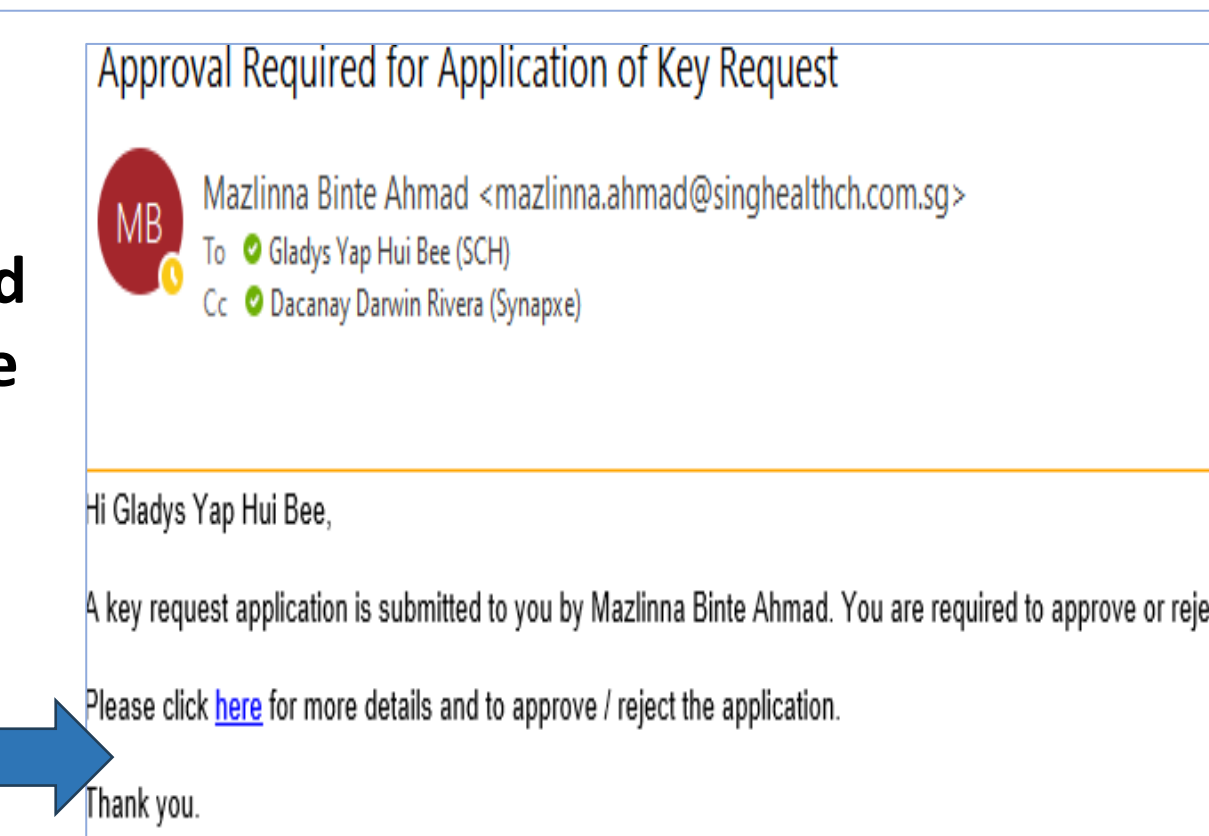
### 4. Developing Prototypes by applying current process to Nintex



### 5. Granting approval rights to users via Nintex and undergoing UAT / Production to finalize on workflow

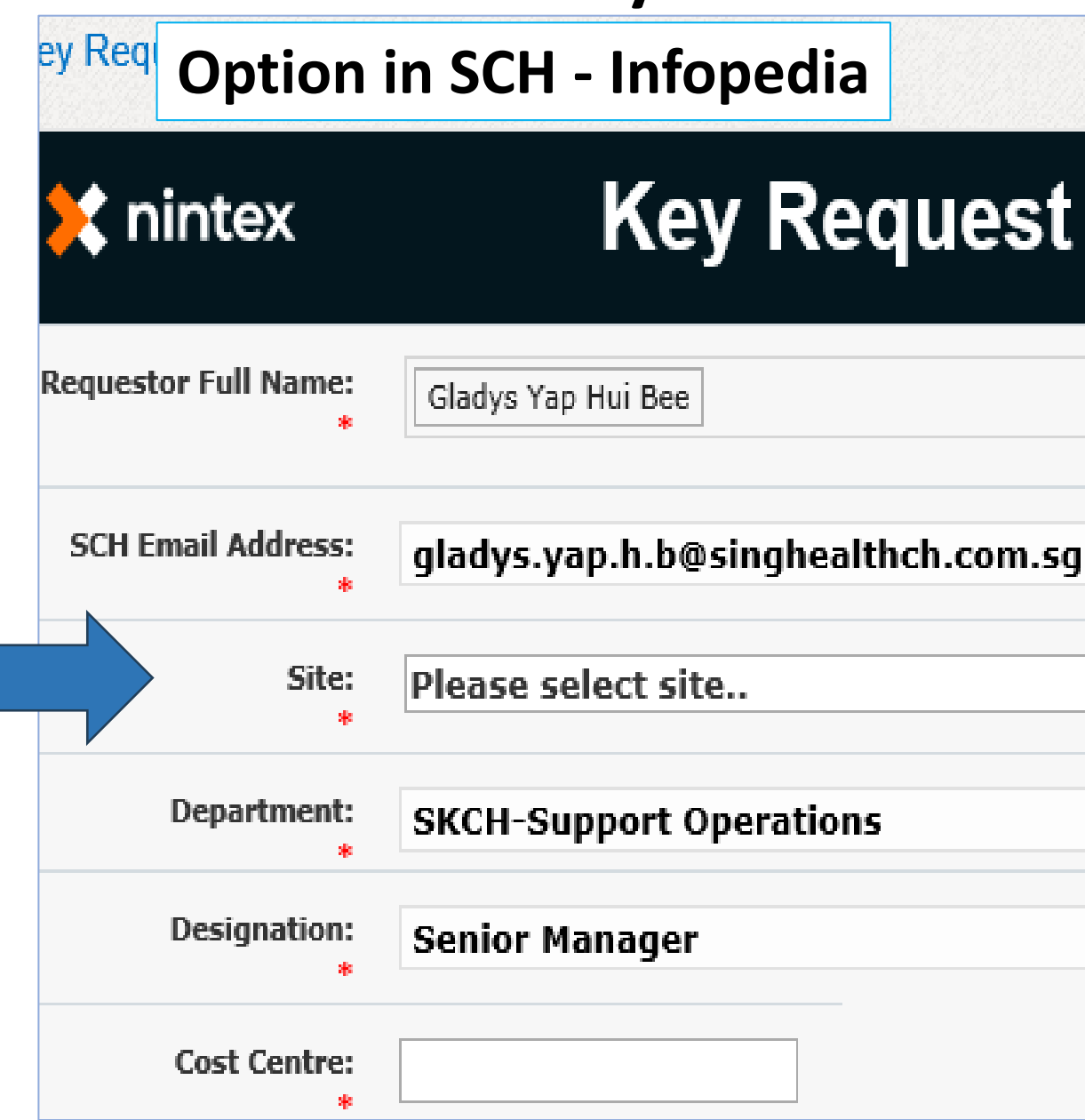
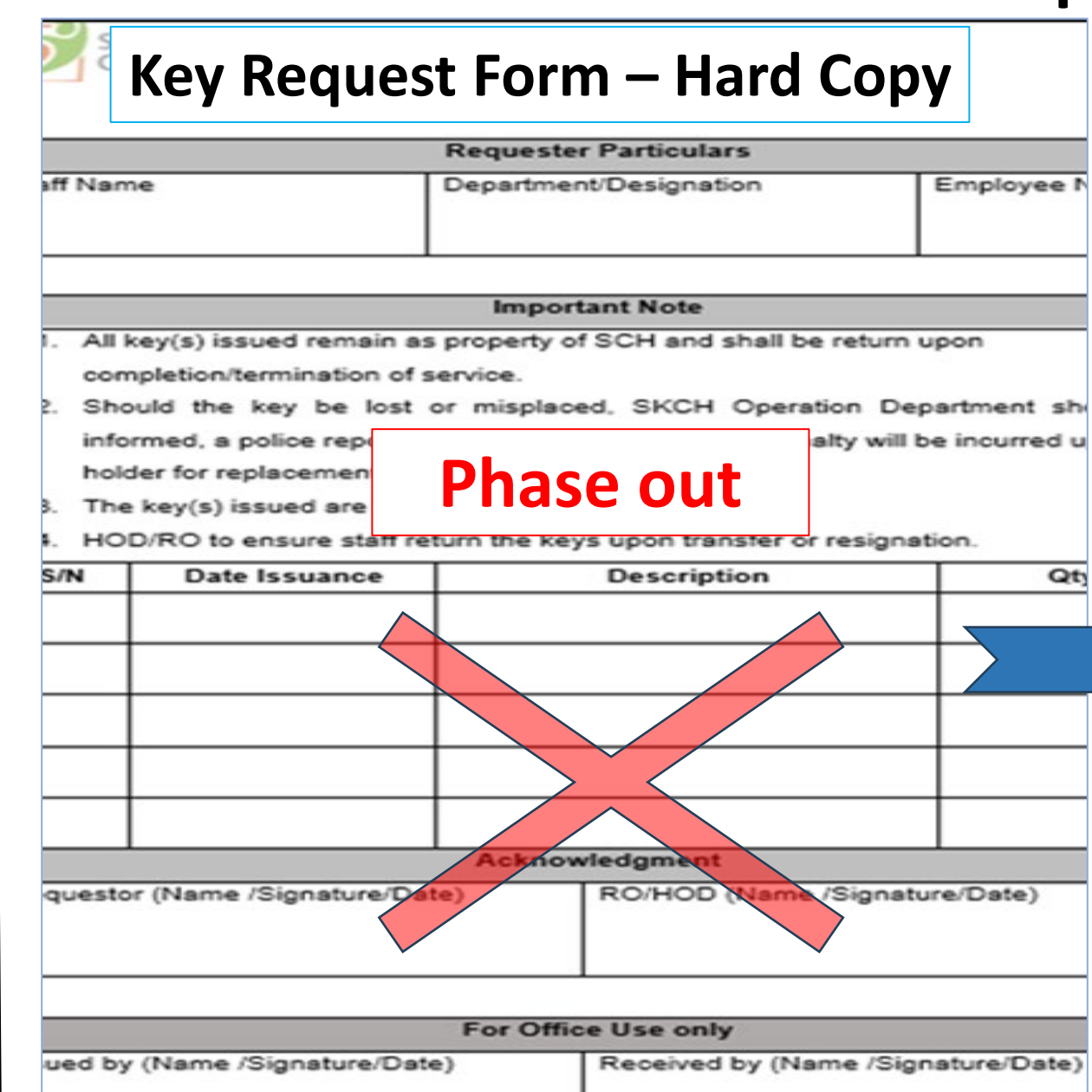


### 6. Testing out all requests submitted to ensure users are well captured via Nintex



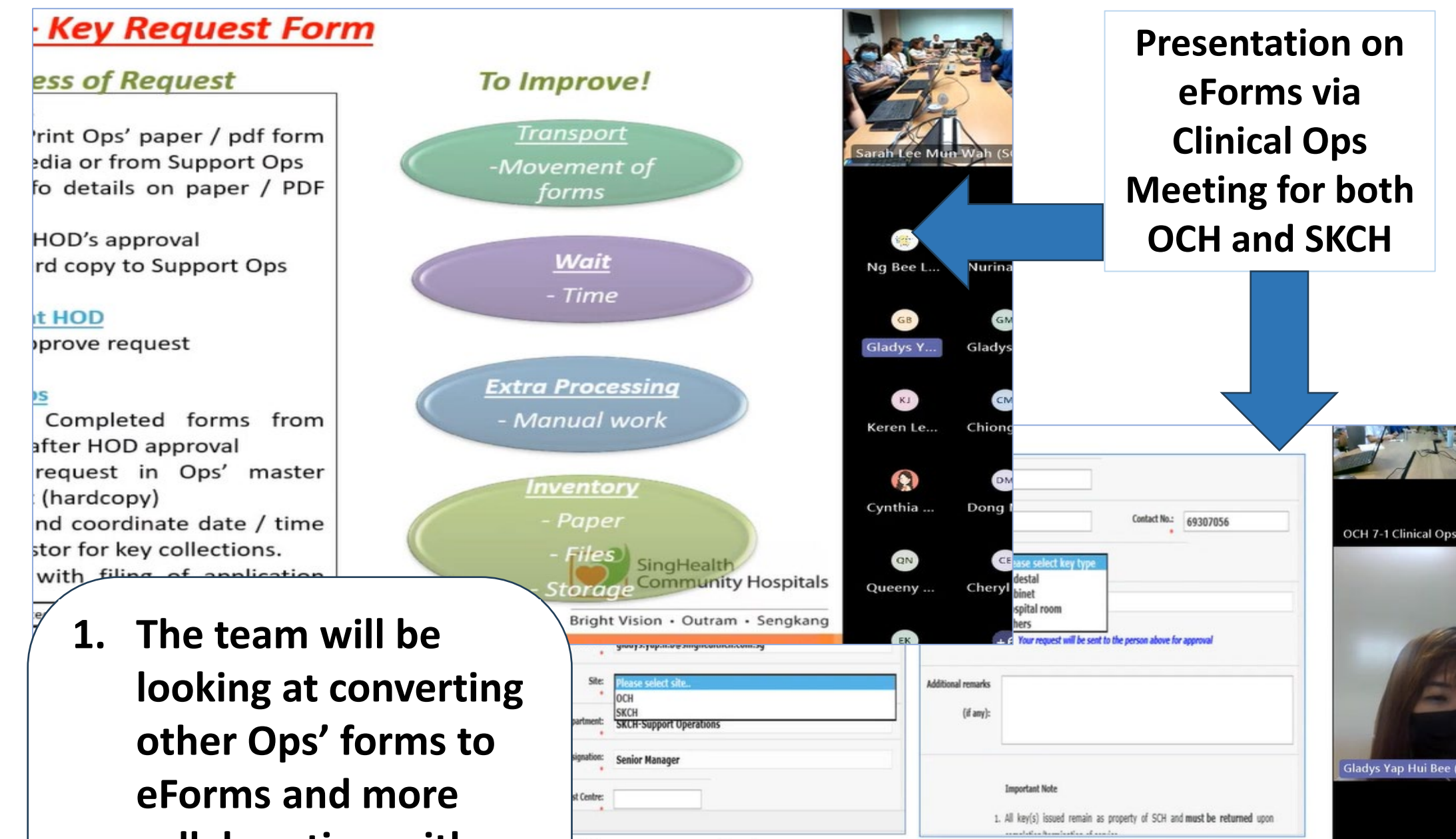
## Results

eForm for "Key Request" was officially implemented via SCH's Docupedia in May 24. Application process was monitored closely with both qualitative feedback and quantitative data collated. Total processing time from Application to Approval has reduced by estimated of

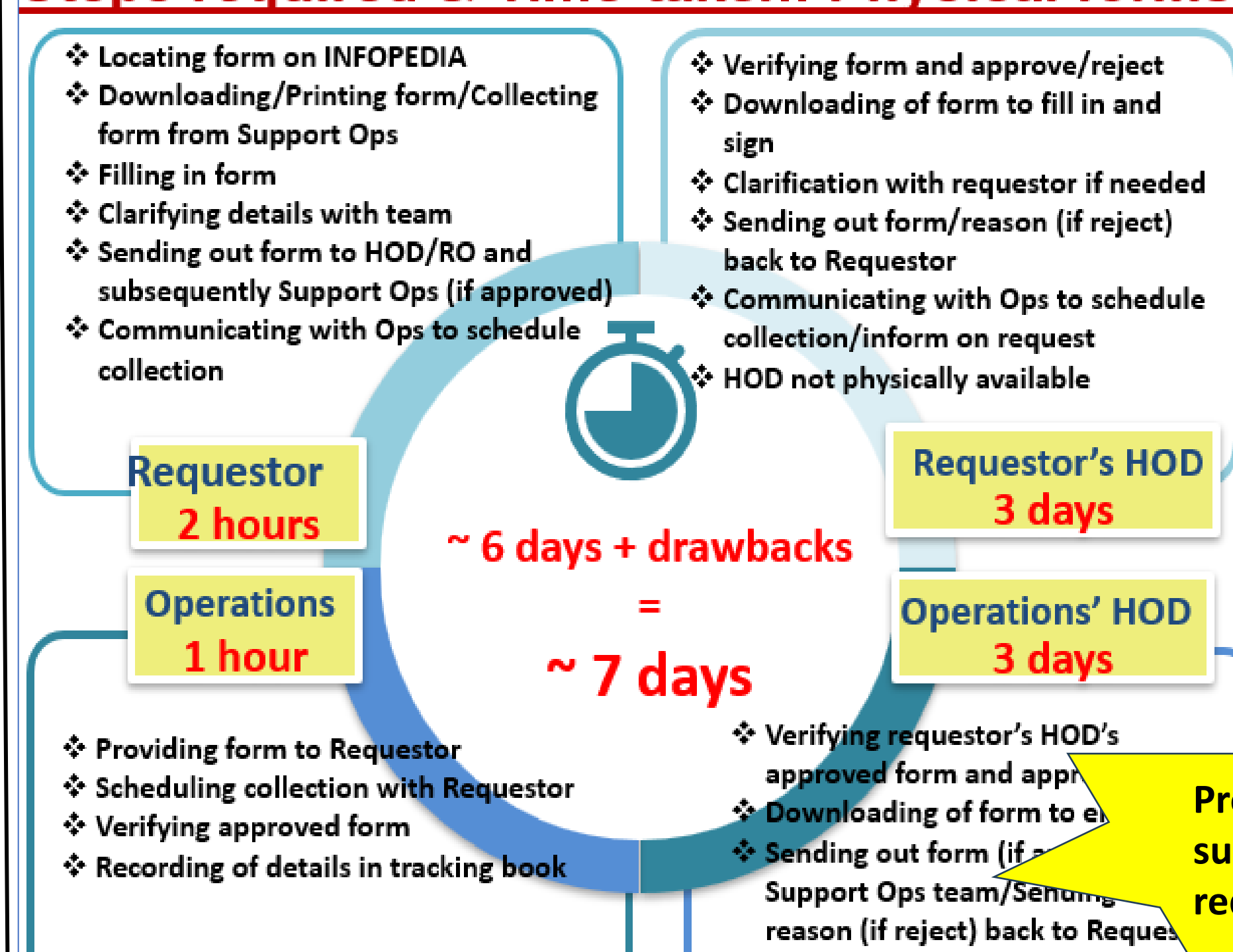


## Conclusion/Sustain

Sharing of new initiative and trainings were provided to users on how to access, complete and to submit eForms.



### Steps required & Time-taken: Physical forms



### Steps required & Time-taken: Nintex forms

