

Using Data to Create Change in the Acute health Care Setting

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South West

Healthcare



SOUTH WEST HEALTHCARE



- Located in south west Vic
- ~3.5 hrs from Melbourne
- Warrnambool population ~34,000
- Regional catchment > 110,000 (reaches across the SA border)
- Main campus at Warrnambool, with some smaller campuses, community health centres and mental health services across the region

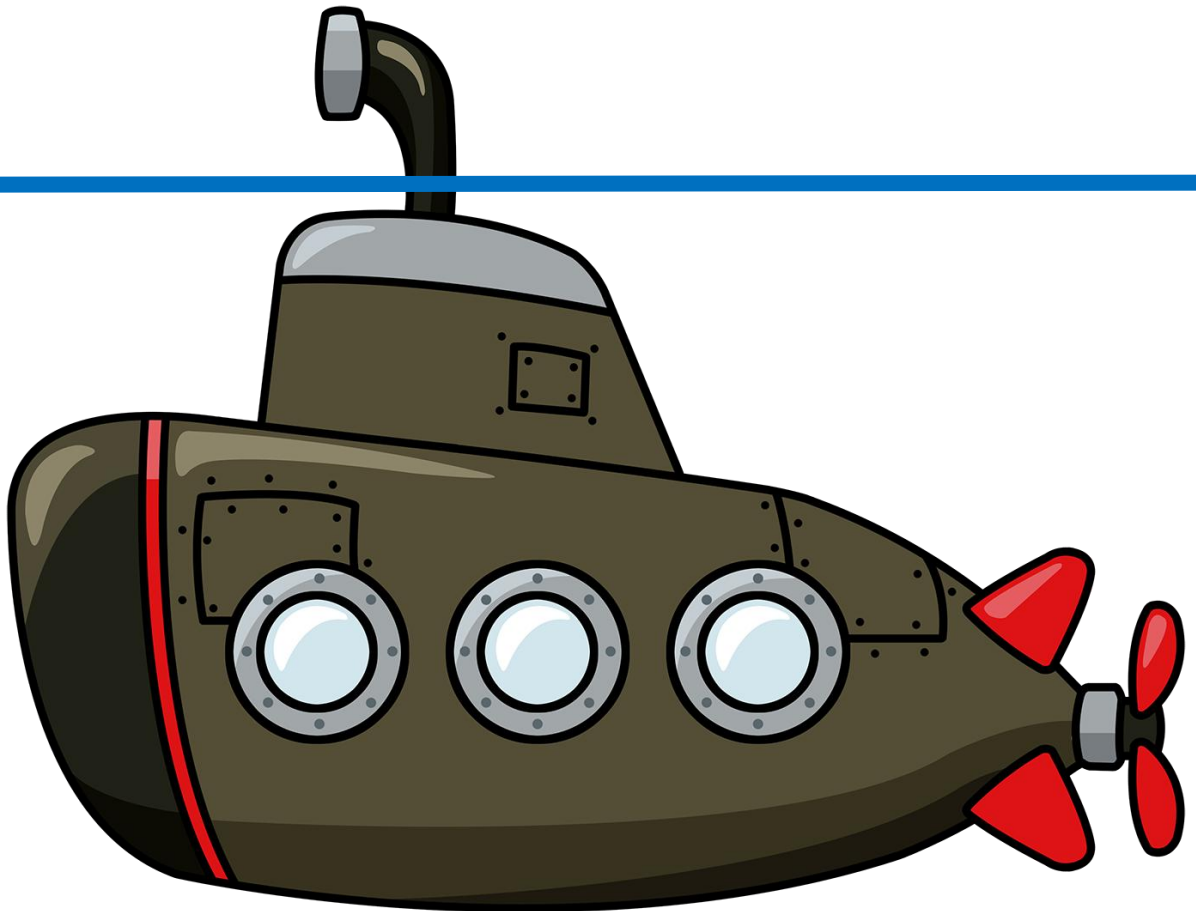


Using data to drive improvement - who sees it?

Upper Management
(periscope view)

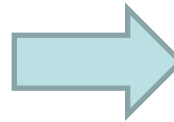
Middle Management

Coal Face



Ways to get around this

- Effective reporting at committee level
- Knowing How We are Doing Boards (KHWD) part of lean concept of making data visible.
- Data must be relevant to the area
- Beware of creating 'pretty wall paper' and not bringing meaning to anyone
- Weekly 'board walks' to discuss data, trends & progress on improvement work
- Success relies on good leader



A KPI may give a sign – but most of the issues / causes still unknown



Discovering truth

Beware the instincts of
health professionals

I Can Fix It!



I'm a NurSe!

- Band-aids can just create 'work arounds' and not address the root cause of an issue
- May need to 'hold them back a bit' to do drill down for truth

"What you want are facts, not opinions" – Florence Nightingale



Engaging people in the improvement work



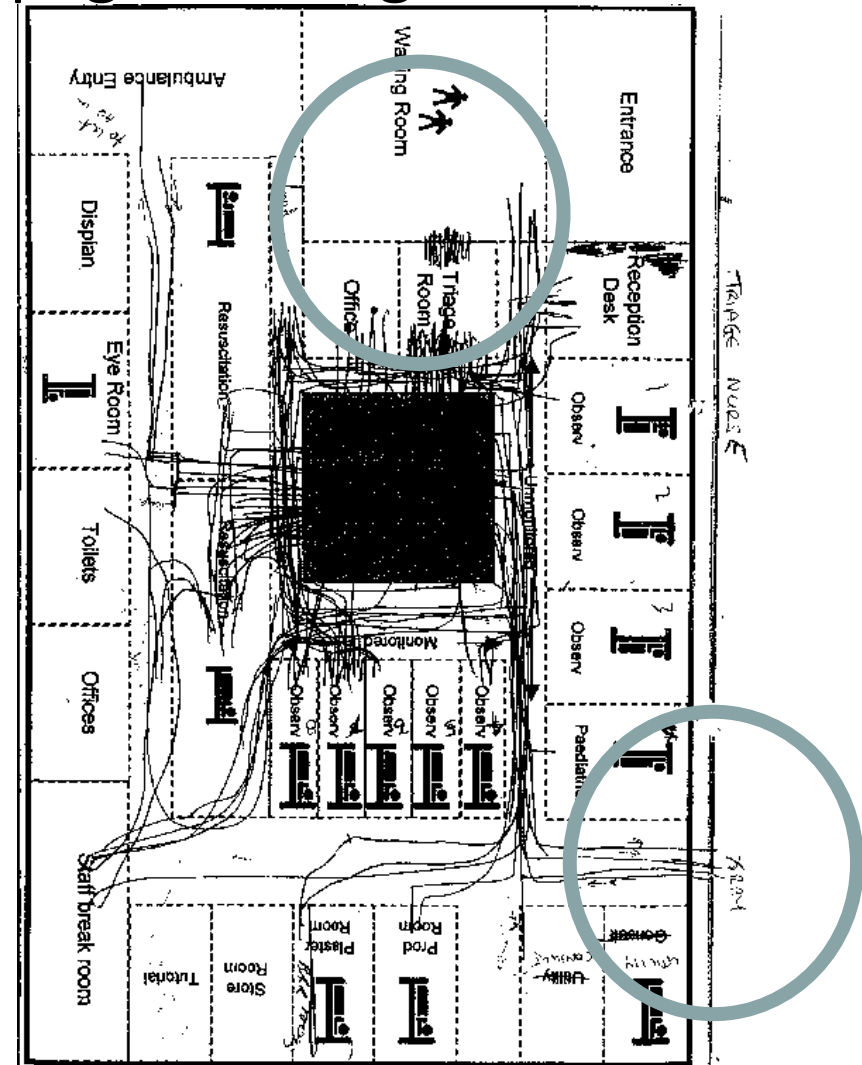
Our Challenges

- Lots of siloes in health care
- Not all staff know (or really care) if a problem elsewhere unless it directly impacts on them

Must make it real – visual is good

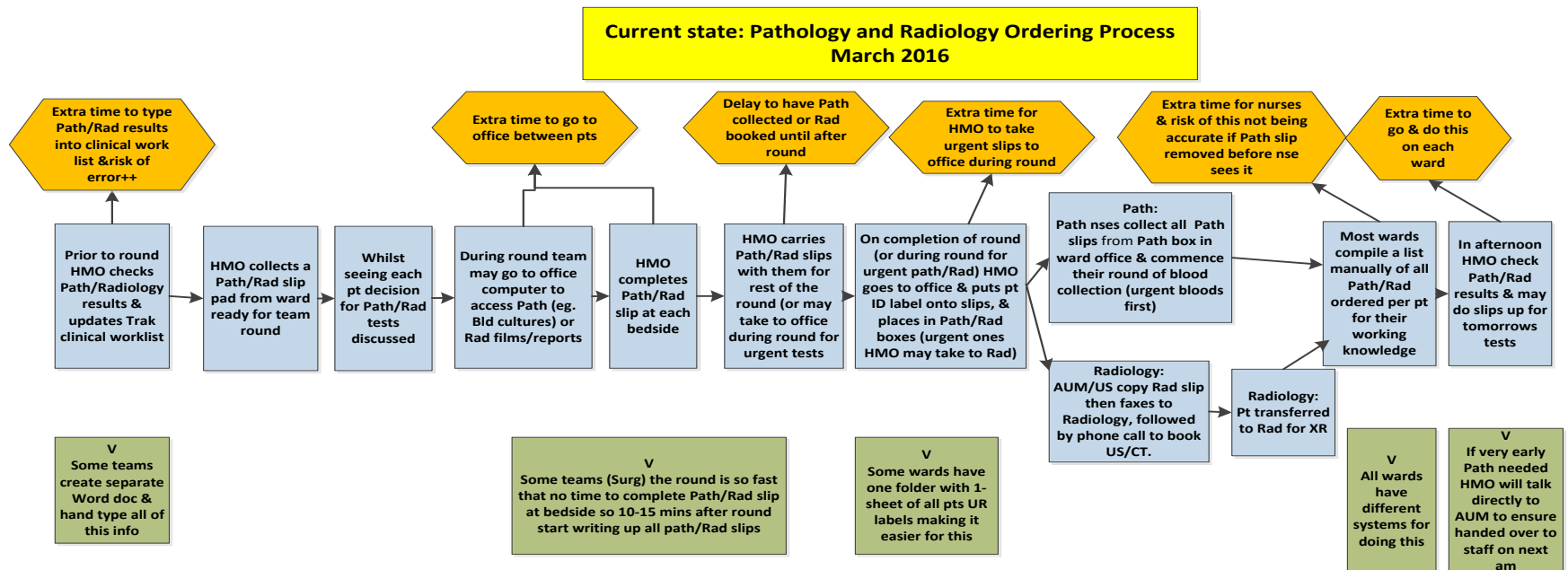
- **Earlier ED work – wait time for triage**
- Data from patient feedback indicated an issue
- Data collected on timing which showed wide variation felt by staff to not represent reality as only rare occurrences
- A spaghetti diagram of triage nurse movements helped bring on a light bulb moment to acknowledge & improve the processes
- < 5 mins wait time to triage

- Spaghetti Diagram



Process Mapping – can illuminate complexity & waste

- We are moving toward an electronic health record and felt a process map of current manual pathology & radiology ordering would assist in plans to go forward **and** provide some useful data for evaluation

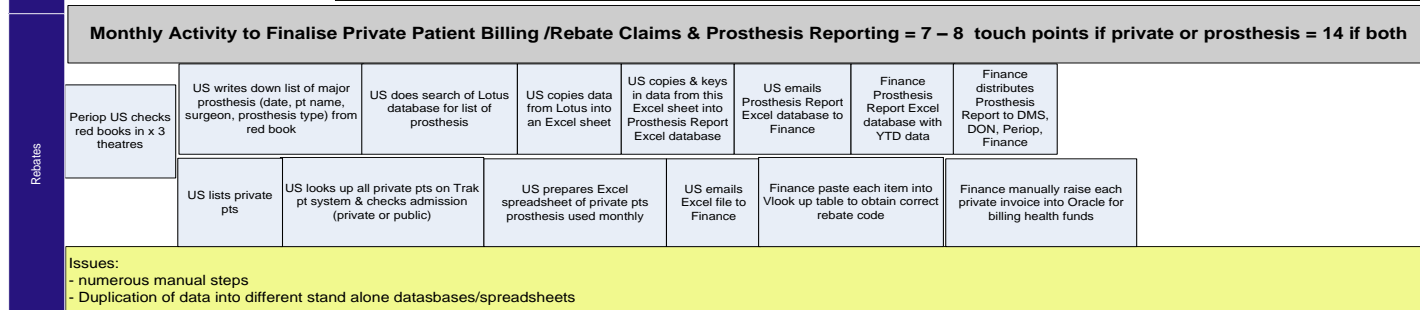
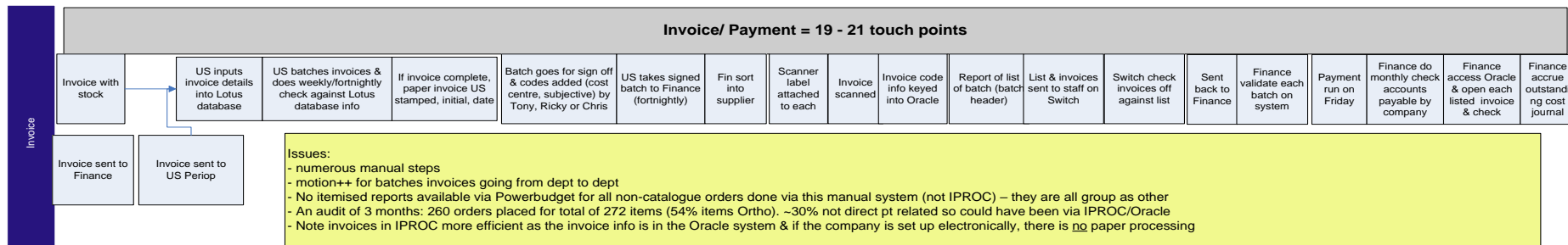
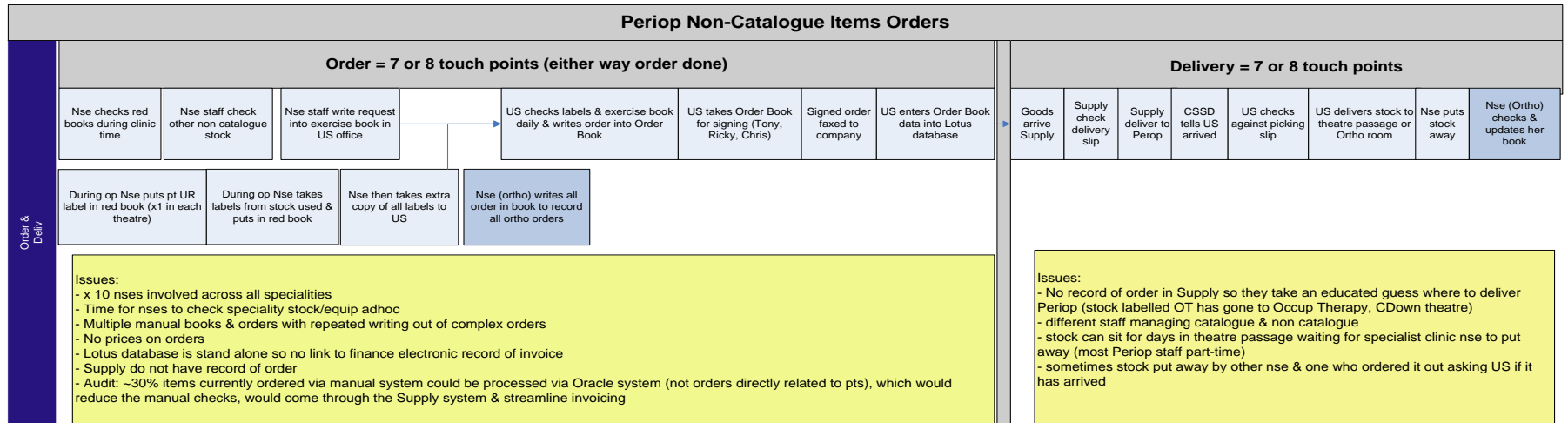


List of Current Issues:

- HMOs typing Path and Radiology results into clinical work list = **risk of error**
- Interruptions to team rounds to go to office to access & review Path/ Rad = **time waste**
- Delays to Path collection and Rad orders going in as HMO often has all slips until round completed = **delayed Path/Rad tests commenced**
- Manual & variable way list of Path/Rad ordered kept by nurses in ward = **time waste + risk of errors**
- Risk of forgetting some Path/Rad to be ordered when slips written after round completed = **risk of error**
- Ring Path between 1/ day to 1/week to chase results = **time waste**

Process Mapping can help get staff on board & improvements going

Periop Ortho work



TOTAL Touch Points for Non-Catalogue Order

- = 33 minimum
- = 51 maximum (prosthesis + private)
- = ~ 27 hrs per week (0.7 EFT)

Surely we can reduce this & release staff across multiple areas for other duties

Photos can provide good data



Screws (on loan tray)

- 0203150-30 ✓
 - 0203150-32 ✓ 32mm x 5mm Cortical
 - 0203150-30 ✓ 30mm x 5mm Cortical
 - 0203150-30 ✓ 30mm x 5mm Cortical
 - 0203150-34 ✓ 34mm x 5mm Cortical
 - 0203150-28 ✓ 28mm x 5mm Cortical
 - 0203151-12 ✓ 12mm x 5mm Unicortical
 - 0203150-30 ✓ 30mm x 5mm Cortical
 - 0203151-12 ✓ 12mm x 5mm Unicortical
- P.T.O

LOT 584001 REF 2237 02
2.5mm HEX BUTTON
G Y 1 1/2 CP 2/

REF 2237 02
2.5mm HEX BUTTON
G Y 1 1/2 CP 2/

LOT 585002 REF 2232 02
3.5mm HEX BUTTON
G Y 1 1/2 CP 2/

Multiple 9 digit numbers for screws in Ortho surgery transcribed manually for ordering

Note the PTO

From this - acceptance we had an issue and changes were made

- Addition of majority of the non catalogue orders into Oracle our electronic Supply ordering system – reduce manual orders
- This reduced losing orders and also the duplication in invoicing system
- More visual layout to identify non catalogue stock

Measure	Baseline	Post Intervention
Number of touch points in order process	51	31
% Non stock orders done manually (~1200/yr)	100%	16%
No. hrs Unit Secretary spent on non catalogue orders /week	9 hrs	4 hrs
No. hrs Periop Manager spent on non catalogue orders / week	16 hrs	5 hrs

- Halved the number of clinical incidents
- Remaining ones related to clinical staff responsibilities in checking non catalogue stock levels
- This data then used for a successful business case to appoint a part time stock & inventory person to reduce the reliance on clinical staff

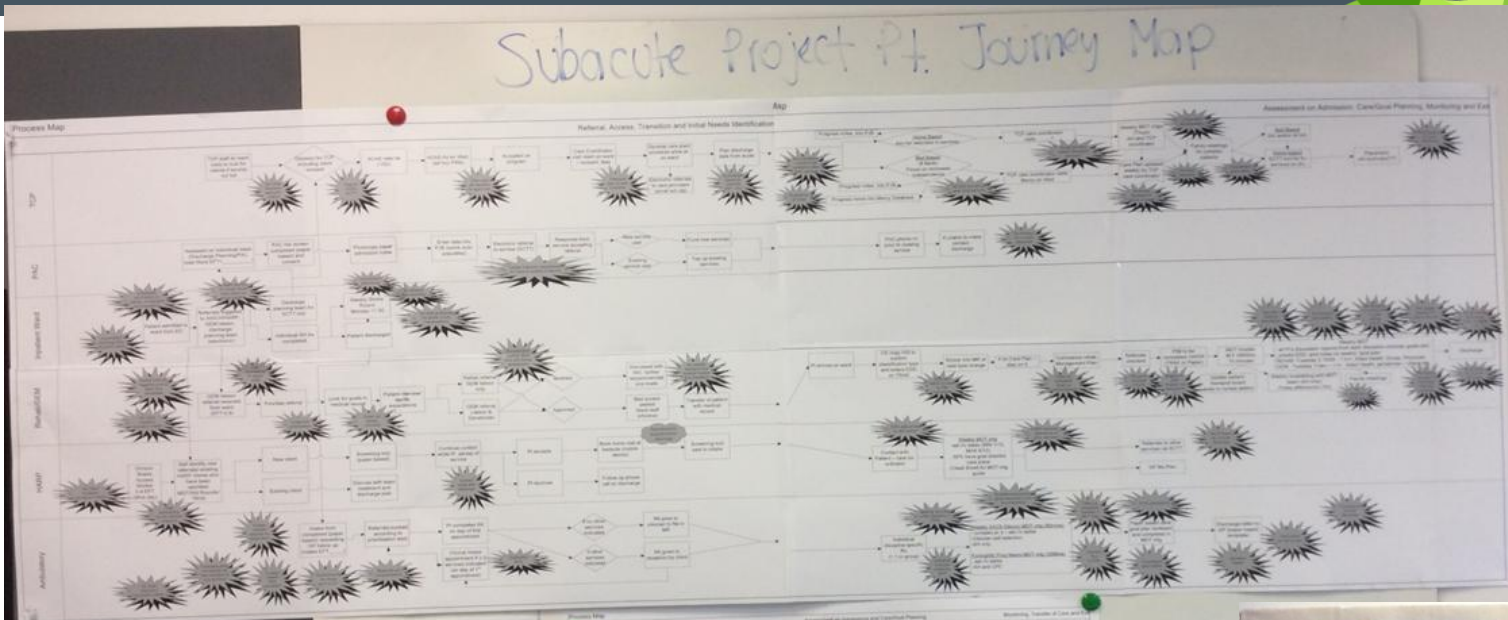
Some of the Lessons Learnt

- Data becomes valuable when it informs us of **something useful** that **matters**, until then it is noise (Few 2015)
- Keep it real to the people at the coalface - put some thought into what data and how to present it
 - Overview gives context
 - Zoom & filter to make sense of it
 - Think of best way to present it to engage staff

How 'data' was used to drive our Subacute Redesign

- What are we trying to find out?
- What are we trying to achieve?
- Who is our target audience?
- How best will the target audience be engaged?
- Data accessibility
- Any system/process barriers that need to be considered?

Ownership from the beginning



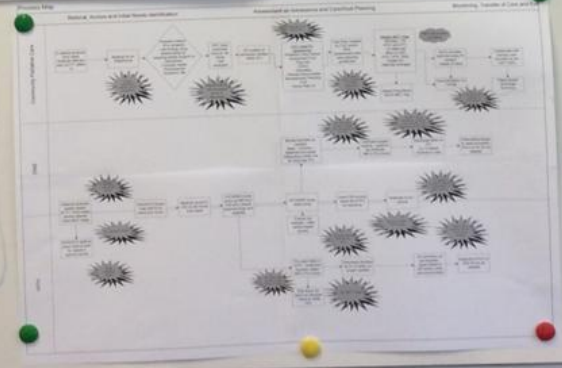
Subacute Redesign Project
Completed Patient Journey Map

Please review and make any comments by writing on the Map.

- correct any inaccuracies/omissions
- add any "open issues"
- add any processes that we may have missed

Please RMM any comments made. For the full reference & context, see the context doc attached!

Information:
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Maximum visibility: creating the conversation

All of the patient assessment documents used by the MDT team across the staff cafeteria wall!!



Power of the consumer voice

VHES

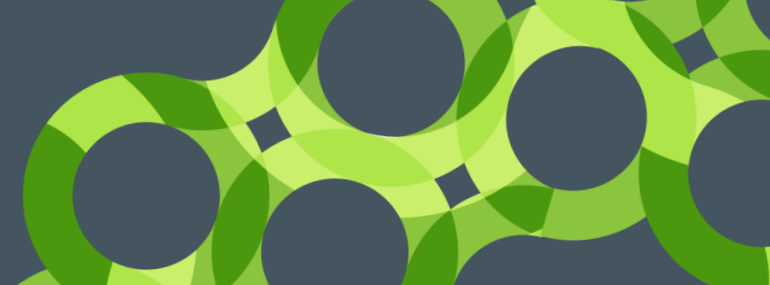
63. Were you given enough notice about when you were going to be discharged?



70. Did hospital staff take your family or home situation into account when planning your discharge?



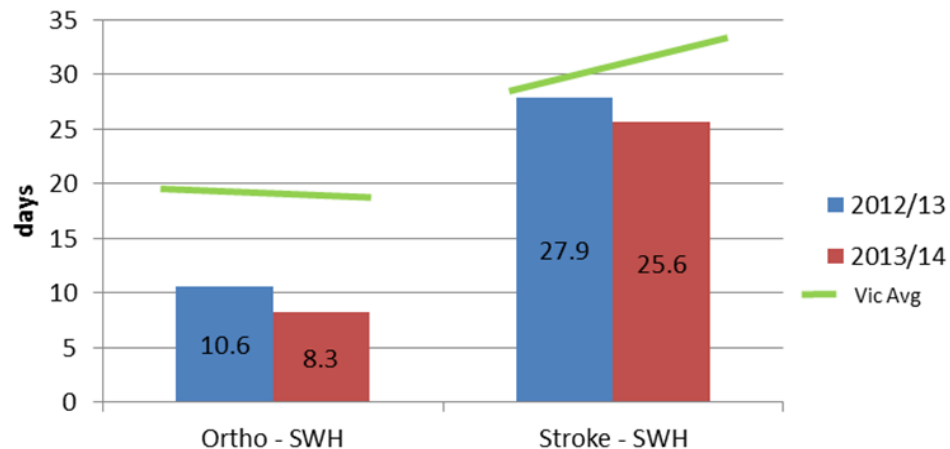
Giving meaning to numbers



**Admitted Subacute FIM score change:
SWH vs VIC for Ortho and Stroke Pt's**



**Admitted ALOS :
SWH vs VIC for Ortho and Stroke Pt's**



**Improved
patient
outcomes in a
shorter stay!**

Pictures vs numbers



BEFORE



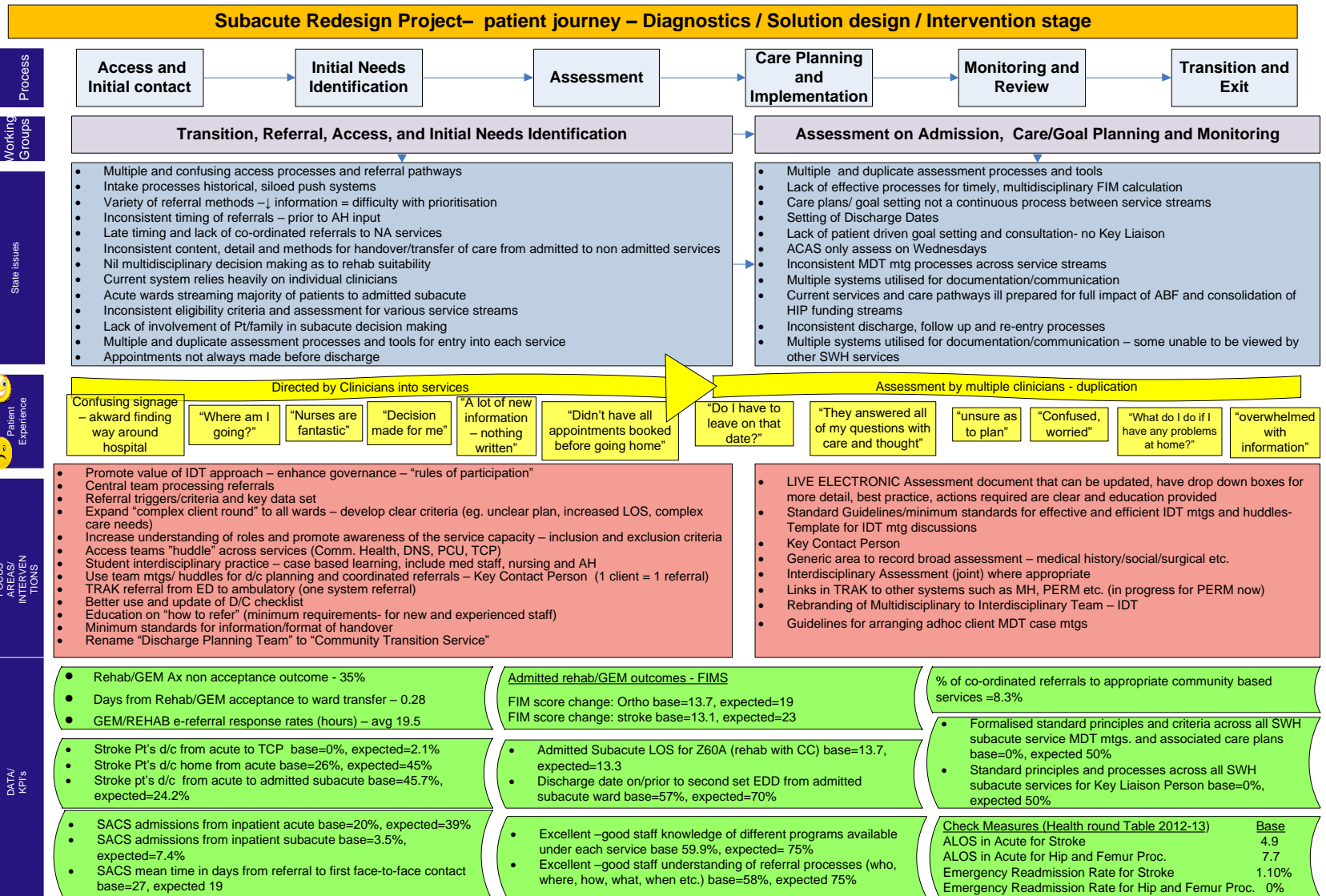
11 outstanding

NOW



3 outstanding

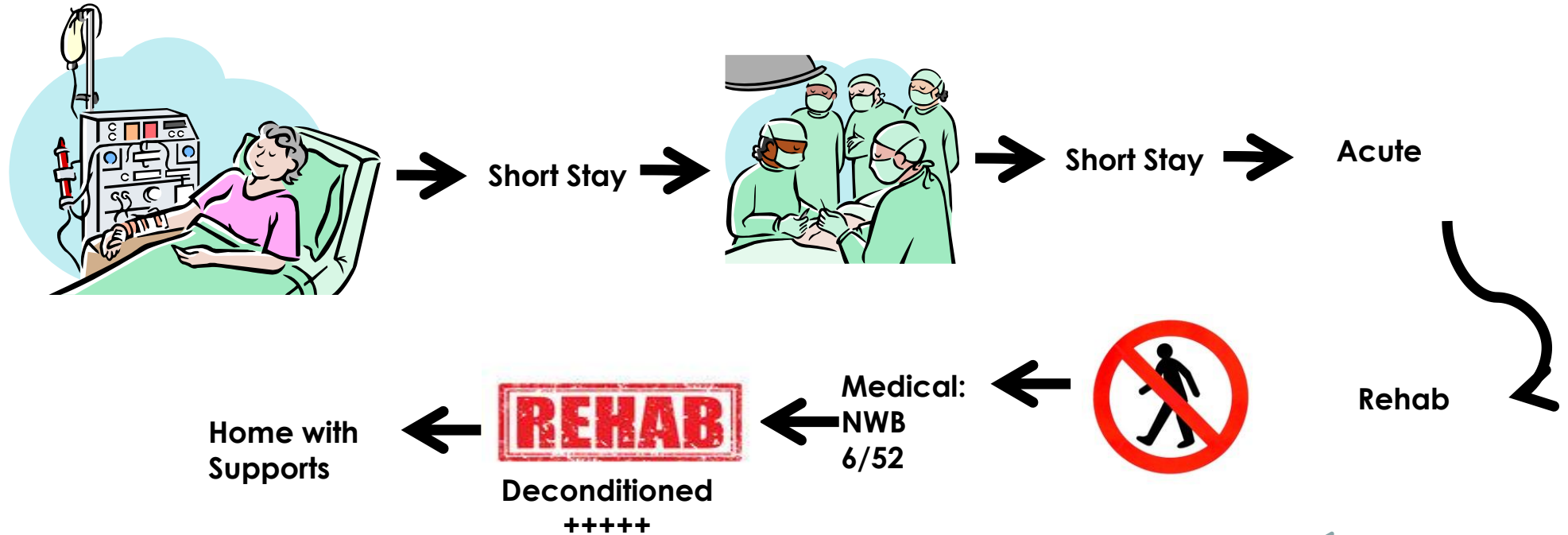
Bringing it all together



- Possible Services**
- Acute inpatient
 - Inpatient Rehabilitation
 - Inpatient GEM
 - Inpatient Palliative Care
 - SACS (centre based and home based)
 - Outpatient Allied Health
 - HARP
 - DNS
 - HITH
 - HACC
 - PAC
 - TCP
 - Community Palliative Care
 - External services

Tell a story

Example – Patient with a Hip Fracture

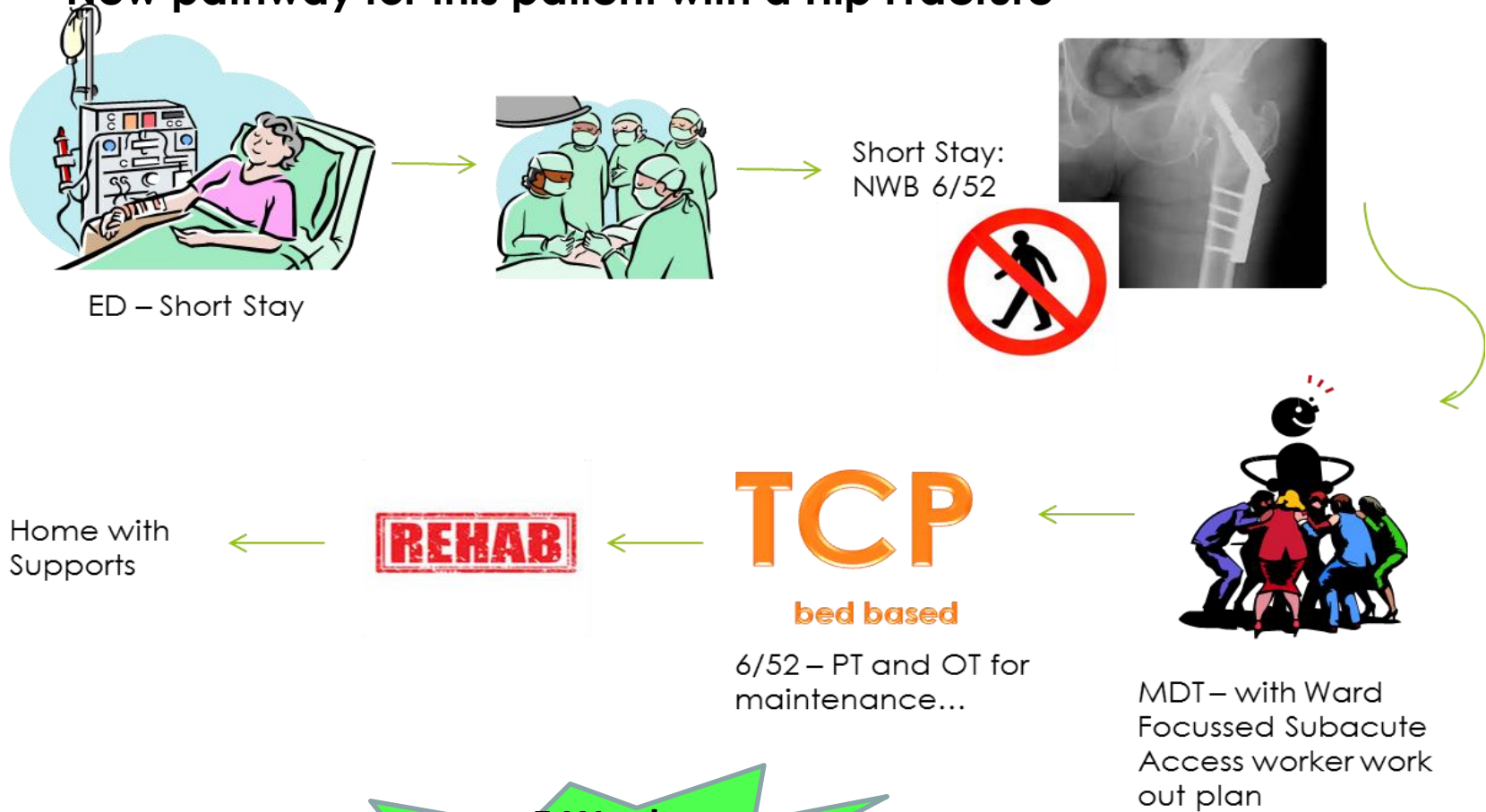


WHY?

x 8 Ward transfers before home!

Now

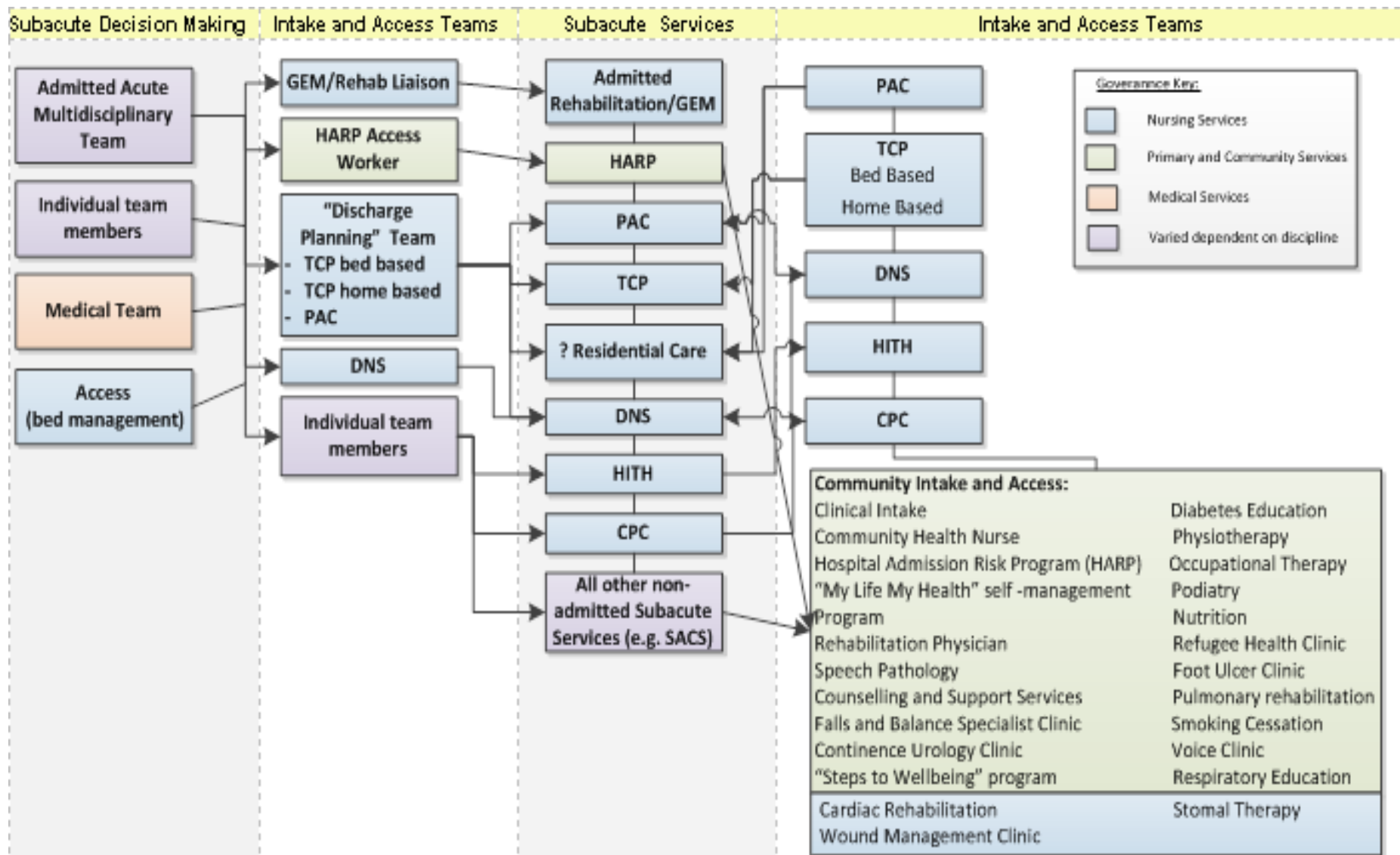
Example – New pathway for this patient with a Hip Fracture



HOW?

x 5 Ward transfers & no de-conditioning

'Non-acceptance' of the current state – organisational realignment



'Excitement' for future state



Subacute Decision Making/ Intake and Access

**Bed Based Acute
Multidisciplinary Team**

**Bed Access and
Management**

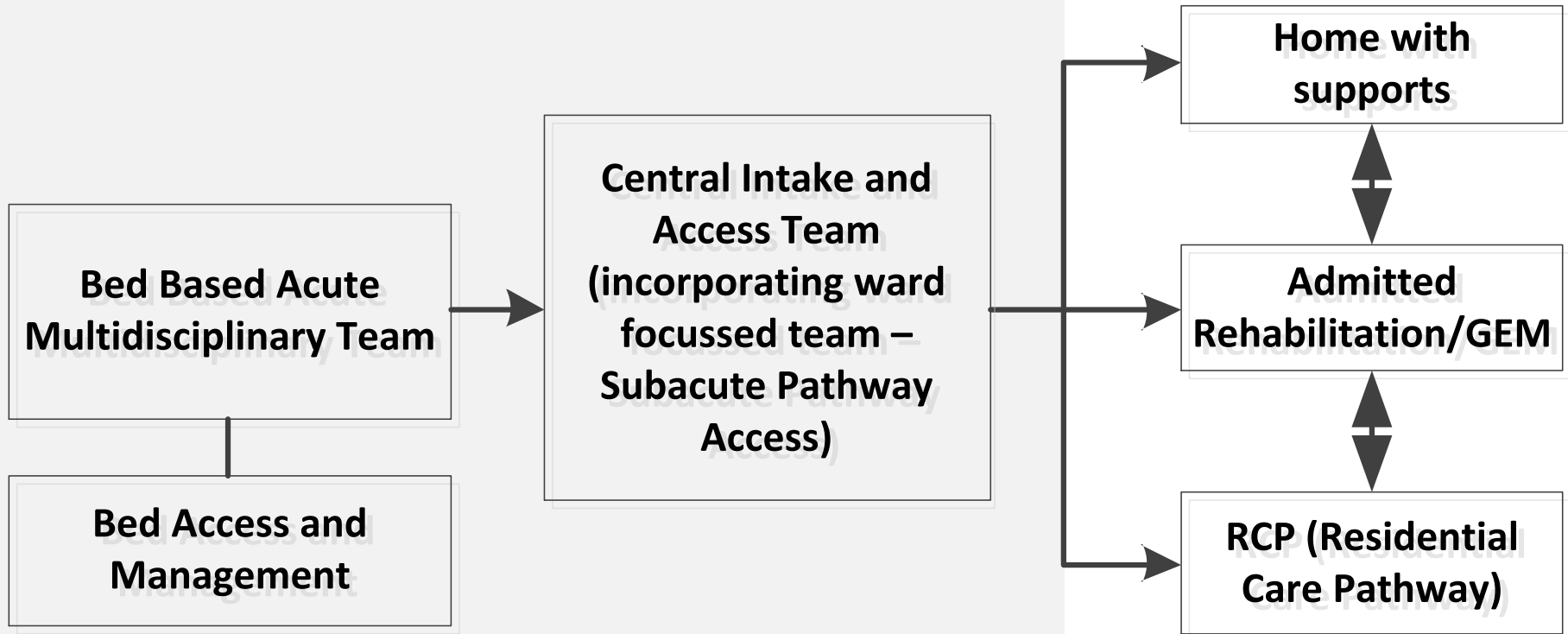
**Central Intake and
Access Team
(incorporating ward
focussed team –
Subacute Pathway
Access)**

Subacute Pathways

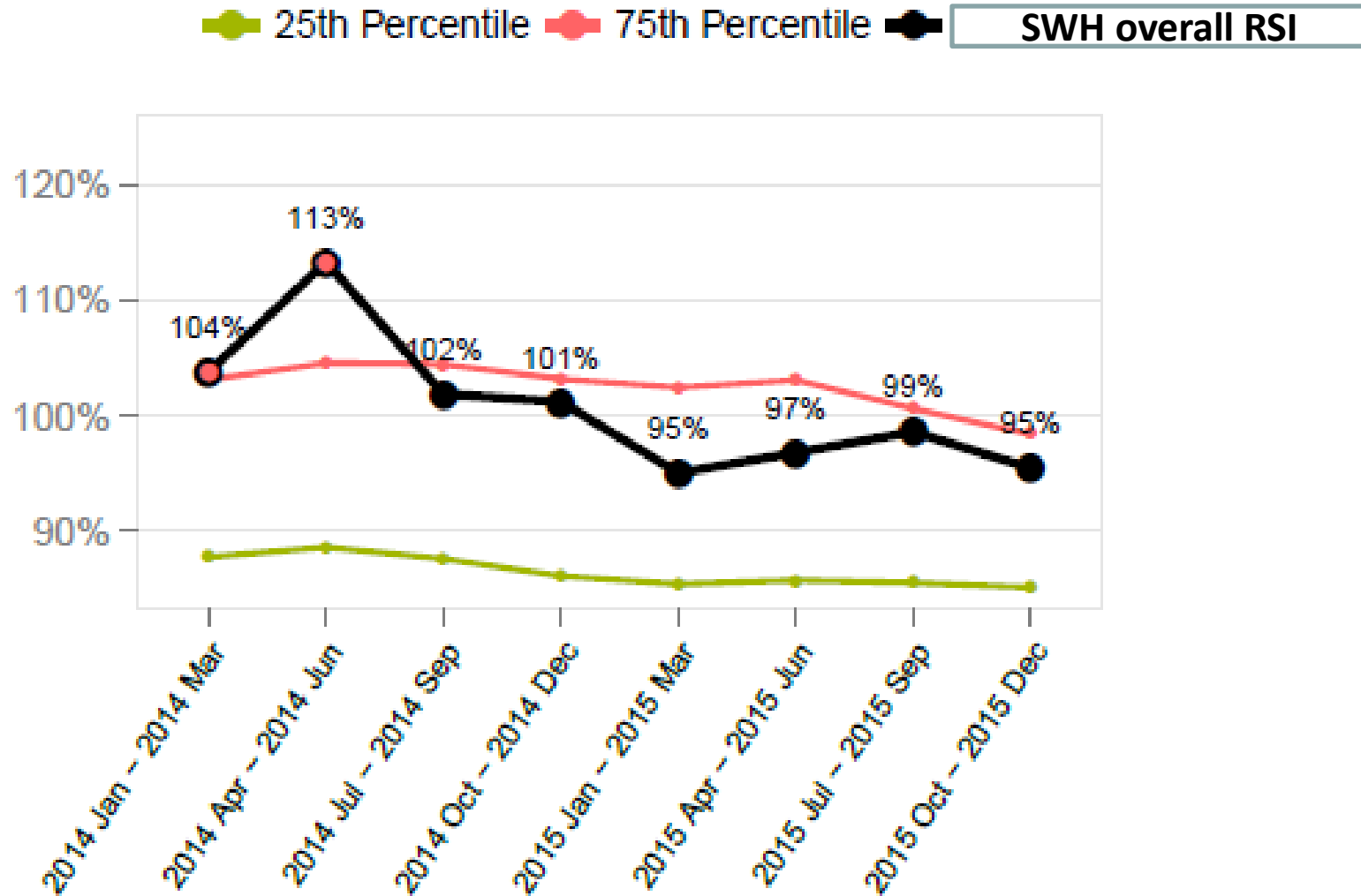
**Home with
supports**

**Admitted
Rehabilitation/GEM**

**RCP (Residential
Care Pathway)**



Has it made a difference?





**Learn from others
and be creative!**

South West
Healthcare

