Operations Remake

Innovating and Optimizing Public Library Operations

Presented by:
Lo Wan Ni
Manager, Library Planning and Development
National Library Board Singapore





About Public Libraries

Key Statistics

26 branches3 library tiers – regional, standalone, mall

30.9 mil loans **25.5 mil** visitors

2.4 mil members

7.5 mil physical items

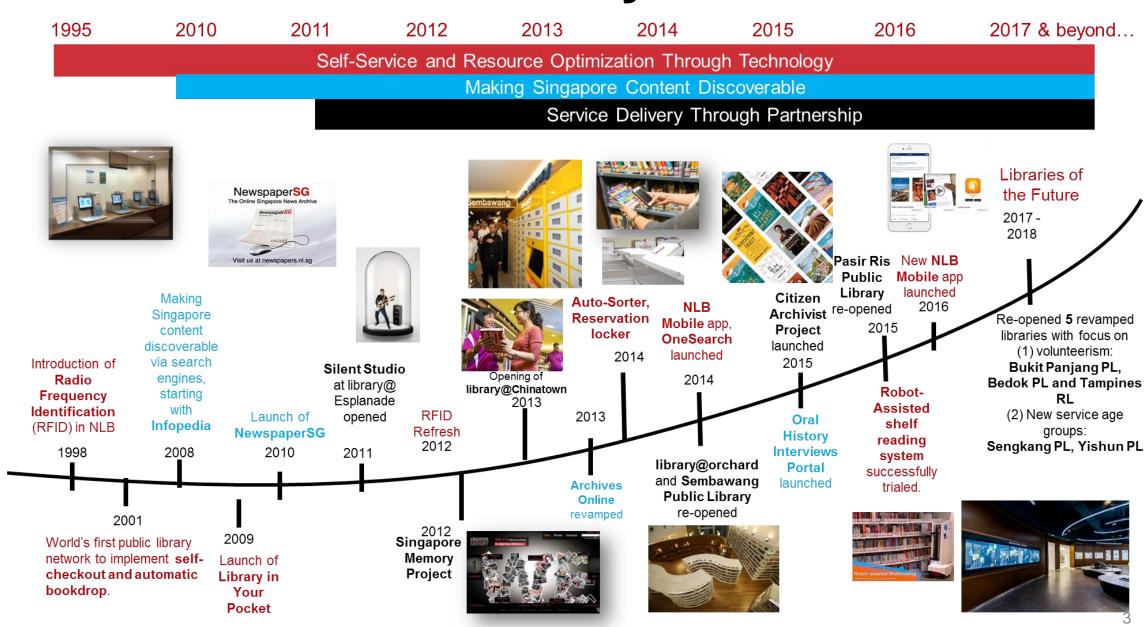
Vision

Readers for Life **Learning** Communities **Knowledgeable** Nation

Mission

We make **knowledge** come alive spark **imagination** and create **possibilities**

Our Innovation Journey



WHY ARE WE Remaking Operations?

Future trends can be a threat or opportunity

Be Future-Ready, not Future-Shocked

Future trends can be a threat or opportunity

Be Future-Ready, not Future-Shocked

Pain points as impetus for innovation

Seen from perspectives of users, staff, organization



Seen from perspectives of users, staff, organization

Future trends can be a threat or opportunity

Be Future-Ready, not Future-Shocked

Innovate to optimize

Do more with less

Do exponentially more with more



Seen from perspectives of users, staff, organization

Be Future-Ready, not

Future-Shocked

Future trends can be a threat or opportunity

Innovate to optimize

Do more with less

Do exponentially more with more



Innovation without demonstrable value being added to processes or services is not something that is typically valued by an organization's leadership.

H. Frank Cervone, 2010



How Might We CREATE VALUE?

Value Creation

Organization Goals

Citizen Goodwill Increased Usage Resource Optimization

Value Creation

Organization Goals

Citizen Goodwill Increased Usage Resource Optimization

Workplace Experience

Efficiency
Redefined Scope
Empowerment

Value Creation

Customer Journey

Convenient Seamless Low barriers

Organization Goals

Citizen Goodwill Increased Usage Resource Optimization

Workplace Experience

Efficiency
Redefined Scope
Empowerment

How Might We TAKE THE FIRST STEPS?

OPERATIONS REMAKE

At a glance

Outcomes



OPERATIONS REMAKE

At a glance

Outcomes



EFFICIENCY CONVENIENCE

PRODUCTIVITY

Processes



Time To Information

Time to Shelf

Time To Checkout

OPERATIONS REMAKE

At a glance

Outcomes



EFFICIENCY CONVENIENCE

PRODUCTIVITY

Enablers

Processes



Time To Information

Time to Shelf

Time To Checkout



MECHANISATION

AUTOMATION

DIGITALISATION

OPERATIONS REMAKE

At a glance

Outcomes



EFFICIENCY CONVENIENCE

PRODUCTIVITY

Enablers





Time To Information

Time to Shelf

Time To Checkout



MECHANISATION

AUTOMATION

DIGITALISATION

Indicators



QUANTITATIVE

- No. of steps taken to complete task
- Amt. of time taken to complete task
- Amt. of output upon completion of task

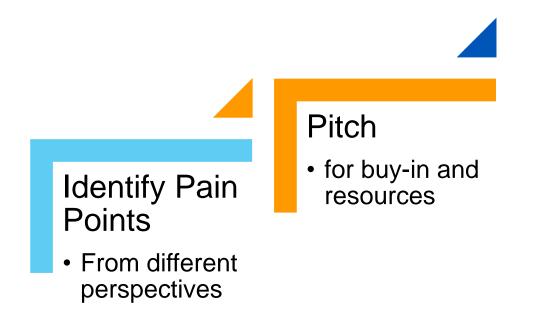
QUALITATIVE

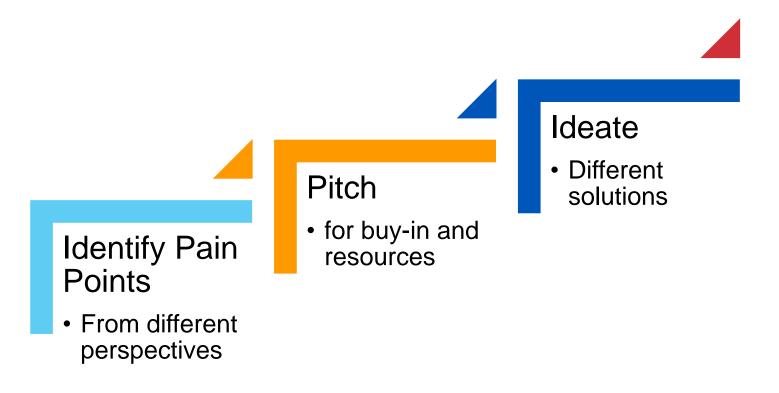
- Workplace Conditions (Staff)
- On-Site Experience (Customers)

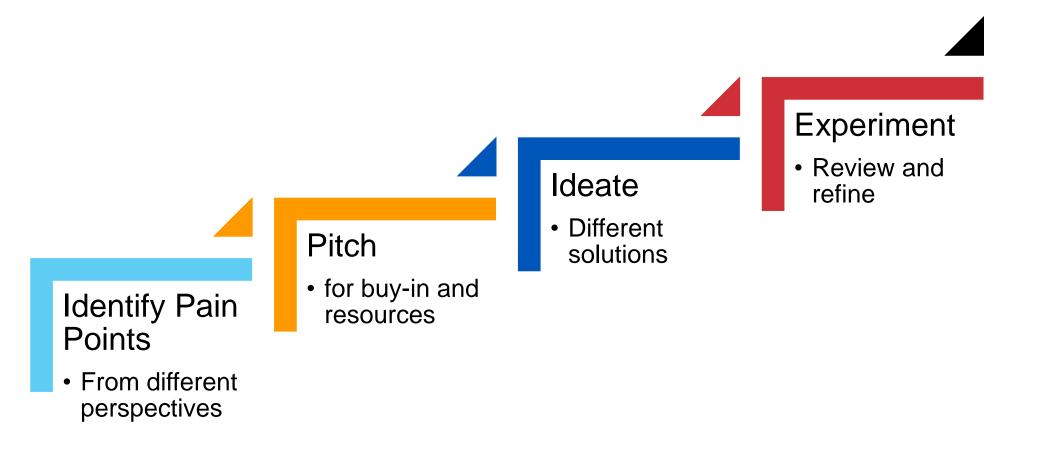
How Might We TRANSLATE STRATEGY TO ACTION?

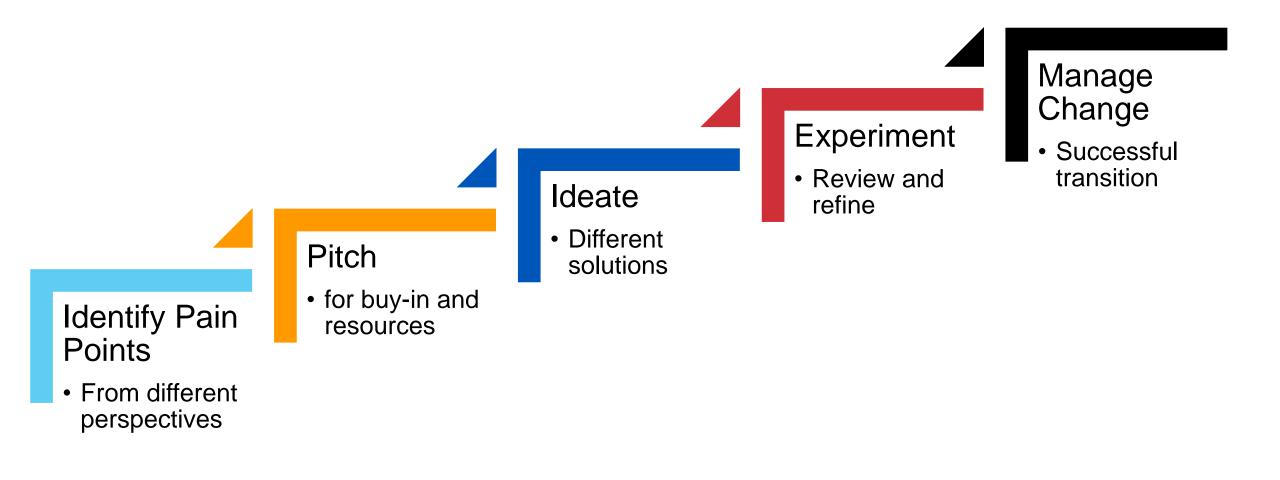


From different perspectives

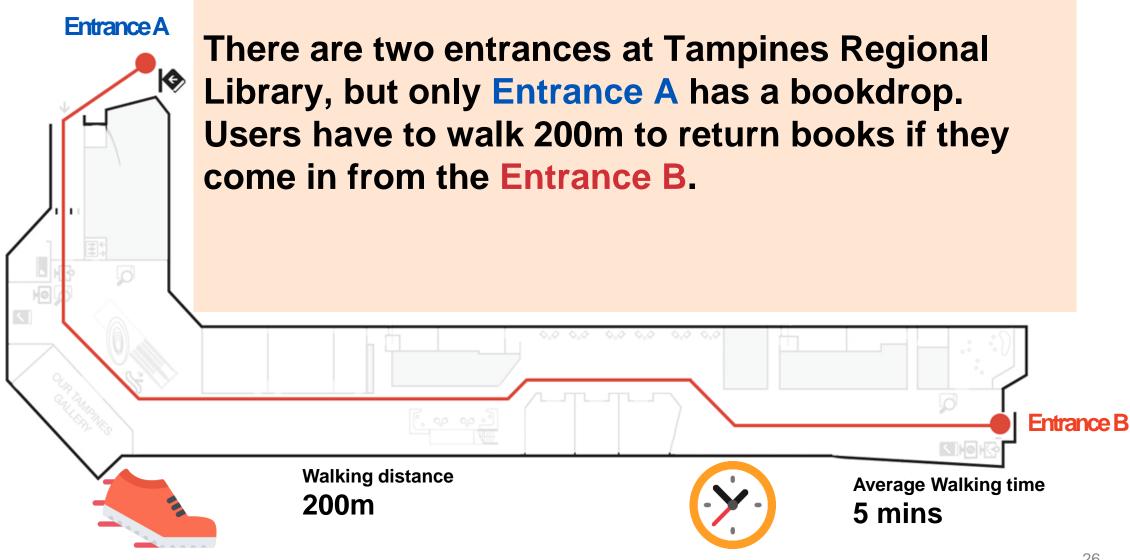








How best to identify pain points?



Solution 1:

Install a portable bookdrop bin at Entrance B.



Problem:

Effort is transferred to staff. Workroom is also about 200m away.



Solution 2:

Use of Autonomous
Bookdrop Bin to
increase user
convenience without
adding passing on
the pain.



How do we persuade stakeholders?



CURRENT STATE



HOW-TO



VALUE PROPOSITION



PERFORMANCE MEASURE(S)



TRIAL SITE(S)



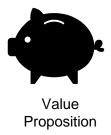
SUCCESS INDICATOR(S)



I am perceived as overly serious at work and during presentations.



I am perceived as overly serious at work and during presentations.



Injecting humour can build rapport with others leading to better working relationship.



I am perceived as overly serious at work and during presentations.



Injecting humour can build rapport with others leading to better working relationship.



APLIC 2018



I am perceived as overly serious at work and during presentations.



I will insert a funny slide explaining how to pitch an innovation proposal.



Injecting humour can build rapport with others leading to better working relationship.



APLIC 2018



I am perceived as overly serious at work and during presentations.



I will insert a funny slide explaining how to pitch an innovation proposal.



Injecting humour can build rapport with others leading to better working relationship.



Performance Measures

No. of attendees who laughed. Loudness of laughter.



APLIC 2018



I am perceived as overly serious at work and during presentations.



I will insert a funny slide explaining how to pitch an innovation proposal.



Injecting humour can build rapport with others leading to better working relationship.



Performance Measures

No. of attendees who laughed. Loudness of laughter.



APLIC 2018



A majority of attendees laughed loudly.

Example - Foreign Membership Registration



Most people can register as a member easily. Foreigners need staff to verify their ID.



Change the registration mechanism using an OCR card scanner.



A DIY registration process will make it more convenient, and increase our reach.



Performance Measures

No. of successful registration and user rating.



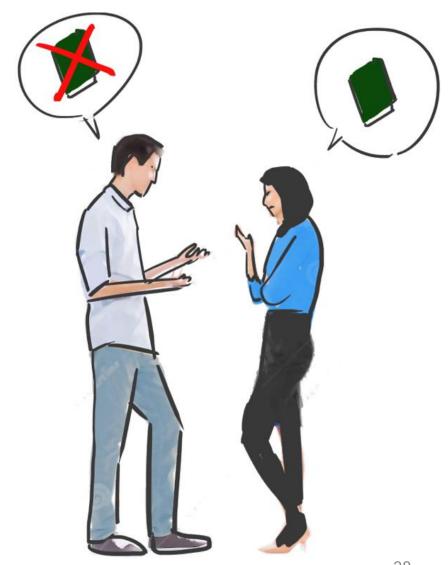
Libraries with more foreigners.

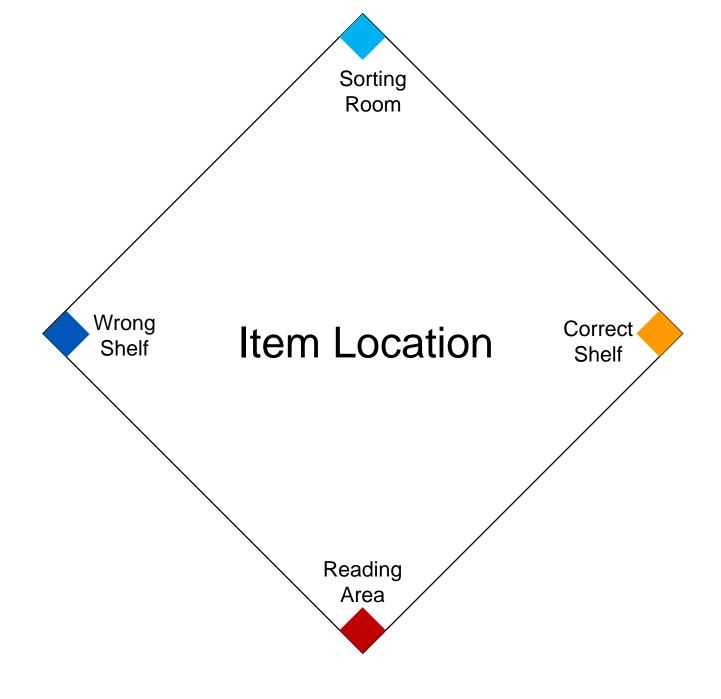


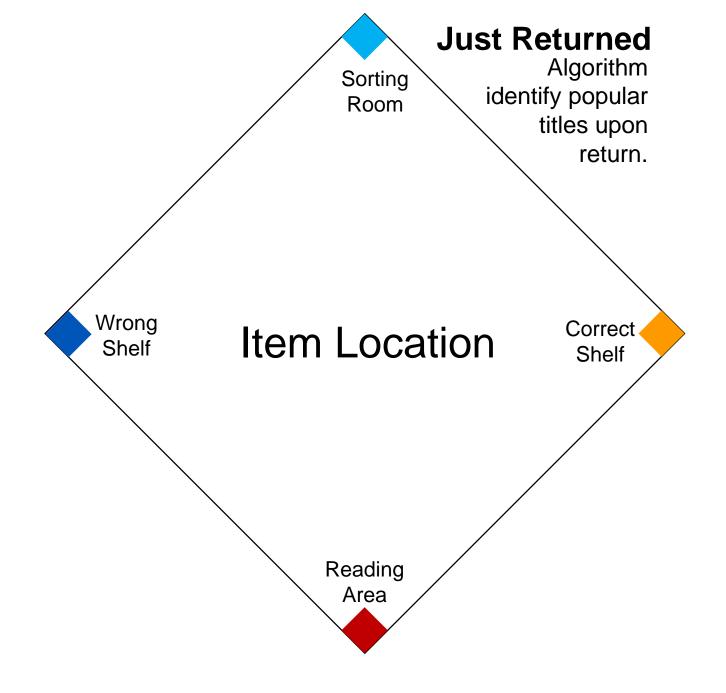
More foreign members and higher usage of libraries.

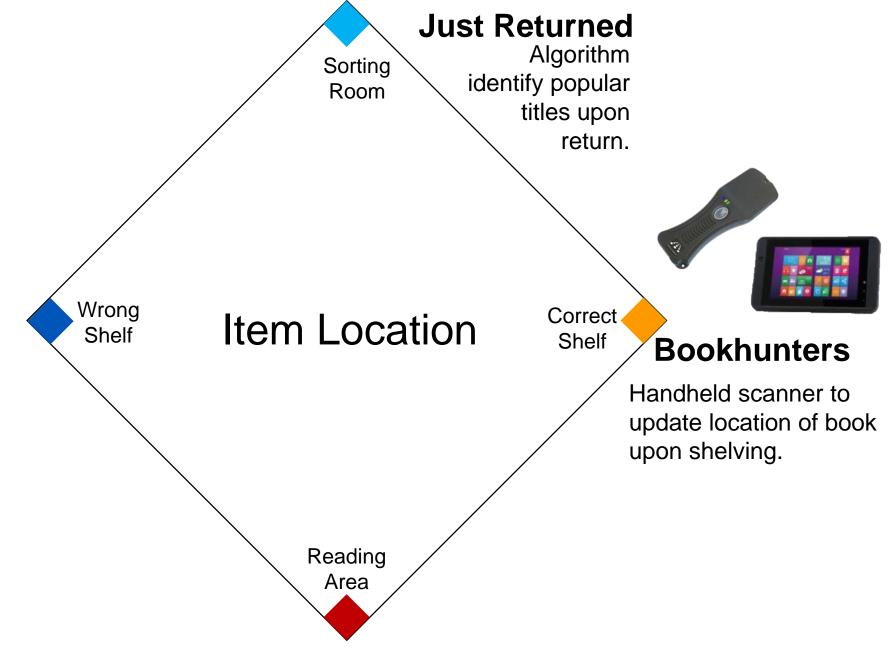
How may we solve a complex problem?

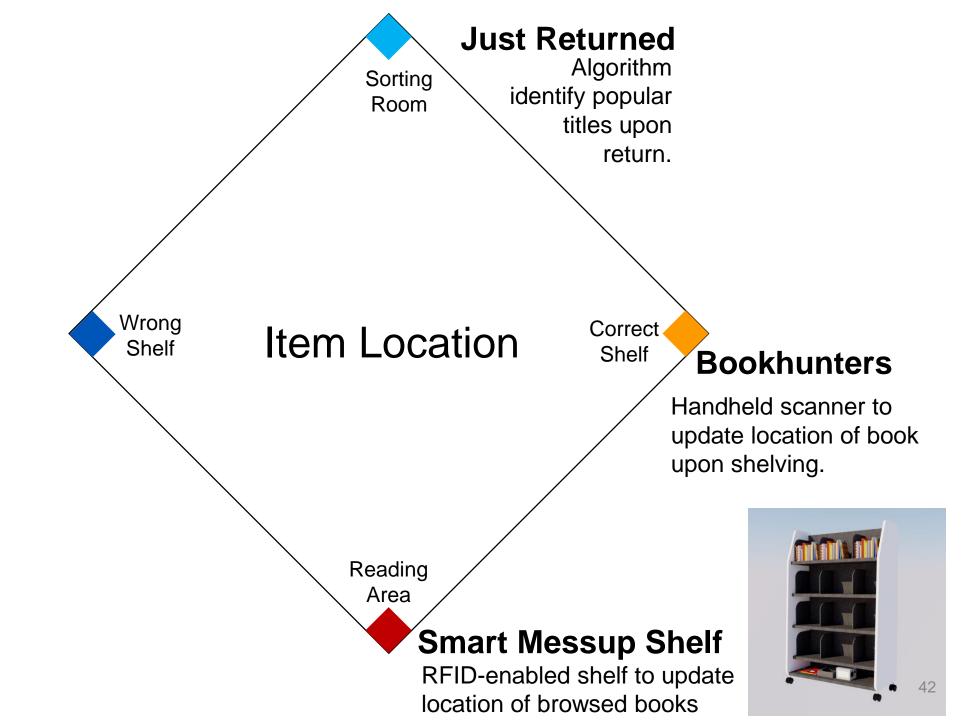
Problem: users can't locate the books they want.

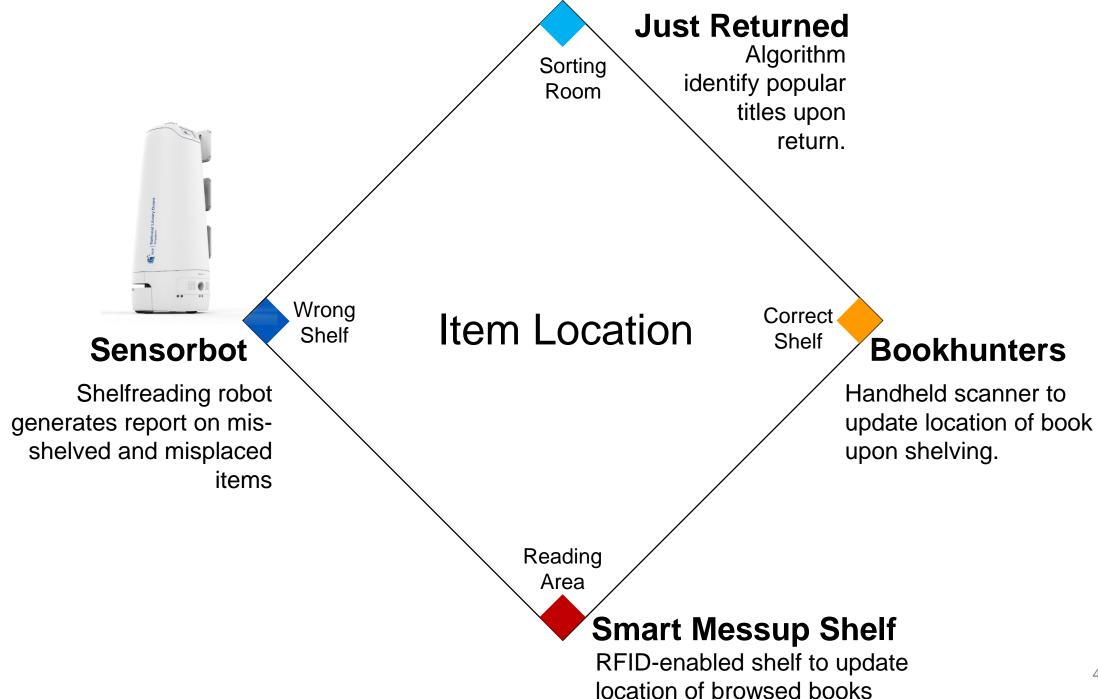


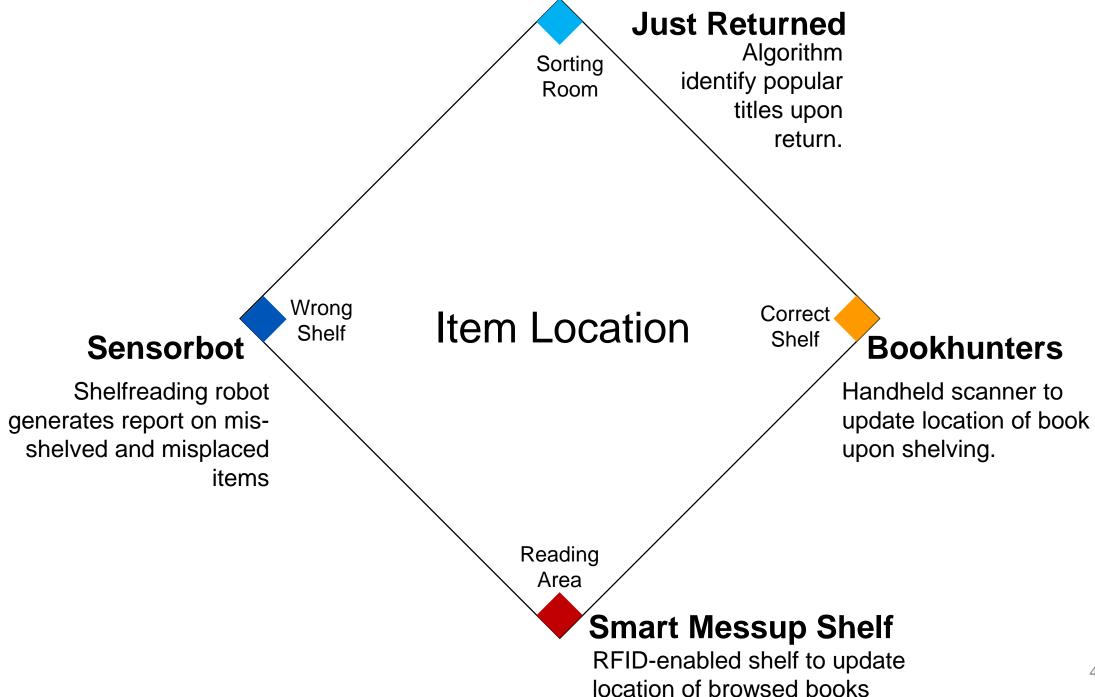












What happens if it doesn't work?



Book Hunters devices did not work as well as expected.

Review

Refine

Extract Learning Point

What happens if it doesn't work?



Just Returned Algorithm
Many rounds of tweaking to
derive secret recipe

Extract Learning Point

What happens if it doesn't work?



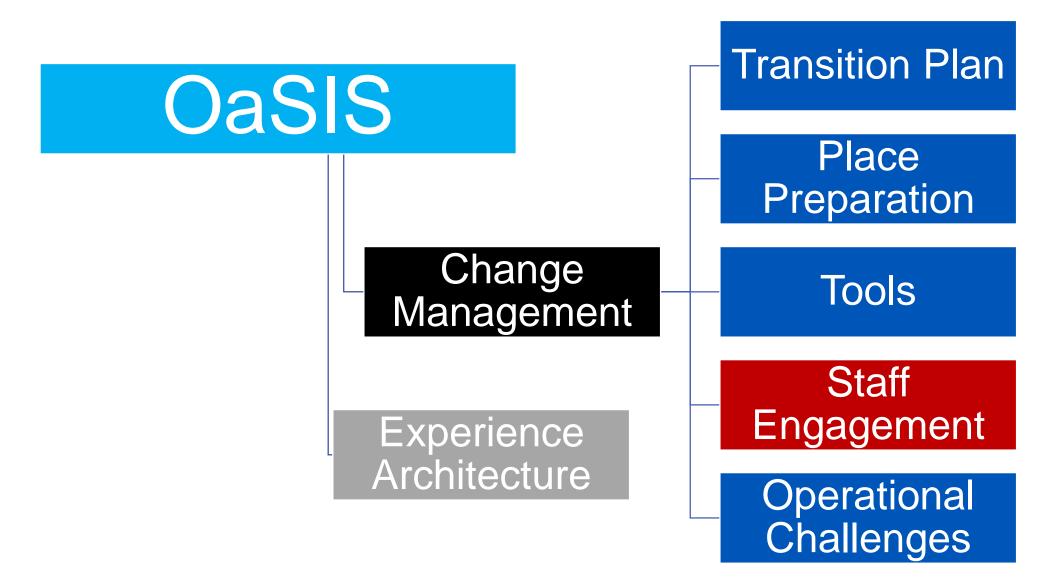
A robotic book display Emergency stop button prone to acts of mischief

Review

Refine

Extract Learning Point

How may we manage changes?



How Might You embark on your own Operations Remake?

Why remake operations?

Why remake operations? create value?

How to

Why remake operations?

How to create value?

How to take the first steps?

Why remake operations?

How to create value?

How to take the first steps?

How to turn strategy to action?



Seen from perspectives of users, staff, organization

Future trends can be a threat or opportunity

Be Future-Ready, not Future-Shocked

Innovate to optimize

Do more with less

Do exponentially more with more

Value Creation

Customer Journey

Convenient Seamless Low barriers

Organization Goals

Citizen Goodwill Increased Usage Resource Optimization

Workplace Experience

Efficiency
Redefined Scope
Empowerment

OPERATIONS REMAKE

At a glance

Outcomes



EFFICIENCY CONVENIENCE

PRODUCTIVITY

Enablers



Time To

Time To

Checkout

Information

Time to Shelf

MECHANISATION

AUTOMATION

DIGITALISATION

Indicators



QUANTITATIVE

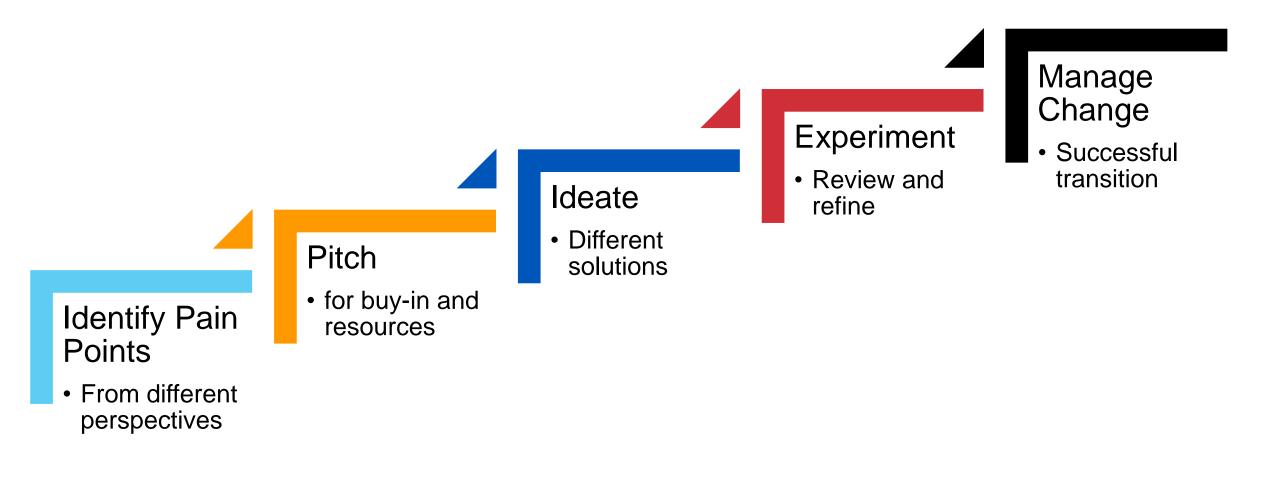
- No. of steps taken to complete task
- Amt. of time taken to complete task
- Amt. of output upon completion of task

QUALITATIVE

- Workplace Conditions (Staff)
- On-Site Experience (Customers)



Our 5-Step Action Plan



"

Innovation comes from longterm thinking and iterative execution.

Reid Hoffman, 2014



Thank you!

E: LO_WAN_NI@NLB.GOV.SG