

EASY ACCESS DIFFICULT ACCESS CAR APPROACH DIRECTION

PEDESTRIAN AND CYCLE APPROACH DIRECTION

HIGHER VALUATION

LOWER VALUATION EASILY RECOGNIZED

DIFFICULTLY RECOGNIZED

LOW DENSITY TRAFFIC

HIGH DENSITY TRAFFIC TREES BLOCK NOISE BLOCK

RECOGNIZATION ABILITY BY PUBLIC DIA-GRAM

OLD AND NEW AREAS RELATIONSHIP DIAGRAM



COMBINED DIAGRAM

According to the conbination of three diagrams, we access the collective valuation of the areas as the following order:

- 1st SUB 1
- 2nd SUB 4
- 3rd SUB 2

- 4th SUB 3

LAND VALUING DIAGRAM

Therefore, we decide that the functions of each sub area can be adjust to take all the advantages.

SUB 1:

The main square must be located between the science centre and shopping centre. This complex describle the image of the city as a innovate city.

SUB 4:

To meet the developed trend of local toursim, sub 4, which have the strongest visual conection with sub 1, should have walkable streets for handcraft selling, cafe, restaurants.

The location of festivals which take place in the city should be seprated to some other places. So, we create a gastronomy market next to sub 4 to strengthen the service system of the whole area.

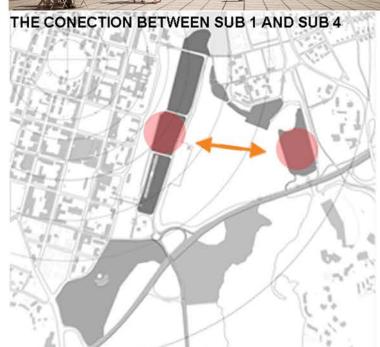
SUB 2:

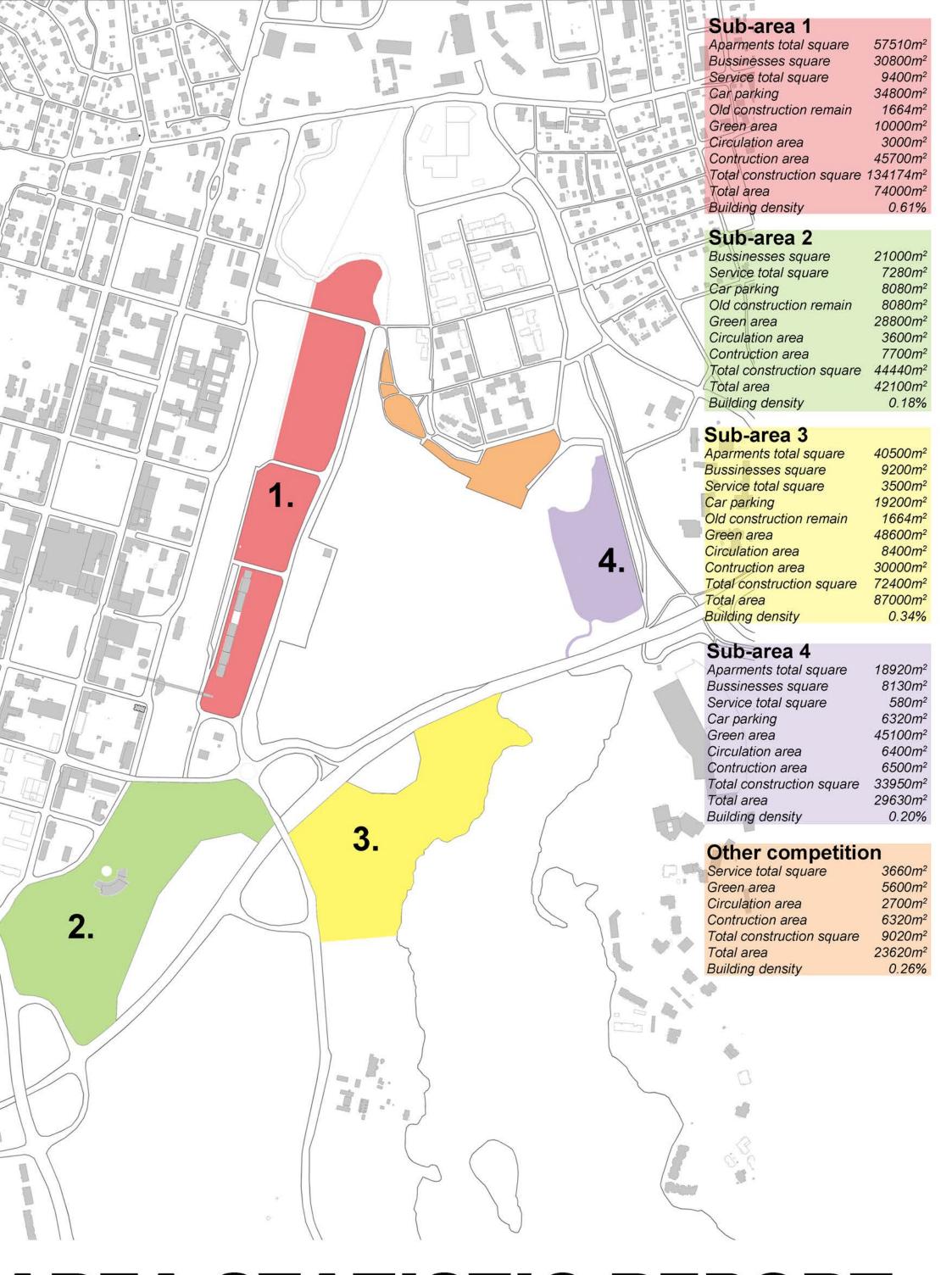
Because it is not easy to conect with other parts, this sub must be arrange as a business centre, not for public service. The majority of floor area is designed for use as office rental.

SUB 3:

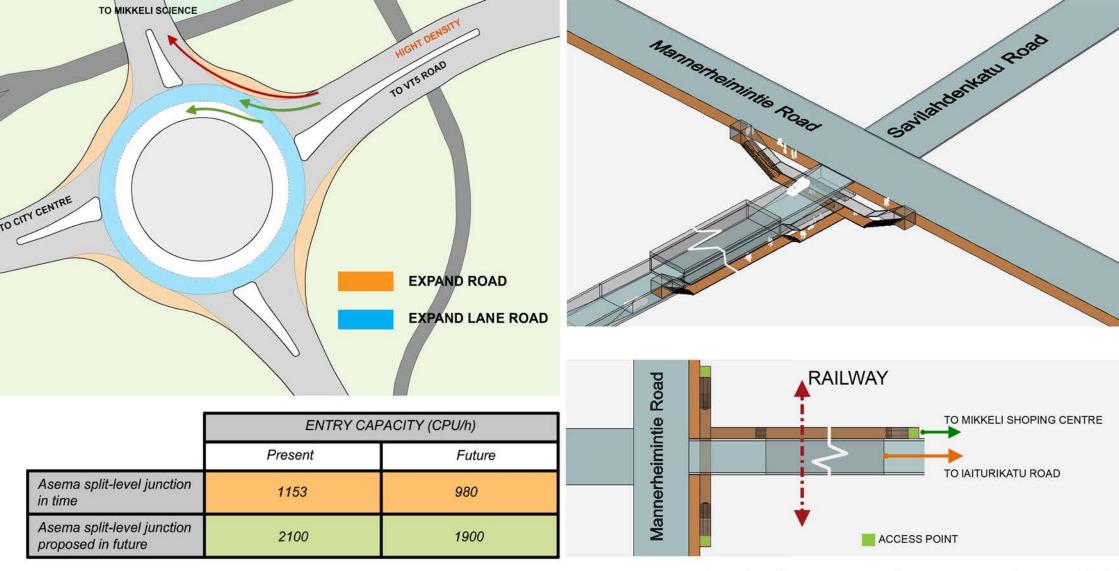
Due to the special position, having a wonderful view to Saima lake, this sub is determined as the most suitable place for luxurious residential area.





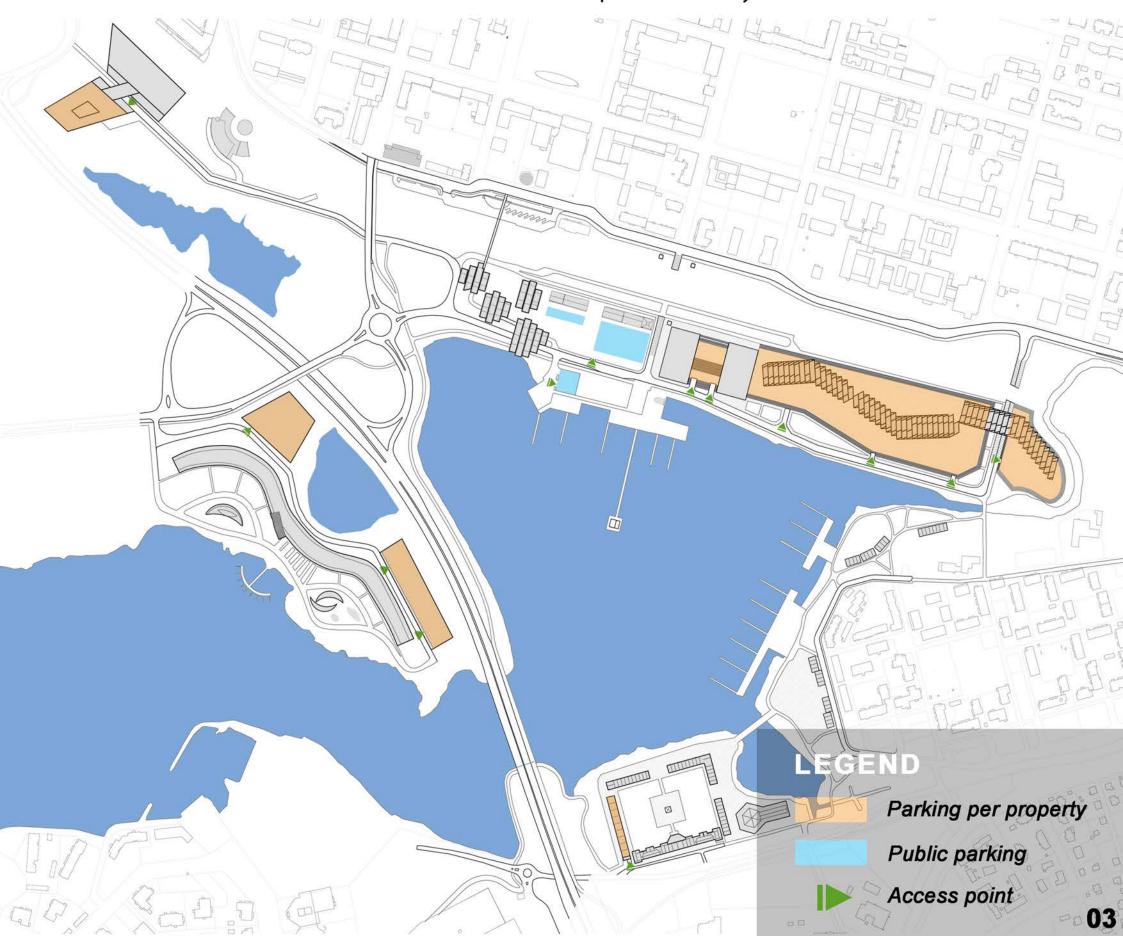


AREA STATISTIC REPORT



ASEMA SPLIT-LEVEL JUNCTION TRAFFIC CALCULATION

we organize the third conection between sub 1 and old city centre in order to separate automoby traffic system to pedestrian & cylcle lanes.







MIKKELI SCIENCE CENTRE

To make ithe Mikkeli science centre become the strongest visual elements in the core of the city, we decide to create a simple shape which can be described as the ambition to conquer the peak of mountain science.

APARTMENT BLOCK

To combine with the mountain shape of Mikkeli science centre, the apartment block is designed by a similar language. The combination emphasis the silhoutte of the city to people traveling on VT5



MIKKELI WOODEN APARTMENT

We design the appearance of the main struture with the inspiration from traditional architecture of scandinavi. The building is used as an apartment block for rent and boutique shops, which attract tourists





LAKESIDE APARTMENT BLOCK



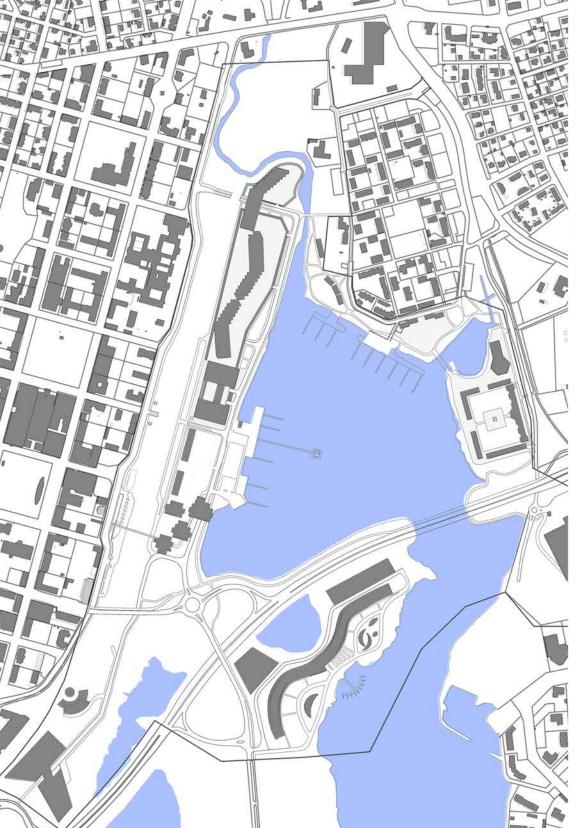






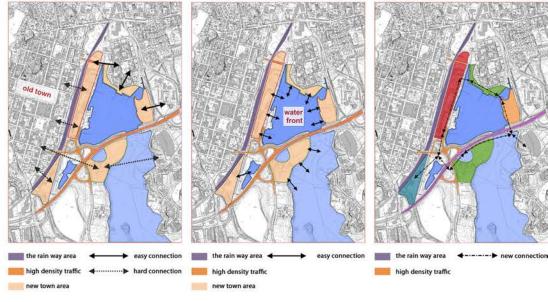
OBLIQUE AERIAL (ANNEX K)





GRANULARITY 1:4000





there's 38%(1149m) of boundary of the new town area can connect easily to the old city. But the majority of these easy access belong to the noth- est (sub-urb area)

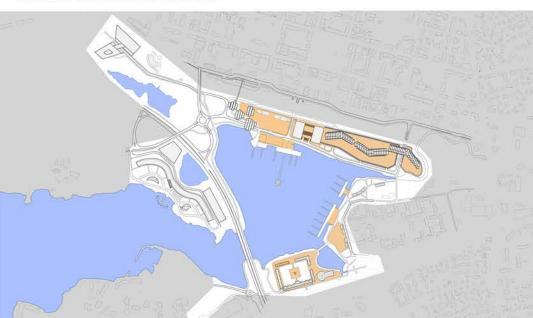
there's approximately 1525m shore line belong to the new town area and 75% of it can be approached easily. So the strongest element to determine the characteristic of new town area is water font.

so we decide to create a new town as a group build-ing with various architect languahe which indepen-den with the architecture of old city. The water font and a new circulation will strengthen these build-ings as a grand complex structure with the core is Salmaa lake

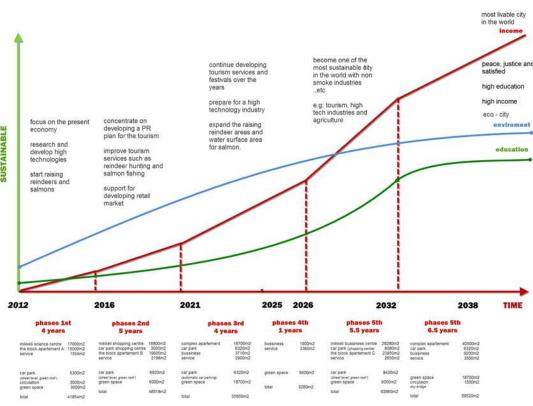
OVERALL IDEA

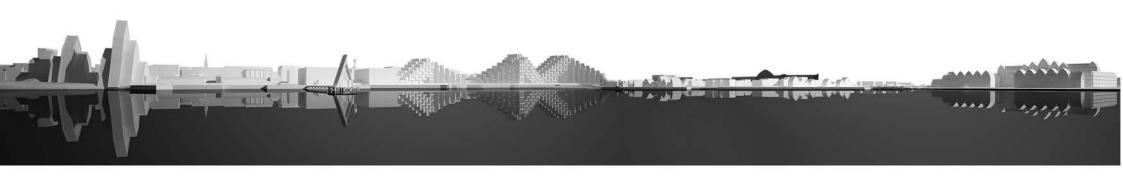


GREEN AND OPEN SPACES



STORM WATER COLLECTION AREAS





URBAN SILHOUETTE - SAVILAHTI VIEW



URBAN SILHOUETTE - SAIMA VIEW



SECTION 1- SCALE: 1: 2000

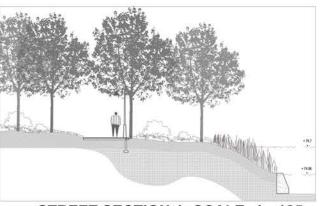


2 2 1 3

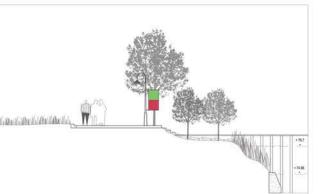
SECTION 2- SCALE: 1:2000



SECTION 3- SCALE: 1: 2000



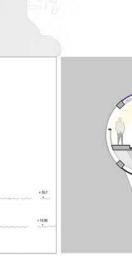
STREET SECTION 1- SCALE: 1:125

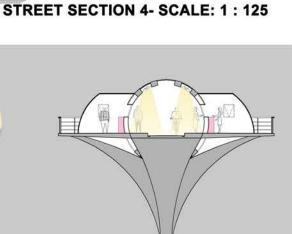


STREET SECTION 2- SCALE: 1:125

mikkeli shopping centre







STREET SECTION 3- SCALE: 1:125

STREET SECTION 5- SCALE: 1 : 125

STREET SECTION 6&7 SCALE: 1:125





PEDESTRIANS VIEW PORT TO MIKKELI SCIENCE CENTRE





SHOPPING CENTRE STREET VIEW

SHOPPING STREET VIEW



at first glance, Mikkeli tourists can be impress easyly by the Sky bridge system and the mikkeli science centre

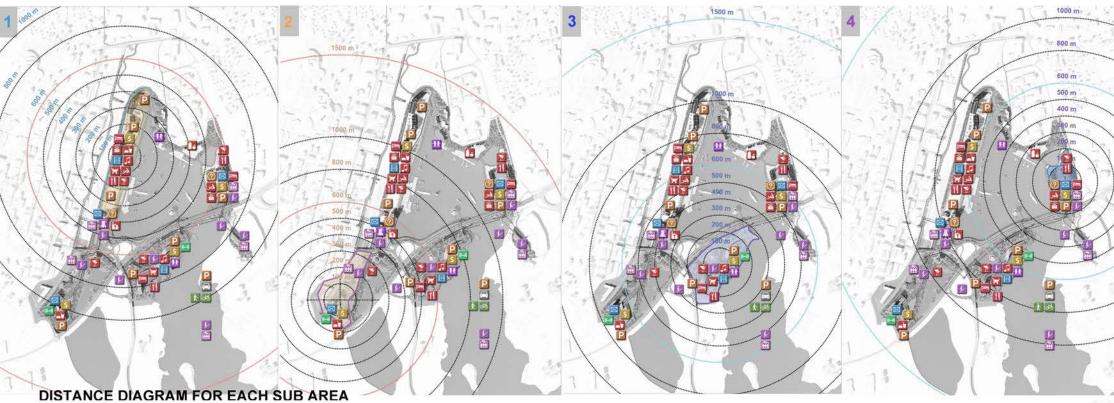
according to the development tratergies of Mikkeli, we focus on two sides. the first is the **shopping centre** of Mikkeli and the **walk street** and the **gastron-omy market** on the opposite side of the lake

the plan offers opportunities for tourists to taste local agriculture products such reideer meat, salmon eegs and handcrapt souvenirs. At the same time going shopping in a morden shopping centre

all of those show the innovation trend of Mikkeli to become one of the most sustainable city all ove r the world. It also is illustrated by a diversity culture, high technology industries and developed agriculture



SERVICES MAP TRAFFIC MAP



BIO - GEO - PHYSICAL CONDITIONS

AIR

REDUCE CO2 AND OTHER POLLUTIONS IN THE AIR BY **INDUSTRIES**

REDUCE THE NUMBERS OF CARS AND PRIVATE

CREATE MORE GREEN SPACES IN THE CITY

DEVELOP NON- SMOKE INDUSTRIES: TOURISM, HIGH TECHNOLOGIES, **AGRICULTURE**

BUILD AND UPGRADE THE TRANSPORT SYSTEM FOR BICYCLES AND PEDESTRIANS



PLAN MORE TREES IN THESE OPEN SPACES IN SUB 3,SUB 4

WATER

SANITAZE THE QUALITY OF WATER IN THE LAKE AS A DRINKABLE WATER RESOURCE

REPLACE SOIL SURFACE BY CONCRETE MAKE THE AREA'S ABSORBING CAPACITY BECOME LOWER

SPERATE THE SEWER PIPES FROM THE STORM WATERS COLLECTION

DESIGN THE STORM WATER COLLECTION SYSTEM TO ABLE TO CLARIFY STORM WATER AND USE DIRECTLY FOR

(toilet, sinks, etc.)

SOIL

MATERIAL

RESOUCES

RESTORE

RESTORE SOIL SURFACE BY CREATING MORE NEW GREEN ROOF

THE MAJORITY OF CONSTRUCTION IS

MADE BY WOOD AND CONCRETE (

USE RECYCLE PRODUCTS

AND THE LOCAL GOODS TO REDUCE THE USE OF NATURAL MATERIAL AND POLLUTION FROM HUMAN'S

THE UPM ProFi IS ONE OF MOST POTENTIAL MATERIALS IN THE CONTRUCTION INDUSTRY

THE AGRICULTURE USE THESE PRODUCTS OF WASTE TREATMENT **FACTORIES AS INPUT RESOUCES**

SOLAR ENGERY FOR THE ELEVATORS AT THE SKY BRIDGE CONNECTING SUB 1,2,3,4

HEAT FROM BURNING WASTE WILL BE **COLLECT FOR MULTI-PORPOSES**

e.g: ONE TON OF WASTE CAN PRODUCE 1,5 OIL TANKS

FOOD

ENERGY

CONTROL FOOD SAFE AND

USE THE RENEWABLE AND RECYCLABLE ENERGY FROM

DAILY ACTIVITIES

DEVELOP THE URBAN FARMING SYSTEM BY RAISING REINDEERS AT THE SUB 3 (BEFORE BEGINING BUILDING)

PLANING ON THE ROOFS OF SUB1, SUB3, COURT YARD OF SUB4

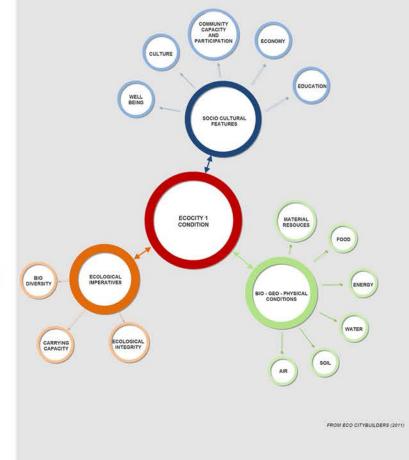
RAISING SALMONS IN THE LAKE OF SUB 3

2 UNDERGROUND SYSTEMS

Summary: Sustainable Waste Management







ECOLOGICAL CONCEPT OVERALL IDEA

SOCIO CUTURAL FEATURES

CULTURE

REDUCE THE GAP BETWEEN THE POOR AND THE RICH

BUILD A HEALTHY AND DIVERSITY CULTURE WHICH WILL BE AN CHARACTERISTIC OF MIKKELI

HAS ITS OWN LIFESTYLE WHICH IS

AGRICULTURE'S JOBS (IT WILL ENCOURAGE PEOPLE TO PARTICAPATE IN AGRICULTURE) PEOPLE CAN CHOSSE WHICH SUB AREA THEY WANT TO LIVE IN. EACH SUB AREA

SUPPORTED BY THESE SERVICES AND DETERMINED BY SPECIAL APPEARENCES

CREATE OPPORTUNITIES FROM GOOD AND SHORT-TERM EDUCATIONS AND

HIGHTLY WELL ORGANIZED

'S ACTIVITIES

THERE ARE ENOUGH PLACES AND

THE CITY SUPPORT ENOUGH BUDGET

MAKE LOCALS COOPERATE HIGHLY IN COMMUNITY'S EVENTS

INCREASE THE NUMBER OF PUBLIC SERVICES: PUB, CLUB, BAR, SPORT CENTRE, CHAPEL ... TO STRENGTHEN THE LOCAL RESIDENT'S RELATIONSHIP

ECONOMY

COMMUNITY

CAPACITY &

PARTICIPATION

RESTORES THE NATURE 'S ECONOMY

DEVELOP AGRICULTURE TO INCREASE THE CAPACITY OF PROVIDING FOOD & REDUCE FOOD IMPORT. WE ALSO MAKE A BRAND FOR CITY'S FOOD **PRODUCTS**

MADE TOURISM BECOME AN IMPORTANT PART OF THE **ECONOMY**

THE GASTRONOMY MARKET AT WEEKEND WILL BRING A NEW WAVE OF TOURISTS TO MIKKELL AND ALONG WITH THIS A HIGH INCOME FROM TRAVELLERS. IT IS GOOD AT POPULATING THE CITY'S BRAND AND CREATING A MARKET FOR LOCAL
AGRICULTURE'S PRODUCTS

FOCUS ON HIGH TECHNOLOGY INDUSTRIES FOR HAVING GRAND BENEFIT USING THE MIKKELI SCIENCE CENTRE AS THE MAIN ENGINE TO PROVIDE A NUMBER OF HIGH EDUCATION STAFF FOR THE HIGH TECHNOLOGY INDUSTRIES

EDUCATION

PROVIDE EDUCATION FOR ALL AGE GROUPS AND

WE CAN TRY TO CREATE MORE SHORT-COURSES IN MULTI-PROFESSIONS BY TAKING ALL THESE ADVANTAGES OF THE UNIVERSITIES AND THE MIKKELI SCIENCE CENTRE

WELL BEING

GOOD SERCURITY, PEACE, JUSTICE AND CONTENTMENT



APPLY HIGH TECHNOLOGY SERCURITY SYSTEMS IN ORDER TO MAKE SURE THE SAFETY OF LOCALS AND TOURISTS

REDUCE CONSEQUENCES OF THE URBANISING SUCH AS NOISE, DUST, EXHAUSTED

SUPPORT MORE FACILITIES FOR HANDICAPS AND THE ELDERS

CREAT MORE GREEN AND OPEN SPACES