Climate change adaptation in cities

Coming into action

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Why should I care about climate impacts?

Climate change is happening!

- more heat waves
- more and higher floods
- higher sea level
- cloudbursts and storms
- or more droughts

- your's and other people's life and health are threatened
- houses and infrastructure are at risk
- transport, energy, water and food supply is at risk

Have you allready experienced extreme events in the past?

Which areas were flooded?

Have people suffered from heat or flooding?

Was power broken?...

and/or

Are you aware of climate projections for your region? What do they tell?

and/or

Have you built the city at vulnerable places?
Or is it badly designed?
along a river?
on mountain slopes?
in dry areas?

The longer you neglect the problem, costs to adapt will rise!

You might lock in into a situation which no longer works in the future and which you cannot change!

Reduce suffering and costs overall by considering climate change impacts now!

Resilience makes you strong

Adaptation offers great opportunities to transform to the better

So ...

- Could you be affected?
- What can you gain from adapting?

Let's find out!

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Need just a bunch of money to start?

Many options to act

soft

grey

green

low / high costs

Images: Birgit Georgi

Success factors

Systematic approach

Commitment and vision

Participation· Co-creation

Knowledge, Awareness

Start early

Co-benefits

Financing

How can we finance adaptation measures?

Think before starting any action!

What is the actual problem
and what the underlying causes?

Which adaptation options are available?

and

Think twice: Which solutions
will work best? Then chose!

Define what you need in terms of
- money
- people
- knowledge

Options to implement - make your own blending!

- Mainstream into other related work programmes
- Adapt building and other regulations
- Crowdfunding
- Create own budget line
- Create specific tax or fees
- Enable citizens and business to take own action
- Grants from regional, national governments, EU, private foundations and other
- Loans from development banks
- Green bonds

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Source: https://www.birgitgeorgi.eu/english/resources/

Malmö mainstreams into urban design

Images: Birgit Georgi

Copenhagen uses water charges

Images: Birgit Georgi

Bologna uses CO_2 compensation scheme

Image: City of Bologna

GAIA –
Green Area Inner-city Agreement to finance tree planting

Ghent sets on crows funding

Image: Annamarie Rizzello

Hamburg provides seed money

Image: Treibhausarchitektur and Mathias Friedel

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Too little money available?

- Start with baby steps; show first small results
- Get buy in from politicians; find allies
- Get inspiration from others on how they managed to act
- Use it as seed money to show first results or to provide incentives, thus attracting more money

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Where there is a will, there is a way!

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More financing examples

https://www.eea.europa.eu/publications/financing-urban-adaptation-to-climate-change

More resources: www.birgitgeorgi.eu/english/resources/

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Strong cities in a changing climate