CIWEM surface water management review

In recent years there have been several Government Action Plans, independent reviews and government updates on surface water management. However, more can be done to obtain and share views from those that have responsibilities for surface water management so continual progress can be made with surface water management and resilience to flooding.

CIWEM has been asked by the London Drainage Engineers Group (LODEG), Local Government Flood and Coastal Erosions Risk Management Technical Advisory Group (LG FCERM TAG) and Association of SuDS Authorities (ASA) to undertake an independent review to better understand the potential opportunities and challenges in relation to surface water management and provide some recommendations for improvement.

This review will complement the activities being undertaken by Defra, the Environment Agency and the National Infrastructure Commission. This survey is a key part of the review and it is for Risk Management Authorities involved in delivering surface water management. It focuses on three key areas:

- · Cooperation and collaboration
- Funding
- · Capacity and skills

Whilst the survey is aimed at local government, we welcome responses from all Risk Management Authorities. It should be completed only by those working in an RMA. Completing the survey should take around 30-45 minutes and (if you sign in to google) progress can be saved (we can only accept online responses).

The deadline for responses is August the 15th 2022.

Many thanks

The project team

Completing this survey is voluntary, responses will be anonymised any personal data provided will be used for the purposes of the project (i.e. further engagement, obtaining case studies). Information collected will be stored in accordance with CIWEM's Privacy Policy (https://www.ciwem.org/privacy-policy). For further information and queries related to the survey contact Paul Shaffer at paul.shaffer@ciwem.org.

About you

1.	Are you responding to this survey as an individual or an organisation? *
	Mark only one oval.
	Individual
	Organisation
2.	What is the name of the organisation you work for, (if the Environment Agency *
	please provide your Area/National team name)?
3.	As defined by the Flood and Water Management Act what type of Risk *
	Management Authority (RMA) are you?
	Mark only one oval.
	Environment Agency
	Lead Local Flood Authority at a unitary level
	Lead Local Flood Authority at a county level
	District or Borough Council
	Coastal protection authority
	Water and sewerage company
	Internal Drainage Board
	Highways authority
	National Highways

4. 1.4. What function do you provide in the RMA? (tick all that apply) *

Tick all that apply.
Planning - policy
Planning - spatial planning
Approval/Evaluation of designs
Design
Construction
Maintenance
Asset Management
Highways design/management
Flood risk management
Flood investigations (S.19 etc)
Investment
Engagement
Partnership Funding
Strategy and Policy
Development/Building Control
Climate Change adaptation
Emergency Planning
Flood response/recovery
Other:

5.	in your organisation?
	Mark only one oval.
	1
	2
	3
	4
	5
	<u> </u>
	7
	8
	9
	10
	10 or more
6.	Please estimate the percentage of FTE's working on the RMA role fulfilled by consultants.
	Mark only one oval.
	0 - 10%
	10 - 20%
	20 - 30%
	30 - 40%
	40 - 50%
	20 - 60%
	60 - 70%
	70 - 80%
	00, 00%
	80 - 90%
	90 - 100%

nark only one	e oval per l	row.				
	0 - 20%	20 - 40%	40 - 60%	60 - 80%	80 - 100%	_
0 - 2 years						_
2 - 4 years						_
4+ years						
o what ext	ent are y	ou clear oi	n the resp			nanagement vn RMA in teri
o what ext	ent are y g surface	ou clear oi	n the resp			nanagement vn RMA in teri
To what ext	ent are y g surface	ou clear oi	n the resp			Ū
To what ext of managin Mark only one	ent are y g surface e oval. 1	ou clear oi e water flo	n the resp od risk?	onsibilities 5		Ū
	ent are y g surface e oval. 1	ou clear oi e water flo	n the resp od risk?	onsibilities 5	s of your ow	Ū
To what ext of managing Mark only one Very unclear	ent are y g surface e oval.	ou clear or e water flo	n the respod risk?	onsibilities 5 Very	s of your ow	ū

Very clear

Very unclear

12.

organisation?

) No

Mark only one oval.

Don't know

lark only one oval per ro	1	2	3	4	5
Environment Agency					
Lead Local Flood Authorities					
District or Borough Councils					
Water and sewerage companies					
Internal Drainage Boards					
Highway authorities					
National highways					

Should surface water management be coordinated by one RMA or

Skip to question 15

Skip to question 13

Skip to question 15

13.	If yes, who do you think should coordinate activities for surface water management?
	Mark only one oval.
	Environment Agency Skip to question 15
	Lead Local Flood Authorities Skip to question 15
	District or Borough Councils Skip to question 15
	Water and sewerage companies Skip to question 15
	Internal Drainage Boards Skip to question 15
	Highway authorities Skip to question 15
	National Highways Skip to question 15
	Other:
14.	Please explain who else should coordinate surface water management.
15.	Please explain what activities need coordinating, and/or why?

16. How would you rate your collaboration with the RMAs below on surface water management? (0 = N/A, 1 = very ineffective, 5 very effective).

	0	1	2	3	4	5
Environment Agency						
Lead Local Flood Authorities						
District of Borough Councils						
Coastal protection authorities						
Water and sewerage companies						
Internal Drainage Boards						
Highway authorities						
National Highways						

17. How would you rate your collaboration with other organisations below on surface water management? (O = N/A, 1 = very ineffective, 5 very effective)

	0	1	2	3	4	5
Local Planning Authorities						
Local gov't - Building/Development Control						
Local gov't - Community Engagement						
Local gov't - Emergency Planning						
Local gov't - Housing						
Local gov't - Parks and public spaces						
Local gov't - Regeneration						
Regional Flood and Coastal Committees						
Natural England						
Transport infrastructure organisations						
Catchment Partnerships						
Developers						
Riparian landowners						
Land managers/farmers						
Community flood groups						

20:18	Local resilience forums		CIVVENI SUITA	ce water mana	gement review	'	
	Third Sector / Non Governmental Organisations						
18.	If you have a formalise management (e.g. Me indicate which ones list Tick all that apply. Environment Aagend Lead Local Flood Au District or Borough (Coastal protection ac Water and sewerage Internal Drainage Bold Highways authorities National Highways Regional Flood Cost Other:	emorand sted belong thorities Councils outhorities companies	um of Undow. (tick a	derstandir	ng) with a		
19.	Please provide furthe and outcomes.	r detail c	on these a	greement	s in terms	s of arran	gements
20.	Please rate how effect collaboration and cool Mark only one oval.			paches are	e for supp	oorting	*
	Very ineffective	2	3 4	5	Very effect	ive	

21.	If you scored this low (i.e. 1), or high (i.e. 5) please explain why.							
22.	Following a flooding event where the source of flooding is unclear how well is this resolved, in terms of completing investigations and suggesting actions? Mark only one oval.							
	1 2 3 4 5 Very badly							
23.	If you scored this low (i.e. 1), or high (i.e. 5) please explain why.							
24.	What do you think enables collaborative working?							

25. How effective is collaboration with RMA's on certain activities? (0 = N/A, 1 = *very ineffective, 5 very effective)

	0	1	2	3	4	5
Data and information sharing						
Engagement						
Collaboration						
General shared resources						
Developing/implemen ting LFRMs						
Asset recording & management						
Flood mapping						
Flood medelling						
Flood investigations (S.19)						
Flood forecasting and warning						
Capital delivery						
Partnership working						
SuDS for new build						
Retrofitting SuDS						
Drainage and Wastewater Management Plans						
Flood recovery						

	ed any activity low (i.e. 1), or high (i.e. 5) please explain why.
	us about the other activities and organisations you collaborate with water management - particularly any non-statutory activities.
	got examples of good collaboration and cooperation with other ons, e.g. established partnerships?
Mark only o	one oval.
Yes	Skip to question 29
No	Skip to question 30
	you please provide further details (including any relevant contact further information)?
	d you like to see improved in regulations, governance and guidance to collaboration and cooperation for surface water management?

Exploring funding for surface water management

31.	Do you have an allocated (ring fenced) budget for surface water management?
	Mark only one oval.
	Yes Skip to question 32
	No Skip to question 33
32.	If yes, do you have long term certainty on the allocated budget?
	Mark only one oval.
	Yes
	No
33.	If no, what are the consequences of this.

34. In your opinion, how sufficient is funding for the following surface water management activities? (0 = N/A, 1 = insufficient, 5 = more than sufficient) Mark only one oval per row. 0 1 2 3 4 5 **Local Flood Risk** Management **Strategies and Policy Contributing to Planning Policy and** other strategic plans (e.g. DWMPs, FRMPs) **Capital projects** Operations and maintenance Flood incident management Flood recovery **Asset management** General staff/resources

35. If you scored lower than a 2 for any activity please explain why.

36. Generally speaking please estimate the percentages of funding your RMA obtains for surface water management against the following potential sources of funding (please think about the last year).

	0 - 20%	20 - 40%	40 - 60%	60 - 80%	80 - 100%
Internal RMA funds					
Funding Grant in Aid (FDGIA)					
Regional Flood Coast Committee					
Business Improvement Districts (BIDs)					
Community Infrastructure Levy					
TCPA 1990 Section 106 Contributions					
Other local government fund (please specify in next Q)					
Charitable trusts (please specify in next Q)					
Water company inestment					
Land Managers/developers contributions					
Other private sector contributions (please specify in next Q)					
Other (please specify in next Q)					

37. Please provide further detail about funding sources requested above, or those not included in the list.

38. Please indicate the top 4 priorities for funding in your RMA.

	Priority #1	Priority #2	Priority #3	Priority #4
General resources/staff				
Assessment of surface water flood risk				
Managing surface water				
Flood mapping				
Flood modelling				
Flood investigation				
Approving drainage submission				
Securing good SuDS				
Retrofitting SuDS				
Asset identification & management				
Partnership working				
Securing funds for surface water management				
Collaboration on non- statutory activities (e.g. DWMPs, FRMPs etc)				
Flood recovery				
Other (please specify in next Q)				

39.	Please provide further detail about other funding priorities if not listed above.

40. How easy is it to secure partnership funding from the sources below? (0 = N/A, 1 = very difficult, 5 very easy)

	0	1	2	3	4	5
Internal RMA funds						
Funding Grant in Aid (FDGIA)						
Regional Flood Coast Committee						
Business Improvement Districts (BIDs)						
Community Infrastructure Levy						
TCPA 1990 Section 106 Contributions						
Other local government fund (please specify in next Q)						
Charitable trusts (please specify in next Q)						
Water company investment						
Land Managers/developers contributions						
Other private sector contributions (please specify in next Q)						
Other (please specify in next Q)						

Please rate the successother partners. $(0 = N)$	-				_	ling w
Mark only one oval per ro	W.					
	0	1	2	3	4	5
Alignment of funding						
with partners If you scored any activ	vity low (i	.e. 1), or h	igh (i.e. 5) please e	explain wh	ny.
with partners	vity low (i	.e. 1), or h	igh (i.e. 5) please e	explain wh	ny.
with partners	vity low (i	.e. 1), or h	igh (i.e. 5) please e	explain wh	ny.
with partners	vity low (i	.e. 1), or h	igh (i.e. 5) please e	explain wh	ny.
with partners	vity low (i	.e. 1), or h	igh (i.e. 5) please e	explain wh	ny.
with partners						
lf you scored any activ	u aware o					
If you scored any activ	u aware o					
If you scored any active and active active and active and active active and active active and active	u aware o					

for surface water management.
Exploring capacity and skills for surface water management
Does your RMA have a full complement of staff to deliver its surface water management responsibilities?
Mark only one oval.
Yes Skip to question 49
No Skip to question 47
Don't know Skip to question 49
If no, please explain why?
What is the estimated Full Time Equivalent needed to deliver surface water management responsibilities in your RMA?

Mark only one oval per ro)W.					
	0	1	2	3	4	5
How easy is it to fill posts						
If you scored this low	(i.e. 1), or	high (i.e.	5) please	explain v	/hy.	
Overall, are there suf	ficient skil	ls within y	our RMA	to mana	ge surfac	e wa
Mark only one oval.		ls within y	our RMA	to mana	ge surfac	e wa
	estion 53	ls within y	our RMA	to mana	ge surfac	e wa
Mark only one oval. Yes Skip to que No Skip to que	estion 53		our RMA	to mana	ge surfac	e wa
Mark only one oval. Yes Skip to que No Skip to que	estion 53 estion 52		our RMA	to mana	ge surfac	e wa
Mark only one oval. Yes Skip to que No Skip to que Don't know Sk	estion 53 estion 52 ip to questi	on 53	our RMA	to mana	ge surfac	e wa
Mark only one oval. Yes Skip to que No Skip to que	estion 53 estion 52 ip to questi	on 53	our RMA	to mana	ge surfac	e wa
Mark only one oval. Yes Skip to que No Skip to que Don't know Sk	estion 53 estion 52 ip to questi	on 53	our RMA	to mana	ge surfac	e wa
Mark only one oval. Yes Skip to que No Skip to que Don't know Sk	estion 53 estion 52 ip to questi	on 53	our RMA	to mana	ge surfac	e wa

53. 4.8. What skills are important for managing surface water in your RMA? (tick all that apply).

ick	c all that apply.
	Project management
	Developing business cases
	Engagement with communities
	Flood risk assessment
	Flood risk management
	Flood mapping
	Flood forecasting and warning
	Flood investigations
	Planning and flood risk
	SuDS approval
	SuDS design - new build
	SuDS design - retrofitting
	Drainage exceedance
	Water quality
	Water resources
	Biodiversity and Biodiversity Net Gain
	Landscape and amenity
	Asset management
	Partnership working
	Decarbonisation / net-zero carbon
	Property Flood Resilience
	Flood recovery
	Other:

54. Please rate your RMA's estimated capacity i.e. resources for the activities below. (0 = N/A, 1= very low, 5 very high)

	0	1	2	3	4	5
Project management						
Developing business cases						
Engagement with communities						
Flood risk assessment						
Flood risk management						
Flood mapping						
Flood forecasting and warning						
Flood investigations						
Planning and flood risk						
SuDS approval						
SuDS design - new build						
SuDS design - retrofitting						
Drainage exceedance						
Water quality						
Water resources						
Biodiversity and Biodiversity Net Gain						
Landscape and amenity						

	(JIWEM surfac	e water mana	gement review	1	
Asset management						
Partnership working						
Decarbonisation / net- zero carbon						
Property Flood Resilience						
Flood Recovery						

55. Please rate your RMA's estimated competency and level of skills for the activities below. (0 = N/A, 1= very low, 5 very high)

	0	1	2	3	4	5
Project management						
Developing business cases						
Engagement with communities						
Flood risk assessment						
Flood risk management						
Flood mapping						
Flood forecasting and warning						
Flood investigations						
Planning and flood risk						
SuDS approval						
SuDS design - new build						
SuDS design - retrofitting						
Drainage exceedance						
Water quality						
Water resources						
Biodiversity and Biodiversity Net Gain						
Landscape and amenity						

56.

57.

	CIWEM surface water management review					
Asset management						
Partnership working						
Decarbonisation / net- zero carbon						
Property Flood Resilience						
Flood Recovery						
Tick all that apply. Drainage and Wastev Water quality Nutrient neutrality	water Mana	agement P	lans			
Water quality						
River enhancement River Basin Manager Conservation of prot						
Biodiversity and Biod Landscape and amen Decarbonisation / ne	nity					
Infrastructure deliver	ту					
Environmental health Other:						
What future risks or chand capacity to manage	nallenges	are you d		d about h	aving sui	table skills

58. Please rate how effective the following approaches could be for improving capacity within your RMA. (0 = N/A, 1 very ineffective, 5 very effective)

Mark only one oval per row.

	0	1	2	3	4	5
Mentor staff from within your department						
Apprenticeships						
Recruit new staff						
Internal/external secondments						
Use external consultancies on short term contracts						
Use frameworks (EA etc)						
Share resources with other RMAs						
Other (please specify in next Q)						

59. Please suggest any other approaches not included in the list above.

60. Are there sufficient affordable/accessible training opportunities for RMAs on surface water management?

Mark only one oval.

____ Yes

O No

Oon't know

If no, please explain what is needed and why.
What approaches have you used to improve competency and skills within the RMA? (tick all that apply)
Tick all that apply.
Very short (e.g. lunchtime) CPD session
E-learning self-paced modular training courses
Short 1 or 2 day virtual/face-to-face training
Blended learning (e-learning &virtual/face-to-face training)
Work shadowing/experience between RMAs
Community of Practices (web platform and peer-to-peer learning)
Use external agencies/consultancies on short term contracts
Share resources with other RMAs
Apprenticeships
Mentoring (personal support/advice)

63. Please rate how effective the following approaches could be for improvement competency and skills within your RMA. (O = N/A, 1 = very ineffective, 5 very effective)

	0	1	2	3	4	5
Very short (e.g. lunchtime) CPD session						
E-learning self-paced modular training courses						
Short 1 or 2 day virtual/face-to-face training						
Blended learning (e- learning &virtual/face- to-face training)						
Work shadowing/experienc e between RMAs						
Community of Practices (web platform and peer-to- peer learning)						
Use external agencies/consultanci es on short term contracts						
Share resources with other RMAs						
Apprenticeships						
Mentoring (personal support/advice)						

-	ovide any further information about capacity and skills for surfacenagement.
Thank you	Thank you so much for your input into the survey. We appreciate it's detailed and long, however this will provide useful information and evidence.
Are you h responses Mark only Yes No	
If yes, ple	ase provide your contact details (name, contact details)

This content is neither created nor endorsed by Google.

Google Forms