

COLLABORATIVE, IMPARTIAL RESEARCH

UKWIR - Big Question No. 2

How do we achieve zero leakage in a sustainable way by 2050?

Enhancing a Route Map to Achieve the Vision

Mark Jones (UKWIR), Kamal Birdi (TWENTY65)



Overview of workshop



Introduction to UKWIR Zero Leakage Route Map



CLEAR IDEAS: Process Overview



CLEAR IDEAS: Identify and prioritise any RouteMap omissions



CLEAR IDEAS: Generate creative solutions to gaps and blockers



CLEAR IDEAS: Assess & select solutions for further development



Big Question:

How do we achieve zero leakage in a sustainable way by 2050?

All new pipework is leak-free when laid, and remains so

throughout its economic life

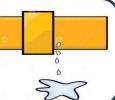


New leaks on existing networks are minimised



How do we achieve zero leakage in a sustainable way by 2050?

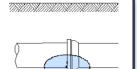
All new leaks are found quickly after they break out



We can confidently quantify leakage and demonstrate when it is zero



Back-ground leakage is eliminated



Repairs are quick, economic with minimum disruption





Overview of workshop



Introduction to UKWIR Zero Leakage Route Map



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RouteMap Introduction CI: Process Overview CI: Identify & Prioritise CI: Generate Solutions CI: Assess and Select

CLEAR IDEAS

So how do we...?

Create an Effective, Comprehensive and Aspirational Zero Leakage Route Map?



Introduction to the CLEAR IDEAS innovation development model



RouteMap Introduction (

CLEAR IDEAS model background

- Invented in 2005 by Dr Kamal Birdi (University of Sheffield) after researching creativity and innovation in hundreds of organisations
- Over 2000 people from public, private and third sector organisations in UK and abroad have now taken part in CLEAR IDEAS workshops
- Evaluation shows model is well-received, significant increase in innovation competencies and examples of improvement in organisational efficiency and performance e.g.
 - Helped redevelopment of adult social care service saving £1.5m
 - Reduced cost of fitting smoke alarms
 - Helped win £3.9m TWENTY65 EPSRC collaborative industry-academic water research grant
 - o Improvement in child healthcare medication regime

Twitter: @Dr_ClearIdeas























OMMIT to doing



EAD the initiative

NGAGE those affected



ALIGN for delivery



EVIEW progress regularly

Twitter: @Dr ClearIdeas

CLEAR IDEAS: An IDEAS session

Step	Activity	Timing (mins)
	ILLUMINATE: Each group works on the 'How do we.?' challenge	
1.	DIAGNOSE: Identify and group different omissions	20
2.	DIAGNOSE: Prioritise the most critical omissions	5
3.	ERUPT: Generate lots of creative ideas for dealing with critical omissions	25
4.	ASSESS: Evaluate how good your ideas are in dealing with the critical omissions	5
5.	SELECT: Choose which ideas will form your solutions	5
	Share and Wrap Up	15

RouteMap Introduction CI: Process Overview CI: Identify & Prioritise CI: Generate Solutions CI: Assess and Select

CLEAR IDEAS: ILLUMINATE 'How do we...?' Challenges

Create an

- Effective
- Comprehensive
- Aspirational

Zero Leakage Route Map?



CLEAR IDEAS: Step 1a: DIAGNOSE

Individually read the Route Map and identify what you think is missing

Grab a few post-its and <u>on your own</u> write down your thoughts on:

"What are the most important omissions that would stop the Route Map achieving its aim of zero leakage? Omissions could include gaps or altering details regarding what is there already"

- One omission per post it
- 10 minutes to do this on your own

10 mins

CLEAR IDEAS: Step 1b: DIAGNOSE

Sharing and sorting omissions into themes

- Each person to share one omission with the group in round-robin style.
 If someone else has the same type of omission then add your post-it to it.
- Once all omissions shared, then group them into similar themes. It is fine for a post-it to be on its own if it cannot be clustered with others.
- Put a post-it labelling the theme on each cluster of post-its.



10 mins



CLEAR IDEAS: Step 2: DIAGNOSE

Ranking the omission themes

- Each person puts a tick on the omissions themes which they think are the 3 biggest reasons for potential failure.
- After everyone has voted, circle the three omission themes with the most ticks against them to prioritise what you need to tackle first.
- The three most critical omission themes will now form the specific focus for generating creative ideas to deal with them
 - Write each new 'How do we..?' 2.0 on a piece of A3 paper



CLEAR IDEAS: Step 2: DIAGNOSE

Priority Omission 1

Priority Omission 3

Priority Omission 2

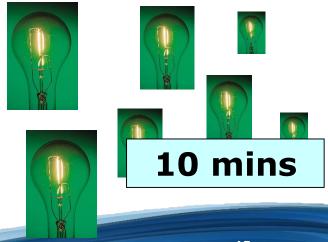


RouteMap Introduction CI: Process Overview CI: Identify & Prioritise CI: Generate Solutions CI: Assess and Select

CLEAR IDEAS: Step 3a: ERUPT with creative ideas:

On your own

- On your own again, spend a few minutes trying to come up with as many ideas as possible for how we could deal with one or more of the priority omissions.
- One idea per post-it
- Be open-minded and do not judge your ideas 'Lots of Ands, no Buts!'
- Be as radical and original as you want.
- Some creative triggers coming up...







Try reversing the order in which you do things





What would you do if you had £5bn to spend on this?

What would your favourite film or historical character do in this situation?



How do we....?



'Lots of Ands, no Buts!'

CLEAR IDEAS: Step 3a: ERUPT with creative ideas:

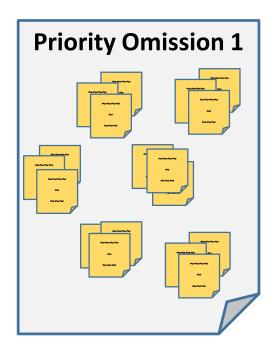
Share them with the group

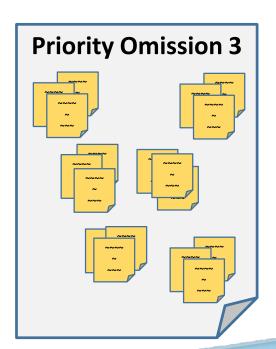
- Each person to share one idea with the group in round-robin style and put post-it on relevant A3 Omission sheet. Anyone else with a similar idea puts their post-it on it too.
- Next person shares a different idea and puts their idea on the A3. Continue until all different ideas stuck on sheet.
- Create a label for similar types of ideas (different colour)
- Stay open-minded and do not criticise the ideas yet 'Lots of Ands, no Buts!'
- Add any new ideas that come out of your discussion.

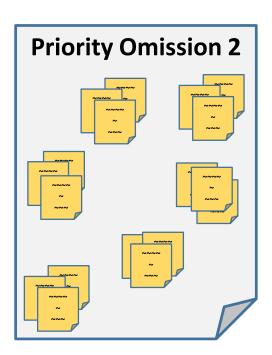
15 mins



CLEAR IDEAS: Step 3a: ERUPT with creative ideas:

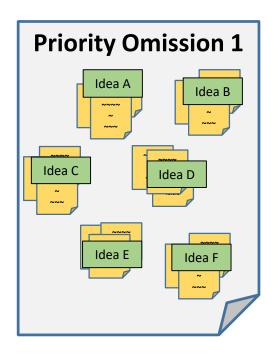


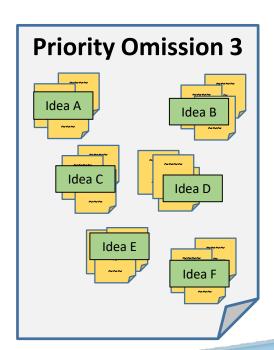


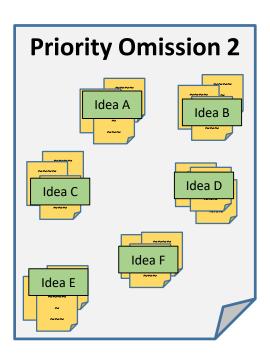




CLEAR IDEAS: Step 3a: ERUPT with creative ideas:









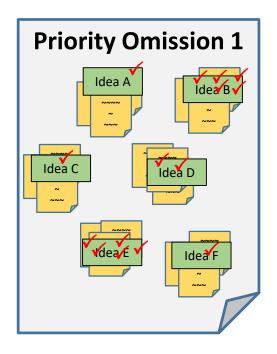
CLEAR IDEAS: Step 4: ASSESS quality of ideas

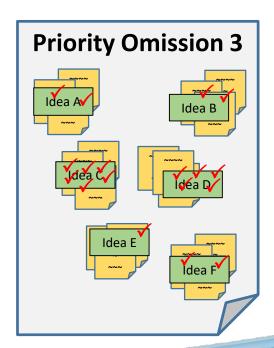
- Each person has two ticks they can put against what they think are the two best ideas on each A3 (i.e. six ticks overall)
- 'Best' in this case means in terms of likelihood of dealing well with the critical omission and that we can do something about
- If we had more time, 'best' could also be scored more specifically in terms of other criteria e.g. cost, time to implement etc.

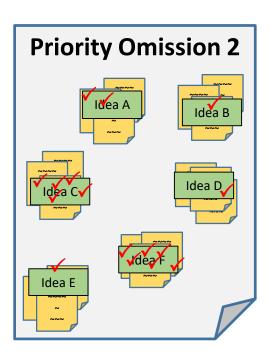
5 mins



CLEAR IDEAS: Step 4: ASSESS quality of ideas









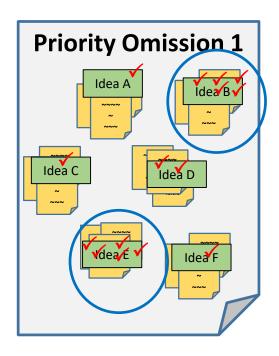
CLEAR IDEAS: Step 5: SELECT & SHARE your solution

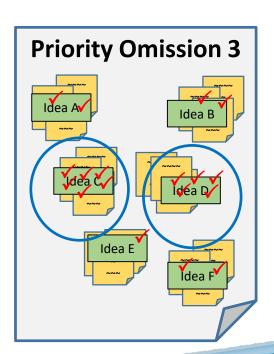
- Choose the two ideas with the most ticks on an A3 to combine into your solution for that omission
- Ideas can address different needs or may be in terms of shortterm, medium-term and long-term strategies
- Feed back the solutions to the group

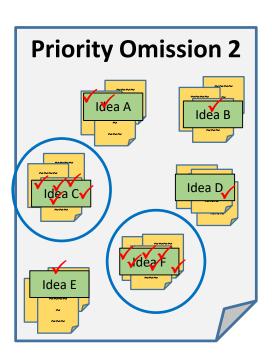
10 mins



CLEAR IDEAS: Step 5: SELECT & SHARE your solution



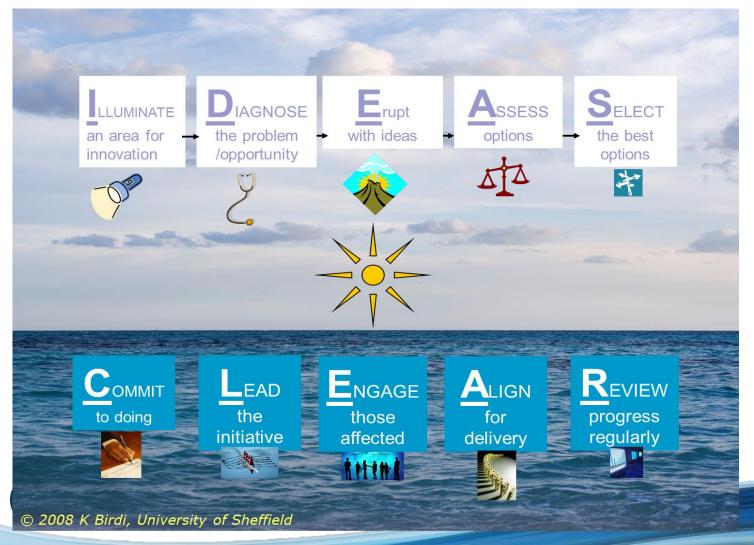






CLEAR IDEAS: Steps 6-10: CLEAR

Implementing your solution



CLEAR IDEAS: Steps 6-10: CLEAR

Sign up

 If you are interested on working on any of these solutions then please write your name and email on the relevant A3 sheet.



Water Innovation Training Programme

- Developing innovation capabilities of UK water companies and supplier
- 2 x 2-day programme
 - 11th-12th June and 17th-18th July 2019
- Delivered by leading experts in water and innovation
- "Excellent course! Really enjoyed all aspects."
- "I fully endorse this workshop and will be recommending it to colleagues."













CLEAR IDEAS Tools!

- CLEAR IDEAS App for iPad -Free!
 - just look for 'CLEAR IDEAS' on iTunes App Store

- CLEAR IDEAS online app (accessible on any web-enabled device) – Free!
 - http://clearideas.sheffield.ac.uk/
 - Just register with username and password









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