

[Press release: New funding scheme to improve lakes and rivers in England](#)

The Water Environment Grant scheme will help improve the English water environment

A new £27 million scheme to improve the water environment across England has been jointly launched today by Defra, Natural England and the Environment Agency.

The [Water Environment Grant scheme](#) will provide £9 million each year over the next three years to applicants applying for funding to restore local eco-systems and deliver substantial benefits to people and the environment.

Potential projects could include river restoration activities, removal of obstacles to help fish moving along rivers and streams or actions to improve the water quality.

Environment Minister Thérèse Coffey said:

The Water Environment Grant scheme offers a fantastic opportunity for applicants from across the country to secure funding for projects to enhance the environment, boost wildlife and benefit their rural community.

This project will help us to deliver a balanced programme of environmental improvements across England and I am looking forward to seeing the creative and innovative projects of the applicants.

The scheme, funded by the European Agricultural Fund for Rural Development, will award grants to non-profit ventures with greater support for projects which enhance water eco-systems.

WEG is now open to eligible applicants until 11 May 2018. Grants will be determined by the Environment Agency and Natural England and funding will be awarded in August 2018. Successful applicants will be expected to start their projects before March 2019, with completion dates of March 2021.

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[Apply for the Water Environment Grant now](#)

Speech: Putin's sinister threats and lies extend far beyond his own country: article by Boris Johnson

To understand why 3 people lie stricken in Salisbury, look at Vladimir Putin's actions inside Russia.

Yesterday he was proclaimed the winner of an election that resembled a coronation, complete with a triumphant ceremony outside the walls of the Kremlin. Mr Putin's leading opponent had obviously been banned from standing and an abundance of CCTV footage appeared to show election officials nonchalantly stuffing ballot boxes.

One loyal functionary in Siberia used balloons in Russia's national colours for the novel function of covering up a prying camera. "A choice without a real competition, as we have seen in this election, unfortunately is not a real choice," was the verdict of the observer mission from the Organisation for Security and Cooperation in Europe (OSCE).

As he extends his grip on power, Mr Putin is taking his country in a dangerous direction. Throughout his rule he has eroded the liberties of the Russian people, tightened the screws of state repression and hunted down supposed foes.

When a leader starts behaving in this way then no-one should be surprised if many of his compatriots feel drawn to the example of countries that observe a different scale of values. They will notice that plenty of nations hold elections where no-one knows the result in advance. They will see how free societies in Europe, America and elsewhere thrive and prosper precisely because people are able to live as they choose, provided they do no harm.

They will understand how an independent media exposes the failings or evasions of democratic governments. And they will wonder why Russia cannot have the same? Mr Putin cannot give the straight answer, which is that he must deny Russia those freedoms in order to guarantee his perpetual rule. Instead, he has to send an emphatic message that asking awkward questions or turning against him carries a terrible price. Which brings us back to Salisbury. The use of a Russian military grade 'Novichok' nerve agent against Sergei Skripal and his daughter, Yulia, was very deliberate.

As Ken Clarke pointed out in Parliament last week, the obvious Russian-ness of the weapon was designed to send a signal to anyone pondering dissent amid the intensifying repression of Mr Putin's Russia. The message is clear: we will hunt you down, we will find you and we will kill you – and though we will scornfully deny our guilt, the world will know that Russia did it.

There was a hint of this in Mr Putin's first public response to Salisbury. He denied Russia's culpability – of course – while carefully injecting a note of

menace. "If it was military grade agent," he said, "they would have died on the spot, obviously."

Obviously. After all, he had already told state television that traitors would "kick the bucket" and "choke" on their "pieces of silver". Yet the Kremlin, accustomed to a tame official media, is clearly struggling to get its story straight.

Since the Skripals and Detective Sergeant Nick Bailey were struck down on March 4, Russian officials and the state media have claimed variously that 'Novichok' never existed, or the stockpiles were destroyed, or they weren't destroyed but mysteriously escaped to other countries.

[Russian disinformation](#)

Alexander Shulgin, the Russian Ambassador to The Hague, told Sky News: "I've never heard about this programme, about this Novichok agent. Never." But his memory suddenly improved when he appeared on Russia Today and said that Novichok had been developed by the Soviet Union. "There never was such a programme under such a codename in the Russian Federation," he said. "However, in Soviet times research began to produce a new generation of poisonous substances."

This seemed to wrongfoot the Russian foreign ministry, whose spokeswoman, Maria Zakharova, declared on the same day that neither Russia nor the Soviet Union had created Novichok. "This programme is not the creation of Russia or the Soviet Union," she said, before disgracefully pointing the finger at Sweden, the Czech Republic, Slovakia, America – and inevitably the UK.

Meanwhile, other Russian officials have sought to conjure doubt and suspicion out of thin air. Alexander Yakovenko, the Russian Ambassador in London, questioned the absence of photographs of the Skripals in their hospital beds.

His counterpart in Brussels, Vladimir Chizhov, accused Britain of breaking "consular conventions" because Russian officials had not been able to visit the Skripals.

The response to the 2 envoys is so obvious that I can scarcely believe they require instruction. Sergei and Yulia Skripal have been in a coma since 4 March – as you would expect from victims of a nerve agent attack. They cannot give their consent to be photographed or receive visitors. Under the NHS Code of Practice, hospitals must have their patients' permission before allowing this to happen.

And I will make the point as delicately as possible: it is not obvious that the Skripals, of all patients, would welcome a visit from Russian officials. The Russian state is resorting to its usual strategy of trying to conceal the needle of truth in a haystack of lies and obfuscation.

But when I met my European counterparts in Brussels yesterday, what struck me most is that no-one is fooled. Just about every country represented around the table had been affected by malign or disruptive Russian behaviour. Most had endured the kind of mendacious propaganda onslaught that the UK is

experiencing today.

This is how Mr Putin behaves at home; we should not expect anything different abroad.

Speech: Ruling the Waves: How to fight flooding in the 21st Century

A few weeks ago I visited the village of Sea Palling on the Norfolk coast. It was my first time there, and yet when we turned the corner and I saw an old row of houses just behind the huge sand dunes that lead to the beach, I had a moment of powerful déjà vu. I had seen this place before.

And then I remembered where: in a documentary about the great floods of 1953, when an East Coast storm surge swept down the North Sea and killed over 300 people in Britain. In Sea Palling seven members of the same family died. The documentary I had seen contained a deeply moving moment in which one man, only a boy in 1953, told of the loss of his family in that row of houses at Sea Palling on that terrible day.

So let us never get too romantic about the sea or our rivers: beautiful they are, and we must cherish and protect them, but when they rise up, they flood. And floods kill.

The story so far: fifty years of astonishing successes.

We have come a long way since that dreadful night back in 1953. Those floods were a wake up call for the country.

In 1953 our flood defences were still primitive and incomplete. The great storm led directly to the construction of the Thames Barrier which today keeps London safe round the clock, and to the building of many other permanent flood defences up and down the country with a much higher standard of protection than ever before. Almost every day in this country, when rivers and tides rise, rain falls and storms blow, thousands of people sleep safely, unaware that they are being protected from flooding by those defences.

In 1953, most people died because there was no system to warn them of the approaching storm surge. Today there is such a system: together with the Met Office, the Environment Agency runs a cutting-edge flood forecasting service that produces a daily forecast of flood risk for the coming five days for ourselves, the emergency services and local authorities. And when flood does threaten, from rivers or the sea, we warn people in the communities concerned, giving them vital hours in which to act.

Since the last big floods in 2015 we have further upgraded our response

capability. The Environment Agency now has over 6,500 staff trained and ready to deploy to help protect communities when floods threaten; 40km of temporary flood defences, 250 mobile pumps, 500,000 sandbags, 4 Incident Control Vehicles, and drones with real time video. We have built stronger partnerships for incident management, including with the army, with whom we train regularly for the next big flood event. And we have a new philosophy: Think Big, Act Early, Be Visible. That means that we are now deploying more people, more quickly, to more flood incidents than we have ever done before.

I want to recognise today our great partners – the emergency services, the local authorities, the community volunteer groups and the armed forces, who make our country better protected in the face of the flood. And I want to recognise Environment Agency staff themselves, often the unsung heroes when floods hit, who will always go the extra mile for the people and communities we serve.

As we have strengthened our capacity to cope with flooding incidents, we have also continued to build new schemes designed to reduce the risk of floods happening. The government is investing £2.6bn in flood and coastal erosion risk management projects between 2015 and 2021, most of them led and delivered by the Environment Agency. By 2021, 300,000 homes will be better protected.

So as we reflect on how far we have come since 1953, the first thing we should do is celebrate our successes. And then we should sit down and rethink flood defence from first principles. Because what works so well now – and has done in the past – may not be enough in the future. Over the next fifty years, if we are going to give our country the best possible protection against flooding, we are going to need a different approach.

The future: why we need a new approach

Why is that? Let me start with some inconvenient truths:

Inconvenient truth #1: flooding will continue to happen. While we are much better protected now than we were in 1953, we still can't protect everyone, everywhere, all the time – and in a country like Britain it is unlikely that we will ever be able to do so.

We are an exposed island in a stormy North Sea, subject to big coastal surges. We have a lot of rivers and a lot of coastline: in England, the Environment Agency manages flood risk on over 36,000 km of river and 9,000km of raised defences on the coast and inland. And as you may have noticed, it rains rather a lot in this country.

So while we can reduce the risks of flooding, we will never eliminate them. This is not a popular thing to say, in particular to those who are at risk. But we have to deal with the world as it is not as we would like it to be. And if people are at risk, it's our duty to tell them – and work with them to reduce that risk to the minimum.

Inconvenient truth #2: the risks are rising. Climate change is driving more

extreme weather. By the end of this century, sea level around Britain may have risen by a metre or more. We will be experiencing more violent storms and bigger rainfalls. All that means a greater risk of more, and bigger, floods. Meanwhile development and a rising population means more people will be in harm's way. Most people in this country already live in cities, and by the end of the century both the proportion and the total numbers of city dwellers will be even higher. And most of our towns and cities are situated on rivers or the coast. So where most of the people live is where most of the risks are.

Inconvenient truth #3: it's not just the risks that are rising – the costs of mitigating those risks are also rising. Schemes designed to protect against more extreme rainfall and higher tides will tend to cost more than those which protect us against lesser risks. And flood defences aren't a one time investment – they need looking after. As we add more defences to our existing schemes, and those schemes start to age, the cost of maintaining all the schemes we have will also rise. The investment is worth it – for every £1 we spend on a flood defence scheme, we usually get back £10 or more of benefits in terms of the costs of damages avoided. But it is a lot of investment, and there are many other calls on public money.

The future: less concrete, more resilience

So how should we deal with these challenges?

More concrete – simply building our flood defences higher and higher – is not the answer. Or rather, it is not enough on its own. There will be places where it does make sense to invest in classic hard defences: the Thames Barrier, for example, will probably need to be replaced by another Barrier, with the associated flood walls, some time after 2070. And there will still be a role for concrete, and other hard defences, as part of many schemes: the successful Pickering scheme, for example, relies both on “soft” natural flood management measures like wood dams and a hard flood storage basin to slow the flow of water down towards the town.

But in the face of the rising risks and costs, it won't make sense to go on building ever taller, stronger and more expensive concrete defences as the default solution to flood risk. The engineering won't work. And the humans won't put up with it: you can only build a wall so high before people stop wanting to live behind it.

The future: some principles to guide the debate

So what is the right formula for managing flood risk over the next 50 or so years? I don't want to lay out all the answers myself, partly because I don't have all the answers, but mostly because I want us to develop those answers collectively. Today I want to issue an invitation to all of you, and the organisations you represent, to contribute to this debate.

But while I don't want to tell you the answer right now, I do want to suggest some principles that might help guide us towards it; and to identify the sorts of questions we should be asking ourselves.

So, three principles for how to manage flood and coastal erosion risk in the future:

First, do it together. Everyone needs to help meet this challenge: government, the Environment Agency, businesses, NGOs, local authorities, the emergency responders, communities, insurance companies, individual householders. All of us have a role to play, including anyone and everyone who lives in an area of flood risk.

Many people will say that managing flood risk is the government's responsibility or the Environment Agency's responsibility; not theirs. I say that it's everyone's responsibility: if you live in an area of flood risk, you need to take some responsibility yourself. You should know whether you are at risk, you should know what you can do to reduce the risk, and you should take the action that you can. The Environment Agency helps make that possible by publishing comprehensive flood maps and guidance for every householder, which will allow you at the click of a mouse to find out whether you are at risk and how to better protect yourself.

There are many people and communities across England who already do take precisely this approach, many of whom are with us today. I want to salute them, to thank them, and to encourage them to help make more people safer by sharing with other communities the action they've taken and the benefits this has brought.

Second principle for reducing flood risk in future: push all the buttons. We have traditionally concentrated on hard flood defences. In future we will need to do more to reduce the risk before any water hits a flood wall; and more to make us more resilient when it comes over the wall – which it sometimes will. That means working more upstream to reduce the risk of flooding ever happening, and more downstream to ensure that when flooding does occur communities suffer minimum damage and recover with maximum speed.

And that means taking all the actions available to us. We will need to:

- Prevent people and property being put at flood risk in the first place. There are many things we can do here. One is to ensure the right land use planning. The Environment Agency is a statutory consultee on all major development schemes. We have good relationships with the local planning authorities, and they take our advice 97% of the time. That's good, but 100% would be even better. Another powerful intervention we can make is to help farmers farm in ways that don't increase, and preferably reduce, flood risk. The government's proposal that after we leave the EU we will have an agricultural policy that pays farmers public money for public goods, including reducing flood risk, is a great opportunity here.
- Protect communities at risk with a more flexible mix of hard defences (flood walls, sea defences) and soft solutions such as natural flood management.

- Respond even quicker and better when floods threaten, by continuing to improve our preparations, forecasting, warning and managing incidents.
- Recover more quickly after a flood, repairing the damage, restoring the infrastructure and rebooting the local economy.
- Adapt our homes, businesses and cities so that we reduce the damage that floods can do, making our homes, businesses, infrastructure and services more resilient.
- Accept that there will be some flooding of land and some coastal erosion. We will need to make more space on land for flood water, otherwise much of it will end up in people's homes. And on the coast, while we will want to hold the line against erosion wherever that is possible, affordable and desirable, we have to recognise that in places it won't be. So where there is no realistic prospect of stopping coastal erosion we will need to continue to pursue managed retreat.

The future: asking the hard questions

Third and final principle: think the unthinkable. If we are going to do the best we can for the communities we serve, we need to ask the tough questions:

How much flooding is the country really prepared to tolerate, and (another way to ask the same question) how much is it prepared to invest to reduce the risk?

I sometimes hear the argument that the Dutch take flooding seriously and we don't, that they have made their country flood-proof and we should too. I have huge respect for the Dutch, and I do think there is much that we can learn from them. But England is not the Netherlands. The Dutch spend roughly the same as the UK on flood and coastal risk management, and nearly three times as much as we do as a proportion of their GDP. But their flood risk is existential: 2/3rds of their country's GDP is below sea level and if the sea defences breach, much of their country will flood, so they simply cannot allow that to happen. And the level of protection they have is achievable and affordable because of the scale on which they are operating: the whole Dutch coastline is only the length of Essex's.

What is it exactly that we are trying to protect? Our current policy focuses on protecting houses. That's an approach which everyone will understand and support. But the consequence is that most investment in flood defence currently goes to towns not rural communities, and that we don't focus as much on protecting other assets – infrastructure, utilities, farmland. Should we change that? If so, how should we weight the balance in future?

Who pays for flood defence? At the moment the bulk of the money that goes into flood risk management comes from the government, which means the taxpayer. Some argue that this is unfair, because it means that people who

don't live in an area of flood risk are effectively subsidising those who do; and bad policy, because it effectively incentivises people to stay in areas of flood risk when we should be incentivising them to leave; and that therefore people who choose to live in an area of flood risk should pay for their own flood defence.

Personally, I don't agree with that: I think that we are all citizens of this country, and we all have a duty to support each other in the face of whatever threats different communities face. The argument also fails to recognise that flood defences benefit those outside the flood plain as well as those in it, because they prevent the economic harm caused by flooding, which affects the country as a whole.

Where I do think the iconoclasts have a point is in saying that the government should not bear all or most of the funding burden of protecting the country from flood.

Businesses, for example, benefit hugely from flood risk alleviation schemes, even though they normally don't pay for them. If you are a big supermarket, your business model depends on your customers being able to get to you and being able to keep your lights and refrigeration on. If the roads are flooded and the power is out neither of those things are possible. So I do think we should be asking businesses, and others who benefit directly or indirectly from flood defence schemes, to contribute to their funding.

The more funding that others – businesses, local authorities, community groups, NGOs – can contribute to the cost of flood defences, the more money we'll have and the better our defences will be. And the more funders we have for a flood scheme, the greater the local ownership, the higher the levels of engagement in helping design the scheme, and the better the final result.

One more question to reflect on: in future, do we want to defend every inhabited location, or should we consider permanently moving some communities which are at the highest risk? There are places on the coast and on some of our major rivers which are already costing millions of pounds a year to defend, and those costs will only rise over the coming decades. Some argue that it would be cheaper and safer to move the houses and the people than to carry on defending them where they are. I'm not saying we should do that: I know how important place and community are to people. I am saying we should be prepared to have the debate.

So here's my core message: our country is better protected now than ever against flooding; but 20th century methods won't suffice for the 21st century challenges; which means that to meet those challenges, we will need to develop a different approach to flood defence in this country, building on all that we have already achieved.

We in the Environment Agency will be doing some hard thinking of our own on the future, in the new National Flood and Coastal Erosion Risk Management Strategy which we are now developing. In drawing this up we will want to consult the widest possible set of stakeholders.

So let's look for the answers together, and let's not be afraid to ask ourselves the difficult questions. That might be uncomfortable. But we owe it

to future generations. And we owe it to the lost citizens of Sea Palling.

Speech: Ruling the Waves: How to fight flooding in the 21st Century

A few weeks ago I visited the village of Sea Palling on the Norfolk coast. It was my first time there, and yet when we turned the corner and I saw an old row of houses just behind the huge sand dunes that lead to the beach, I had a moment of powerful déjà vu. I had seen this place before.

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And that means taking all the actions available to us. We will need to:

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The future: asking the hard questions

Third and final principle: think the unthinkable. If we are going to do the best we can for the communities we serve, we need to ask the tough questions:

How much flooding is the country really prepared to tolerate, and (another way to ask the same question) how much is it prepared to invest to reduce the risk?

I sometimes hear the argument that the Dutch take flooding seriously and we don't, that they have made their country flood-proof and we should too. I have huge respect for the Dutch, and I do think there is much that we can learn from them. But England is not the Netherlands. The Dutch spend roughly the same as the UK on flood and coastal risk management, and nearly three times as much as we do as a proportion of their GDP. But their flood risk is existential: 2/3rds of their country's GDP is below sea level and if the sea defences breach, much of their country will flood, so they simply cannot allow that to happen. And the level of protection they have is achievable and affordable because of the scale on which they are operating: the whole Dutch coastline is only the length of Essex's.

What is it exactly that we are trying to protect? Our current policy focuses on protecting houses. That's an approach which everyone will understand and support. But the consequence is that most investment in flood defence currently goes to towns not rural communities, and that we don't focus as much on protecting other assets – infrastructure, utilities, farmland. Should we change that? If so, how should we weight the balance in future?

Who pays for flood defence? At the moment the bulk of the money that goes into flood risk management comes from the government, which means the taxpayer. Some argue that this is unfair, because it means that people who don't live in an area of flood risk are effectively subsidising those who do; and bad policy, because it effectively incentivises people to stay in areas of flood risk when we should be incentivising them to leave; and that therefore people who choose to live in an area of flood risk should pay for

their own flood defence. Personally, I don't agree with that: I think that we are all citizens of this country, and we all have a duty to support each other in the face of whatever threats different communities face. The argument also fails to recognise that flood defences benefit those outside the flood plain as well as those in it, because they prevent the economic harm caused by flooding, which affects the country as a whole.

Where I do think the iconoclasts have a point is in saying that the government should not bear all or most of the funding burden of protecting the country from flood.

Businesses, for example, benefit hugely from flood risk alleviation schemes, even though they normally don't pay for them. If you are a big supermarket, your business model depends on your customers being able to get to you and being able to keep your lights and refrigeration on. If the roads are flooded and the power is out neither of those things are possible. So I do think we should be asking businesses, and others who benefit directly or indirectly from flood defence schemes, to contribute to their funding.

The more funding that others – businesses, local authorities, community groups, NGOs – can contribute to the cost of flood defences, the more money we'll have and the better our defences will be. And the more funders we have for a flood scheme, the greater the local ownership, the higher the levels of engagement in helping design the scheme, and the better the final result.

One more question to reflect on: in future, do we want to defend every inhabited location, or should we consider permanently moving some communities which are at the highest risk? There are places on the coast and on some of our major rivers which are already costing millions of pounds a year to defend, and those costs will only rise over the coming decades. Some argue that it would be cheaper and safer to move the houses and the people than to carry on defending them where they are. I'm not saying we should do that: I know how important place and community are to people. I am saying we should be prepared to have the debate.

So here's my core message: our country is better protected now than ever against flooding; but 20th century methods won't suffice for the 21st century challenges; which means that to meet those challenges, we will need to develop a different approach to flood defence in this country, building on all that we have already achieved.

We in the Environment Agency will be doing some hard thinking of our own on the future, in the new National Flood and Coastal Erosion Risk Management Strategy which we are now developing. In drawing this up we will want to consult the widest possible set of stakeholders.

So let's look for the answers together, and let's not be afraid to ask ourselves the difficult questions. That might be uncomfortable. But we owe it to future generations. And we owe it to the lost citizens of Sea Palling.