

EGCA 2018, Umeå, Sweden

12. Integrated environmental management

An integrated approach to urban management is crucial in a city in growth. Umeå, as one of Europe's fastest growing cities, uses integrated environmental management to ensure fulfilment of the City Council strategic long-term objectives, particularly the objective which says that Umeå's growth is reached with social, ecological and economic sustainability.

12A Present situation

Indicator	Yes/No	Date from:
Signatory of CoM	Yes	2011
Aalborg Signatory	Yes	2008

Vision, strategy

Umeå's environmental vision is outlined by the City Council in the annual budget as seven strategic long-term objectives.

Umeå's major challenge, as a fast growing city, is to grow in a sustainable way and therefore the comprehensive plan are extremely important. The comprehensive plan and its six development strategies are based on the Aalborg commitments and in line with the seven strategic long-term objectives.

Strategic long-term objectives adopted by the City Council and the six development strategies outlined in the comprehensive plan.

Strategic long-term objectives:

- Umeå's growth is reached with social, ecological and economic sustainability, aiming towards the vision of 200,000 citizens in 2050.
- We will create opportunities for more jobs in Umeå through growth in the business sector, in collaboration with industries, universities etc.
- We will develop "the knowledge city of Umeå" with good education and lifelong learning, in that way managing competence provision.
- We will keep our position as international city of culture and promote culture as an investment and inspiration for a sustainable society and growth.
- We will create conditions that equally empower women and men to shape society and their own life.
- Umeå will have the best public health in Sweden by 2020
- Child poverty will be halved by 2020

Development strategies in the comprehensive plan:



1. Five kilometre city



2. More city! Complementing existing city districts as a vitalizing force



3. High density in new city districts



4. Growth in public transport corridors and conversion of transport through-ways



5. Investments in public spaces and parks



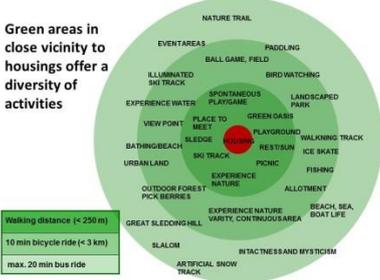
6. Everybody shall take part (Co-creation of the city)

Figure 12A1: The seven strategic long-term objectives and 6 development strategies adopted by the City Council

The strategic long-term objectives and comprehensive plan influence all subsequent objectives, plans and strategies (figure 12A2). The general ambition is to integrate work on (ecological) sustainability into everyday work and the regular budget. This means there are budgets for environmental work in several departments within the city and there is a dedicated budget for e.g. implementing the Aalborg commitments and the air quality management plan.

Additionally, there are city-owned companies with large budgets, in charge of important environmental areas (see table 12B1). The city-owned companies also contribute to the

strategic long-term objectives, notably Umeå Energi, owning the city energy system (district heating and electricity), and their vision of a climate neutral energy system by 2018.

Environmental thematic	Policy document: plan, strategy, program, action, objective (samples)	Adoption
1. Climate change: mitigation and adaptation	<ul style="list-style-type: none"> • Action plan for decreasing greenhouse gases • Air quality action plan • Energy plan for sustainable development • Traffic strategy • Parking strategy • Cycle traffic program • Public transport strategy • Aalborg commitments 	City Council (Parking strategy and cycle traffic program adopted by the Municipal executive board)
2. Local transport	<ul style="list-style-type: none"> • Action plan for decreasing greenhouse gases • Air quality action plan • Energy plan for sustainable development • Traffic strategy • Parking strategy • Cycle traffic program • Public transport strategy • Aalborg commitments 	City Council (Parking strategy and cycle traffic program adopted by the Municipal executive board)
3. Green urban areas incorporating sustainable land use	<p>In the comprehensive plan green planning is outlined, principles showed below¹.</p> 	City Council
4. Nature and biodiversity	<ul style="list-style-type: none"> • Management plan for the forest owned by the municipality. • There is a green corridor surrounding the city as showed below². 	City Council

¹ More fully described in indicator 3 and 4

² More fully described in indicator 3

5. Ambient air quality	<ul style="list-style-type: none"> • Action plan for decreasing greenhouse gases • Air quality action plan • Energy plan for sustainable development • Traffic strategy • Parking strategy • Cycle traffic program • Public transport strategy • Aalborg commitments 	City Council (Parking strategy and cycle traffic program adopted by the Municipal executive board)
6. Quality of the acoustic environment	<ul style="list-style-type: none"> • Noise action plan 2013–2018 	City Council
7. Waste production and management	<ul style="list-style-type: none"> • Waste Management Plan 2020 	City Council
8. Water management	<ul style="list-style-type: none"> • Water protection areas 	City Council
9. Waste water treatment	<ul style="list-style-type: none"> • Development strategy outlining the future plan of the municipal responsibility for water and sewage in the countryside, outside the city centre (the work is ongoing and includes new approach and mind set in the administration) 	City Council
10. Eco-innovation and sustainable employment	<ul style="list-style-type: none"> • City-owned company to enhance green job development and export sustainable city knowledge • Network for sustainable construction and building maintenance in cold climate 	City Council
11. Energy performance	<ul style="list-style-type: none"> • Action plan for decreasing greenhouse gases • Air quality action plan • Energy plan for sustainable development • Traffic strategy • Parking strategy • Cycle traffic program • Public transport strategy • Aalborg commitments 	City Council (Parking strategy and cycle traffic program adopted by the Municipal executive board)
12. Integrated environment management	<ul style="list-style-type: none"> • The seven strategic long-term objectives and six development strategies in the comprehensive plan. • The comprehensive plan points out what action plans and strategies are required in order to implement the environmental vision in order to reach sustainable growth. 	City Council

Figure 12A2: Connection between the thematic chapters and policy documents, strategies, plans etcetera. They are all based on the strategic long-term objectives, national and local environmental objectives and the comprehensive plan.

Management, monitoring and evaluation

In developing the environmental vision, e.g. developing strategies, comprehensive plans, action plans, stakeholders and civil society are always consulted and involved. In order to know in what way, at what stage and to what extent, two studies have been made:

- The gender balance in a detailed planning process was analysed. 200 persons participated in the planning process and the result of the analysis shows 40% women and 60% men contributed with comments. Of all contributing women 74% actually had influence on the outcome (the detailed plan), while the corresponding figure was 90% for men. Questions arose due to this study, for example – are the input from women and men differently valued? In order to build a sustainable city both for women and men, this is important information. The work will continue.
- Dialogue methods used in comprehensive planning processes was identified. The result shows that used methods range from information to co-creation and the importance of clearly understanding what level of influence the stakeholders truly have in the process. If the wrong method is used, the stakeholders get the wrong impression and are disappointed when their input isn't used. The project also resulted in a toolbox where different methods are described and how and where in the process they are best suited.

Management structure for implementing and monitoring the environmental vision:

The seven strategic long-term objectives outlined in annual budget are broken down into political assignments for different political boards and the political assignments are implemented in plans and activities by the city departments. These implementation plans and activities are monitored three times a year and at the end of each year an annual report is developed summing up organizational contributions (Figure 12A3). In addition, there are more specific plans and programs (figure 12A2), which are monitored on a regular basis, some every fourth year and some annually.

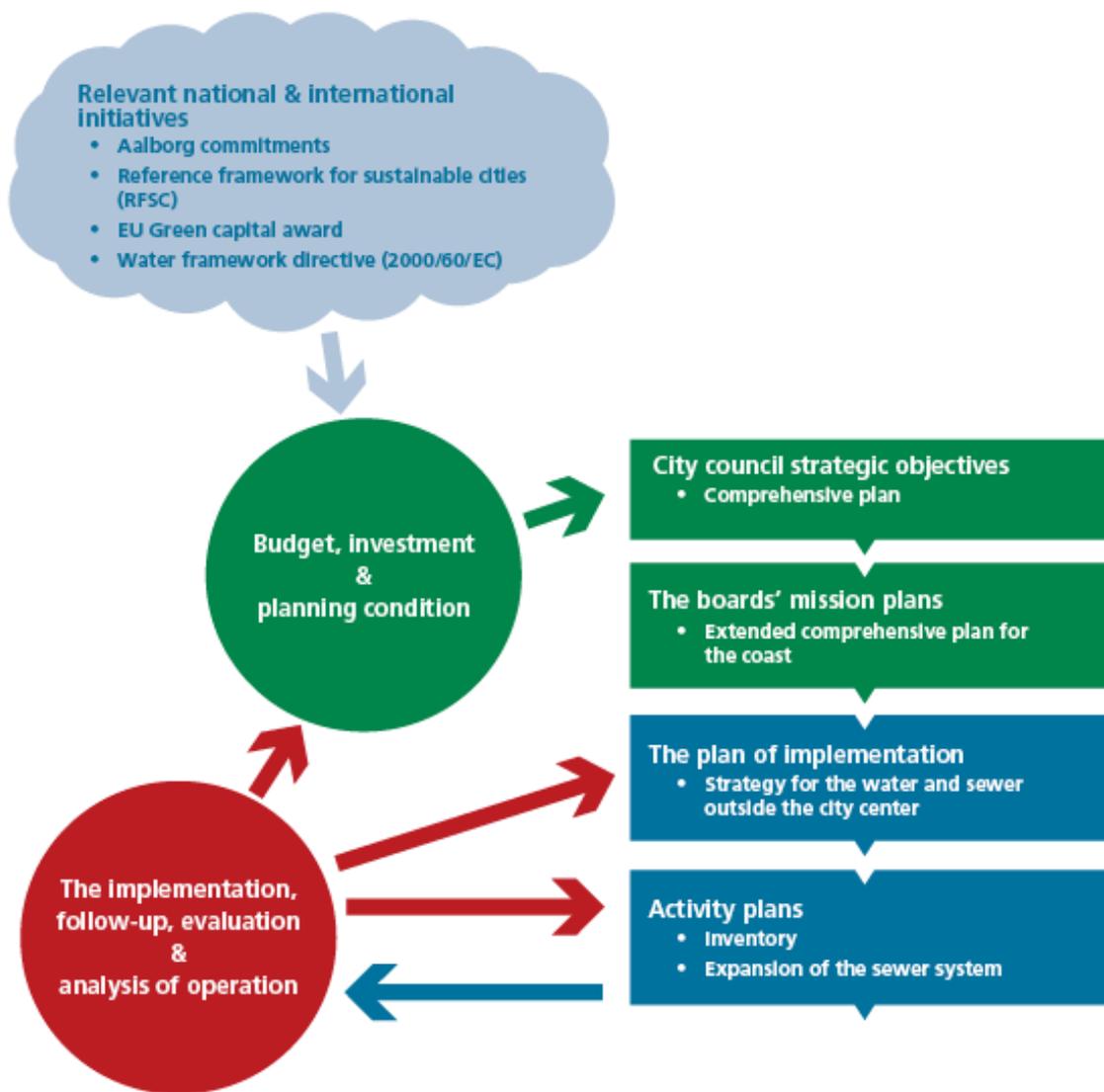


Figure 12A3: The planning and follow-up model for the city. In addition, a specific case is described in the model to show how it relates to the model. The green parts are handled within the political system and the blue parts by the administration.

Leadership

In its internal environmental work, the city aims to be leading by example:

- Green parking pay-off³ will be implemented at the city hall in order to reduce the environmental impact from employees travelling to work.
- In 2012 a large potential to reduce environmental impact from city administration travel was identified. To address this, a dedicated full-time resource was assigned to reduce emissions within the organisation.

³ More fully described in 12B

- Within the management system all city employees must take part in a mini-course on waste management.
- All new managers receive a one-day sustainability education based on City Council strategic objectives.

City administration has high ambitions in structural integrated management. All departments work with quality systems, most of them with ISO 9001 (Table 12A1). The property management department are certified for energy management as the only one in Sweden. 100% of schools in Umeå are certified, or in the process of becoming, Schools for sustainable development by Swedish National Agency for Education, as part of the most ambitious programme in Sweden.

Department/company	ISO 9001	ISO 14001	ISO 50001	OH-SAS 18001	School for sustainable development
Municipal company, Umeva	X	X		X	
Municipal company, Umeå Energi		X		X	
Property management	X	X	X	O	
Cleaning services	X	X		O	
Environmental health protection	X	X			
Streets and parks	X	O		X	
Meal service	O	O			
Recreation and leisure				O	
Human relations				O	
Preschool and compulsory education					X
Pilots in social service and education		O			
Municipal company, Umeva	X	X		X	
Municipal company, Umeå Energi		X		X	
Pilots in social service and education		O			

Table 12A1: Some examples of management systems already implemented (X) or work in progress (O) to implement at different departments and municipal companies

Umeå wants to be a progressive role model and sees itself as a city at the cutting edge of Europe (literally and geographically...). The city is very active in networks and projects and sees many benefits in participating in this context; gathering information, knowledge building and transfer, finding partners in future collaboration and not least as part of skills development for city staff.

Network/project	Summary
Uthållig kommun (Sustainable municipalities)	National initiative coordinated by Swedish energy agency.
Global sustainable cities network, GSCN	Umeå has been selected as one of five cities representing Sweden in the network.
CIVITAS Network	Connecting around 200 cities across Europe for “cleaner and better urban transports”, Umeå is currently represented in the Political advisory committee through City Councillor Mrs. Margareta Rönngren.
ICLEI	Umeå joined ICLEI in 2015
Union of Baltic cities	Umeå is currently vice-President (head of City Council Mrs. Marie-Louise Rönmark) in the 100+ city network on sustainable development around the Baltic Sea. Umeå is also coordinating the Gender equality commission.
Nordic city network	Knowledge cities in the Nordic countries focusing on development of attractive and sustainable medium-sized knowledge cities.
RCE North Sweden	United Nations Regional centre for expertise on education for sustainable development
10YFP	Umeå is the only city in national working group tasked with Sweden’s contribution to UN 10-year framework for sustainable consumption and production.
European Green Capital network	Umeå shortlisted in the European Green Capital Award 2016 and 2017 and were invited to the network in 2014.
Commitments signed:	
Covenant of Mayors	2011
CEMR declaration on gender equality between women and men	2008
RFSC, Reference framework for sustainable cities	2012
Aalborg commitments	2008
Participation in European-wide projects:	
Sustainable Ålidhem	A national pilot project focusing on large-scale sustainable renovation of 1960s and 1970s buildings, side-by-side with new low-energy buildings. The overall objective is to transform Ålidhem into a more sustainable neighbourhood by halving the energy use in the area with sustained rent levels. Awarded European Sustainable Energy Award – Category Living 2013.
Be Green Umeå platform	A regional co-operation platform for communicating and demonstrating benefits (easy, cost-efficient and fun!) of green mobility and living. Project running 2010-2015 and financed through Green citizens of Europe (Life plus).
Peer city network project on Open data and RFSC	2013–2014 cooperation with ICLEI, CEMR and Platform31.

Cleantech Kvarken	Aim: Strengthen the preconditions for SME's in the clean-tech sector to do business on the regional, national and international markets.
Midway alignment of the Bothnian Corridor	Aim: Design and build a new, environmentally friendly ferry for the Bothnian Corridor strait.
Study for New Terminals in Umeå and Vaasa Ports	Aim: Strengthen the competitiveness and growth of the industry in western Finland and northern Sweden by developing better and more environmental friendly transports of goods, with better logistics solutions in an east-west direction.
Sustainable Management of Waste and Energy	Aim: Exchange know-how regarding waste and energy management in Xi'an and Umeå. Running in 2011–2014 and financed by ICLD /Sida. Partners are City of Xi'an and City of Umeå.
BEST, Bioethanol for Sustainable Transport.	Aim: Getting a breakthrough for ethanol on the European market.
Forest Power	Aim: Investigated the entire energy wood procurement and conversion chain from forest to energy and heating plant.
Forest Refine	Aim: To analyse and improve the forest fuels supply chain.
SECRE, Social Enterprise Community Renewable Energy	Aim: To investigate if exchange of knowledge could lead through the phasing out of fossil energy.
BiogasBotnia	Aim: To exchange experience on biogas between the north of Sweden and Finland.
BioGaC, Biomethane and LNG in the North for growth and competitiveness in the EU.	Aim: to build more filling stations for biogas along the coast of north of Sweden.
MAB Vindelälven biosphere reserve	Umeå Municipality is supporting the establishment of MAB Vindelälven biosphere reserve for the riverine landscape and is working to enhance people's livelihoods and to preserve biodiversity by sustainable exploitation in collaboration with local residents, stakeholders, Sami community and other municipalities.

Table 12A2: Some examples of the City of Umeå's engagement in networks, projects, commitments and coordination of European-wide projects

Engagement with citizens

Long-term involvement of citizens, businesses and communities creates Umeå's sustainable growth, well demonstrated during Umeå's European Capital of Culture (Umeå2014) year 2014 implementing the vision "Curiosity and passion – the art of co-creation". The EU-

commission highlights co-creation as one of Umeå2014's successes⁴ and recommends future ECOC's to learn from Umeå⁵. Furthermore, Umeå citizens are ranked as Europe's most environmentally conscious citizens⁶, putting pressure on the city.

There is political consensus regarding the importance of citizens' involvement; the Municipal executive committee is assigned to "...strengthen the involvement and co-creation of the citizens" and "transfer the effects from Umeå2014 into everyday work".

The City of Umeå emphasizes youth engagement and has established numerous platforms, meeting places and projects enabling youth participation. Some examples:

- Student councils at all compulsory and upper secondary schools
- Schools for sustainable development (see 12C)
- The Nature School – outdoor education, Schools for sustainable development, the network "Education for sustainable development"
- Counsel for sustainable development (see 12C)
- Project Free-Zone (see 12B)
- Cultural centre for children and youths – personnel and premises for creative work, youth organisations
- Routines for youth participation within the quality management system, website for municipal youth information⁷

Citizen engagement is implemented in many ways; stakeholder participation in planning processes (see earlier 12B), project group compositions, councils etc. In table 12C1 further citizen engagement is described, including objectives, councils and activities.

12B Implementation

The structure of the political organisation is shown in figure 12B1, and the organisation of the civil servants in figure 12B2, in 12B3 it shows how the environmental strategies are embedded in the organisation. The City Council is the driving force behind the environmental vision.

⁴ Ex-Post Evaluation of the European Capitals of Culture – ECOC 2014, Final Report, the EU-commission, page 39. http://umea2014.se/wp-content/uploads/2015/09/ecoc-2014-report_en.pdf

⁵ Selection of the European Capital of Culture 2018 in the Netherlands, The selection panel, final selection report, Amsterdam, September 2013, page 10. http://ec.europa.eu/programmes/creative-europe/actions/documents/ecoc/2018/panel-report-netherlands_en.pdf

⁶ European Smart City benchmarking, www.smart-cities.eu, TUWIEN (Vienna University of Technology)

⁷ The City of Umeå's website for youths, <http://www.umea.se/ung>



Figure 12B1: Organigram of Umeå political structure with the City Council coordination.

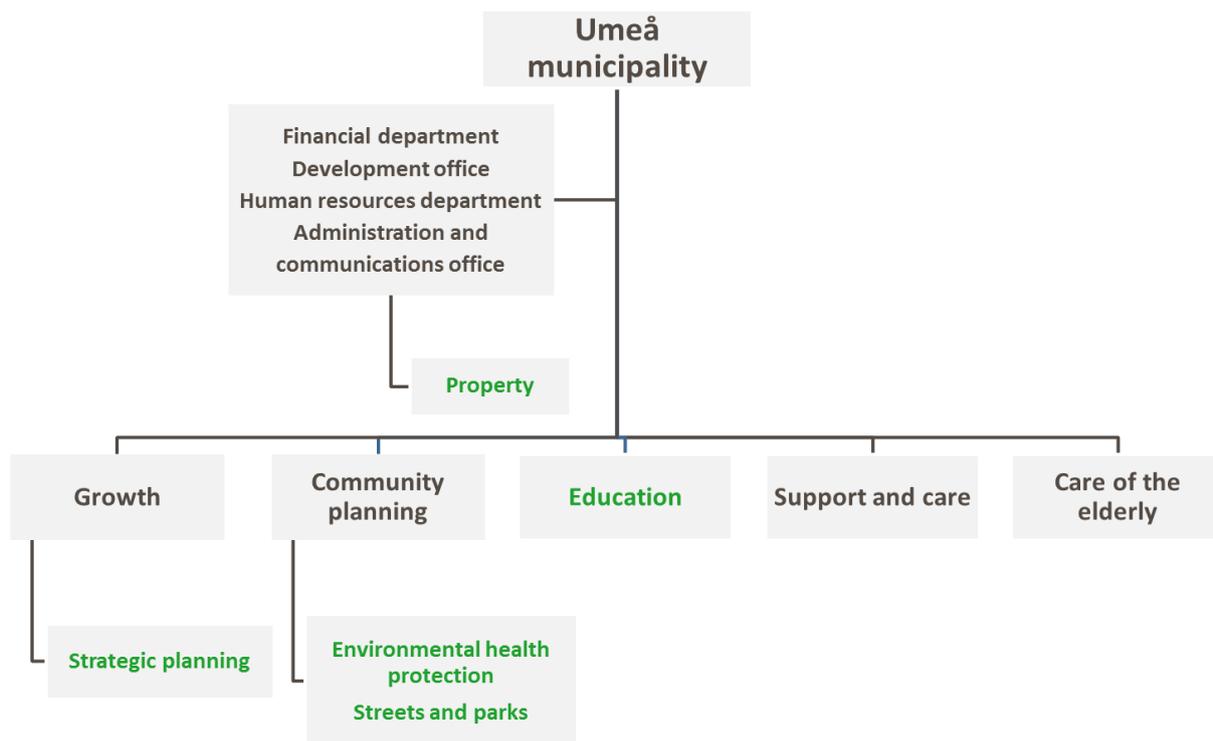


Figure 12B2: Organisation of the civil servants. Everyone has a responsibility to pursue the strategic long-term objectives; those marked in green have a more direct assignment.

Political board/municipal company	Responsibility (in selection)
The City Council	The highest political structure, they adopt visions, objectives, plans and programs coordinating the work in the city. For example the comprehensive plan.
The City Council executive planning and business board	Prepares the long-term strategic environmental issues.
Environmental and health committee	Supervisory and governmental board including energy guidance to citizens, environmental monitoring and consumer advice.
Technical committee	Provides infrastructure to be able to travel sustainably. Responsible for behavioural change and mobility management.
Planning and building committee	Carries out the holistic and sustainable intentions in the comprehensive plan.
Preschool and compulsory education committee	Has decided all schools in Umeå shall be schools for sustainable development by Swedish National Agency for Education, as part of the most ambitious programme in

	Sweden.
Cultural affairs committee	Provides a range of cultural activities in order to consume experiences instead of consuming material things.
Recreation and leisure activities committee	Provides a range of recreation and leisure activities as a counterbalance to for example consuming material things.
Gender quality committee	Increase awareness of the importance of a gender equality perspective in Umeå.
Umeva	Responsible for water, wastewater, waste and recycling. The company's mission is to provide the citizens of Umeå with a good and high-quality drinking water and managing household waste, wastewater as well as solid waste and recyclable materials - all with an environmental focus.
Inab	Develops and manages infrastructure, for example travel centres and logistic centre.
Umeå Energi	Local energy company that offers 100 % renewable electricity and central heating from Dåva, one of the world's most energy efficient and environmentally friendly plants with waste as a primary fuel producing heat and electricity from waste and bio-energy and forest industry residues.
Upab	Parking company offering support and guidance to property owners working with Green parking payoff.
Bostaden	Housing company, owns and manages 15 500 apartments, wants to offer the best accommodation in the Umeå region. With long-term sustainability for people, economy and environment.

Table 12B1: the table shows how the environmental strategy is embedded in the organisation by giving examples on the assignments and decisions made by the political boards and municipal companies.

The total city budget is approximately 650 M€. As the environmental budget is integrated in several policy areas, there is no environmental budget summarised for the city. The budget allocated to environmental activities has remained stable for several years. Environmental R&D and eco-innovation project financed are shown in table 12B2.

Environmental R&D and eco-innovation project	2013 (SEK)	2014 (SEK)
Umeå Energi (Different projects)	3 590 000	3 774 000
Bostaden (Professor and PhD)	890 000	890 000
Bostaden – Projects	777 000	90 000
UMEVA (Agreement with universities)	450 000	500 000
New wastewater treatment plant (2010-2015)		470 000 000
BIC Factory (Incubator)	1 200 000	
Be Green Umeå – GreenCit	635 000	1 134 000
Electric buses (Prototype bus, buses and charging station)	16 000 000	19 650 000
Technical Visits	45 000	
Sustainable Ålidhem (including reconstruction of “Studentvägen”)	133 000	47 897 000
Green Parking Pay off	230 000	100 000
Sun map		100 000
Intelligent Traffic Systems	2 500 000	
Action plan for air quality	2 400 000	1 259 000
Bicycle lane Nygatan		5 835 000
Warm gritting (anti-slip winter cycling measure)	130 000	150 000
The city between the bridges		50 141 000
STRADA (Accident Analysis System)	200 000	126 000
Passive house preschool (in total)	52 000 000	
Biofuel Region	523 700	309 500
Travel survey		645 000
Virtualization environment for reduced energy consumption		4 500 000
Future Biorefineries Phase 2	300 000	225 000
Dåva 2 (CHP) (in total)		1 110 000 000
PRENES Intelligent Energy	37 500	
Forest, Environment and Climate	167 200	
Biotech Umeå	41 700	500 000
CBRNE Centre	200 000	200 000
Umeå Biotech incubator 2014		1 000 000
Umeå Municipality EPC (Energy Performance Contracting)		152 000 000
Uminova Innovation	2 500 000	1 300 000

Table 12B2: selection of environmental R&D and eco-innovation projects, 1 SEK=€0.11

Innovative instruments

One innovative financial instrument is Green parking payoff, encouraging property owners near good public transport connections to support employees with mobility management nudges like discounted bus tickets, access to car sharing schemes, bike garages etcetera. In exchange the city reduces the requirement on the property owner to build new parking spaces. Up to 35% reductions in CO₂ emissions is predicted as a consequence.

Project Free-zone, a part of a park located in the city center will be rebuilt and redesigned. The new design is going to be of high artistic quality and created in collaboration with the target group: young girls living in Umeå. The first objective of the project is to develop methods for an including dialogue with young girls. Their visions, needs, knowledge and experience will influence what is going to be built. The second objective is to increase awareness of gender equality in urban planning.



Figure 12B3: Campaign ad for “The bicycle battle”, a European campaign. The campaign had 39 participating European cities and Umeå was ranked as the best of the Swedish participating cities. Best female cyclist in Europe attended Umeå’s team. Umeå was ranked third in the Best cycling city leader board and received an award during Civitas Forum in Ljubljana 2015.

Monitoring

Monitoring progress towards sustainable development is prioritized in Umeå, some examples:

- Monitoring the six development strategies described in 12C.
- The travel survey, grand survey executed every eight year involving 5.500 (5% of Umeå’s population) respondents. The survey is the “bible” when it comes to how to plan public transport, how to develop walking and cycling routes etcetera. Future surveys will be executed more frequently in order to measure society trends.

- The mobility management work carried out in Umeå since 2008 has been monitored in order to evaluate CO₂ decreases. This approach has created unique knowledge on what activities are most efficient to reduce greenhouse gas emissions. In addition, a yearly bicycle closure is made.
- The web based tool called *Quality of life barometer* shows the progress in local environmental and public health.
- Unga 14/16 – Youth and Health on equal terms surveys every second year for 14-year-olds and 16 –year-olds in Umeå (table 12C1).

12C Future plans

Short- and long-term objectives

The objectives include continuous monitoring/follow up in order to further use the result to improve the sustainability. The City of Umeå also wants to further integrate the sustainability into the management structure by a long term strategic plan and EMS.

Monitoring/follow up

The development strategies in the comprehensive plan (see 12A) are monitored and evaluated including GIS visualisation. In this work Umeå has been involved in pioneering the development of the EU RFSC, Reference framework for sustainable cities. Today Umeå uses the RFSC developed indicators as one inspirational tool in its local monitoring system. The result from monitoring the strategies in the comprehensive plan is used in the current process of updating the comprehensive plan.

Sustainable procurement is on the political agenda in Umeå and the development of a new policy and guidelines will begin this year. As an input to this work a study has been carried out to analyse if and in what way sustainability requirements are set. It shows that environmental requirements are applied more often (50–60%) than social requirements (2–20%), but not often enough. It also shows the need to follow up requirements. This input is valuable in the future process.

Long term strategic plan including EMS

A revision of the management structure is underway in the city, evaluating the future city-wide objective structure, to improve the integration and implementation of sustainability into the management structure. The planning and follow-up model⁸ will be supplemented with a long-term strategic plan and there is an ongoing political process regarding the content and focus in the plan.

Flagships

1. School for sustainable development

In Umeå there has been a long-term systematic approach on how to integrate sustainability into the education. This gives the young citizens in Umeå an invaluable knowledge, which they will be able to use both in their personal and professional life in years to come. The planning and follow-up model (Figure 12A3) is the base in figure 12C1, which shows the working model used for Schools for sustainable development in Umeå.

The model includes skills development for teachers, teacher network four times/year, seminars every second week etcetera. There is a yearly large conference, which gathers 300 teachers and principals, offering lectures and workshops focused on global sustainable development.

Once a year there is a Counsel for sustainable development, a collaboration between students, teachers, politicians, officials and sustainability experts. The officials and experts present the background and current issues which need to be solved or discussed. The students work with the different cases and present their result and solution in a shape of their choice – a presentation, a movie, an information folder etcetera. During the presentation the students get to ask questions and present their ideas to the politicians and officials.

⁸ Described in 12A2

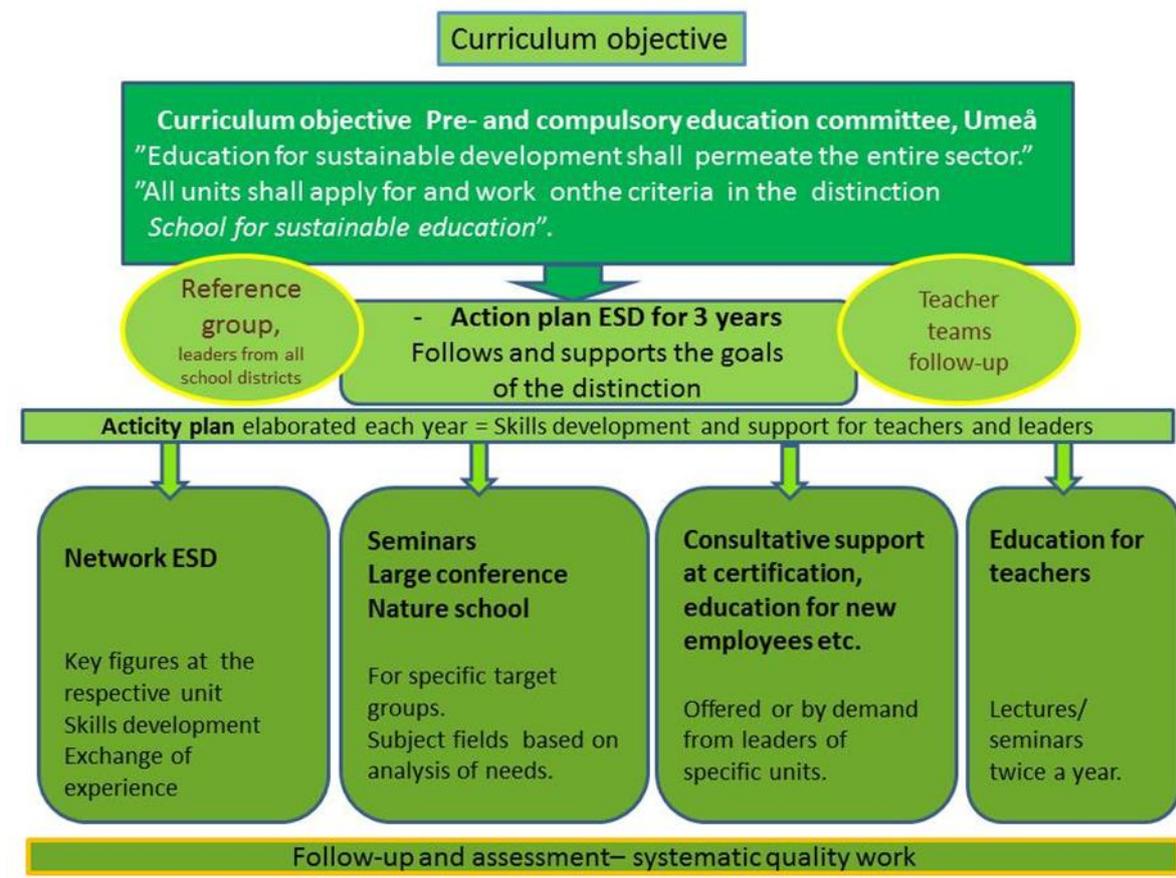


Figure 12C1: the working model for School for sustainable development in line with the planning and follow-up model for the city shown in figure 12A3.

2. SEE week (Social, Economic and Ecological)

An annual seven day-long event aiming to let everyone talk, taste, challenge, develop and network around sustainability. It started in Umeå in 2009 and has spread regionally across northern Sweden, gathering major stakeholders aiming to be role models organising sustainable events⁹.

⁹ SEE week, www.seevasterbotten.se

3. Citizen participation

Citizen participation is fully prioritized area as seen in table 12C1, in 12A and 12B.

Area	Committees, councils, boards, officers, etcetera	Cooperation, activities, etcetera	Strategies and objectives
Youth and drug and crime prevention work	<p>UmeBrå: advisory council works with youth and drug and crime prevention work, including issues on safety and security.</p> <p><i>Chair:</i> Lord Mayor, the City of Umeå. <i>Vice chair:</i> Mayor, the City of Umeå. <i>Members:</i> Representatives from all significant committees and departments in the City of Umeå (politicians and municipal officers), Region Västerbotten, representing the board of Public Health and Primary Care, and officers from the Police Department.</p> <p>There are also 13 local councils, 9 at compulsory and 4 at upper secondary school level. In these councils there are representatives from the different schools, departments of recreation and leisure activities, social service, Elevhälsan (health promoting and supporting work for pupils in compulsory and upper secondary school) etc. Local councils aim to initiate and continue preventive actions close to where the youths are.</p> <p>Two full-time officers at the City of Umeå work with UmeBrå. There is also a part-time communication officer.</p>	<ul style="list-style-type: none"> - Local safety, security surveys and questionnaires, including extensive youth surveys. - Organizing and taking part in meetings with parents on topics relating to alcohol, drugs, doping and tobacco. - Support partners who educate and work with youth on topics relating to alcohol, drugs, doping and tobacco. - Organizing and taking part in educating employees at restaurants and nightclubs on regulations and policies concerning serving alcoholic beverages with responsibility, not serving minors and reducing crimes relating to alcohol and other drugs. - Produce and disseminate print materials to our target groups, working with social media etc. - Organizing conferences and events for broader audience, incl. civil society, university, and local businesses. 	<p>Relates primarily to City Council strategic objectives “We will develop the knowledge city of Umeå with good education and lifelong learning“, “We will create conditions that equally empower women and men to shape society and their own life” and “Umeå will have the best public health in Sweden by 2020”.</p> <p>UmeBrå overall objectives, adopted by UmeBrå steering committee:</p> <ol style="list-style-type: none"> 1. Providing good conditions for youth in order to help students reach passing grades in school (ages 13 – 20 years). 2. Increase in safety and security in the municipality. 3. Decrease in crime in the municipality.

Area	Committees, councils, boards, officers, etcetera	Cooperation, activities, etcetera	Strategies and objectives
Public health	<p>Health Council in Umeå: advisory council, aims e.g. to increase awareness for public health issues</p> <p><i>Chair:</i> elected representative from the Social services committee in the City of Umeå</p> <p><i>Vice chair:</i> representative from Västerbotten county council – board of Public Health and Primary Care</p> <p><i>Members:</i> Representatives from all committees and departments in the City of Umeå (politicians and municipal officers)</p> <p>There is a full-time officer at the City of Umeå working with public health and accessibility issues.</p>	<p>Regular cooperation with the Umeå Region, Västerbotten county council, Region Västerbotten, Umeå University, The Swedish University of Agricultural Sciences and the Swedish Association of Local Authorities and Regions.</p> <p>Some examples of activities:</p> <ul style="list-style-type: none"> - UNGA 14 and coming UNGA-16 surveys (Youth and Health on equal terms surveys every second year for all 14-year-olds and 16-year-olds in Umeå) - Increased physical activity in primary school - Everyday Motion Project - walk, bike to work. Stand / walk at office table - Activities within UmeBrå and the local councils - Activities for senior citizens 	<p>Relates primarily to City Council strategic objective “Umeå will have the best public health in Sweden by 2020” and “We will create conditions that equally empower women and men to shape society and their own life”.</p> <p>National public health objectives are number 1–11, Västerbotten County Council has added objective no. 12. Objectives prioritized in Umeå in italic (adopted by the City Council in 2014)¹⁰:</p> <ol style="list-style-type: none"> 1. <i>Participation and influence</i> 2. <i>Economic and social security</i> 3. <i>Secure and favourable conditions during childhood</i> 4. <i>Healthier working life</i> 5. <i>Healthy and safe environments</i> 6. <i>A more health-promoting healthcare</i> 7. <i>Protection against communicable diseases</i> 8. <i>Safe sexuality</i> 9. <i>Physical activity</i> 10. <i>Good eating habits and safe food</i> 11. <i>Reduced use of tobacco and alcohol</i> 12. <i>Mental health</i>

¹⁰ The City of Umeå’s website for public health, <http://www.umea.se/folkhalsa>

Area	Committees, councils, boards, officers, etcetera	Cooperation, activities, etcetera	Strategies and objectives
Gender equality	<p>Gender Equality committee: decision-making committee, aims to e.g. initiate, study and follow up questions applying to the municipality as a whole from a gender equality perspective and increase awareness of the importance of a gender equality perspective within different areas of policy.</p> <p><i>Members:</i> representatives selected by the City Council.</p> <p>There is a full-time officer at the City of Umeå working with gender equality issues.</p>	<p>Regular cooperation and activities with the following organisations:</p> <ul style="list-style-type: none"> - Lynx film studio (film cooperation for gender equality in the film business) - Tjejjouren i Umeå (Young women's empowerment centre in Umeå) - Kvinnohusföreningen (Women house organisation) - Feminist festival - Umeå Open mind (workshops regarding gender, ethnicity, LGBTQ etc., arranged by the music festival Umeå Open) - Flickforsk! Nordic Network for Girlhood Studies (research network) - Sami nisson forum (Sami women network) 	<p>Relates primarily to City Council strategic objective "We will create conditions that equally empower women and men to shape society and their own life".</p> <p>The Strategy for Gender Equality Work in Umeå Municipality was adopted by the City Council in 2011¹¹.</p>

¹¹ The City of Umeå's website for gender equality, <http://www.umea.se/umeakommun/kommunochpolitik/tillganglighetmangfaldochjamstalldhet/jamstalldhet/sarbetarvimedjamstalldhet.4.24495ffa11ce676967b80006022.html>

Area	Committees, councils, boards, officers, etcetera	Cooperation, activities, etcetera	Strategies and objectives
Accessibility	<p>Municipal Advisory Council for the Disabled – advisory council, aims e.g. to provide people with a functional impairment greater participation and equality in all areas of society.</p> <p><i>Chair:</i> representative from the Municipal executive committee, the City of Umeå</p> <p><i>Members:</i> representatives of different handicap organisations and Västerbotten County Council, politicians from municipal boards, department managers in the City of Umeå.</p> <p>There is a full-time officer at the City of Umeå working with public health and accessibility issues.</p>	<p>The action plan for accessibility includes:</p> <ul style="list-style-type: none"> - Skills development on treatment and greater knowledge, for example “Equal meetings – a guide for better treatment in Umeå municipality” - Procedures for procurement, for example “Associations which are directly impacted by procurement can be included in the process in order to present their views - Develop outdoor recreation to provide prerequisites for better health - Ensure that culture and leisure activities are accessible and open for everyone 	<p>Relates primarily to City Council strategic objective “Umeå will have the best public health in Sweden by 2020” and “We will create conditions that equally empower women and men to shape society and their own life”.</p> <p>The Strategy for accessibility work in Umeå Municipality “Reflect and do what is right!” includes the overall objective “Umeå will be Sweden’s most accessible municipality in 2020”. The strategy was adopted by the City Council in 2014¹².</p>
Senior citizens	<p>Kultur för Seniorer. Kultur och Hälsa (Culture for senior citizens Culture and health) – network: aims to create cultural activities for senior citizens in order to prevent decreasing health caused by loneliness and isolation.</p> <p>This network and its activities are unique for Umeå and internationally acknowledged (the 2010 World Leisure International Innovation Prize).</p> <p><i>Members:</i> study organizations, senior citizens organizations, NGO’s,</p>	<p>The network implements 7.500 arrangements per year ranging from ice hockey to opera. Some examples:</p> <ul style="list-style-type: none"> - Midwinter boule - The Generation Choir (355 senior citizens accompanied by youths) - Write your life - Dance for life - Art, literature and historical walks - Giant picnic 	<p>Relates primarily to City Council strategic objective “We will keep our position as international city of culture and promote culture as an investment and inspiration for a sustainable society and growth” and “Umeå will have the best public health in Sweden by 2020”.</p>

¹² The City of Umeå’s website for accessibility, <http://www.umea.se/tillganglighet>

	<p>churches, cultural institutions and representatives from the Cultural department in the City of Umeå.</p> <p>There is a full-time officer at the City of Umeå working with Culture for senior citizens. Culture and health.</p>		
	<p>Umeå kommuns pensionärsråd (Umeå senior citizen council) – advisory council: aims to increase awareness of senior citizen issues, primarily within the municipal organization.</p> <p><i>Chair:</i> representative from the Elderly committee, the City of Umeå. <i>Vice chair:</i> representative from senior citizen organizations. <i>Members:</i> representatives from different senior citizen organizations and different committees in Umeå municipality.</p> <p>There is a part-time officer at Umeå Municipality working with Umeå senior citizen council.</p>	<p>- Regular meetings where city officers inform the council regarding different topics</p>	<p>Relates primarily to City Council strategic objective “We will create conditions that equally empower women and men to shape society and their own life” and “Umeå will have the best public health in Sweden by 2020”.</p>

Table 12C1: some examples of citizen engagement in Umeå, more examples are found e.g. in 12A – management/stakeholder participation, 12B – innovative instruments and indicator area City introduction & context – involvement.

Public awareness

In Umeå the bid of becoming the European Green Capital is both a part of the city’s everyday work and ordinary activities and reason for specific actions.

The ambition is to integrate information about the bid in all the contacts we have with citizens, businesses, NGO, etcetera at conferences, webpages and in other contexts. An earlier specific action to raise public awareness was for example when 2,000 people in 2013 contributed to the bid by telling us which the most important environmental issue is for

them. The result has been used when planning other actions directed to the public in order to face their input. September 2015 Mayor Hans Lindberg announced the EGC candidature at the SEE week grand opening.



*Figure 12C3A: Almost 2000 people contributed input to Umeå's previous EU Green Capital bids.
Figure 12C3B: Mayor Hans Lindberg announcing Umeå's Green Capital candidature.*

This year an installation was made at the inauguration of the Seasons' park (Indicator 3). The red heart, which was the symbol of the Capital of Culture in 2014, was reused and reshaped into a green eatable heart. Everyone was offered to plant eatable plants formed as a green heart-shaped reflection (Figure 12C4). During the summer the plants grew and you were able to eat them or use them in cooking. Mayor Hans Lindberg has announced this year's candidature in the SEE magazine that reaches all households in the region.



Figure 12C4: the red heart, which was the symbol of the Capital of Culture in 2014, was reused and reshaped into a green eatable heart.

Due to this bid, an initiative from some local businesses has arisen. They will form a network to support and contribute to the EGC work - using their own words, they see this as an important issue and they want to tell others why that is so.

12D References

Livsmiljöbokslut/barometern – Quality of life report (in Swedish):

<http://livsmiljo.umea.se/>

Environmental quality objectives (in Swedish):

<http://www.umea.se/umeakommun/kommunochpolitik/planerochstyrdokument/utvecklingochplanering/hallbarutveckling/strategiskmiljoarbete/miljomal.4.1821d6e811c67c7e795800018196.html>

Aalborg commitments (in English):

http://www.umea.se/download/18.2aeb902411d30c9e460800015062/1361887842481/Aalborg_committments_english.pdf

Reference framework for sustainable cities, RFSC, www.rfsc.eu

Action plan for air quality (in Swedish):

http://www.umea.se/download/18.6e56e1f514f42fbe66749e3e/1444743793664/%C3%85tg%C3%A4rdsprogram+f%C3%B6r+luft_2015-10-13.pdf

Umeå comprehensive plan (in Swedish):

<http://www.umea.se/umeakommun/kommunochpolitik/planerochstyrdokument/utvecklingochplanering/stadsplaneringochbyggande/oversiktsplan.4.bbd1b101a585d7048000168114.html>

Be Green Umeå, www.greencit.se (Life plus website) and www.begreenumea.se (available in English)

SEE week (in Swedish) www.seevasterbotten.se

SEE magazine (in Swedish),

http://www.eagin.se/v5/viewer/files/viewer_s.aspx?gKey=17564t0h&gInitPage=1

Sustainable procurement, report (in Swedish)

<http://umea.se/download/18.6e56e1f514f42fbe6674df75/1444985114326/H%C3%A5llbar+upphandling+i+Ume%C3%A5+kommun+rapport4.pdf>

Yearly bicycle closure

http://www.umea.se/download/18.35bbcbac14dec9b2c72f1b/1434287098658/UK_Cykelbokslut_2014.pdf