GAIN SHARING TO IMPROVE HEALTH CARE DELIVERY



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AGENDA

- 1. Who are we?
- 2. Topical problems
- 3. Gain Sharing solution?
- 4. Case Study
- 5. Test Proposal



Who are we?

Principals of ProfitSharz

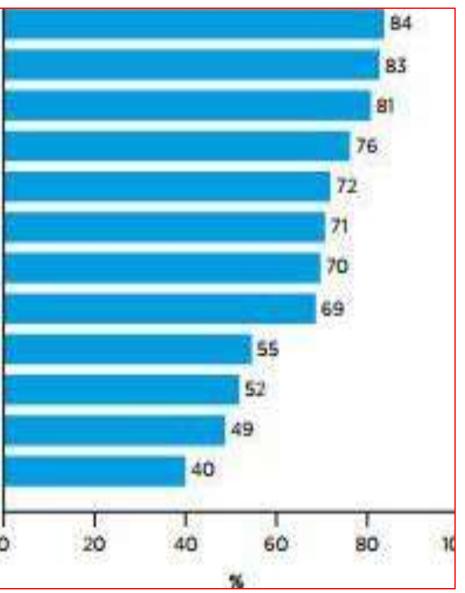
Stuart McGill MA LLB PhD (Econ)

- Economist, digital marketing, productivity focus
- Health, environmental & management experience
- Combining gain sharing, social design, gamification
- Ed Kazmierczak BSc (Hons) PhD (Science)
 - Software Engineering, Melbourne Uni
 - Safety critical systems background
 - Health tech in regional environments



Despite the best efforts of all, there is much to be addressed

Key health concerns of Australian public

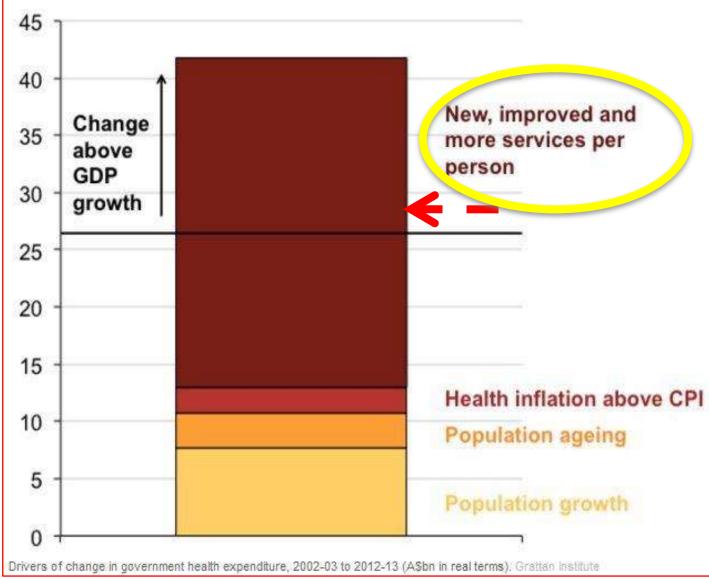


Shortage of available hospital beds Waiting times in emergency departments Lack of funding for healthcare by Government Shortage of nurses Shortage of doctors Direct costs you have to pay after you see the dentist Waiting times to see a specialist Waiting times to have a procedure in hospital Direct costs you have to pay after you see the GP Difficulty getting an appointment to see a GP Quality of aftercare following an operation Access to allied health professionals.

Hospital expenditure – Australia

- Public hospitals spent \$40B in 2011–12.
- After inflation, increased 5.9% each yr from 2007–08 to 2011–12

Factors driving accelerating cost



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- No. of patient days (demand) up
- Up 1.8% between 2011-12 and 2007-08
- Up 1.3% between 2011-12 and 2010-11

Vic patient days					
	<u>FY 8</u>	<u>FY 9</u>	<u>FY 10</u>	<u>FY 11</u>	<u>FY 12</u>
Public – Pt days	4,427,962	4,499,508	4,606,599	4,722,672	4,782,281
Private – Pt days	2,091,331	2,060,800	2,235,086	2,166,659	2,261,615

Vic surgical wait decreasing, but significant					
	<u>FY 8</u>	<u>FY 9</u>	<u>FY 10</u>	<u>FY 11</u>	<u>FY 12</u>
Days waited @ 50 th percentile	32	31	35	36	36
Days waited @ 90 th percentile	220	221	196	181	189
More than 365 days	3.6	2.9	2.8	2.5	2.4



Nearly half of hospital infections 'avoidable'

Medication error costs Victorians approx \$200M per yr

Medication Errors: The facts

- Most common type of error to occur
- Potentially serious and harmful consequences.
 - Over 1.5 million Australians experience an adverse effect from medications each year costing ~ \$660 million
- 2-3% of all admissions have an adverse medication event
- Paediatrics has a high error rate reported globally
 - 3 x times more likely to result in harm



4,782,281

98.0%

High bed use drives ramping 85% recommended to prevent ramping

2011/12:

Bed utilisation of Vic public hosp beds

Total patient day

Patient Days available in beds

Capacity utilisation

* Possibly small over estimate due to rounding

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2014 target in Victorian EDs: 81% depart in 4 hrs?

State and territory National Emergency Access Targets: percentage of all patients Table 4: departing ED within four hours, 2012-2015

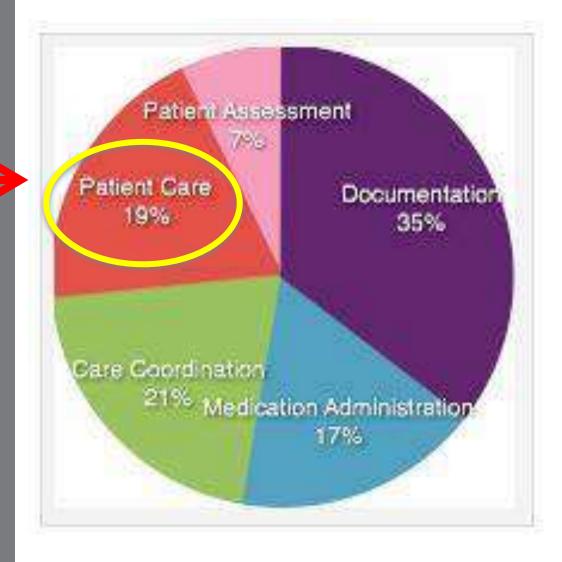
	State and territory viational Emergency Access Targets (%)			
	2012	2013	2014	2015
New South Wales	69%	76%	83%	90%
Victoria*	70%	75%	81%	90%
Queensland	70%	77%	83%	90%
Western Australia	76%	81%	85%	90%
South Australia	67%	75%	82%	90%
Tasmania	72%	78%	84%	90%
Australian Capital Territory	64%	73%	81%	90%
Northern Territory*	69%	75%	83%	90%

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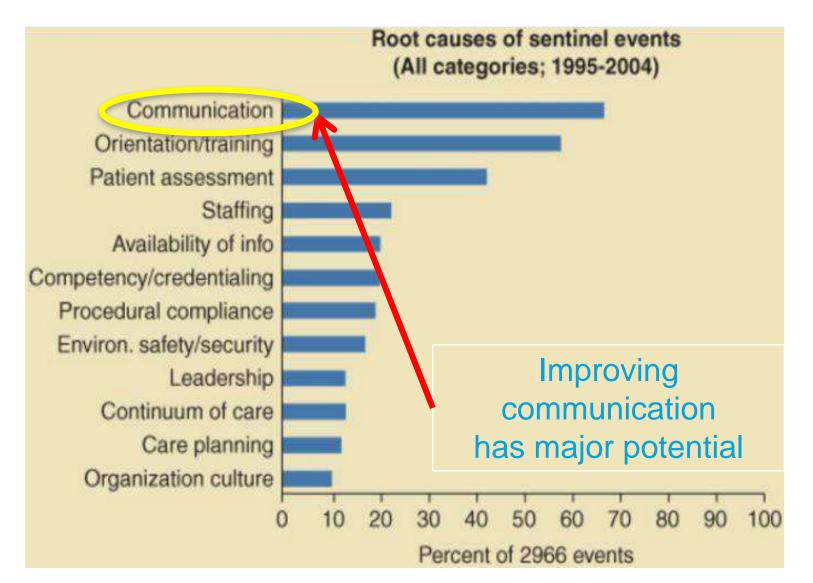
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Even 2013 target a challenge at best?

Nurse time: more productivity can leave more time for patient care



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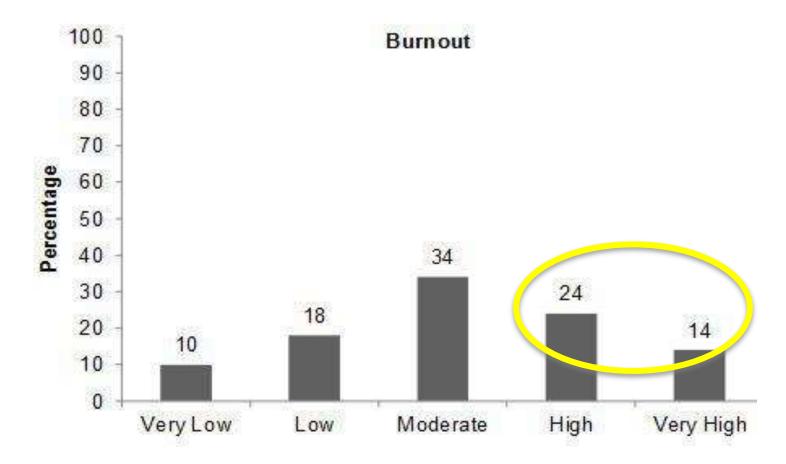


Culture & communication: 60% of nurse don't report near misses GE survey of nurses in 3 developed countries





Nurse burnout is high (40%) Monash University major study



Stress is biggest reasons nurses leave

Reasons for planning to leave nursing	Frequency	Examples from the text
Stress & work pressure	43 (93%)	"A once great and satisfying job has become unrewarding and too demanding." (ID:92)
Dissatisfaction with pay	39 (85%)	"We don't get paid enough for the stress and work we do." (ID:346)
Work/family conflict	36 (78%)	"I have burnt out due to shift work especially enforced night shifttoo tough on me and my family." (ID:342)
An ineffective unit manager	24 (52%)	"the final straw a unit manager with less experience than me telling me how to do my job and not even making sure we have the equipment and resources to do it". (ID:211)
Lack of a Career Pathway	9 (20%)	"more responsibility comes with post grad specialties, but virtually no chance of moving up the career ladder goes with that." (ID:284)
Bullying and harassment	5 (11%)	"there is serious horizontal violence and cattiness in nursing, lateral bullying that goes on and I'm completely sick of dealing with it." (ID:208)

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Vic hospitals financial results

Auditor General Data

Combined financial results...

operating deficit:

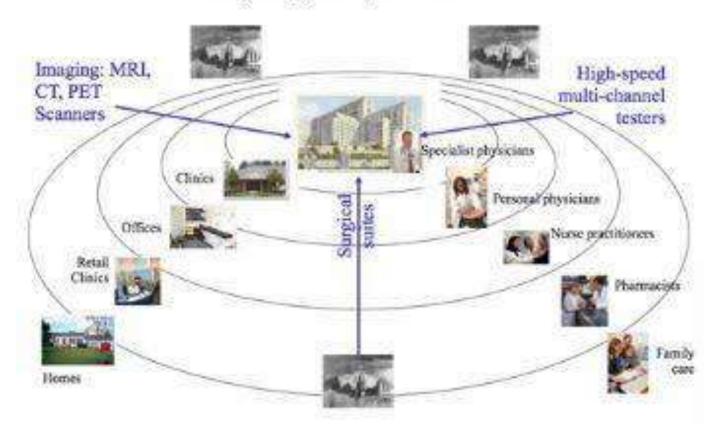
■2011–12 :\$43 M

■2010–11: \$102 M

Net Assets \$7B

Insufficient funds for health tech potential

The decentralization that follows centralization is only beginning in healthcare

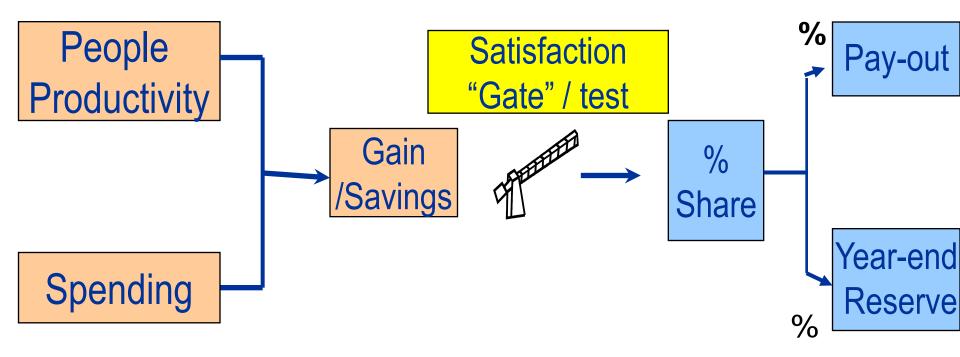


Sum of some key problems or "pain" points

- Accelerating costs
- Ramping
- Surgical wait times
- Hospital acquired infections
- Medical errors
- Nurse turnover

GAIN SHARING

Gain Sharing can be part of the solution



Building productivity, communication, satisfaction

Definition

A <u>system</u> or <u>philosophy</u> of management that promotes higher levels of organisational performance

- through the involvement and participation of <u>its</u> <u>people</u>.
- depending on performance, <u>the group</u> <u>share</u> financially in the gain.

People at coalface have good ideas

- Performance improvement suggestions
- Empower decisions
- Involvement Team responsible for:
 - Soliciting Ideas
 - Reviewing and Investigating ideas
 - Approving or declining ideas
 - Implementing and following through
 - Providing timely feedback

Fosters "Owner" thinking

Owner



Would you act differently if you owned your area?

Renter



Employers

Distribution



<u>Gamified Tools:</u> 1. Calculate scenarios. 2. Agree targets / \$ splits. 3. Generate improvements. 4. Track progress. + training

Employee eGroups

Key elements of gain sharing

- 1. Goals
- 2. Rules
- 3. Autonomy
- 4. Feedback

GRAF

Why it works

Unique mix of:

- Proven gain sharing <u>concept</u>
- "Crowd sourced" <u>suggestions</u> by team
- Gamification & income incentives
- Positive <u>psych</u> advances re motivation
- <u>Social media</u> interaction

Separate to any collective agreement

- Complements what any union does
- If union wishes, <u>involve</u> it
- Separate from any collective agreement
- Is based on commercial <u>contract law</u>, not IR law

CASE STUDY

Hackensack UMC, NJ

- 775-bed nonprofit, research & teaching hospital
- Employs 8,000+
- 1,600 physicians







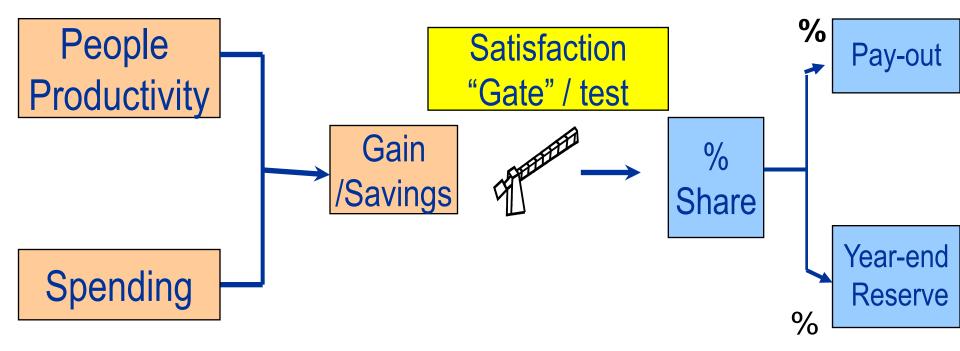


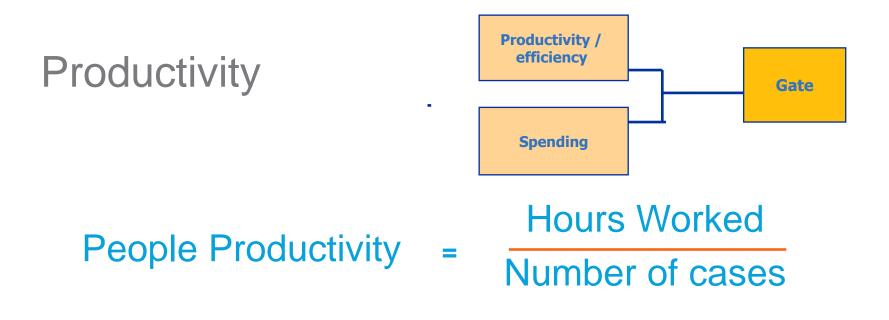
Robert Masternak as advisor

- 25 years
 experience with gain sharing
- Blue & white collar experience
- Advises
 ProfitSharz

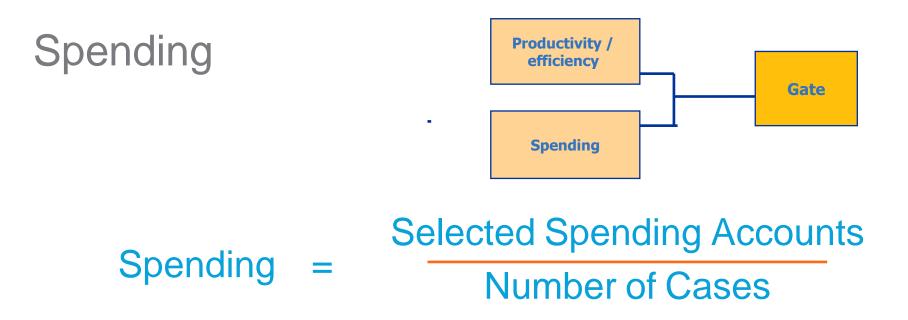


Gain Sharing solution





- Hours Worked:
 - ✓ All hours worked that are charged to CAS unit
 - Excludes time paid but not worked (i.e. PTO)
- Cases:
 - ✓ All the cases completed in CAS regardless of length of time or cost per case.

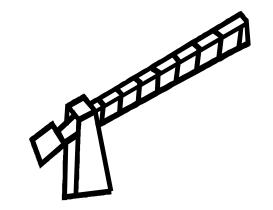


Spending sub accounts include:

- ✓ Medical Surgical Patient Charged
- ✓ Medical Surgical Items Non-Charged
- ✓ General Supplies

"Gate" of patient satisfaction

In this case, 35% of gain is shared with employees provided the "gate" of Patient Satisfaction is met.



Monthly Staff Meeting

 Administrative Director conducts monthly "allhands" <u>meetings</u> to review:

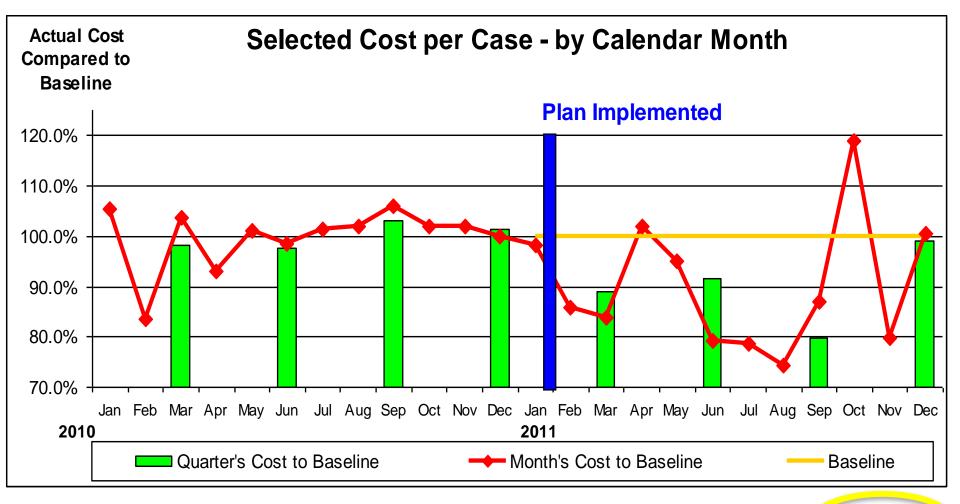
✓Quarter-to-date <u>results</u>

✓ Specifics of cost accounts

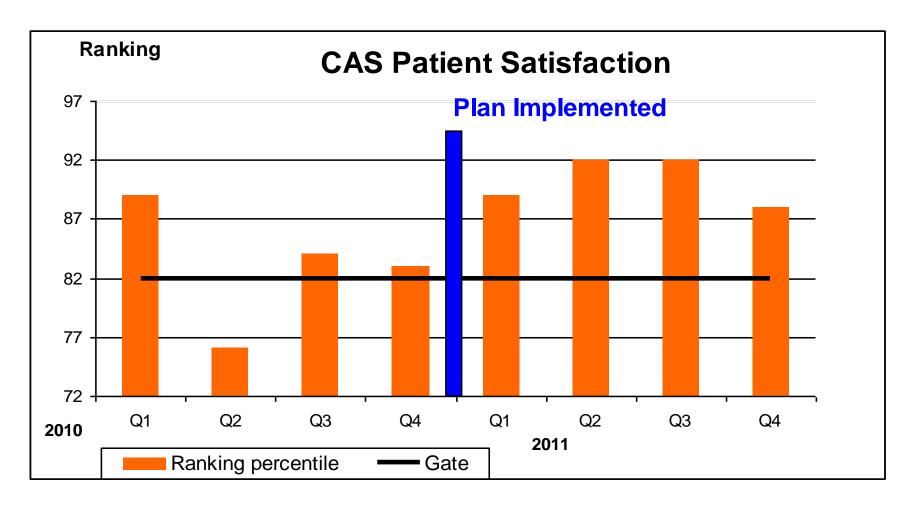
✓<u>Status</u> of cost savings ideas

✓ Details of patient satisfaction results

First Year - Spending per Case



- Spending per Case Reduced by 10.8%
- Spending Gain = \$6,400 per FTE



- 2010 Percentile Ranking = 83
- 2011 Percentile Ranking = 89

Scale:

1 = S	trong	ly disag	gree	2 = D	Disagree
	3				
	-	_	• •	-	

4 = Agree 5 = Strongly agree

Teamwork & Cooperation

People from different departments within CAS cooperate to get the job done.

Communication

Communications between departments within CAS are good.

I'm getting the information I need to do a good job.

Communications between my supervisor and myself are good.

Identity & Ownership

I understand the CAS unit's overall goals and objectives.

I feel that my goals and the goals of the CAS unit are pretty much the same.

<u>Trust</u>

I trust management here.

	Jan	%				
Oct 2010	2012	Improvement				
3.75	4.29	15%				
3.64	4.12	13%				
5.04	4.12	1378				
4.07	4.35	7%				
4.29	4.47	4%				
4.23	4.47	4 /8				
4.42	4.50	2%				
4.20	4.56	9%				
4.20	4.50	370				
	1.10	00/				
3.93	4.18	6%				

Project Time Line

			Elapse time by step													
		2010)								2011					2012
	Step	Mar	Apr	May Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May —	→ Jan
1	HR Executive Broad Authorization of Pilot															
2	Calculation Development															
3	Executive Approval															
4	Awareness sessions															
5	5 Design Team mobilization															
6	Kick off															
7	Training															
8	Involvement Team meetings															
9	1st Quarters result's															
10	1st Payout															
11	1st Quarter's Staff meeting															
12	Follow up Monitoring Survey															
13	Design Team's Annual Review Meeting															
14	2nd Plan year															

Hackensack Hospital – 2012 Results Summary

Gainshairng Savings and payout for 2012 Plan Year											
<u>Unit</u>	Plan Effective	Number of FTEs	Primary N People Productivity	Aeasures Spending	Patient Satisfaction Gate Open/Closed	Payout per FTE *	Total Gair	Total Gain per FTE			
CAS	Feb 2011	118	0.2%	10.5%	Open	\$2,157	\$727,082	\$6,162			
NICU	Jan 2012	84	7.0%	14.0%	Open	\$3,248	\$781,908	\$9,308			
PEDS ER	Jan 2012	56	3.7%	5.6%	Open	\$965	<u>\$98,984</u>	<u>\$1,768</u>			
						Total	\$1,607,974	\$6,232			

Revenue gain potential

 Due to more efficiencies & less complications, more:
 patients
 procedures

Higher value procedures due to more turnover

Summary of how gain sharing can help

- 1. Lower <u>costs</u>
- 2. Higher <u>revenue</u>
- 3. Reduce <u>nurse turnover</u> (@\$100K plus each)
- 4. More <u>collaborative management structures</u>
- 5. More focus on errors & infections
- 6. Lower surgical <u>wait & ramping</u>
- 7. Facilitate / fund useful health tech
- 8. Funds for more beds & health professionals
- 9. Higher patient satisfaction

PROPOSAL FOR TEST

Proposal to test gain sharing

Hospital trial:

- <u>Large metropolitan</u>
 <u>hospital</u> single dept.
- <u>Rural hospital</u> with remote communities
- Other options could be either <u>aged care</u> or <u>home</u> <u>care</u> (EG RDNS)
- 24 month trial:
 - Give it time to work



Implementation steps Similar to case study

- <u>Consult</u> staff via workshops
- Provide <u>training</u> as necessary
- Assist with <u>performance indicators</u>
- Baseline on current performance
- Initiate trial
- Gather data monthly and summarise quarterly

Online tools for rollout

- 1. Our online tools customised to enable lower cost rollout after trial/s
- 2. Consistent data collection on productivity
- 3. Helping people do it <u>themselves</u>

WE SEEK:

- 1. **Funding** for **the training** in the trials
- 2. <u>Endorsement</u> to have discussions with likely sites

