

Flood GuideInformation and forward planning









About this guide

This guide has been produced by West Sussex County Council as Lead Local Flood Authority in association the National Flood Forum (NFF) and the West Sussex Flood Risk Partnership which includes WSCC, all district and borough councils, Environment Agency, NFF and Southern Water. It offers practical advice about potential emergency situations we could face in the future due to flooding.

The risk of flooding is an increasingly important issue across West Sussex, with over 100,000 properties at risk. The coastline of the county is generally low-lying and many of our towns and villages are located near rivers. As a result we are vulnerable to flooding both from the sea, from the County's rivers following heavy rainfall, from surface water run-off and groundwater.

Due to climate change the risk of flooding will increase as sea levels rise, winter rainfall increases and flash storms become more frequent. This means more people will be at risk more often. Flood protection measures are in place in many areas across the county, however the risk of flooding cannot be completely eliminated, nor can flood damage be entirely prevented.

A considerable amount of work and financial investment has been undertaken by the County and District Councils, the Environment Agency and Southern Water Services to reduce the risk of flooding. These include improved highways drainage schemes and new flood alleviation projects through projects such as Operation Watershed which is an £8.25 million commitment to invest in highway drainage and environmental improvements in areas of the county worst affected by floods.

Whilst the risk of flooding can be reduced, it cannot be prevented entirely. However, there are a number of simple steps that can be taken to make sure we are prepared before a flood happens.

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Am I at risk of flooding?

To best prepare for the possibility of flooding, it's a good idea to find out whether your house or business is at risk.

The best available mapping indicates that over 100,000 properties are in areas susceptible to flood risk within the West Sussex. Even if your home is not directly at risk from flooding, we can all be affected by the consequences of an unexpected event. Surface water or flash flooding, usually resulting from torrential rain over a short space of time, has caused much disruption historically. Unlike river and coastal flooding, surface water flooding is much more difficult to predict.

You can check the risk of river flooding to your property by looking at the environment agency flood map at www.environmentagency. gov.uk/homeandleisure/floods and type in your postcode.

The flood risk map is intended only as a guide and is not designed to be accurate at an individual property level.

Visit www.westsussex.gov.uk/
flooding where you can sign up
to severe weather alerts from
West Sussex County Council and
find out more about signing up
for other free flood warnings.



What is a 1-in-100 year flood risk?

The phrase can be confusing. Many mistakenly believe that it is a flood that occurs every 100 years. However, the phrase really means a flood that has a 1 percent chance of occurring in any year. The Bognor Regis rainfall event in June 2012 saw over 100mm of rain fall in 24 hours. This area may see 600mm annually. In Bognor Regis, this downpour equated to a 1 in 200 year rainfall event, or a 0.5 % annual probability event.

If you have a watercourse on your land

Blocked ditches are common cause of flooding in West Sussex, if the drainage ditches have not been kept clear they are unable to do their job in carrying water away and as a result contribute significantly to the effects of localised flooding.

If you live next to a watercourse and own at least one of the banks you are a 'riparian owner'. You may not even be aware that you have a drainage ditch at the bottom of your garden. It is important to check however, as you have responsibility for the maintenance and upkeep of the watercourse to

ensure that it is not a flood risk to other people or property. If you are a riparian owner and this has not been disclosed to your insurance company it could affect your ability to claim in the event of a flood.

The Environment Agency leaflet 'Living on the Edge - A guide to your rights and responsibilities of riverside ownership' available on the Environment Agency website explains riparian ownership further. www.environmentagency.gov. uk/homeandleisure/floods.

More information on your responsibilities as a Riparian owner can be found at www.westsussex.gov.uk/flooding

Act now: Be prepared

If you live in an area at risk of flooding, act now and plan what you would do in a flood.



Flooding can happen quickly so preparing in advance can reduce the damage and disruption flooding can cause.

Sign up for **Floodline Warnings direct**



Floodline Warnings Direct is a free service provided by the Environment Agency to warn residents in flood risk areas, about river flooding. Alerts can be sent by phone, mobile, email, text message and pager.

Sign up online at www.environment-agency.gov.uk or call Floodline 0845 988 1188

Sewer Flooding

Southern Water is responsible for the public sewer network which most commonly carries both wastewater and rainwater.

When the sewerage network is overwhelmed by heavy rainfall, flows can back up and flood homes and streets from toilets and manholes.

Southern Water has measures in place to help protect homes against flooding. However, sometimes the sheer volume of water and other problems like sewer blockages mean flooding will occur.

About three quarters of sewer blockages are caused by wet wipes and other non-biodegradable items which have been flushed down toilets and cooking oils which have been poured down sinks.

Customers can help keep the sewers clear by putting these items in the bin.

For more information on what to do if you are affected by sewer flooding and on how to keep the sewers running clear, visit www.southernwater.co.uk/ floodingfacts



Understand the environment agency **Flood Warning Codes**

These are the flood codes/symbols used by the Environment
Agency to warn of river flooding. Please be aware the 'Severe Flood
Warning' symbol may be issued after some flooding has already occurred.









Surface water flood warnings

Whilst we have good data on where has flooded previously during heavy rainfall, accurate predictions of difficult and are based on monitoring where rain is expected to fall and the intensity of the rainfall.

The Met Office and Flood Forecasting Centre put out rainfall warnings and Flood Guidance statements. At West Sussex County Council we forward the higher risk alerts (amber and above) to all subscribers via AlertMe, which is our email alert system.

Find out more at www.westsussex.gov.uk/flooding

River and Sea level live monitoring

The Environment Agency measure river and sea levels across England and Wales by collecting data from their monitoring stations along the rivers and the coast.

Find out more at www.environment-agency.gov.uk/homeandleisure/floods/riverlevels

Make a Flood Plan

A Flood Plan can help you act quickly and make practical decisions in the event of a flood. A personal Flood Plan template is available from the environment agency's website www.environment-agency.gov.uk/homeandleisure/floods but these are some of the key things to consider:

- Keep a list of useful telephone numbers handy, for example for your relatives and friends and insurance company etc.
- Avoid keeping key contact numbers solely in your mobile phone as it may get lost or wet.
- Make sure you have the correct insurance cover. The National Flood Forum has more information on obtaining flood insurance on their website www.floodforum.org.uk or can be contacted on 01299 403055 for advice. Government information and advice can be obtained from the Defra website www.defra.gov. uk/publications/2012/07/19/pb13082flood-insurance/
- Check you know how to turn off your gas, electricity and water supplies.
- Make an emergency kit (see over page)

- Put important documents out of flood risk and protect with polythene or dry bags.
- Think about what belongings you can move now and what you would want to move during a flood.
- Identify what you would need to take with you if you had to leave your home.
- Think about where you could move your car to, if you were able to safely, before flooding.
- Talk about possible flooding with your family, or anyone who lives with you. You and your family should agree how you will contact each other and where you will go in case you become separated during flooding.





Emergency Kit

- Insurance documents, other important documents
- Insurance emergency helpline, local council and emergency services numbers, family & friends telephone numbers, local radio frequencies
- Torch
- Batteries (not rechargeable)
- Portable radio (windup preferable)
- Mobile phone
- First aid kit with essential prescription medication / repeat prescription form
- Bottled water (check use-by date)
- Non-perishable food items (including energy or cereal bars)

- ☑ Blankets, warm clothes
- Wash kit and essential toiletries (including toilet paper and wet wipes)
- Children's essentials (milk, baby food, sterilised bottles & spoons, nappies, wipes, nappy bags, clothing, comforter, teddy or favourite toy)
- Camera (disposable) to record damage for insurance purposes
- Emergency cash
- Additional items for flood kit: wellington boots, waterproof clothing, rubber gloves

Visit www.westsussex.gov.uk/ flooding for further information and a short film on how to prepare an emergency kit.

How can my community prepare?



Community Emergency Plans

West Sussex County Council have been encouraging local communities e.g. parishes/wards, to develop their own Community Emergency Plan for all emergencies that may affect the local community including flooding. The aim is to support emergency response arrangements the authorities have in place and building on the resilience of communities by enhancing 'good neighbour' support and enabling effective action in support of the most vulnerable.

If your community has a Community Emergency Plan there may be support available if you are flooded. If you aren't at risk of flooding you could volunteer to assist in an emergency. Contact your local Parish Council to see if your community has an Emergency Plan.

Forming a Flood Action Group

Flood Action Groups are a representative voice for their community and their aim is to work in partnership with the Agencies and Authorities whose work involves flood risk.

Forming a community based flood action group to work on behalf of the wider community in finding ways to reduce flood risk, has proved very effective across England and Wales.

The National Flood Forum www.nationalfloodforum.org.uk supports communities in the formation of Flood Action Groups, gives tools to ensure their success and sustainability and initiates the first meeting with all the right professionals needed.

Flood protection for your home

Although it isn't possible to completely flood proof a property, if your house is at risk of flooding, or has flooded in the past, there are steps you can take to reduce the damage flooding can cause.

The most important thing is to prepare in advance as you won't have time to buy or put measures in place once flooding is likely.

Try to keep water out:

- Doors consider purpose built flood board/gates that can be put in place when flooding is imminent. It may be possible to replace your existing external door with one that is flood-proof. Door thresholds can also be raised.
- Walls and floors consider raising damp-proof brick courses. Sealing floors and 'tanking' can prevent water rising up through the ground.
- Air bricks replace with those that automatically close when flood water rises or fit specially designed covers that can be placed over ventilation bricks when flooding is imminent.



- Drains and pipes non-return valves on drains and water inlets/outlets can prevent water from coming back up the drains and toilet foul pipe.
- Council and the Environment Agency do not supply sandbags to protect personal property. Contact local builders' merchants for stocks of bags and sand. Alternatively, you can find suppliers of modern non-sand bags designed for flooding on the National Flood Forum Blue Pages Directory.

If flood water is more than 1m high, you may cause more harm than good by keeping water out. The force of the water may cause structural damage to your property.

There are numerous other flood protection products on the market which may give you more time to move your possessions off the ground floor to safety.

For more information on flood protection products and services the National Flood Forum publishes the 'Blue Pages Directory' www.bluepages.org.uk

If you are going to buy a flood protection product, check it displays the British Standards Institute

(BSI) Kitemark to show it has been properly tested and achieved Kitemark accreditation. The BSI maintain a list of all manufacturers of flood protection products that have achieved Kitemark accreditation on their website www.kitemark.com

To reduce the cost and repair time after any future flood, you could:

- Fit plug sockets, boilers, and service meters higher on walls.
- Choose water-resistant door and window frames (and use silicone sealant).
- Get a chemical damp-proof course below joist level; and install automatic airbricks or those with removable covers.
- Replace mineral insulation within walls with closed cell insulation.
- Have non-return valves in drainage pipes to prevent sewage backing up into the house.
- Check access points for pipes (e.g. washing machines) for gaps and fill.
- Use waterproof sealant on external walls; waterproof paint on internal walls.
- Replace carpets with floor tiles.

And if there's a choice, you can:

- Go for solid flooring (concrete covered with treated timber or sealed tiles) - more resistant than floorboards or chipboard.
- Have wood or plastic kitchen/ bathroom units rather than MDF/ chipboard.
- Pick lime or cement rendermore water-resistantthan normal plaster.
- Replace ovens with raised, built-under types.
- Choose rugs rather than fitted carpets.

Remember to check with your insurer to ensure they are aware of any flood resilience improvements you have made

and see if any work you carry out will lead to lower premiums.

If you're going to make permanent changes to protect your property against flooding, it is strongly recommended you seek professional advice. Currently there is no formal assurance scheme for flood surveyors but the following institutions hold lists of members who have undergone internal vetting and adhere to a common code of conduct:

Royal Institute of Chartered Surveyors (RICS) www.rics.org Tel: 0870 333 1600

Royal Institute of British Architects (RIBA) www.architecture.com Tel: 020 7580 5533



During a Flood



If floods are forecast

- Check for severe weather warnings and flood warnings by listening to the radio and TV. Phone Floodline on 0845 9881188 for river flooding information.
- Protect what you can by moving pets, vehicles, valuables, sentimental items (photo albums) and important documents to safety/higher ground.
- Prepare food that you can eat without cooking, clean bottled water, warm clothes.
- Charge your mobile phone.

If floods are imminent

- If you have a flood plan put it into action.
 - BBC local radio has a special role to provide information in emergencies.
- For the latest travel information, and to hear about what Council services may be disrupted, tune in to local radio or TV.
 West Sussex County Council will put messages out via the following stations:
 - BBC Sussex (95.3, 104.5 and 104.8 FM)
 - Heart Sussex FM (102.4 and 103.5 FM)
 - Spirit FM (96.6, 102.3, 106.6 FM)
 - Splash FM (107.7 FM
- Follow us on Twitter
 #floodaware and #westsussex
 and lookout for updates.
- Alert vulnerable neighbours.
- Switch off gas, electricity and water at the mains.
- Ensure sandbags or flood boards, airbrick covers and other flood protection products are in place.



- Plug sinks/baths or low level shower trays and weigh them down to prevent backflow.
- If you do not have non-return valves fitted, plug water inlet pipes with towels or cloths and disconnect any equipment that uses water and plug or seal if possible to prevent water entering your home (e.g. washing machine and dishwasher).
- Store smaller electrical appliances and furniture as high as possible.
- Do as much as you can in daylight. It will be much harder at night, particularly if the electricity fails.
- In the case of flash flooding, evacuate basement flats immediately and seek higher ground.

Stay alert to localised flooding - surface water' or flash flooding, usually happens where drainage systems are unable to cope with heavy spells of rainfall. The Environment Agency cannot provide direct warnings for this type of flooding. Instead they forecast where it might be a problem in certain counties and put a daily flood risk forecast on their website.

You can find out about the possibility of surface water flooding in your area by checking local weather forecasts and traffic news. If surface water flooding is possible, District Councils and West Sussex Highways monitor those areas that are more susceptible and take measures to reduce potential flooding where possible.

If you have to evacuate

- Emergency services will tell you if you need to evacuate. Follow their instructions carefully. However, a situation may arise when you have to make the decision to leave your home and seek safety. Let the emergency services know you have left as soon as you can.
- Remain calm and leave as quickly as possible.
- Get your family and pets together.
- Check if neighbours need help.
- Make sure fires are out and appliances are turned off.
- Shut all windows and lock doors.
- You may be able to arrange to stay with family or friends, or your insurance may cover the cost of alternative accommodation.
- Emergency accommodation will be provided by local authorities at a Rest Centre, if you are unable to make alternative arrangements. You will be told where the Rest Centre is located, and transport will be provided for those without.

- If you decide to stay with family or friends let the Police or your council know.
- Do not return home unless you are told by authorities that it is safe to do so.
- Take your emergency kit, including any prescription medicines.

Staying safe in a Flood

At home

- Call 999 if life is at risk.
- Listen to advice given on local radio
 - BBC Sussex (95.3, 104.5 and 104.8 FM)
 - Heart Sussex FM (102.4 and 103.5 FM)
 - Spirit FM (96.6, 102.3, 106.6 FM)
 - Splash FM (107.7 FM)
- Avoid electric shocks keep extension cables out of water and wear wellington boots. Don't use damp electrical items-get them checked by a professional.
- Flood water may be contaminated by silt, sewage, oil or chemicals. Try to avoid coming into contact with it.

- Don't eat any foods that may have been contaminated with flood water.
- Only use crockery, cutlery and work surfaces that have been disinfected.
- Wear protective gear (e.g. gloves, face mask) and wash your hands after any contact with flood water. Cover cuts and grazes with waterproof plasters.

Beware of carbon monoxide fumes from petrol or diesel generators or gas heaters - they can kill. Do not use indoors. Electric pumps should only run through a circuit breaker.

Only pump out water when flood levels outside your property start to be lower than inside. This reduces the risk of structural damage.

- Seek medical advice if diarrhoea, fever or abdominal pain affects anyone.
- Mould can be a health hazard for babies, people with allergies, asthmatics, and the elderly. They should stay away during the clean up.
- Gas and electricity supplies should remain switched off until a qualified professional has checked the systems thoroughly.

If you have children...

- Don't let them play in floodwater – they risk drowning and infections.
- Contaminated toys will need disinfecting.

If your garden floods...

Don't let children or pets onto affected grass or paved areas until cleaned.



- Remove any toilet waste from affected areas by shovelling it into black bags, and sealing them.
- After the grass has grown and been cut once there should be no further risk as sunlight and soil will usually destroy harmful bacteria within a week.
- Don't eat any vegetables you may be growing that have been contaminated with flood water.

Walking outside...

- Avoid walking through flood water – six inches of fast flowing water can knock you over
- Man hole covers may have come off and there may be other hazards you can't see.
- Don't walk along riverbanks or across river bridges if avoidable - they may collapse in extreme situations, on the road:
- Avoid travel but if you must, drive slowly and cautiously. You may know your local roads well, but a flood can alter the landscape dramatically and turn a quiet road into a potential hazard.
- Don't drive through water if you can't tell how deep it is.
 Around two feet of water is all it takes to float many cars.

- Aqua-planing is much more likely in flood conditions.
- Drive considerately: remember your bow-wave could flood nearby homes.
- Don't drive down closed roads.
- 80% of flood-related deaths occur inside a vehicle. If your car stalls in the water, do not attempt to recover it - leave it and move yourself to safe ground.
- Let someone know your travel plans.

Water advice

Follow the advice of your local water company regarding the safety of the water supply.

If in doubt, boil all water intended for drinking, brushing teeth, washing food and cooking.

Take precautions for formula-fed infants. The preferred option is to use bowser or bottled water, brought to a 'rolling boil' and cooled. Unboiled water should not be used.

Useful sources of information

- Health Protection Agency www.hpa.org.uk/flooding
- NHS Direct on 0845 4647 or www.nhsdirect.nhs.uk

After a flood

If you are unfortunate enough to be flooded, here are a few pointers for when you first get home.

Insurance

If you are insured, contact your insurer. If possible take photos or video of the damage (if you have lost your camera in the flood use a disposable camera or mobile phone). Do not undertake any clearance or repair work until your insurer has given approval. A loss adjuster will visit your house and advise you what to do. Do not dispose of anything until your loss adjuster advises you what to do.

First tips

Clean taps and run them before use. Have power and gas supplies checked by a professional electrician or gas plumber before turning them back on. Throw away food (including freezer items if power has been off) that may be contaminated and restock your supplies.

The three-step clean-up

If possible, don't fully re-occupy your property until after the following:

1. Remove water and mud

The Fire & Rescue Service can pump out standing water but will charge for non-emergencies. Otherwise use a pump (from a hire or DIY shop), or use buckets followed by a wet/dry vacuum.

See overleaf for safety advice

Shovel out mud (which may be contaminated) then hose out or use a garden sprayer.

2. Clean and disinfect

- Wear protective clothes, boots and rubber gloves.
- Use a brush, soapy water and heavy duty cleaner, then rinse.
- Floodwater may be contaminated so disinfect all areas affected after cleaning.
- Make sure you wash your hands with disinfectant after cleaning up.
- Disinfecting also avoids mildew and moulds.



3. Dry

- Take furniture, bedding and clothing outside, to avoid mould.
- Use fans plus industrial heaters and dehumidifiers.
- Have the central heating on at 22°C or above.
- Drying out can take weeks or even months. If it's done too quickly, it can cause structural damage and long-term problems.
- Good ventilation is essential

 keep windows and doors
 open on dry days and remove
 any air brick covers.

Who can I speak to?

- Insurance Contact your company's (24 Hour) Emergency Helpline as soon as you can. If paying for help, keep receipts for any emergency pumping or repair work done. Keep photographic records of ALL flood damage.
- Your district council's Environmental Health department

Personal help

Coping with the aftermath

Experiencing a flood can be frightening, and the activities of normal life can be disrupted. For most people, feeling distressed does not interfere with their ability to cope with the process of recovery. However, it is important not to underestimate the stress and strain of being flooded and cleaning up after floods.

Take the time to consider you and your family's mental and physical health and well-being; for example remember to eat regularly, try and find ways to relax, perhaps by taking a quiet walk. Do not overdo it when cleaning up, and remember that tiredness, difficulty sleeping and anxiety are normal in these circumstances.

It is important to not underestimate the effect flooding can have, seek help and advice as soon as possible. Visit you GP for help and advice of you feel you are suffering from prolonged anxiety or stomach upsets for example.

Public Health England has published information to help people cope after being involved in a major incident or event, like flooding.

The leaflet 'Mental health and flooding - Advice for the Public' is available from www.hpa.org.uk/flooding and provides important advice and information about the impacts of being flooded on people's mental health.

Samaritans

The Samaritans offer confidential and emotional support to those experiencing personal crises.

Samaritan volunteers are trained to listen without judgement, whatever the concerns of the caller are and regardless of their race, gender, religion, ability or sexual orientation.

You can ring the Samaritans on 08457 90 90 90 every day, 24 hours a day. **www.samaritans.org**



Financial help

Council tax relief and benefits

If you are unable to live or work in your property, you may be able to get a discount on paying council tax or business rates. Contact your district council.

Citizens advice Bureau

Citizens Advice Bureau provide free, confidential and independent advice from offices within West Sussex. If you're having problems because of the flooding, an experienced adviser should be able to help answer your questions.

Advice is available face-to-face and by telephone.

www. citizen sadvice.org. uk

Insurance

Zurich Home Insurance says "Your insurance company should confirm the level of cover available to you and provide a loss adjuster and other specialists to project-manage the repair work to your home. They will return it to the condition it was in before flood damage. Remember, drying out can take weeks or even months, depending on how long the water was in the property, and how deep it was. Your insurance cover should help pay for alternative accommodation whilst the property is uninhabitable."

"Unfortunately, if you have no insurance, you won't be covered for any damage already caused by taking out a new policy after you have been flooded. Speak to your district council or Citizens Advice Bureau to find out if any grant or alternative support is available."

Distraction burglaries and cold callers

After a flood, beware of doorstep callers who may try to trick you into allowing them access to your home and steal from you. They may try to gain entry by asking to turn off your water or check the electricity.

- Always put the chain on when answering the door and make sure windows and other doors are locked (just in case an accomplice tries to enter elsewhere while you are talking).
- Check a caller's ID and phone the company to check they are genuine if you have any doubts.
- Call a neighbour or 999 for assistance if you are worried.

Rogue traders

If callers offer to do work, the Association of British Insurers recommend that you should:

- Beware of tradesmen who can start the next day - reputable ones are usually busy.
- Ask to be put in touch with past clients to see samples of work.
- Beware of someone who gives only a mobile phone number and no business address.
- Look out for vulnerable neighbours who may be falling victim to rogue traders.
- Beware of cold selling door to door of flood protection products.

Don't pay in advance, do pay in stages and don't make the final payment until you are happy with the work.

Useful contacts and further information

West Sussex County Council

www.westsussex.gov.uk Tel: 01243 777100

West Sussex Highways

www.westsussexhighways.org/ Tel: 01243 777100

Flooding and drainage

www.westsussex.gov.uk/flooding

Preparing for emergencies

www.westsussex.gov.uk/emergencies

Trading Standards

www.tradingstandards.gov.uk

District Councils

Adur District Council

Telephone: +44 (0)1273 263000 www.adur-worthing.gov.uk

Crawley Borough Council

Telephone: +44 (0)1293 438000 www.crawley.gov.uk

Arun District Council

Telephone: +44 (0)1903 737500 www.arun.gov.uk

Horsham District Council

Telephone: +44 (0)1403 215100 www.arun.gov.uk

Chichester District Council

Telephone: +44 (0)1243 785166 www.chichester.gov.uk

Mid Sussex District Council

Telephone: +44 (0)1444 458166 www.chichester.gov.uk

Worthing Borough Council

Telephone: +44 (0)1903 239999 www.adur-worthing.gov.uk/

Environment Agency

www.environment-agency.gov.uk/homeandleisure/floods

Tel: 08708 506 506 General Enquiries

Tel: 0845 988 1188 Floodline

NHS Direct

www.nhsdirect.nhs.uk Tel: 0845 46 47

Health Protection Agency

www.hpa.org.uk/flooding

National Flood Forum

www.floodforum.org.uk Tel: 01299 403 055

Citizens Advice

www.citizensadvice.org.uk
Association of

British Insurers www.abi.org.uk Tel: 020 7600 3333 Chartered Institute of Loss Adjusters (CILA)
Guidance note in the event of flood damage

www.cila.co.uk Tel: 020 7216 7580

Construction Industry Research and Information Association (CIRIA)

www.ciria.com/flooding Tel: 020 7549 3300

Electrical Safety Council Flood Damage and Electrical Safety document

www.esc.org.uk/public/newsandcampaigns/news/news/article/ flooddamage-and-electrical-safety-1/ Tel: 020 3463 5100

British Damage
Management Association
www.bdma.org.uk/publications/
flooddocs

Tel: 07000 843 23



Your essential

Flood Guide

Information and forward planning



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