

GAME SUPPORT, ROLE-PLAY IN WEATHERTON



WELCOME TO WEATHERTON

It is nice to see that you are interested in climate adaptation. Here you can try Serious Gaming, which is playing to learn. In the town of Weatherton you will explore how seven different groups of interest together can decide on appropriate actions for climate adaptation. The future will tell how the town will manage till the year of 2100.

This tutorial is a support for the Climate Adaptation Game, which you find free of charge at SMHI.se/en/adaptationgame

The game can be played without preparation, by a single player or in small groups. With this support material we want show how the game, in addition to the challenges with climate adaptation itself, can also highlight different interests that exist in society. The goal is to increase the players' understanding of the politics and constructive conversations that are essential for good climate adaptation.

In this tutorial you have the instructions to lead a group through 80 years of Weatherton's history.

We hope that you will have an interesting journey through time in Weatherton.

Best regards

The Game Developers
SMHI (Swedish Meteorological and Hydrological Institute)

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THE CLIMATE ADAPTATION GAME

The game is largely self-instructing and is structured around four rounds of play. One full game played as a roleplay is estimated to take about two hours. If played in "single player" mode, it takes approximately 20-30 minutes.

GAME IDEA

The main idea of this role play is to let the players represent different groups in society. Together they represent the town of Weatherton. The decision for each assignment is determined after debate and joint decision.

Roles:

- Business and Trade Association
- Agricultural Society
- Union of Tenants
- Senior Organization
- Property Owners' Association
- Society for Nature Conservation
- Citizen Association - Don't touch my lifestyle!

The roles are described in more detail in the annexes below.

PREPARATIONS

Divide the roles and let each Group read through their role description. Preferably in advance, but that is not necessary.

Print:

- Description for participants and summary of missions, 2-3 per group.
- Instructions for the groups (these are secret and should be kept from the other groups), 2-3 per group.
- One voting card for each group.

THE GAME

To help with starting the game, the introduction should be included. This gives, for example, a view of where compilations and evaluations in the game are.

READ THE MISSIONS

All time steps, except the last one, introduce two new assignments, the last time step has only one. The assignments have four options, one of which is "do nothing".

Each alternative also has a pro and con argument, from two different-minded citizens.

It is possible to adjust the choices afterwards. It is possible to downgrade a choice, but no money will be returned apart from saved maintenance costs.

NEGOTIATIONS

Now the groups can debate and negotiate with each other. 5-7 minutes is usually a good time to keep up the pace. We usually say the groups have meetings here, to make up their minds. Lobbying between the groups is accepted.

DECISIONS

The groups have one vote each. After voting, the decisions are entered into the game. The moderator distributes the word and keeps the vote.

TIME STEP

When the decisions have been implemented, it is time to take a time step. How well is the city in terms of economy and global goals? Are the residents satisfied? The first time a type of extreme weather occurs, it is presented with a newspaper article. Were the right priorities in the city's climate adaptation made?

ALL FOUR TIME STEPS

After a time step it is time for a new round where the groups can explore new and old assignments and negotiate for the next round of decisions.

CLIMATE ADAPTATION AND EMISSION REDUCTION

The game focuses on adapting to climate change and does not place any greater focus on mitigation.

Although reduction of greenhouse gases is an important part of climate work, we have chosen to focus on climate adaptations.

A GREATER CONTEXT

Long-term sustainable societies with good quality of life for the inhabitants are something to strive for.



DESCRIPTION FOR PARTICIPANTS

YOU AND YOUR GROUP HAVE A ROLE TO PLAY

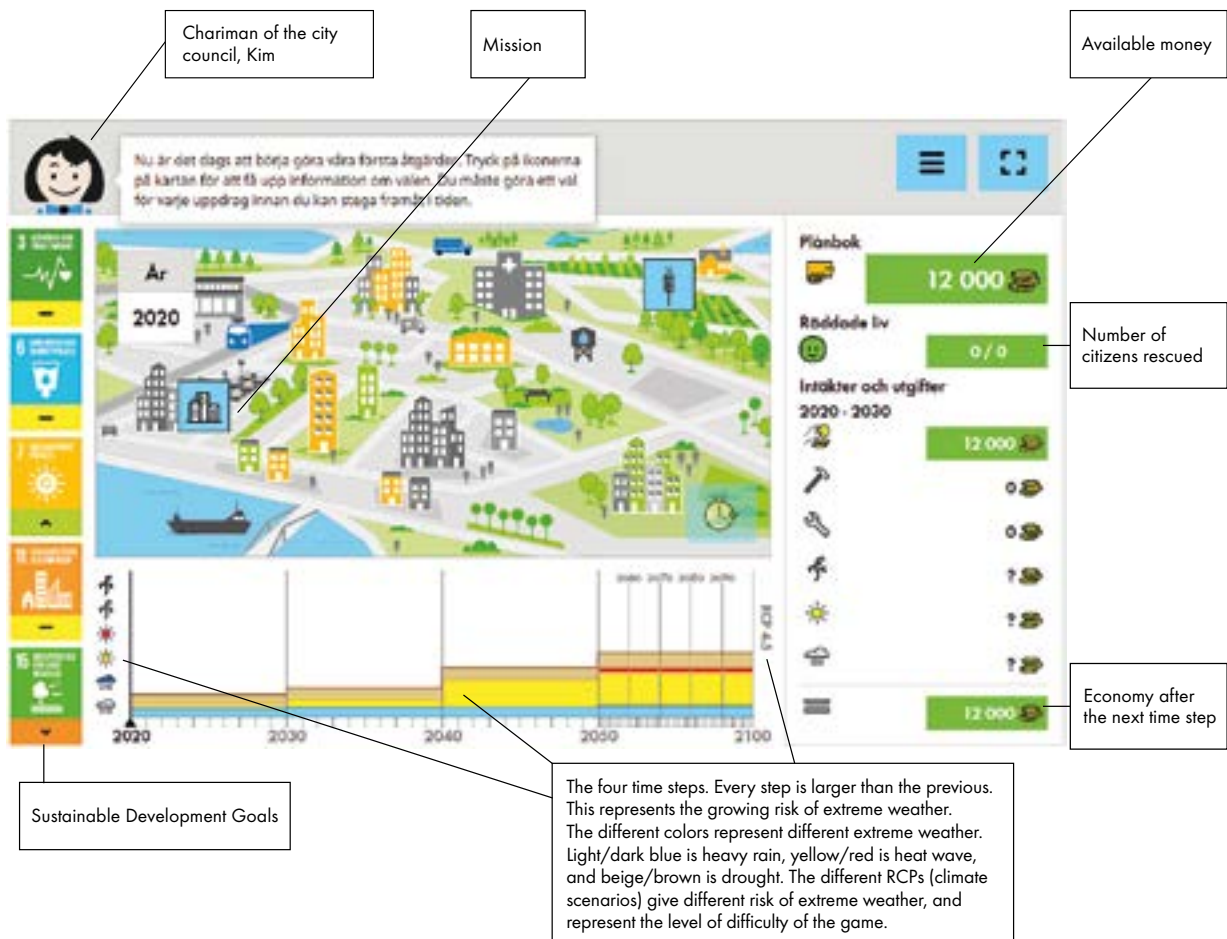
Preparations:

- Read your role description. In the description you can also find some thoughts about the other groups.
- Make sure you understand the different parts of the game.
- The game is divided in to four time steps.
- The assignments are described by the moderator. You also find information about the choices on a separate sheet.
- Prioritize - how would your group prioritize between adaptations? Remember that earlier choices can be adjusted.
- Negotiate - it is often valuable to talk to all groups.
- Decision - each group has one vote.
- Time steps and results – here you will find out how well the city managed.

Scores – If you play with points, the group will score points for each positive arrow on the sustainability goals. Your role description shows how many points you get for each arrow. Add up the score for each sustainability goal. The maximum score is 16 points, 13 and more is a good result.

REFLECTION

This is the most important part of serious gaming. The purpose is to get an overview of complex issues as well as see what is missing or needs to be described further. During the game you are free to contemplate about things that surprise you and things that you think should be included. Reflect on what you learn about climate adaptation.



MISSIONS	A	B	C
Densify the city Cost Income	Individual parking lots 8 000 2 000	Car pool, green areas 10 000 3 000	B + green roofs and ponds 12 000 4 000
Adapt agriculture Cost	Drought resistant crops 500	A + irrigation system 2 000	B + desalination plant 6 000
Save the hospital Cost	Mobile flood barriers 1 000	A + ditch and pond 4 000	B + permanent flood barrier, highway protected from flooding 10 000
New industrial area Cost Income	Transport by truck 8 000 6 000	A + harbor 10 000 6 000	B + measures for climate adaptation 12 000 6 000
Save the drinking water Cost	Information, restrictions, tankers and water protection 1 000	A + move the water work 4 000	B + advanced technology, green garages 10 000
New housing in the woods Cost Income	Individual parking lots 10 000 2 000	Car pool, green areas 11 000 3 000	B + green roofs and ponds 12 000 4 000
Adapt city center Cost	Information 1 000	A + emergency plan and cooling measures 3 000	B + new park, green roofs and facades 6 000

BUSINESS AND TRADE ASSOCIATION

You represent the entrepreneurs in Weatherton. You take the climate issue seriously and put great effort in finding developments that combine a strong economy and a robust city, which can withstand greater stress in terms of extreme weather.

- Stable, good conditions for a thriving economy. More land is needed for industries and better infrastructure for trade
- The economy needs more educated labor.
- New residential areas are desired.

THOUGHTS ABOUT THE OTHER GROUPS

Agricultural Society: They understand the importance of good conditions for business. They should be more interested in better communications.



Union of Tenants: Not much experience of them. We encourage their interest in more housing.

Property Owners' Association: Important group that supports building of more houses.

Senior Organization: They raise important health issues as a functioning hospital and elderly care. However, the costs must not be too large.

Society for Nature Conservation: The environment is important and should be utilized wisely. At the same time, wetlands for birds cannot be compared to the importance of developing more jobs.

Citizen Association - Don't touch my lifestyle!: Seems to be an unpredictable group. Maybe they can be useful as support for individual issues.

Points for SDGs – Each  is multiplied with number below and added while a  is multiplied and then subtracted for a total sum.



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NOTE! The Business and Trade Association get +2 points if the city's budget is positive and -2 if it is not.

AGRICULTURAL SOCIETY

You represent the city's most important food suppliers. The climate issue is important, but at the same time, the variation year by year is a more acute problem than long-term heating. After all, you are the ones most affected by the whims of the weather.

- You are in favor of good conditions for large-scale farming and at the same time it is important to protect small, more specialized, farmers.
- It is important to remember that land is a limited resource and that good cultivation land must be used for food production to feed a growing population. New housing areas and nature conservation areas must be developed in a measured way.
- Biodiversity is important, but must be balanced by economic conditions in a vulnerable global market.

THOUGHTS ABOUT THE OTHER GROUPS

Business and Trade Association: Stable and reliable group. But sometimes they think too narrowly around industry and trade while forgetting the food producers.



Union of Tenants: Not much experience of them. They need to think about the expansion of housing so that it is not done on agricultural areas.

Property Owners' Association: Important group that supports building of more houses and apartments. Agricultural areas may not be exploited.

Senior Organization: They raise important health issues as a functioning hospital and elderly care. However, the costs must not be too large.

Society for Nature Conservation: The environment is important and should be nurtured. At the same time, wetlands for birds cannot be compared to the importance of a stable food production.

Citizen Association - Don't touch my lifestyle!:
A bit radiate but in a way they have a point in letting people choose how to live and not being exposed to major lifestyle projects.

Points for SDGs – Each  is multiplied with number below and added while a  is multiplied and then subtracted for a total sum.



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UNION OF TENANTS

You represent the tenants and thus many of the residents who do not have the finances to own their own home.

While you take the climate issue seriously, you also safeguard the availability of cheap housing - housing for all.

- Climate adaptation must not be an argument for just building expensive housing. At the same time, it is important that cheap housing is built in climate-safe areas.
- A good economy is the basis for jobs, therefore economic development is necessary.
- Tenants want access to nice recreational areas.

THOUGHTS ABOUT THE OTHER GROUPS

Business and Trade Association: They push the matter of economic development, which is good.

Agricultural Society: Don't have much contact but it is problematic that they often work against the construction of new housing.



Property Owners' Association: Have had many conflicts with this group. They want to build more exclusive houses in wealthy areas, which risks excluding tenants with poorer finances.

Senior Organization: They raise important health issues as a functioning hospital and elderly care.

However, the costs must not be too large.

Society for Nature Conservation: The climate and biodiversity is important but near the city we need to prioritize housing over birds and bees.

Citizen Association - Don't touch my lifestyle!: Mixed feelings to this group. Many of our members sympathize with the view that the authorities shouldn't try forcing people into an "environmentally friendly" direction. Other members have negative feelings towards them and see them as reactionists.

Points for SDGs – Each  is multiplied with number below and added while a  is multiplied and then subtracted for a total sum.



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PROPERTY OWNERS' ASSOCIATION

You represent the property owners of Weatherton and thus citizens who demand more exclusive housing. As responsible owners, you take the climate issue very seriously - especially when it comes to building and maintaining properties.

- The city must be wisely prepared so that no valuable infrastructure (houses) loses value. Residents must be attractive to both new and existing citizens in order to attract necessary expertise to the region.
- A thriving economy is a prerequisite to be able to work in a safe and stable way with climate adaptation and other important issues.

TOUGHTS ABOUT THE OTHER GROUPS

Business and Trade Association: Good relations. You both work to make the city attractive for a workforce with expert knowledge and high income.



Agricultural Society: Good relations but scarce contact.

Union of Tenants: Serious and committed to their interests. Unfortunately they sometimes come into conflict with us because they do not see that a thriving economy requires more housing for middle and high-income earners.

Senior Organization: They raise important health issues as a functioning hospital and elderly care. However, the costs must not be too large. Sometimes they can be a little whiny.

Society for Nature Conservation: The environment is important and should be nurtured. However, it is important to find a good balance between the city's growth and the preservation of good recreational opportunities.

Citizen Association - Don't touch my lifestyle!: Ambivalent attitude to this disorganized group. Basically they have a point in that people need to decide on their own. At the same time they are a bit naïve in what is required to keep up with economic and cultural globalization.

Points for SDGs – Each  is multiplied with number below and added while a  is multiplied and then subtracted for a total sum.



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SENIOR ORGANIZATION

You represent those who have made this town to what it is today. First and foremost, you want to ensure that your members are allowed to enjoy the right of the age and are able to experience safe ageing.

- In developing the society, health issues must be taken seriously. The senior citizens and persons with failing health are extra vulnerable to heat waves among other things. It can actually be a matter of life and death.
- Accessible and good healthcare is of course important.
- Available recreational areas are important for good health.

THOUGHTS ABOUT THE OTHER GROUPS

Business and Trade Association: Important group that understands the importance of good finances. Unfortunately, they tend to only prioritize industrial efficiency and turn their backs on health issues.



Agricultural Society: Farmers are of great importance for the community. They should be supported.

Union of Tenants: Many elderly people are poor and therefore good and cheap housing is important.

Property Owners' Association: An important group that unfortunately often forgets the interest of seniors with modest economy.

Society for Nature Conservation: Available and beautiful nature is important. However, it is important to ensure that it is accessible for everyone. Although biodiversity is certainly important, it should not limit people's opportunity to enjoy a beautiful park.

Citizen Association - Don't touch my lifestyle!: Ambivalent attitude to this group, but so far they have not affected us significantly. Some say they speak for "ordinary people" while others think they have a narrow view of important issues.

Points for SDGs – Each  is multiplied with number below and added while a  is multiplied and then subtracted for a total sum.



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SOCIETY FOR NATURE CONSERVATION

You represent Weatherton's environmental conscience. You take the climate issue, or as you say the climate issues (plural), most seriously. Together with the question of biodiversity, it sets the fate of our future.

- The city is growing and it is always at the expense of the biodiversity. Now is (always) the time to prioritize this question! Among other things, more wetlands are needed around the city.
- A green city is valuable for wildlife but also for human health.
- In the long term, a sustainable economy is entirely dependent on staying within the limits of nature.

THOUGHTS ABOUT THE OTHER GROUPS

Business and Trade Association: Important issues but they must also prioritize the value of organic sustainability.

Agricultural Society: They have good knowledge of nature, but unfortunately they often prioritize their economic interests in favor of the nature. Maybe it's a



basic error in the system? After all, they must be able to have an income they can live off. Perhaps they can be convinced of the value of biodiversity?

Union of Tenants: Mixed feelings to this group. It is negative that they want to build so many houses, but at the same time they see the value of recreation areas.

Property Owners' Association: Mixed feelings to this group too. They want to build new houses, but they often have a great understanding of eco-adaptation of new areas to create biodiversity even within the urban environment.

Senior Organization: An important and quite vulnerable group. They raise health issues, both in terms of good hospitals and elderly care, which is good.

Citizen Association - Don't touch my lifestyle!: Lunatics! They refuse to accept scientific facts just because it does not align with their thoughts. They also don't understand that we have to change society to support 10 billion people on Earth by 2030, while we already use far too much resource today.

Points for SDGs – Each  is multiplied with number below and added while a  is multiplied and then subtracted for a total sum.



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CITIZEN ASSOCIATION - DON'T TOUCH MY LIFESTYLE!

You represent "ordinary people". Those who do not trust mainstream media and who are tired of being ruled by crooked bureaucrats. It is time to let common sense get a strong voice among all the experts. You don't believe that climate change is caused by humans. At the same time you see that the city does not always cope with extreme rainfall and heat waves.

- The climate issue is a trick for pushing through various uncomfortable decisions.
- The city's residents need more housing, especially for ordinary people.
- Don't talk so much about the climate but do something about the weather that we actually know is a problem.

TOUGHTS ABOUT THE OTHER GROUPS

Business and Trade Association: They are pursuing their interests and want to make money. Reasonable but must not create discomfort for ordinary people, for example moving jobs to low-wage countries and such.



Agricultural Society: Farmers are good. They often have both feet on the ground, or even down in it.

Union of Tenants: The tenants are ordinary people, but sometimes the association itself becomes a bit extreme.

Property Owners' Association: Important group which wants to build more houses. Good if the town grows with both people and businesses.

Senior Organization: They raise important health issues as a functioning hospital and elderly care. However, the costs must not be too large.

Society for Nature Conservation: Muppets! Of course we should have nice nature but it is good enough as it is. They don't see that it is unreasonable that mankind could be able to destroy something as large and durable as nature.

Points for SDGs – Each  is multiplied with number below and added while a  is multiplied and then subtracted for a total sum.



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Business and Trade Association

Agricultural Society

Union of Tenants

Senior Organization

Property Owners' Association

Society for Nature Conservation

Citizen Association -
Don't touch my lifestyle!