

How to Develop A3 Problem Solving Capability

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Introductions

Andy Glyde



Internal Audit & Risk manager

Head of Operations Support





Geographic Information System (GIS) Manager





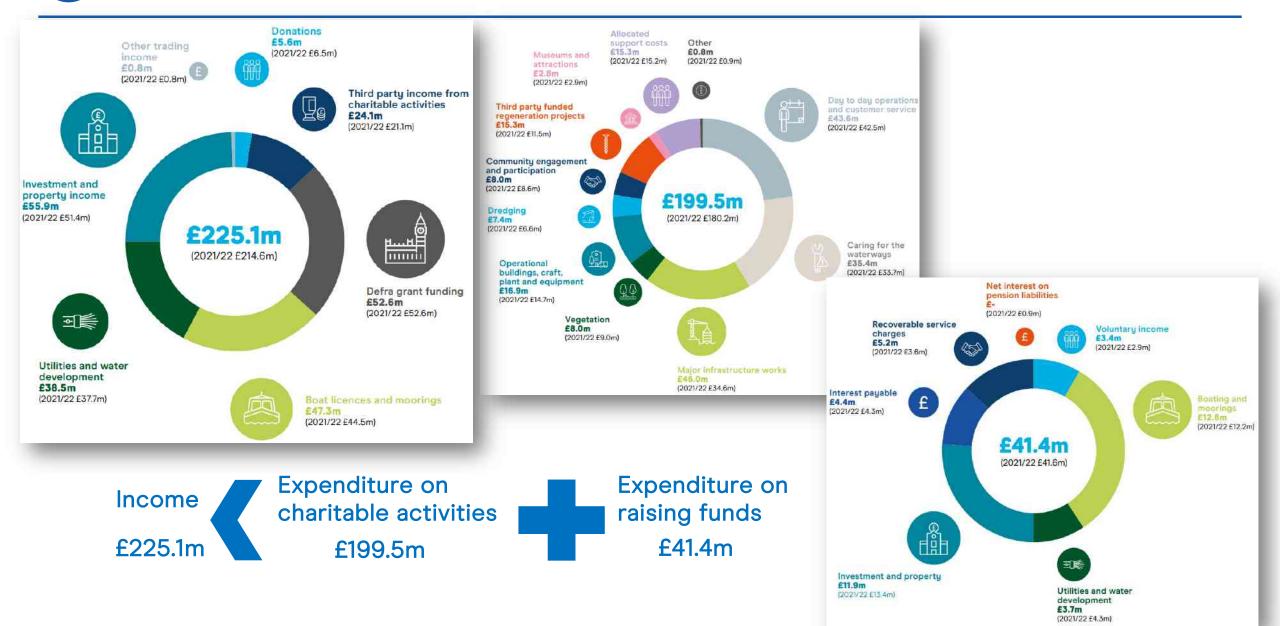
- Who are the Canal & River Trust
- What problems do we have to solve
- Working with LEA
- Being taught to fish
- Doing some fishing
- Exercise: Continuous Improvement What a load of rubbish
- Teaching others
- What do our people think
- Where are we headed



Who are the Canal & River Trust



What problems do we have to solve?



Canal & River Trust

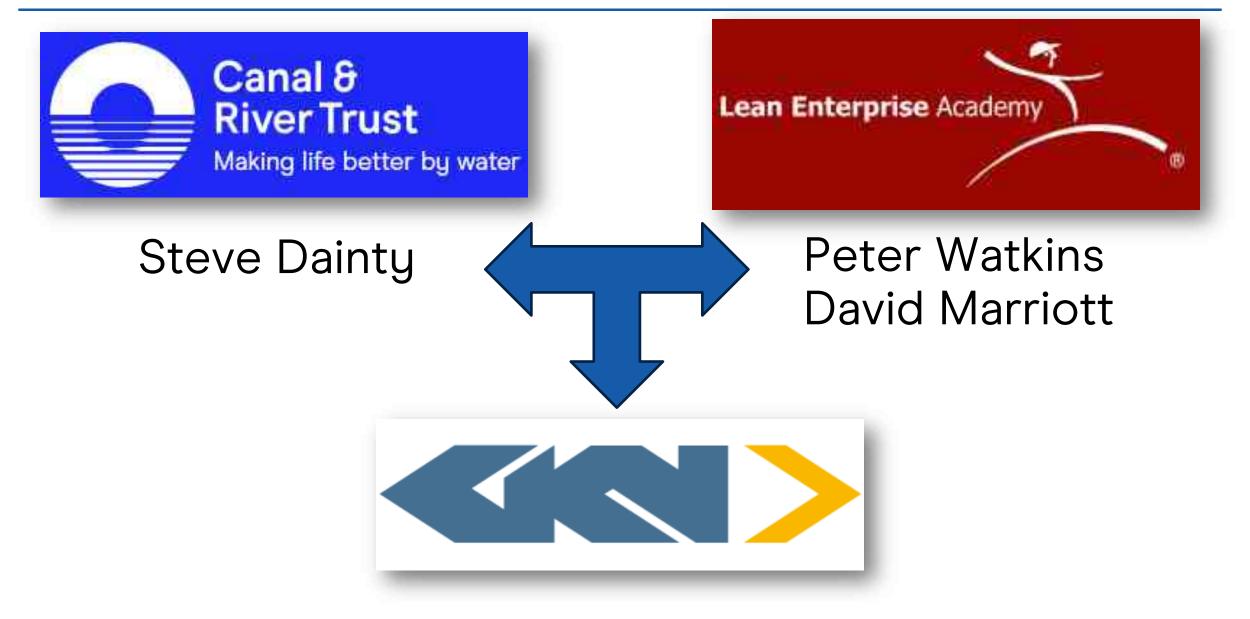
What problems do we have to solve?



Canal & River Trust

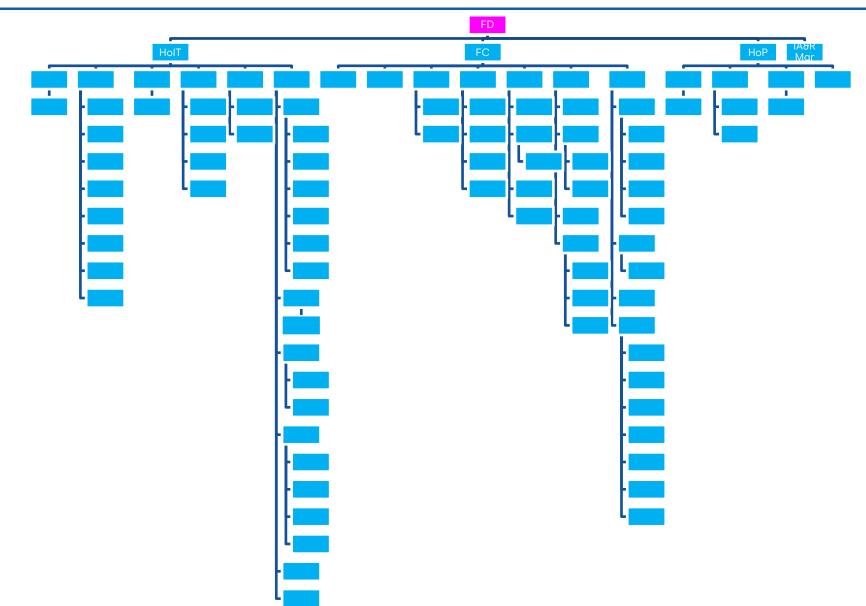


Working with LEA



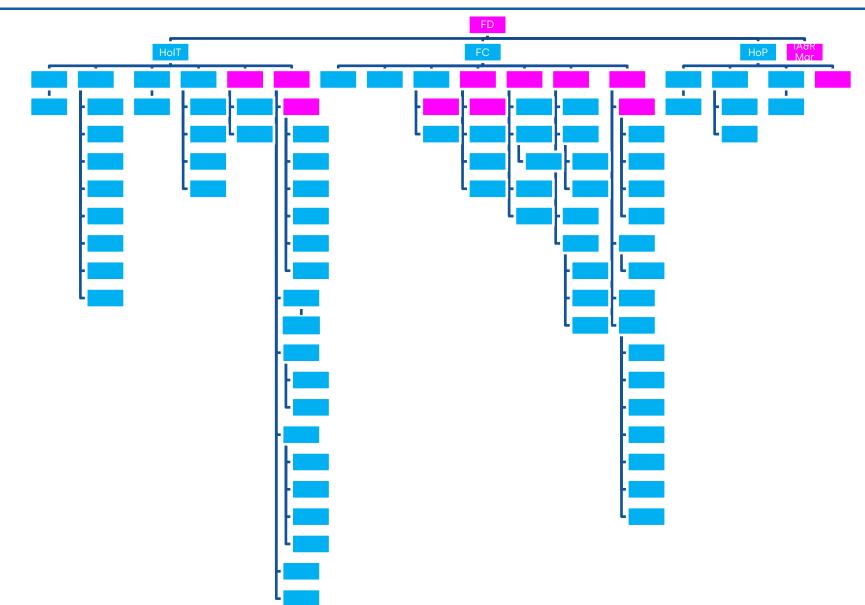


Being taught to fish





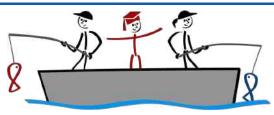
Being taught to fish





Being taught to fish – phase 1

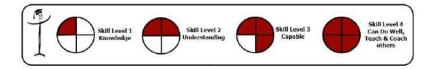


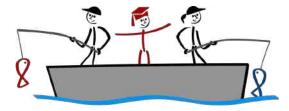


Capability Level	Probler		troduction & Skill Level 1 2 weeks)	CONTRACTOR OF A DESCRIPTION	em Solving S derstanding rs over 2 wee			Phase 1 - I	Proble (14.5								- Ca	pab	le	
Stage	the real F	arenes of Purpose to Solving	Give awarenes of the real Purpose to Problem Solving	Give understanding of how to apply 8 step Practical Problem Solving Method	Course Review	Skill Level 2 Debrief & Problem Selection	Pre-Work Business Problem Selection	Skill Level 3 Introduction, Problem Agreement & Evaluation	Progre	ste	oblen os 1- 3 DCA)		ıgh	Pro			4 to 8		h	Leadership Final Report Out
Learning Points	solvin	roblem g is so ortant	Why problem solving is so important	Deep teach of the 8 Steps and creation of A3 Practice using case study & reflection		Confirm & Check understandin g of Steps 4 - 8	Align Problem selection to Business Objectives	Introduction to Skill level 3 & Review Problem Selection	Probl Clarifica Contain	tion 8	•	akdov Analys		1.1.2	et <mark>S</mark> etti pot cau	ng	Counte s, Re Stand	Plan ermeas Check esults, dardise Share	4	Share Learnings & Recognition
Activity	LEA L	urse using earning ormm	Online Course using LEA Learning Platformm	Online Course using LEA Learning Platform	OnlineReview with LEA Coach	OnlineReview with LEA Coach	Select & Agree Buisness Problems to Work On	Online Review with LEA Coaches	Live or	nline (Coach	100 B 100 B 100 B		Lead		dbad	ck&e	valuat		Online Review with Senior MMC Leaders
Schedule & Timing	Week 1 2 Groups Together	Week 2 2 Groups Together	Weeks 1 & 2 Self paced - 2	Weeks 3 & 4 Self paced - 12 hrs	End of Week 3 2 groups of 3 Leaders	End of Week 4 2 groups of 3 Leaders	MMC Internal Process &	Week 5 2 Groups	2 Gr	100000000	ks 6 - of 3 L	12 eader	5	W	eeks 1 L		? Grou lers	ps of	24	Week 19 2 x Groups
Commiment	1.0 hrs	1.0 hrs	hrs	Sen paced - 12 III's	1.0 hrs	1.0 hrs	Timings	1.0 hrs	1.0 1.0 hrs hrs		1.0 hrs		1.0 hrs	1.0 hrs	1.0 1 hrs h				.0 Irs	1.5 hrs each group



Being taught to fish – phase 2

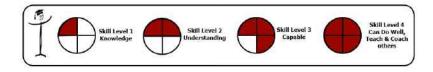




Capability Level		Phase					_		Skill 5 we			1 -	3		
Stage	Pre-Work Business Process Selection	BPI 8 Step Introduction	Pro	ogres	-	blem s 1- 3 CA)		ıgh	Pr		ss Pro steps (PD			ıgh	Leadership Final Report Out
Learning Points	Align Process selection to Business Objectives	Introduction to BPI Mapping & Review Process Selection		Mapp eps 1	_		Mapı eps 2			Mapı eps 4			Mapj eps 7		Share Learnings & Recognition
Activity	Select & Agree Buisness Process to Work On	Onlin e Review with LEA Coaches		der, f	ne Co ieedba ir pro	ack &	evalu			ider, f	ne Co feedb ir pro	ack &	evalu		Online Review with Senior MMC Leaders
Schedule & Timing	Internal Process &	Week 20 2 Groups	2		/eeks ups o			5	:		/eeks ups o			5	Week 33 2 x Groups
Commiment	Timings	1.0 hrs	1.0 hrs	1.0 hrs	1.0 hrs	1.0 hrs	1.0 hrs	1.0 hrs	1.0 hrs	1.0 hrs	1.0 hrs	1.0 hrs	1.0 hrs	1.0 hrs	1.5 hrs each group



Being taught to fish – phase 3

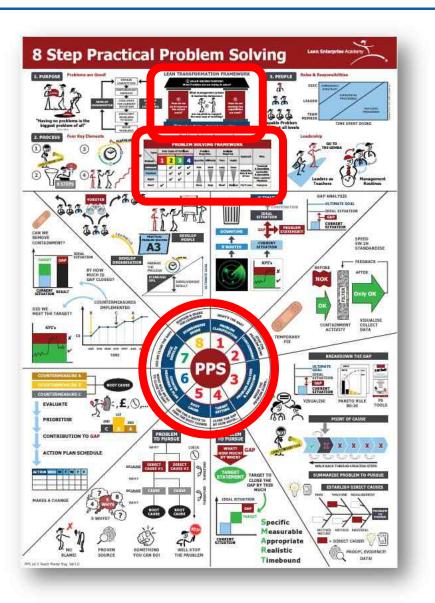


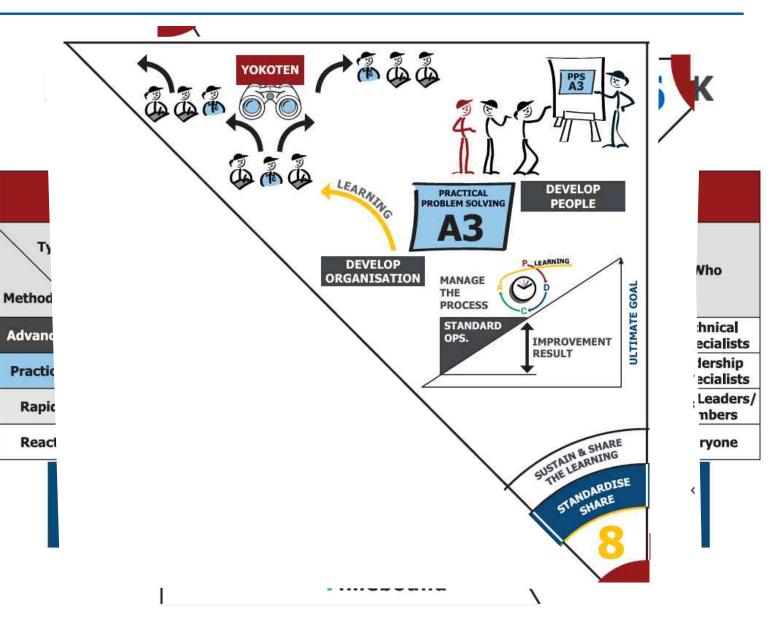


	Lea	n Leade	erst	nip C	Deve	elop	ome	nt l	Pro	gra	am	me			
Capability Level	Phase	3 - Mana Invo	-		-		n, Le Hour			-				mp	loyee
Stage	Pre-Work El Team Selection	Phase 3 Introduction	3 steps 4 to 8							ugh	Leadership Final Report Out				
Learning Points	Align El Team selection to Business Objectives	Phase 3 Material Review & El Team Review	Ma	Daily rforma nagem systen	ent	Core	Leade Skills	rship	Invo	nploy olvem Team /orkin	ent	Fun	Lean dame		Share Learnings & Recognition
Activity	Select & Agree Problems to Work On	Online Review with LEA Coaches	Lead	der, fee		& eva) of ead aluate t			der, t	feedt	oachir oack & ogres	eval		Online Review with Senior MMC Leaders
Schedule & Timing	Internal Process &	Week 34 2 Groups			Veeks oups of				:			s 41 - of 3 Lo		s	Week 46 2 x Groups
Commiment	Timings	1.0 hrs	1.0 hrs	1.0 hrs	1.0 hrs				1.0 hrs	1.0 hrs	1.0 hrs				1.5 hrs each group



Being taught to fish







Being taught to fish

Expected Content		Evaluation Levels		Coaching Questions
 Customer needs and containment considered Speed, priority and feedback. 	1	Containment considered but method is weak.	a.	How did you decide about doing containment or not?
Who, What, Where, When, Why, How, How much.	2	Containment (5W,2H) done, but the start date,	b.	What was the method you put in place?
SPEED SW 2H		date, impact on gap, actions taken are not clear.	c.	When did the containment start?
STANDARDISE	3	Closed loop containment done. Method, start date	d.	What is the customers feedback about the containment activity?
FEEDBACK		actions taken and impact on gap clearly explained	e.	How did you check the containment was working?
		and visualised to demonstrate it is working.	f.	What kind of actions have been taken during the containment activity?
		Reasons for NOK results explained.	g.	What did you learn from the containment that might help you later on?
TEMPORARY FIX	4	Inaddition it is being used to collect data t help understand the problem more (for Step 3)	h.	What other areas could be affected by this problem?
CONTAINMENT COLLECT	5	Also, the content is simple, clear and easy		
ACTIVITY DATA	1.11			
3.0 Problem Analysis & Bre	a			
3.0 Problem Analysis & Bre	a	kdown Evaluation Levels		Coaching Questions
B.O Problem Analysis & Bree Expected Content - Breakdown the Problem using data and facts (7 PPS Tools).	a	kdown	a.	Coaching Questions Tell me how you went about analysing the Current Situation/Gap?
B.O Problem Analysis & Bree Expected Content - Breakdown the Problem using data and facts (7 PPS Tools). - Select and state the Problem to Pursue.	a	kdown Evaluation Levels	2000	
B.O Problem Analysis & Bree Expected Content - Breakdown the Problem using data and facts (7 PPS Tools). - Select and state the Problem to Pursue. - Locate Point of Cause by Go & See. - Identify and confirm Direct Cause(s) through data	1	Kdown Evaluation Levels CS/Gap is not broken down enough. Too h	b.	Tell me how you went about analysing the Current Situation/Gap?
B.O Problem Analysis & Bree Expected Content Breakdown the Problem using data and facts (7 PPS Tools). Select and state the Problem to Pursue. Locate Point of Cause by Go & See. Identify and confirm Direct Cause(s) through data and investigation	1	kdown Evaluation Levels CS/Gap is not broken down enough. Too h level, mainly opinions little data or facts.	b.	Tell me how you went about analysing the Current Situation/Gap? How have you categorized the problem in to smaller ones?
B.O Problem Analysis & Bree Expected Content - Breakdown the Problem using data and facts (7 PPS Tools). - Select and state the Problem to Pursue. - Locate Point of Cause by Go & See. Identify and confirm Direct Cause(s) through data and investigation POINT OF CAUSE	1	Kdown Evaluation Levels CS/Gap is not broken down enough. Too h level, mainly opinions little data or facts. Breakdown with data done, but difficult to nder-	b. c.	Tell me how you went about analysing the Current Situation/Gap? How have you categorized the problem in to smaller ones? What have you learned about the problem - e.g what, where, when or
B.O Problem Analysis & Bree Expected Content Breakdown the Problem using data and facts (7 PPS Tools). Select and state the Problem to Pursue. Locate Point of Cause by Go & See. Identify and confirm Direct Cause(s) through data and investigation	1	kdown Evaluation Levels CS/Gap is not broken down enough. Too h level, mainly opinions little data or facts. Breakdown with data done, but difficult to nder- stand the logic story. Point of Cause, Prob m to	b. c. d.	Tell me how you went about analysing the Current Situation/Gap? How have you categorized the problem in to smaller ones? What have you learned about the problem - e.g what, where, when or how, that might help you break it down?
Breakdown the Problem using data and facts (7 PPS Tools). Select and state the Problem to Pursue. Locate Point of Cause by Go & See. Identify and confirm Direct Cause(s) through data and investigation POINT OF CAUSE	1	Evaluation Levels CS/Gap is not broken down enough. Too hah level, mainly opinions little data or facts. Breakdown with data done, but difficult to inder- stand the logic story. Point of Cause, Problem to Pursue & Direct Causes not stated or project. Deep, logical breakdown done to detrimine/prove the Point of Cause (where), Problem to Pursue	b. c. d. e. f.	Tell me how you went about analysing the Current Situation/Gap? How have you categorized the problem in to smaller ones? What have you learned about the problem - e.g what, where, when or how, that might help you break it down? What did you find when you went to see it for yourself? How would you summarize the problem in your own words? How did you check that they are Direct Causes? (1st Why)
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B.O. Problem Analysis & Bre Expected Content	1 2 3	Evaluation Levels CS/Gap is not broken down enough. Too h sh level, mainly opinions little data or facts. Breakdown with data done, but difficult to inder- stand the logic story. Point of Cause, Problem to Pursue & Direct Causes not stated or project. Deep, logical breakdown done to determine/prove the Point of Cause (where), Problem to Pursue (what, when, how) and Direct Causes (why). Evidence of Go & See & gap contribution defined.	b. c. d. f. g.	Tell me how you went about analysing the Current Situation/Gap? How have you categorized the problem in to smaller ones? What have you learned about the problem - e.g what, where, when or how, that might help you break it down? What did you find when you went to see it for yourself? How would you summarize the problem in your own words? How did you check that they are Direct Causes? (1st Why) Are there any of the other 7 PPS Tools you can use to break it down? By how much will solving this problem close the gap by?



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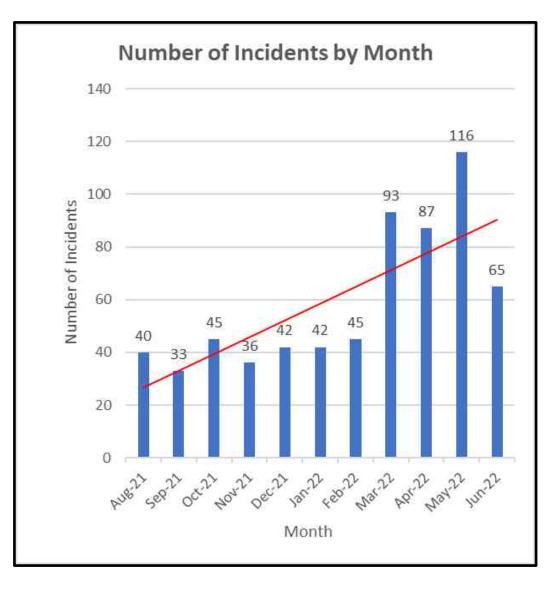
Being taught to fish

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#1	Grace	Plan	3.0	3.0	3.0						3.0	3.0	3.0	3.0	3.0						3.0	3.0)	3.0	3.0	3.0	3.0	3.0	\bigwedge	\bigwedge	3.1	9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
#1	Manual Workflow Reduction	Actual	2.9	2.4	2.2						3.0	2.6	3.0	2.6	2.5						3.1	2.8	;	3.2	3.0	2.9	2.3	2.1			3.5	5	2.8	3.6	3.3	3.3	2.8	2.9	2.5	1.0	1.0	3.8	2.7
#2	Sarah	Plan	3.0	3.0	3.0	/					3.0	3.0	3.0	3.0	3.0						3.0	3.0	,	3.0	3.0	3.0	3.0	3.0	Ą	Ą	3.1	9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
"	Unallocated Lines of Cash	Actual	25	22	23						28	25	30	30	26						29	20		30	31	28	10	10			30		23	33	36	35	31	31	31	10	10	35	2.8
#:	Andy	Plan	3.0	3.0	3.0	/					3.0	3.0	3.0	3.0	3.0						3.0	3.0	,	3.0	3.0	3.0	3.0	3.0	$\overline{/}$	1	3.1	9	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
#.	Actions on Corporate Risk Exposure	Actual	2.2	2.3	2.1						2.7	2.3	1.9	2.0	2.1						2.5	2.1	L	3.0	2.5	3.0	1.6	2.2			3.0)	2.5	3.6	3.2	3.5	2.9	3.0	3.0	1.0	1.0	3.4	2.7
#4	started for Review #2.	Plan				,	1 7	1 7				Repe	eti	tic	5n	a	nd	C	ha	4 alle	nc	je l	ea	d	s t	0	im	pr		/er	ne	nt											3.0
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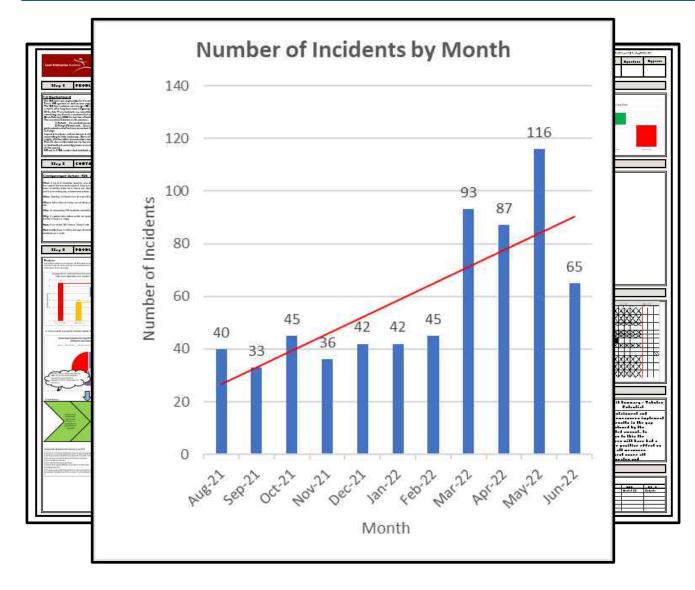
Notes: Target is to achieve at least an average rating of 3.0 or above to demonstrate capability in the application of the PPS A3 process to solve a problem.



How do you solve a problem like Service Desk Incident increases?





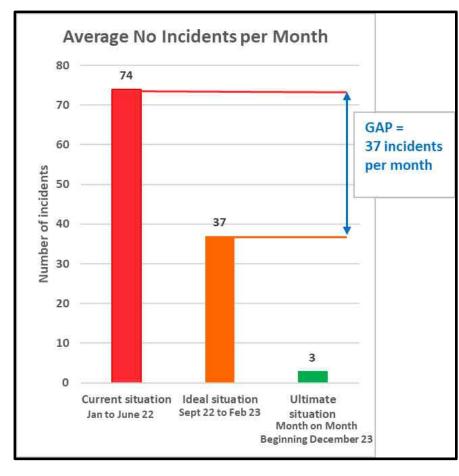


You do a LEAN A3 of course!





Problem statement – What is the problem?



Ultimate Goal:

Average 3 GIS service desk incidents per month by 31/12/2023 (average reduction of 71 incidents per month). KPI set by the Operations Manager.

Ideal Situation:

Average 37 GIS service desk incidents per month back to the level incidents were at between Aug 21 to Feb 22 averages.

Current Situation:

GIS Service desk incidents are at an average of 74 per month

Problem Statement:

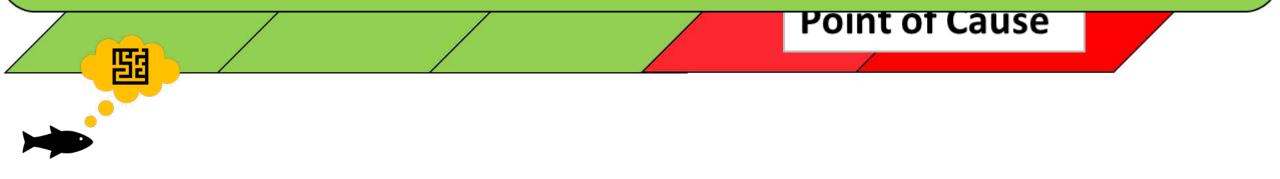
GIS Service desk incidents numbers from an average of 74 per month to an average of 37 per month (a gap of 37 incident or 50%)



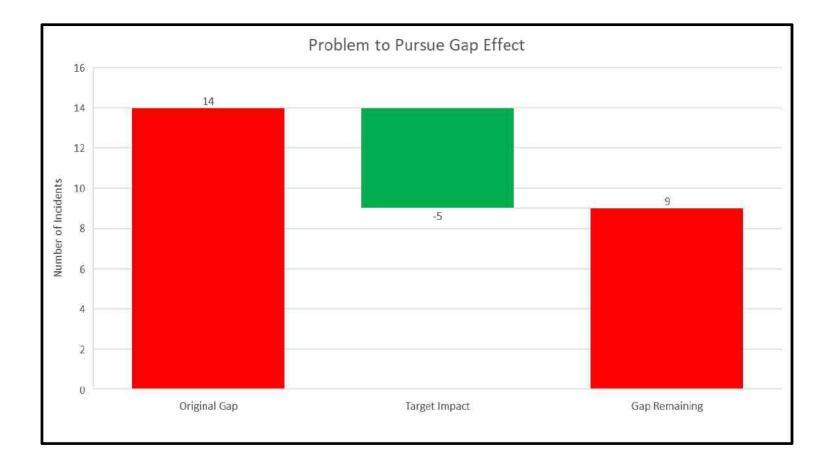
Identifying the Problem to Pursue

! Problem to Pursue !

User file updates for Audits in Survey123 in the West Midlands Team in the Operations directorate. This worth 10% (5 out of 55) of the problem and 35% (5 out of 14) of the Gap



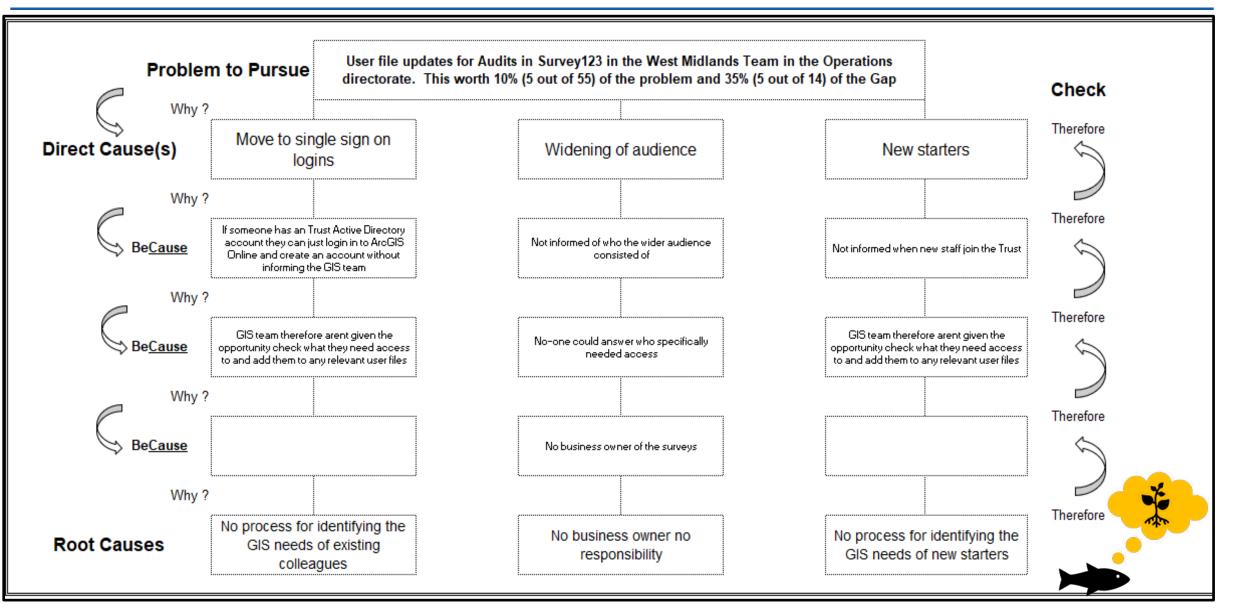




Setting a Target









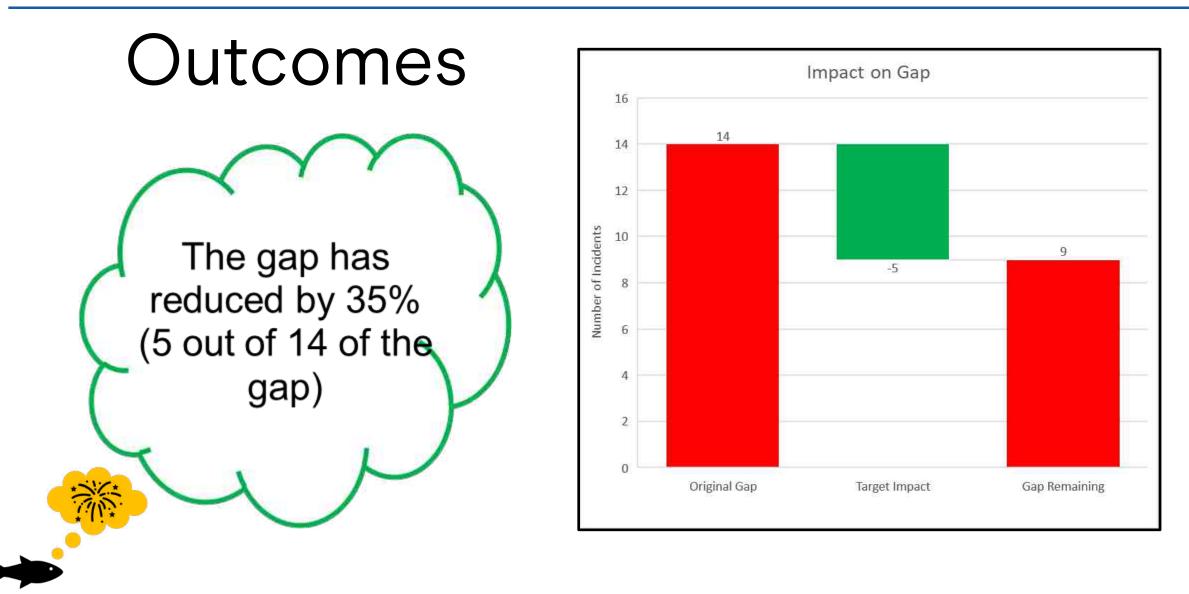
Countermeasures



	R	oot Cause Countermeasures
	Root Cause	Countermeasure Actions
	No process for	Get a list of all active Trust colleagues from ArcGIS Online and match against the user lists and removing any old style usernames.
1	identifying the GIS needs of existing colleagues	Get a list of all active Trust colleagues on a set date from SAP and check the user lists against it, removing those who have left the Trust and adding those who have joined the Trust.
		Monitor the number of requests coming from through service desk to ensure countermeasure actions are working
		Identify an appropriate person and deputy to be the business owner of the Dynamic Risk Assessment
		Identify an appropriate person and deputy to be the business owner of the Audits
2	No business owner	Create a clear guide as to role and responsibilities of a business owner
	no responsibility	Build into the projects process the identification of a business owner and deputy early on to prevent this root cause occurring in other projects
		Create a list of business owners for the projects and check every 6 months that the information is correct
		Create process to get a list of news starters and their role from SAP at regular time intervals
		Add GIS requirements to the new user request form
3	No process for identifying the GIS	Get a list of all active Trust colleagues on a set date from SAP and check the user lists against it, removing those who have left the Trust and adding those who have joined the Trust
J	needs of new starters	User self service form to add themselves to the relevant user file
		Monitor the number of requests coming from through service desk to ensure countermeasure actions are working







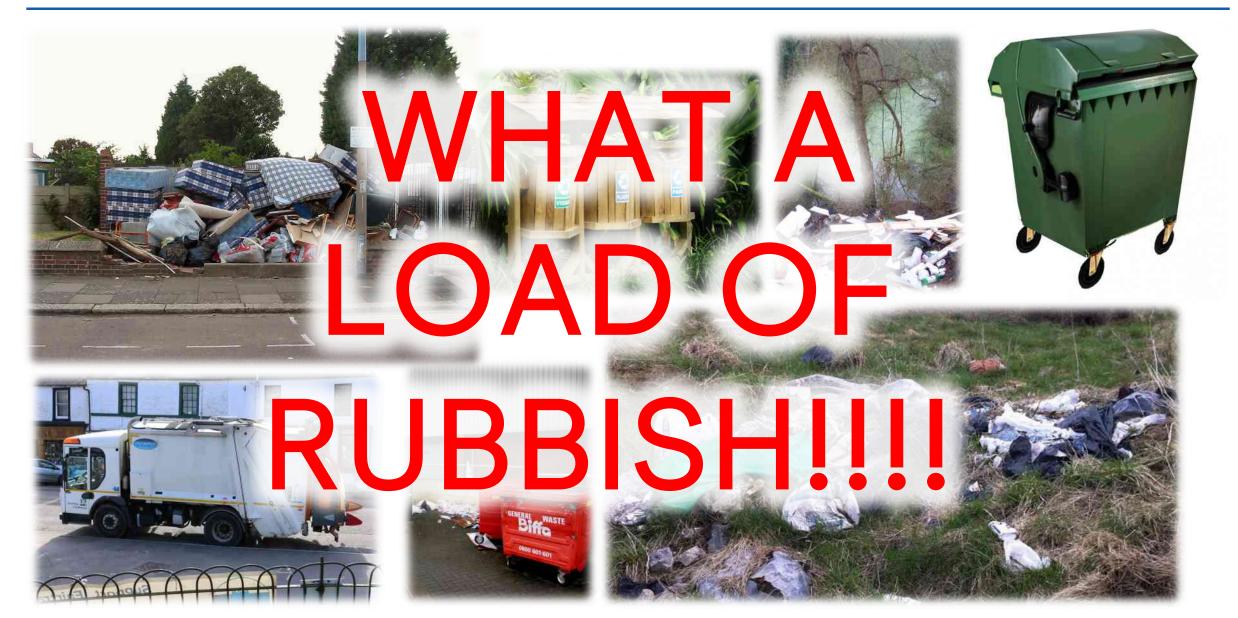


- Common weaknesses
 - Poor data quality
 - Out of date processes
 - Historical 'improvements' have increased complexity
 - No clear link between inputs and outputs
 - Silo thinking and working
 - Unclear expectations and responsibilities
 - Lack of training
 - Lack of standardisation

- Real world benefits
 - >£100,000 direct savings
 - Better management systems improved monitoring, expectation setting and feedback
 - $\circ~$ Increased overnight processing
 - $\circ~$ Less coding and processing time
 - $\circ~$ Simplified expenses, more VAT back
 - Quicker mobile phone rollout
 - Safer use of lifejackets and lifting gear



Continuous Improvement





Can you fix our fly tipping problem

Working in small groups you will all have the same problem to solve, being:

- Fly tipping costs are through the roof
- The Exec want an answer ASAP!!!!

We will have regular pauses and updates throughout the exercise At the end we will get feedback from all groups – hopefully, you will all have a fix!!

Good Luck, we really need to sort this mess out!!



- There were multiple problems including:
 - Insufficient bins / poor facilities
 - Lack of monitoring
 - Cost cutting too far
 - Public behaviour
 - Lack of data analysis in the first place
- No one containment would help all regions but increased scheduled collections may have been a reasonable stop gap.
- Countermeasures would need to be different in different regions.
- Further analysis would demonstrate which gave the most benefit we should do that first and then move on to the next.

What does this tell us, how can CI help

- It's easy to get the wrong impression and jump to conclusions
- One size doesn't always fit all
- Looking through different lenses gives different insight
- Containment can be quick, countermeasures take time
- Data, and speaking to everyone who has info is vital
- Systematically finding the root cause can prevent costly mistakes



Analysing the problem

Focus on Top 5 Most Costly Sites - GAP = £25k B22 Plan v Actual Expenditure (21,990.70 119,536.25 £19,455.10 Even phasing -620,000.00 How reaslistic was planning? €15,000.00 (8,199.55 £10,036.57 £11,713.40 €7,929.45 10.000.00 Current Ó overspend 15.000.00 £7k, expected to grow Apr-22 hin-22 M-22 Aug-11 Sep-22 Det-2 Apr-22 Jun-22 141-22 Aug-22 Sep-22 Oct-22 Nov-2 = Plan #12,286.83 £12,286.83 112,286.83 412,206.83 £12,285.83 £12,286) #12:286.83 \$12,266,83 Actuals. \$11,713.40 #19,538.25 #7.929.45 #10,036 59 121 380 70 219-465-10 AAIS TITLE # Pan #Achie 650,000.00 Monthly total costs, by year - all sites B20, Covid Year. No obvious £40,000.00 Considered Exceptional seasonality, £30,000,00 exceptional £20,000.00 spend in B20 £10.000.00 ÷2-Septomber October November December Junuary. February 2

Seasonality

Individual transactions of £2k - £3k



Go and see

How it looks on the ground - whats actually happening?

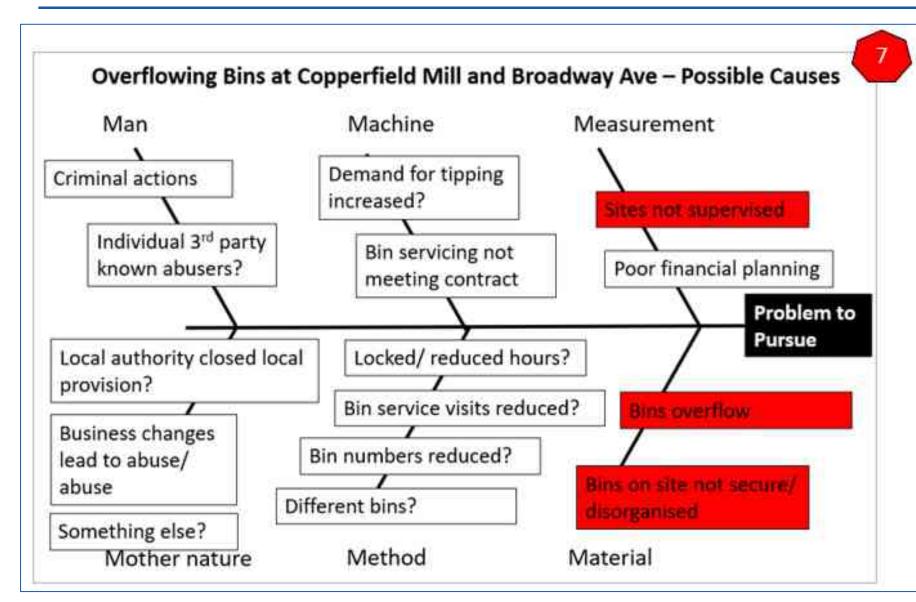


Is this what you think of as fly tipping?

Characterising the problem - sites overflowing - general refuse and domestic improvements - why is this happening?



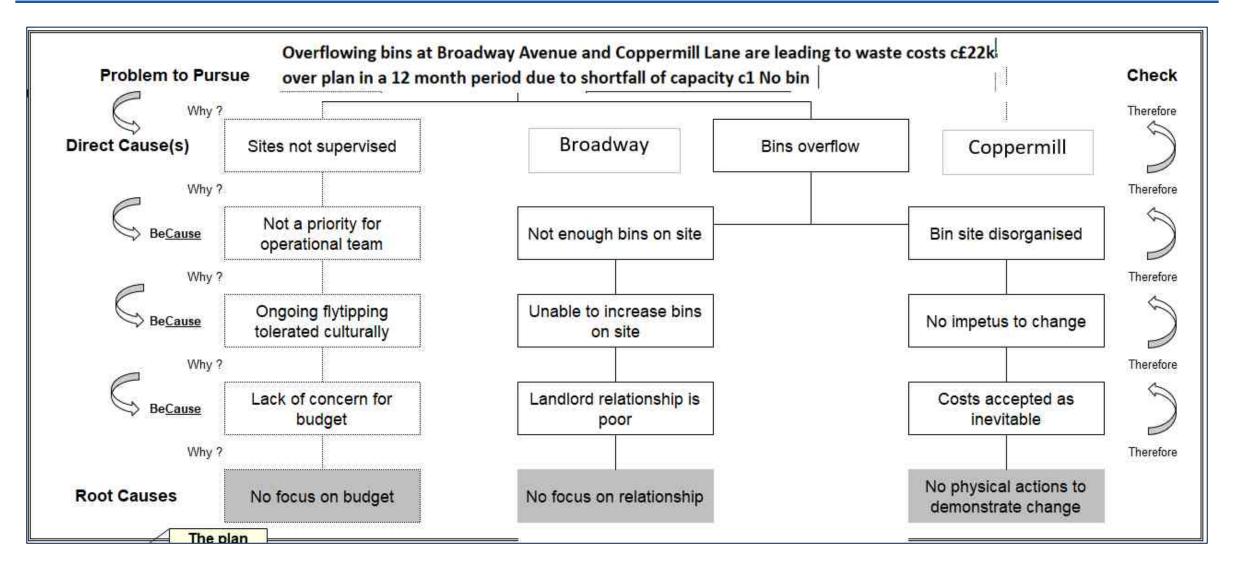




Broadway site only has 1 bin; site is not owned by Canal ϑ River Trust, leased site: relationship with landlord is poor; high turnover of colleagues; no supervision checking of sites for fly-tipping as is not planned for the team to do it; no review of management information wasted trip reports due to lack of manager's knowledge/ inexperience; no local manager due to vacancy; 2 bins daily would meet demand

Coppermill; site is serviced 7 times a week - site design lends to overloading, security of bins not achieveable.







Actions we took

		Root Cause Countermeasures
	Root Cause	Countermeasure Actions
		Introduce regular budget review & show data
4	No former on building	Briefing of local management
	No focus on budget	Create focus on supervision of sites
		Pubication of effectiveness of change
		Local management education on importance with examples
		Meeting with Broadway site owners - follow up
		Implement site supervision Broadway - create trust
2	No focus on relationships	Establish credibility - demonstration projects, show improvement
		Review of wasted trip reports
		Explanations with local team
		Upgrade bin store Coppermill, improve security
	No physical actions	Introduce CCTV monitoring
	to demnstrate changes	Local team focus on removal of tipping before creates attraction

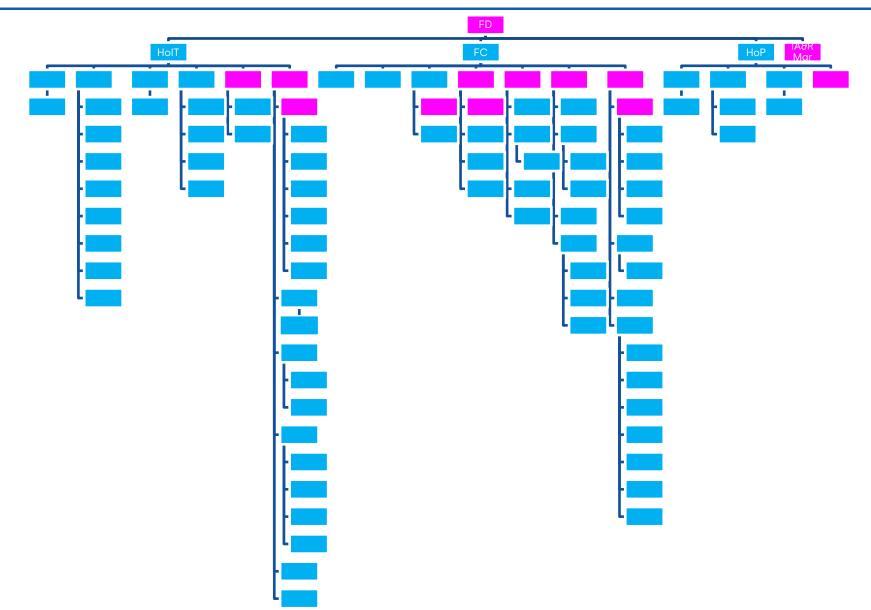


The outcome

	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Total	
ay Avenue (Giffard Park)	£217.95	£2,768.55	£1,480.00	£1,685.50	£894.00	£1,863.50	£0.00	£0.00	£0.00	£894.00	£0.00	£0.00	£9,803.50	mary
Mill Lane	£217.95	£1,718.55	£217.95	£1,630.05	£1,372.95	£894.00	£0.00	£0.00	£0.00	£0.00	£0.00	<u>co.</u> 00	£6,051.45	2
oad, Bathampton	£1,100.00	£1,375.00	£1,100.00	£1,100.00	£550.00							البسية	£5,225.00	
re Marina Sanitary Store	£705.90	£4,038.95					£532.00	£279.00	£245.00	£599.00	£50.00	£233.00	£6,682.85	
ard			£959.00		£2,915.05		£285.00		£527.00	£500.00	£111.00	£596.00	£5,893.05	
	£2,241.80	£9,901.05	£3,756.95	£4,415.55	£5,732.00	£2,757.50	£817.00	£279.00	£772.00	£1,993.00	£161.00	£829.00	£33,655.85	
live sinc	tallation at C e beginning I 600, local te	Feb 2023	£12,00 £10,00									Cost pro	file is redu leed to me	

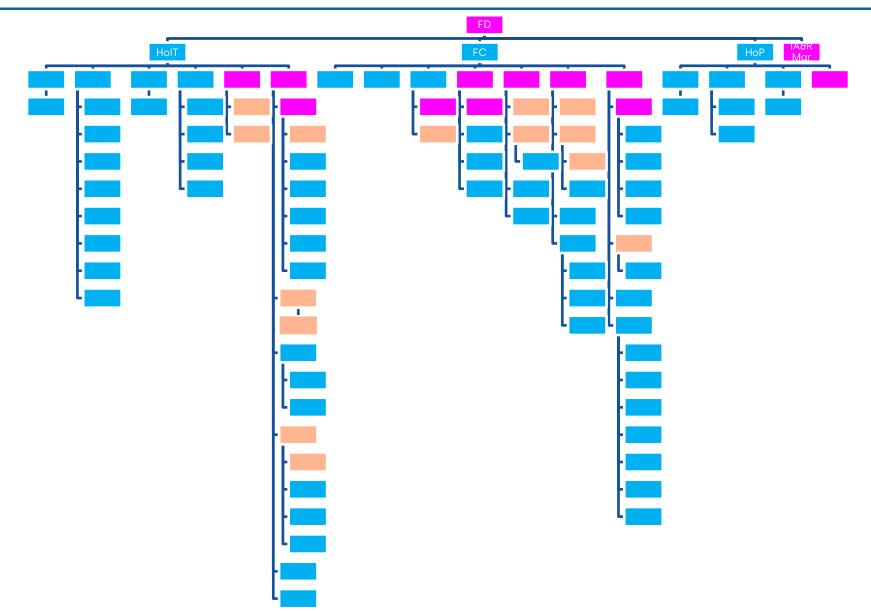


Teaching others



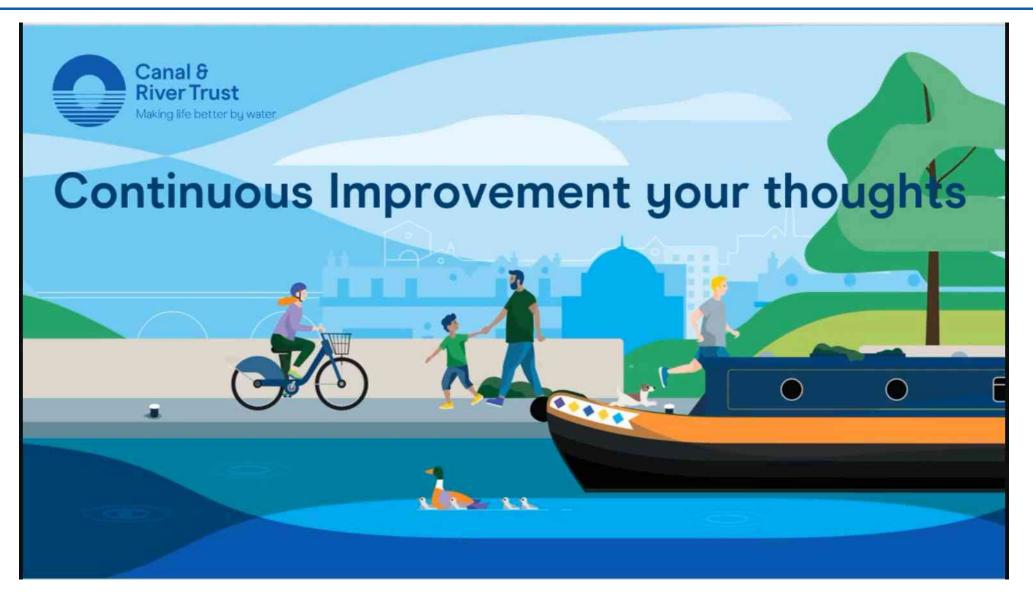


Teaching others



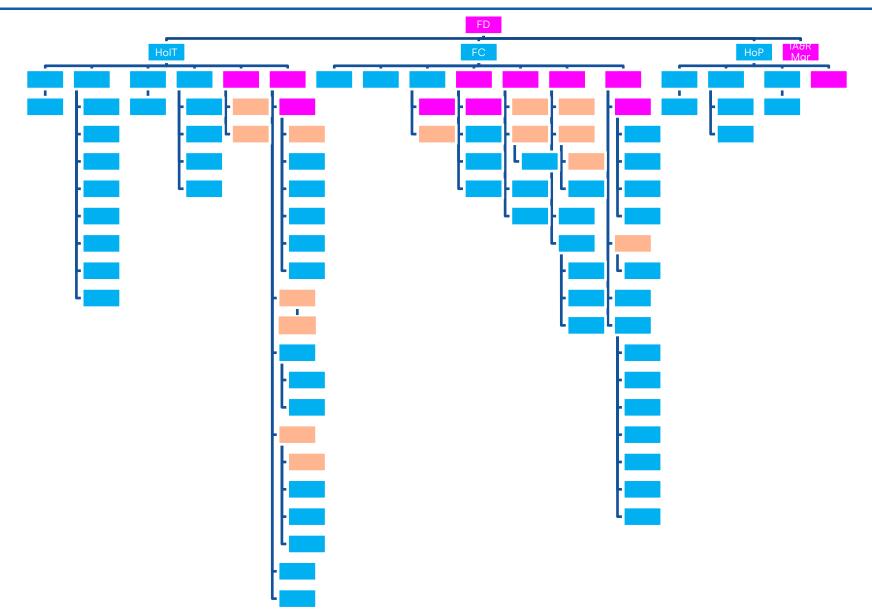


What our people think



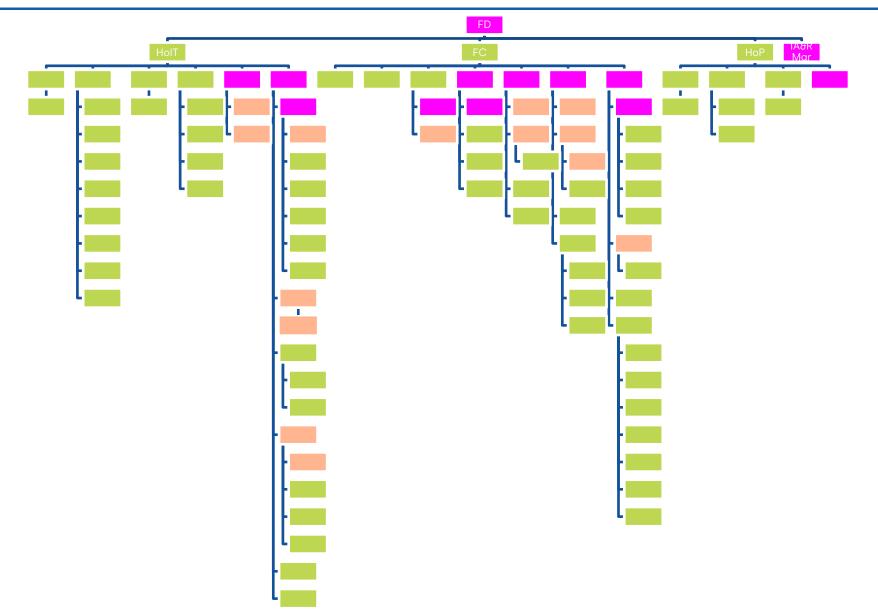


Where are we headed



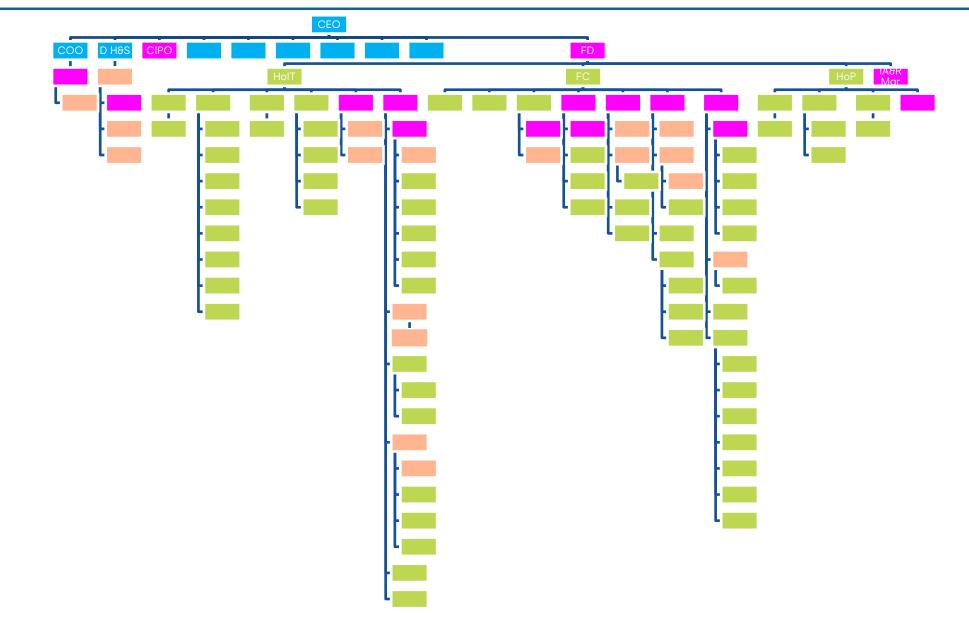


Where are we headed





Where are we headed





Closing and questions

"You don't have to see the whole staircase, just take the first step."

Martin Luther King Jr., I Have a Dream speech (1963)





