Climate change has significant effects around the world.

Climate change has already affected society in many ways, for example, in relation to water resources and food production, health and well-being and cities and infrastructure.

Observed impacts		
Water resources and food production	Water availability	
	Crop production	
	Livestock health and productivity	
	Fisheries yields and aquaculture production	
Health and well-being	Infectious diseases	
	Health and nutrition	
	Mental health	
	Displacement	
	Inland flooding and associated damages	
	Flood/storm damage in coastal areas	
	Damages to infrastructure	
	Damages to key economic sectors	



Medium



To keep global warming under 1.5 °C, adaptive measures are needed in many sectors.

The feasibility of adaptation measures depends on technological, economic, socio-cultural, institutional and geophysical factors and various environmental factors.

Adaptation	options		Feasibility	
		Integrated coastal zone management		Confidence:
Terrestrial and ocean eco- system services	Sustainable forest management, conservation and restoration		Mediur	
	Sustainable aquaculture and fisheries		Feasibility le	
	Biodiversity management		●●● High — ●● Mediu	
Water and food security	Sustainable water management		Low	
	Improved crop land management			
	Efficient livestock systems			
Urban infrastructure and services	Green infrastructure and ecosystem services			
	Resilient power systems			
Health, living standards and equity	Health and health systems adaptation			
	Livelihood diversification			
				\bigcirc

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Climate change affects food security all over the world.

The changes will affect all parts of the food production chain in a variety of ways.



Quantity and availability

Stability of supply

- Yields and productivity
- Quality losses
- Employee productivity
- Pollination
- Soil fertility and moisture
- Plant pests and animal diseases

- Fluctuations in production
- Pest and disease risks
- Disturbances in food transport





Food security can be supported through various adaptive measures around the world.

Many adaptation measures have synergies with climate change mitigation and sustainable development. However, the effectiveness of the adaptation measures will be limited if global warming exceeds 1.5 degrees Celsius.



Climate change also affects flooding in Finland.

Examples of impacted areas in Finland	Change 2040	Change 2080
Northern Finland and Ostrobothnia	😂 No significant change	Uncertain development or decreasing
The largest lakes in the lake district	Inland flooding as common or more common	n 🕂 Inland flooding increasing
Small watersheds in the South and West	Inland flooding as common or more common	n common Inland flooding as common or more common

Impacts vary from region to region, and adaptation and preparedness can affect flood risks.



Rising sea levels and extreme weather phenomena will increase the risk of flooding on the coast of the Gulf of Finland.









