

2016

start FRAMES  
01.10.16

2017

2018

2019

2020

end  
31.07.20

movie



wiki



toolbox



website

policy  
advice

partners



budget

ERDF  
contribution

## Multi-Layer Safety Approach

Layer 1

Flood prevention



Layer 2

Spatial adaptation



Layer 3

Emergency response



Layer 4

Resilient recovery



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## Top 10 policy recommendations

- 1 Assign representatives of all involved actors and assign them responsibilities.
- 2 Bring all stakeholders together regularly.
- 3 Honest and transparent communication.
- 4 Make it visible! 3D overviews, maps, models, gamification, etc.
- 5 Assess vulnerability of critical infrastructure and cascades.
- 6 Design an ongoing (stakeholder) process.
- 7 Create a long term vision on economic and social land use with the local stakeholders.
- 8 Make a pilot sustainable to guarantee continuity.
- 9 Make regional authorities responsible for the FRM coordination.
- 10 Include transnational learning.

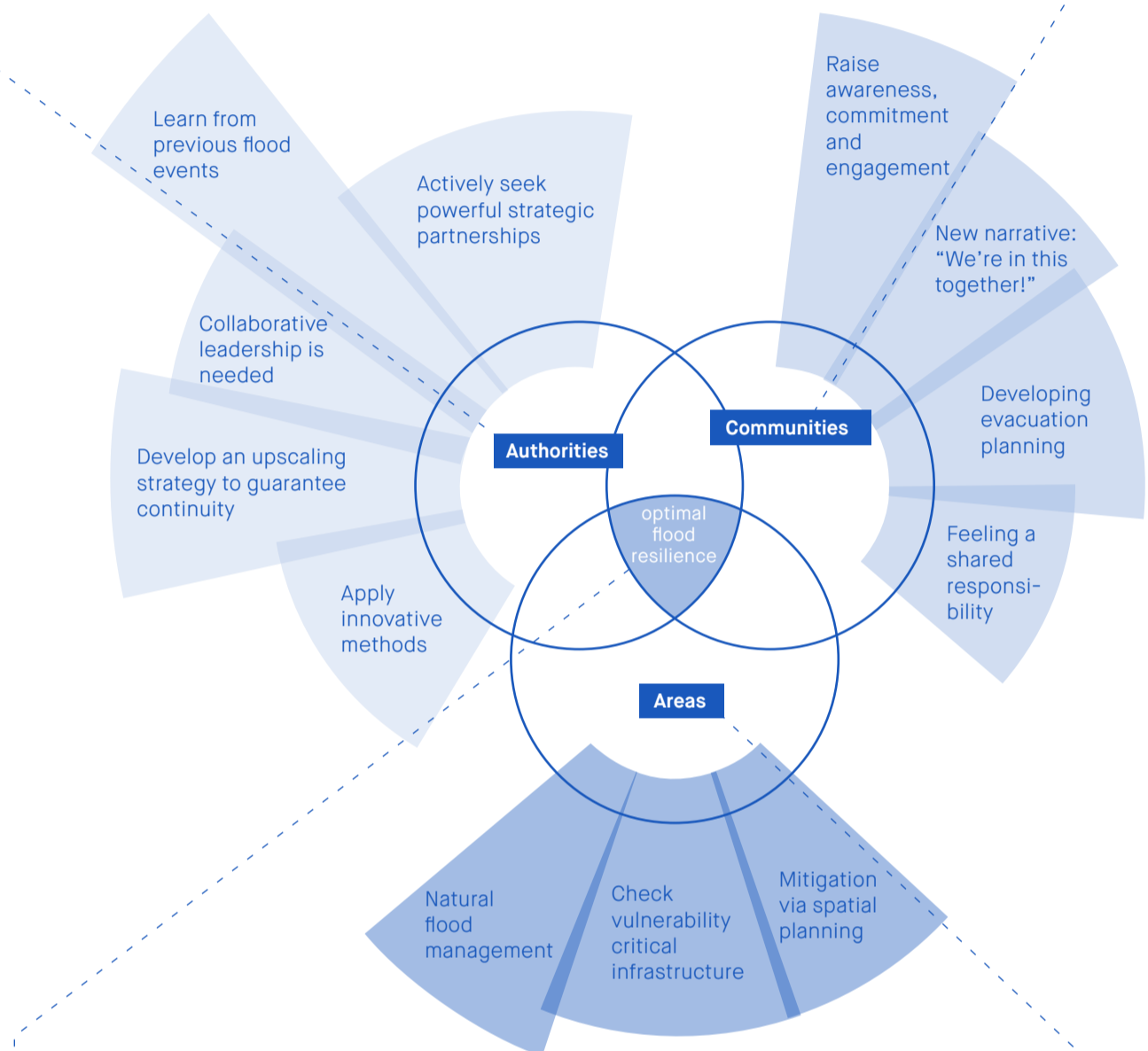
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# Optimal flood resilience!

The effects of floodings increase every year in the North Sea Region, threatening multiple core functions of society. There will never be enough resources to protect every single citizen, but if we smartly join forces and combine resilience measures we can minimise impact. Flood Resilient Areas by Multi-layered Safety, FRAMES in short, researched how Multi-Layer Safety (MLS) can improve the overall flood resilience of areas, communities and authorities.

We involved community groups and made them more resilient by raising awareness of flooding and its risks in several events, on the FRAMES Wiki, in risk assessment sessions and so on. But also by providing educational packages for teachers at schools for instance and donating tools to citizens like free water butts.

Every pilot analysed their stakeholders and developed a communication strategy to increase the awareness for minimising effects of floods. Decision makers and authorities were engaged in sessions and events and can use the Decision Support System we developed which helps drawing up the best flood risk policy.



An integrated approach such as MLS surely helps optimising flood resilience. We still have a long way to go, therefore the overlap in this graphic has yet to become a lot larger!

Educate yourself on

[FRAMESWIKI.EU](https://frameswiki.eu) →

By bringing together flood risk management experts, spatial planners and land-users the best spatial planning was reached. Same goes for owners of critical infrastructure (electricity, gas, transport, etc); by checking its vulnerability due to flooding, preventive measures can be taken. Visible measures like leaky wooden barriers and ponds created more space for water at catchment level.

## Our pilots

15 pilots in exchanged experiences and inspiration about their findings on Multi Layer Safety within flood risk management in the North sea Region. Click on the pilots (white dots) for more information.



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