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THE NAIROBI STUDIO

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Harvard University Graduate School of Design
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**Industrial Area Nairobi** 





Impressions
Introduction
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The Struggle of the Industrial Area
Relocating of Factories
Potential
A Future Scenario





**Impressions** 





**DRAFT**© ETH Studio Basel















DRENterprise Road

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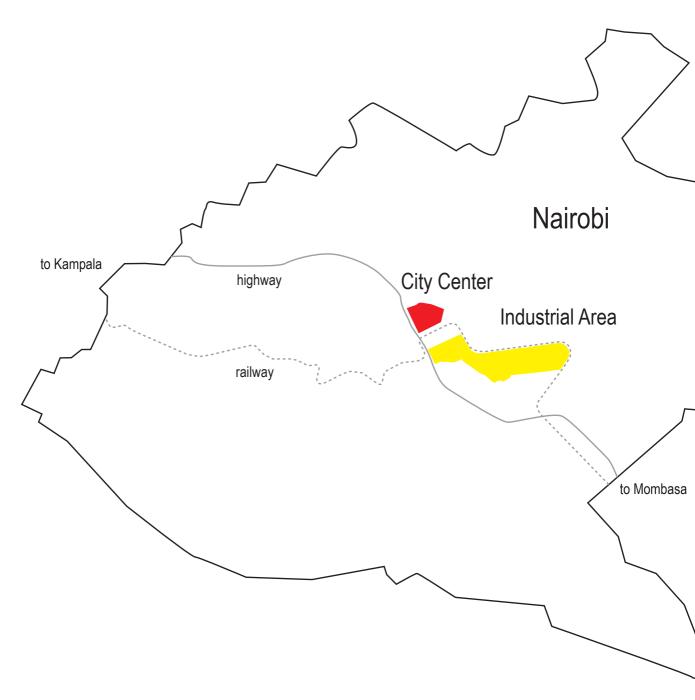




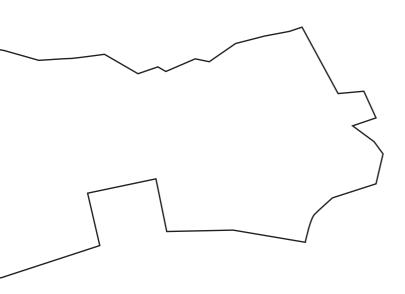
Dunga Road FT
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Introduction









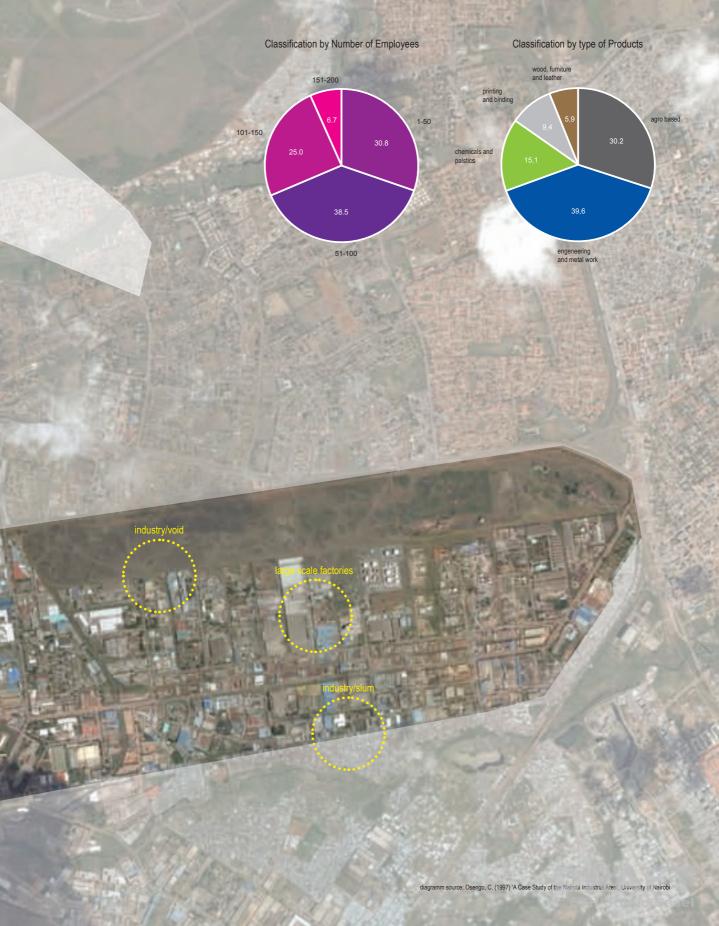
#### Industrial Area Nairobi

Capital of the eastern African country of Kenya, Nairobi, just over a hundred years old, has developed into one of the most international cities in the world. As the third UN city after New York and Geneva and host to the headquarters of some of the main UN bodies, it is thoroughly tied into a global network of policy making, diplomacy and governance, A frequent location of large international conferences, such as the World Social Forum 2007, it possesses the infrastructure and becomes a focal point of global exchange of ideas an communication. With a population of approximately three to four million inhabitants the largest city in eastern Africa, it has experienced a large increase in population, mostly based on rural-urban migration an exhibiting one of the highest urban growth rates worldwide. The city is seen as a place of potential, offering economic possibilities.

The industrial quarter next to Nairobi's center occupies a large area in the south and south west of the city center and can be traced back to the very early years of Nairobi. It takes its distinctive urban pattern from the former presence of the railway, which used to feed and service the industries, workshops and production facilities allocated along the tracks. In the last decades, the railway has all but ceased to operate and the main reason of the original existence of this area has disappeared. Being centrally located, we can see this strategic area of Nairobi having a potential for revitalization, especially as some industries are relocating to places that present better infrastructure for industrial production.















# Typologies

Taking a first glance at the area one realizes that it is far off from being a traditional homogenous industrial site. It presents an astonishing range of different typologies – some of them having nothing to do with production, and border conditions. Also the density varies from quite cramped surroundings in the west to larger and less developed plots in the east.









#### History

In is short time of existence the city of Nairobi has experienced rapid growth both in terms of population and physical expansion. Its history dates back 1895, when a depot of caravan trade was established at the present Ngara area. When the Uganda railway reached the small settlement became the railway head-quarters. In 1900, an arbitrary circular boundary of half-mile radius was declared. The town consisted of the railway center, a European business administration centre, an Indian bazaar, the railway quarters, European residential suburbs, and the military barracks outside the town.

In 1919, Nairobi became a municipality with a corporation and the initial circular boundary was changed to include some of the residential estates. It was during this period that an industrial zone was developed as a separate entity from the Central Business District.

The 1948 Master Plan, prepared for the first time for a colonial capital in Africa by a team of professional South African planners, brought in the segregation of residential areas into European, Asians, and Africans. Also the garden city was initiated during this period.

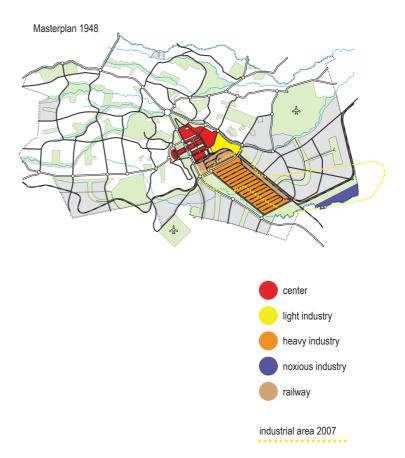
From 1948 to 1963, the city developed more of less on the same lines prescribed by the master plan that followed the modernist separation of different functions. There was provision for the following: industries dealing with bulky goods were located along the railway line, light industries were to be built in the area closer to the center, and a smaller strip for noxious industries was planned in a separated position in the east.

The plan underestimated the development potential of the industrial area in terms of the need of labor. In its proposal for the industrial location, it was defined that the great majority of workers should reside within a one-mile radius of the Industrial Area. The area of low density was left exclusively for white settlers.

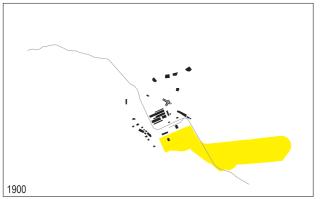
The industrial area of 9.6 km2 was the largest of East Africa at that time. The master plan advice resulted into a nearly static plan of population of 250.000 people in an area of 87 km2.

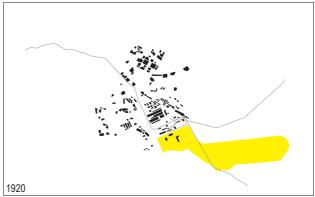
In 1963, the new independent administration changed the city boundaries with the intention of including adequate land for housing, commercial development and to absorb the urban density. Dormitory areas occupied by the people depending on the area of their employment were planned. The city boundary was extended to 698 km2.

Low-income areas to serve the Industrial Area with the required labor were, Kaloleni, Ofafa Jericho, and Makogni. The space of these areas underestimated the expansion potential of the industrial area, and therefore the need for more workers.

















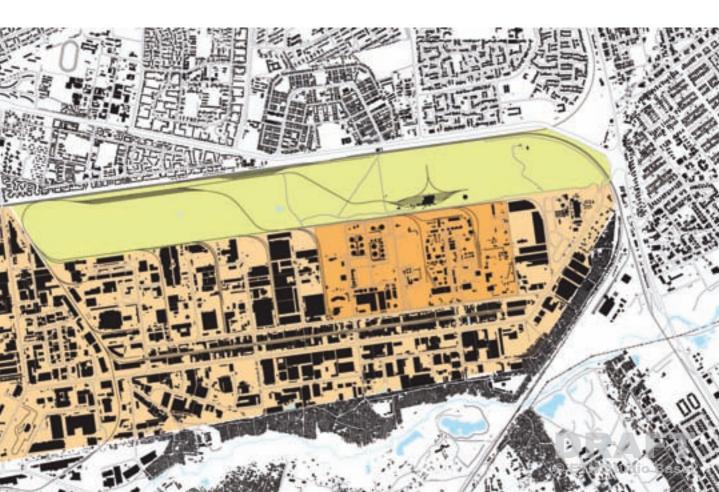
Development of Nairobi and its Industrial Area

#### Zones

The 1948 Master Plan's intention of zoning the area where industries would be located depending on whether they are heavy, light, or noxious has almost not been followed at all. The oil and gas refineries next to the railway station add up the only real zone. The part closer to the center can on one hand be characterized by a large amount of all kinds of factories, repair shops, and showrooms dealing with vehicles and on the other hand by the infiltration of restaurants, housing, governmental building and cultural facilities. The rest represents a total mix-up of different types of industry what makes an efficient upgrading of infrastructure almost impossible









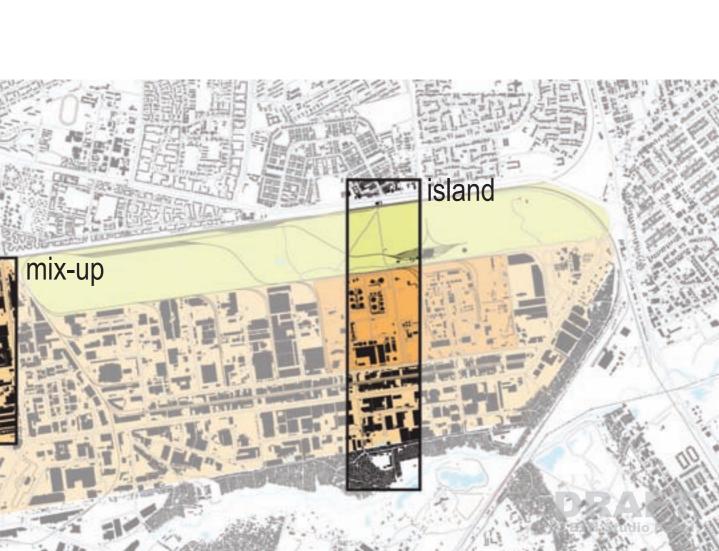
Micro Drills



## Micro Drills

To reveal the structure of the area the following pages focus on three different cutouts we identified as significant and characteristic. "Infiltration" shows the western part of the area closest to the city center, where a certain shift of use can be attested. The "mix-up" section deals with the spatial mix up of different types of industry, and "island" relates to the eastern part, which is surrounded by void and informal settlements.











housing

restaurant

---- elevation





## Infiltration

The area close to the city shows an upcoming tendency towards multifunctionality. Commerce, car showrooms, restaurants and cultural institutions have entered the area, taking over space left by relocating factories. But also new buildings are constructed by the intruders.

public building



housing





restaurant



## 01 Baricho Road



# 02 Dunga Road



# 03 Workshop Road



# 04 Enterprise Road















chemical

manufactoring engineering

undefined

logistics

cement

textiles

food

timber / furniture

paper / print

tabaco

---- elevation





## Mix-up

The biggest part of the area cannot be further zoned into different types of industries. All kinds of industries make up neighbors in the roads. This makes an upgrading of infrastructure a difficult exercise, creates conflicts considering emissions and hazardous materials and complicates orientation.









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## 05 Kituiu Road



## 06 Kampala Road

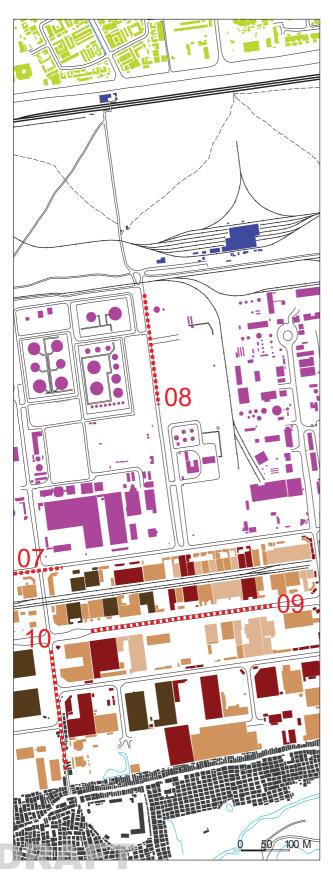












elevation
residential area
railway area
heavy industrial area
mixed 01
mixed 02
mixed 03
mixed 04
slum area



#### Island

In the east, the area becomes a developed strip of land surrounded by a void in the north and a belt of informal settlements in the south, both being a breeding ground for crime in the area

A section from north to south goes through the undeveloped railway land, the oil refineries of the heavy industrial zone, the mixed industries and finally through the Lunga Lunga slum in the south.

railway land



mixed industries



heavy industry



informal settlements



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# 07 Nanyuki Road



## 08 Tanga Road



## 09 Lunga Lunga Road



## 10 Off Lunga Lunga road / Lunga Lunga slum















The Struggle of the Industrial Area



### Atmosphere

Much of the desire to zone industrial estates away from houses or other uses arises from the largely unsatisfactory appearance of the traditional factory area. In this case, it is not only the huddled backstreet, grimy and noisy factories that form the objection, but the strong prevalence of run down buildings and streets, abandoned railway lines, informal kiosks, trash on the streets, unprofessional commercial paintings, bad air, the use of barbed wire and watchtowers, and chaotic traffic which add up to an overall nasty and run down look of the area.



















## **Pollution**

Industrial waste and emissions contribute a significant part to Nairobi's pollution problem. Especially the Ngong River is a victim of this awkward condition: "In Nairobi's Industrial Area, various factories discharge waste directly into Ngong River that traverses this manufacturing belt, rendering it the most polluted stream in Kenya (Daily Nation, January 28, 2001)."



ing. Crime had risen in Nairobi as a result of urbanization. As a security precaution, most large houses have a watch guard, burglar grills, and dogs to patrol their grounds during the night. Tourists are advised to conceal valuables at night.

Its closeness to bordering informal settlements and unused areas that are not accessible by police vehicles turn the industrial area into a highly crime ridden territory. Especially an Asian minority gets attacked guite frequently, being considered as "light target" by the gangs.

High crime rates have contributed a lot to the poor image of the area. Especially at night it is considered to be a dangerous place to be what diminishes visitors of newly installed cultural facilities and restaurants in the area.

Most companies have installed security equipment: barbed wire, watchtowers/houses, fences, walls and alarm device. All these installations contribute to a steady atmosphere of danger and fear.





t and killed the occupants i ng robberies during the day! ea...theft of car parts is also SO shot eight people who w e industrial area IUUStrial



















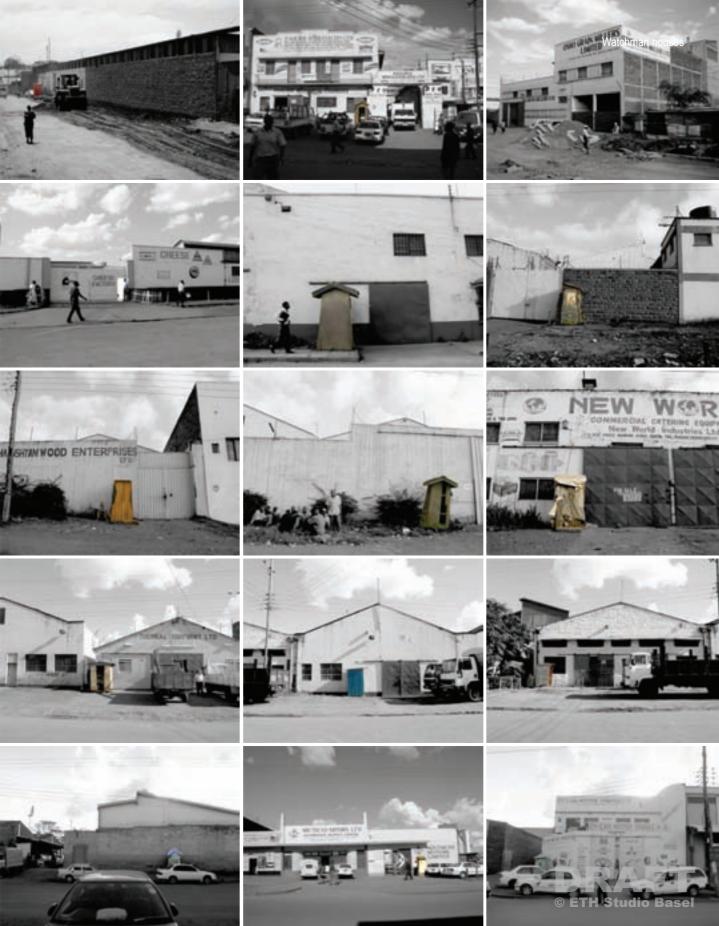












#### Mix-up of industries

Back in colonial times, the arriving industrialists occupied the space in a chaotic way. Almost randomly established neighborhoods of totally different industries arose. This mode has been transferred into the future. The intention of the 1948 master plan to concentrate similar types of industry in zones is almost totally ignored up to the present day. Most roads present an assortment of differing industries what makes it almost impossible to efficiently upgrade an industrial in fracture that has been improved for the last time 30 years ago.

If all chemical industries would be centered in one zone, for example, the installation of state-of-the-art waste pipes, is a possible action to take. Being spread over 9.6 km2, the solution is far off.























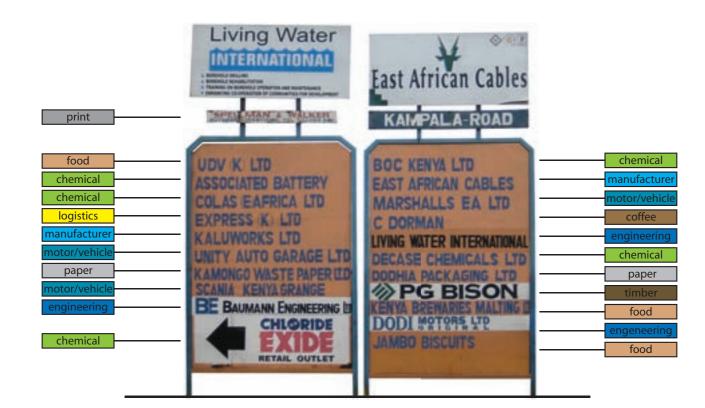




















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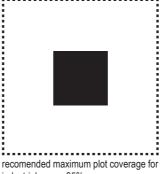
#### Density

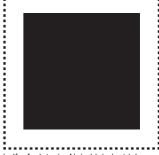
The western part of the industrial area is very dense. Half of the plots have a plot coverage of 75%. Normal plot coverage for industrial areas is 35%.

Expanding companies are forced to relocate by lack of space to expand. Reasons can be found in the lack of official planning, and insufficient enforcement of building laws.

"Many companies simply don't have any more **space for expansion**." Prof. P.M. Syagga, Department of Real Estate







recomended maximum plot coverage for industrial areas: 35% half of plots in Nairobi industrial area have a plot coverage of 75%











#### **Road conditions**

Many roads crossing the industrial area are in a bad condition. Often, roads are simply too narrow. Some formerly asphalted parts are nothing else than muddy paths, potholes are common, and the dangerous circumstances of stolen canalization grills make an efficient transport impossible. Especially when it rains, lots of vehicles actually get stuck and cannot reach their destination in time.

Recently, there have been attempts to repair some of the rundown roads by the Nairobi City Council. Also, the government seems to be aware of the situation - the budget for roads in industrial areas has been almost doubled. But no integral solution is scheduled so far.



#### Industrial infrastructure

Most of the industrial infrastructure is far off from being up to date. Many companies complain about frequent electrical power outage, a lack of sufficient water supply and to narrow diameters of waste pipes. The situation leads to relocation of companies to places where infrastructure is on a higher level or to plots that allow the construction of almost autarkic facilities with own power transformers and water tanks.

The industrial railway system that used to serve large parts of the area is all but working today. Only few connections are still in use removing waste oil from the refineries.



# "The infrastructure has **not expanded** for the last 30 years!" Prof. P.M.Syagga, Real Estate Department

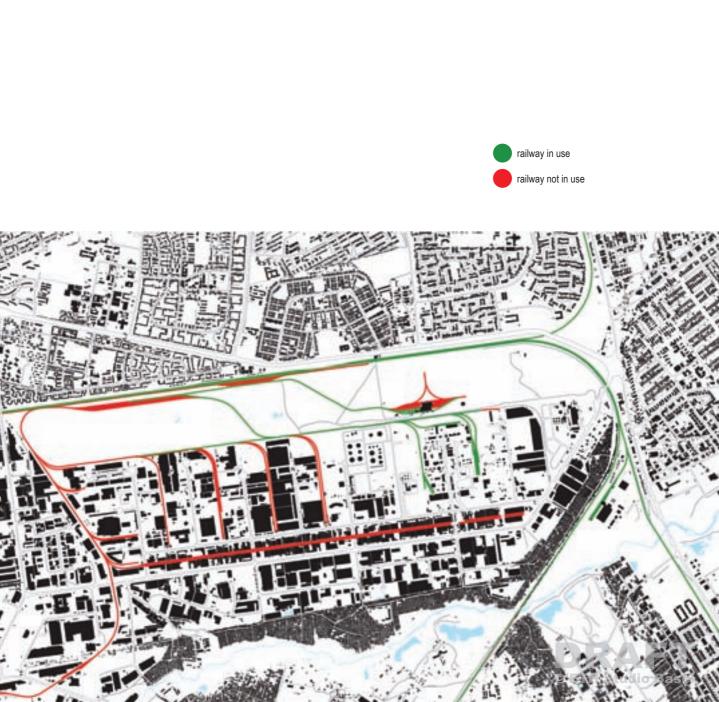


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"It all **collapsed** because of **management problems**." director, Kenya Industrial Railway





#### Congestion

Lack of vision about the growth of the industrial area has led to vehicular congestion on the roads.

The residents of low income provide the necessary army of industrial reserve from which the industrialists draw their workers. Given the low wages they receive, there is need for industrial areas to be in close proximity with low-income areas. Due to lack of vision in the area's history of planning there were calculated too less low-income residential areas close to the places of industrial employment what leads to the huge amount of commuters entering the area on work days.

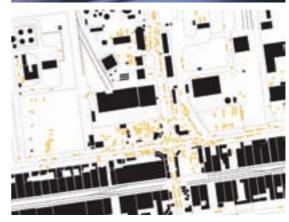
The decay of the railway lines led to an enormous rise of truck transportation congesting a system of roads that was originally not planned for this amount. Especially the heavy industry zone is desperately blocked with petrol trucks that load petrol at the end of the Mombasa-Nairobi Pipeline.

Roads crossing the area are being used by many commuters that try to avoid other traffic jams close to the area, representing a further cause for traffic jams. Also, pedestrians contribute to congestion by walking on paved roads when it rains.

In various interviews held with people working in the area, the congestion problem was addressed as the most serious. Workers who cannot avoid the rush hours are caught in hours-lasting traffic jam every single day.



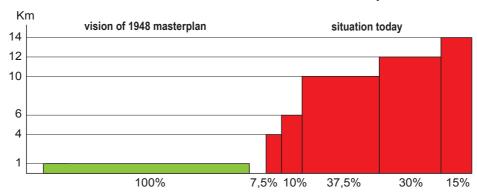








## Distance to place of work





"It's taking me around **two hours for 12 kilometers** if I can't avoid the rush hour." worker, Unga Farm Care

#### Official planning - where does the money go to?

"In the budget 2007/08 the Government increased the allocation by 46% from Ksh 42.5 milliard to Ksh 62.1 milliard for rehabilitation of old roads and construction of new roads. It is hoped that the Government will increase the amount of Local Authorities Trust Fund (LATF) to enable Councils to take up more roads in industrial zones. The Minister of Finance has reiterated that the Government will increase the participation of private sector players in road financing, construction and maintenance by making operational the proposed three roads authorities (http://www.kam.co.ke/kam\_news.php?id=48)."

Considering the Industrial Area Nairobi as one the most important production sites of the country the question arises where this huge amount of money goes. The quote is a typical example for the wide gap between governmental intentions and the reality. Kilometers of maintained road have actually been decreasing in Nairobi for the last few years. This refers to the disconnect between setting and expenditure priorities, and budgeting leaves a large proportion of city finances to be applied with discretion and waste.

Nevertheless, walking around in the industrial area, one can actually find some road works going on, but they seem to be popping out in a rather spontaneous way without any transparent planning and little effect on the situation as a whole.

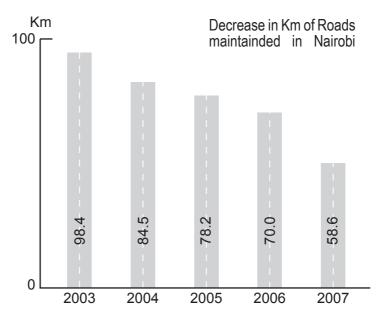
Official planners at least show a certain awareness of the problems, but admit without hesitation a lack of professional planning. "If someone reports a hole in a street for example, nothing will be done until an accident happens", states Steve Tumbo, town planner for the industrial area at the Ministry of Land, blaming the state of affairs to a lack of financial resources and a law that forbids ministries to seek help from external planning bureaus

Right now, there is no existing development plan for the industrial area - there are not even maps to be found at the responsible authorities that show the present situation.



# "I can't find the **maps**...someone might have borrowed them."

William Orina, technican, Ministry of Land, asked for maps about the industrial area







current roadworks of the Nairobi City Council on different streets



"The Nairobi City Council wants to create more **employment** but doesn't face the challenge!" Charles Osengo, town planner, Nairobi City Council



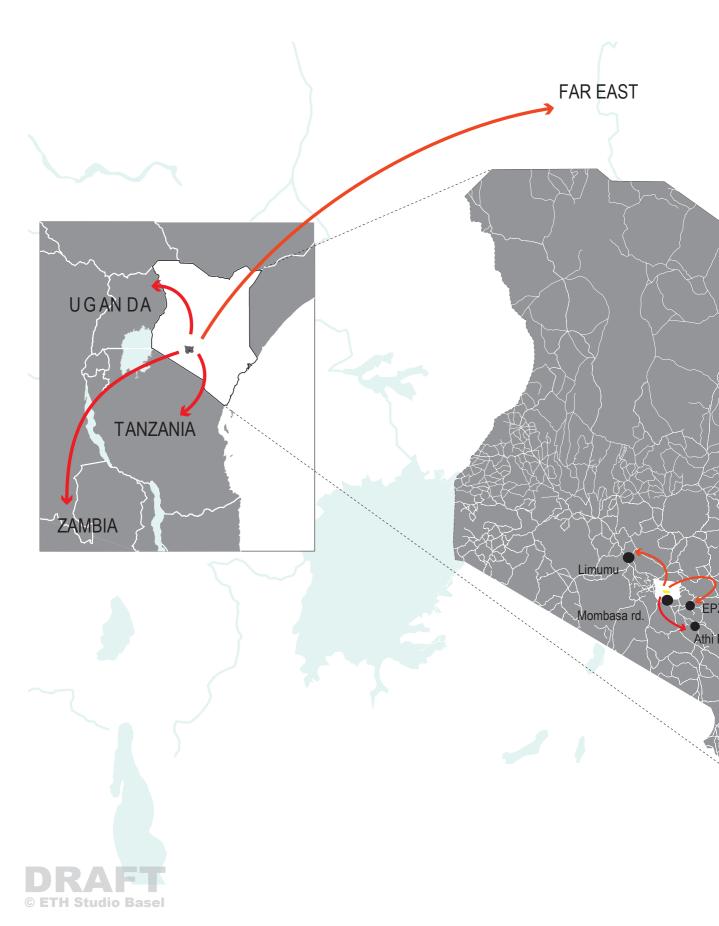
"Demystify the city! We need crazy major who says: Yes, we are **replaning**, and we pay for voids." P.M. Syagga, Department of Real Estate





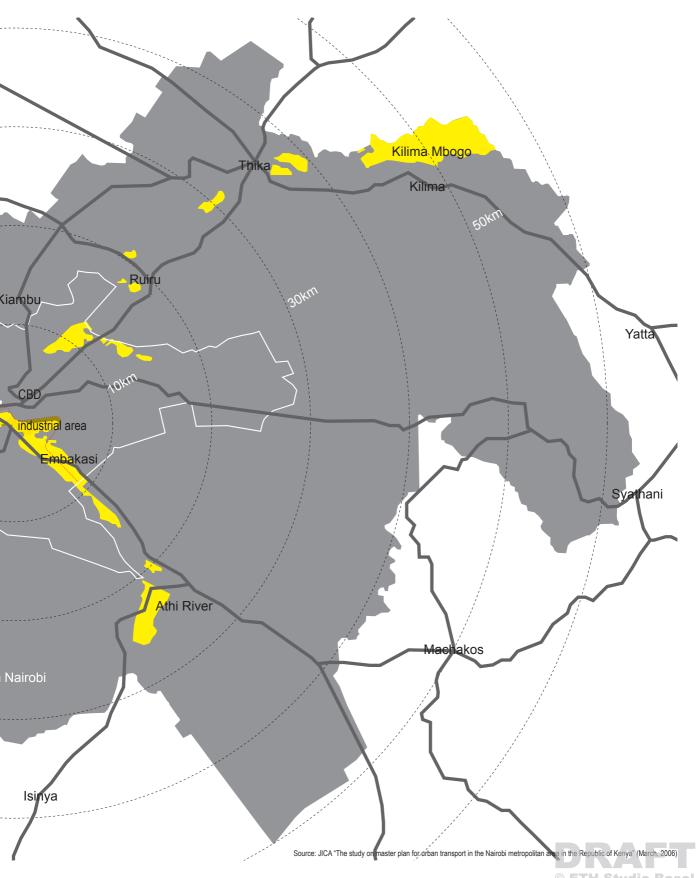
**Relocation of Factories** 





## **Relocation of Factories** Due to the problematic surroundings in the Industrial Area, lots of companies resolve to seek for other industrial sites that allow more efficient production conditions an provide a better industrial infrastructure. Some find new plots on Nairobi's on low density Mombasa Road, in satellite industrial areas like Athi River or Kilima Mbogo, in Kenya's Export Processing Zones or even abroad running after lower production costs. cost of labor 6.2 \$/hour Kenya<sub>1</sub> Malaysia<sub>2</sub> 2.6 \$/hour 0.57 \$/hour Nigeria 19.4 \$/hour Japan<sub>4</sub> cost of electricity 7.8 m<sup>2</sup>/cent Kenya₅ 3.5 m<sup>2</sup>/cent Bangladesh China 4.3 m<sup>2</sup>/cent Institute of Quantity Surveyors of Kenya (February, 2004) Institution of Surveyors of Malaysia (March, 2004) Nigerian Institute of Quantity Surveyors (September, 2002) Japan Society of Cost and Project Engineers (November, 2004) Kenya Power and Lighting Company (2005) Ramaswany, K.V. (2004) "Global Opportunities and Textile Industries in South Asia" in M. Battacharaya, South Asia in the Era of Globa and Welfare, New York; Nova Science Publishers © ETH Studio Basel



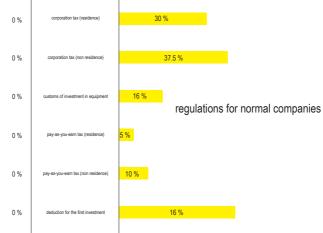


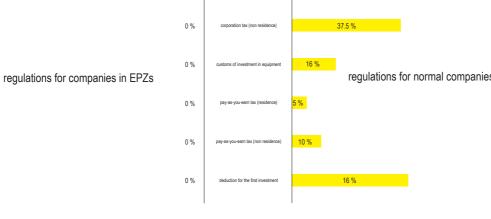
### **Export Processing Zones**

The EPZ Authority was established in 1990, by the EPZ Act and is part of the Laws of Kenya.

In EPZs companies receive governmental incentives. All produced goods are determined for export purpose. Some of the benefits in detail are:

- total exemption of the corporation tax after 10 years, partial exemption (25%)
- total exemption of the pay-as-you-earn for the first 10 years
- total exemption of deduction of the first investment during the first 20 years
- total exemption of customs of investment in plant and equipment







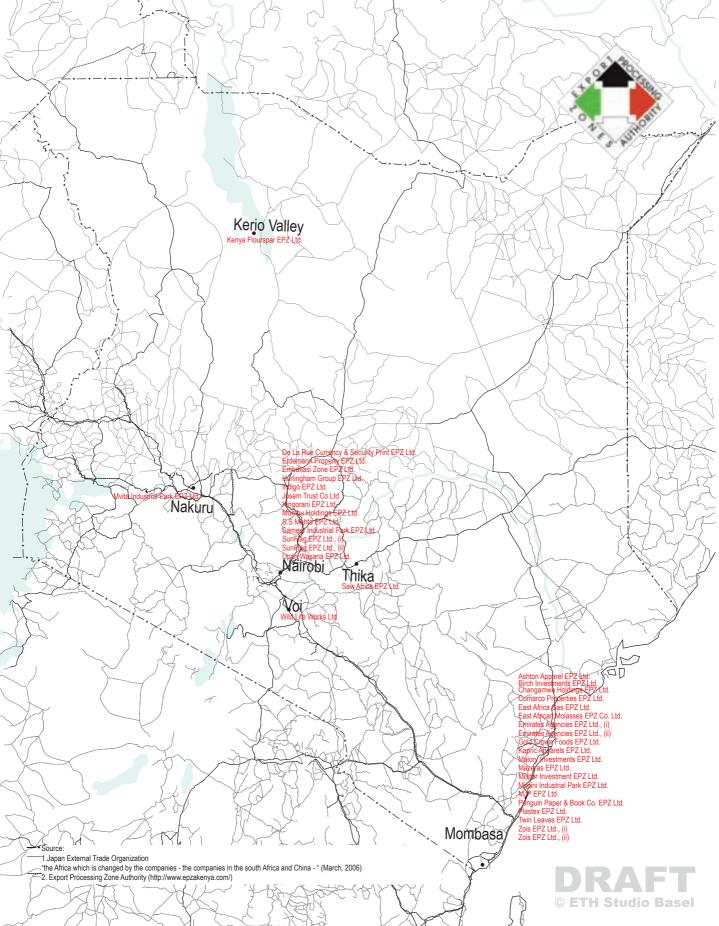














**Potential** 











## independent gentrification











construction of new buildings

#### **Potential**

An independent shift of use is already happening in the area. Car showrooms, banks, restaurants, nightclubs, housing, and even schools have infiltrated. Some of these pioneers of multifunctional use find space in old industrial facilities left by relocating companies, or even get involved in constructing new buildings.

Considering the closeness to the overcrowded city center, this autonomous gentrification offers a great potential to reduce the problem of congestion. The ongoing modification could be strengthened by the government offering incentives to companies willing to leave the area. Official planners don't seem to have realized this chance, though.

Nairobi never had a logistic center. Goods are spread in a quite chaotic manner throughout the city. An upgrading of the neglected old railway lines in combination with the left facilities being used as storage could bring a more efficient logistic structure to the city.

Also the vast unused strip of railway land at the northern limits of the area offers great potential, being so close to the center of Nairobi.



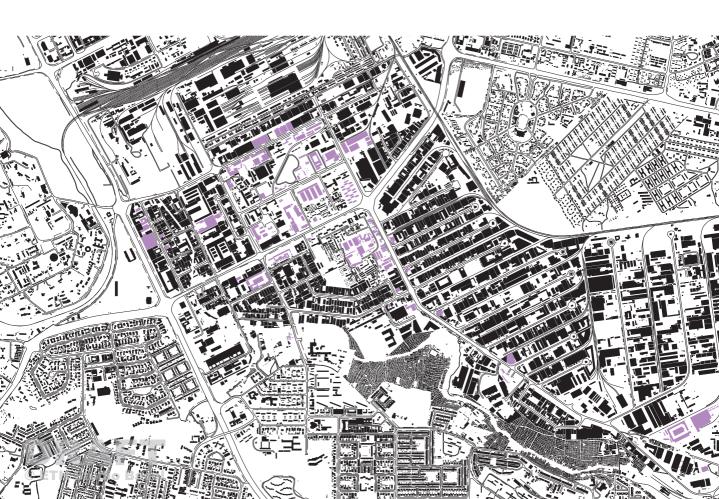


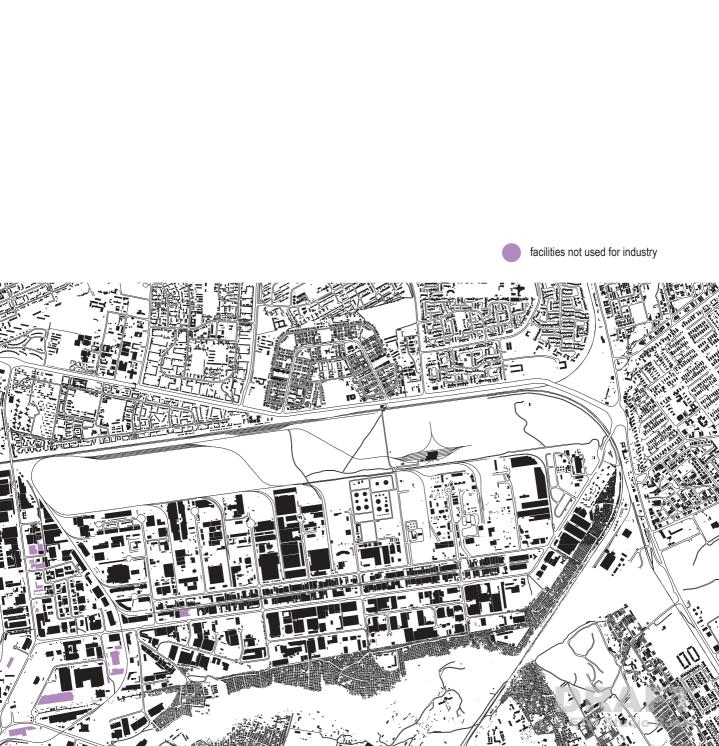


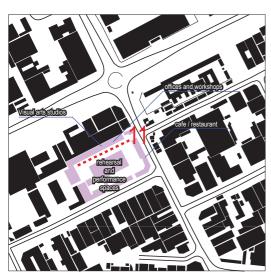




## shift of use











tradtional Kenyan music

## 11 court of the Godown Art Center





#### Infiltration of Culture - the Godown Arts Center

The idea of creating base to support local artists in Nairobi was initiated in March 2001, by a group drawn from the visual arts, theatre arts, dance and puppetry. In time, the group expanded to include acrobatics, musicians and filmmakers.

In January 2003, the group finally found a suitable building in the Industrial Area to unite all members under one roof. The facility consists of an arrangement of old godowns, what means warehouse. A lease agreement was entered into with CMC, a multinational car company that owns the property. After nine months of renovation activity, the space was ready for artist organizations to move in.

The Godown facilities are also used by non-resident artists and organizations for exhibitions and book launches, workshops and rehearsals.

Currently, the Godown is developing programmatic governance and fundraising frameworks to help secure its organizational and financial sustainability in the long term.

In the beginning the group was inspired by Soho and other revitalized old industrial areas around the world. The intention was to enter this area as pioneers of new Kenyan cultural movement, giving the area a new footprint.

Today, after four years of existence, director Joy Mboya, is struggling with some doubts. Visitors don't show up as expected. The space could offer culture too much more people than actually show up to visit the exhibitions, performances and shows. This is due to the poor image the area has. 'Normal' people from Nairobi would never enter the crime ridden and congested Industrial Area voluntarily. Also no help from the government has been offered to the institution. One day the major passed the Godown by chance, he was surprised and admitted he had never head of the institution before.



Kuona Trust



Patricia Kyungu, Manager

"The Godown provides work space for our visual artists. It is also a place where art lovers, and even those not aware of art can come to see the work of the artists."

Sarakasi Trust



James Munga, Administration

"We support acrobats who come from disadvantaged backgrounds; acrobatics is an economic resource for them. At the Godown, they have space to meet, train, and exchange techniques."

**Nairobits** 



Anne Ikiara, Manager

"I like the blend of art-forms at the-Godown. It is an inspiration for our students here at Nairobits, where we teach electronic art."

Twin Roots



Kamau Karanja, Artist

"The Godown provides us with a base from which to plan and carry out our activities with the children and youth in performance and social awareness."



"If we could only get some support from the city...' Joy Mboya, Director of Godown Art Center

#### RAMOMA Promoting Kenyan visual arts



Peterson Kamwathi, Artist

"The Godown is exclusively a space for the arts. This lends the performing and visual arts field a "seriousness" and firm grounding."

Medeva TV
Film/video creative and technical training



Faith Koli, Producer

"The synergies created between the artforms, and the atmosphere for working make the Godown the place to be for a creative person."

Kete Bul Studios



Gabriel Omondi, Engineer

"The environment is positive, we are working next to like-minded people, and there are opportunities to show-care our misic, tobe exposed to visitors to the Centre and to interact with key-players in the arts sector."

CITD

Center for International Theatre Development



Philip Arnoult, Director

"The Godown, as it is now has served as a catalyst for reshaping the cultural landscape of East Africa. Fully completed and fully renovated, it will make a major contribution over the next decades to the region."

sponsors:

















## space in waiting



the vast strip of land in the north, owned by Kenya Railway



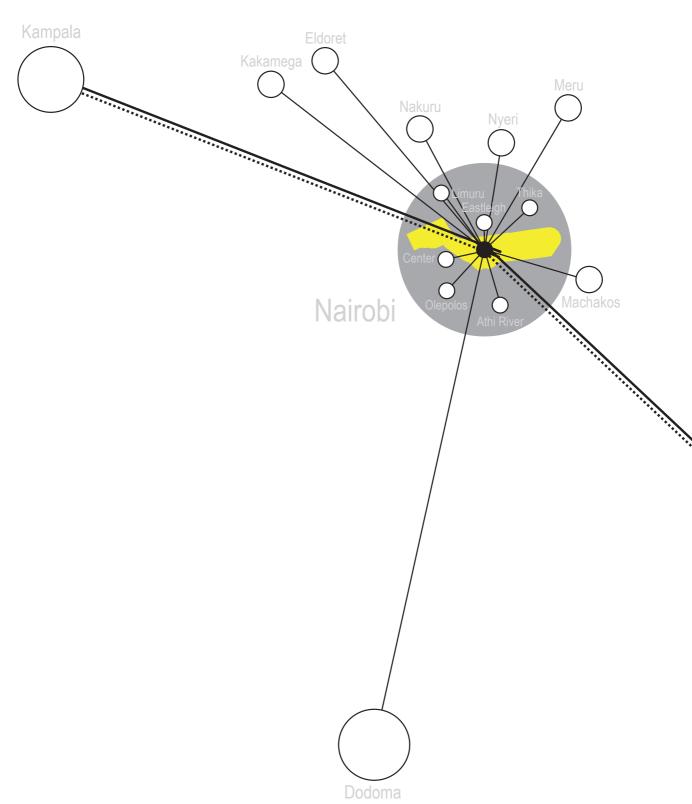






A Future Scenario



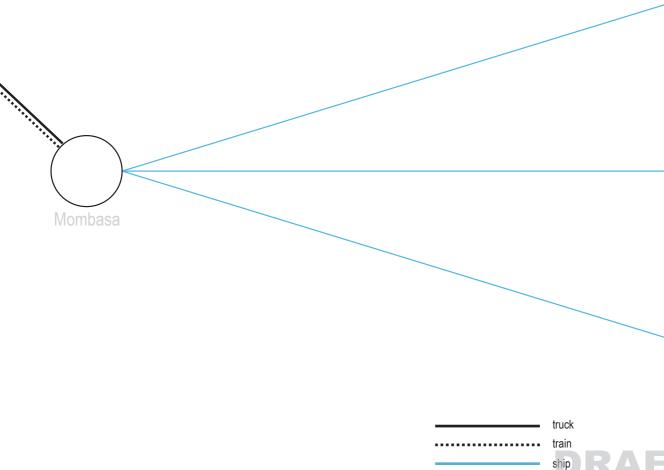


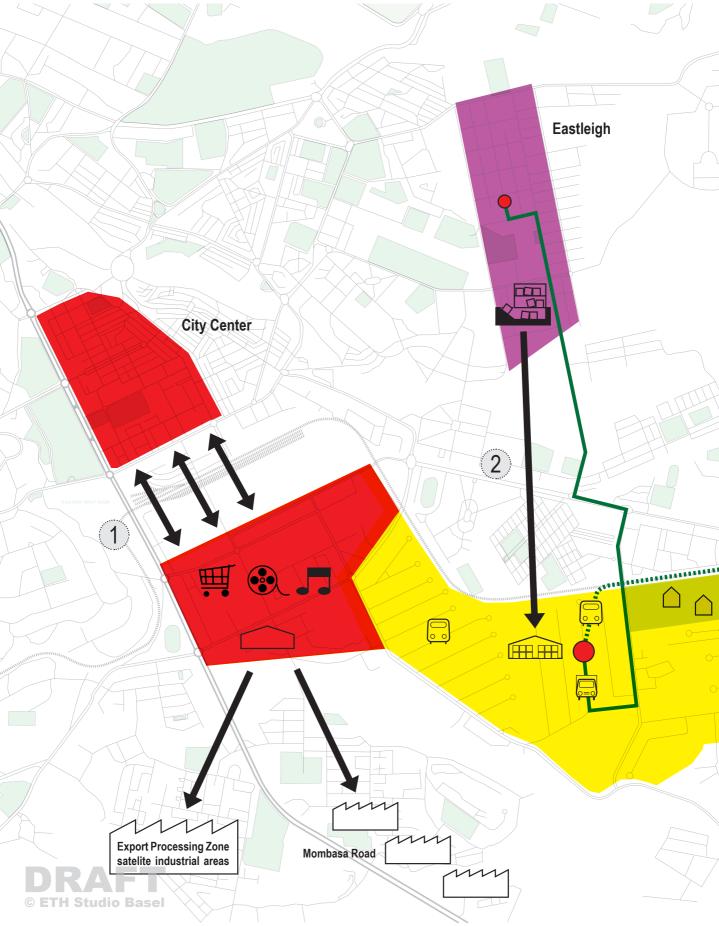


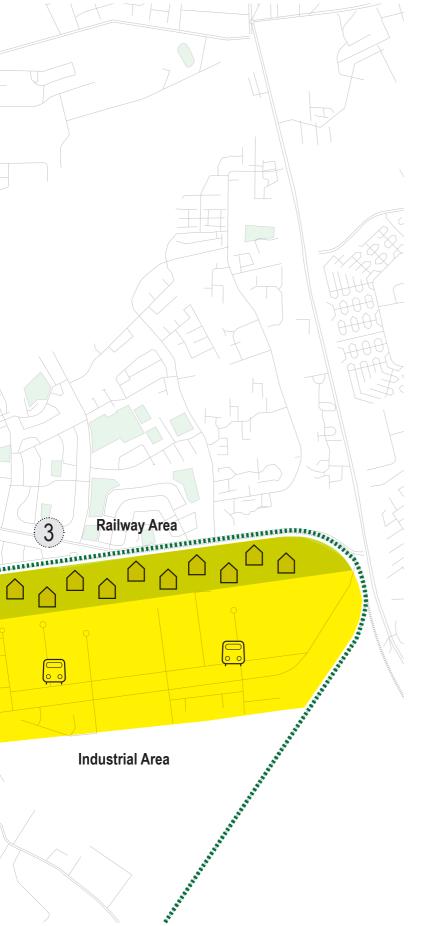
#### The Industrial Area as a Logistic Center

Since colonial times the Industrial Area hold a central position in Nairobi's, Kenya's and West Africa's flow of goods, but failed to meet the necessity of appropriate logistic structures and facilities. Today, the majorities of goods still enter Kenya at the harbor in Mombasa, and are transported via trucks to Nairobi. The railway line is in a poor condition and cannot compete with truck transport in terms of cost and time. Arriving the capital, goods are mostly stored in a chaotic and inefficient way without any professional logistic approach. Empty space in the Industrial Area could be used to finally install a professional system of storage and distribution of goods. Both, economy and the congestion problem would benefit from this. Of course, this has to be developed together with a well-planned revitalization of the raw railway infrastructure that has been abandoned for so many years now.

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#### Benefits for the City Center and Eastleigh

The industrial area proofs to be inefficient, unsafe, polluting and not animated towards growing.

Decades of unsystematic official planning have run down this strip of land to an indefensible condition. Especially the abandoned railway demonstrates the necessity of action. Today all goods coming from Mombasa to the capital are transported via trucks, causing immense congestion on the highway and in the city, besides being an economically and ecologically questionable mode of transport.

Current statistics, analyses, maps, development plans of the area do not exist what makes it impossible to come up with serious attempts of urban redesign of the area at this point. The presented future scenario wants to galvanize and to stimulate meditation.



Given the high density in the city center of Nairobi and the closeness to the industrial area, official planning should use the already existing desire of companies to relocate by amplifying incentives for new construction of companies in the Export Processing Zones, the satellite industrial areas and on Mombasa road. Abandoned facilities and space should then be used as an extension of the city center by infiltrating more commerce, gastronomy and culture in the way it is already happening independently (e.g. the Godown Arts Center).

The extension should lead to a decrease of high density in the city center and improve the congestion.



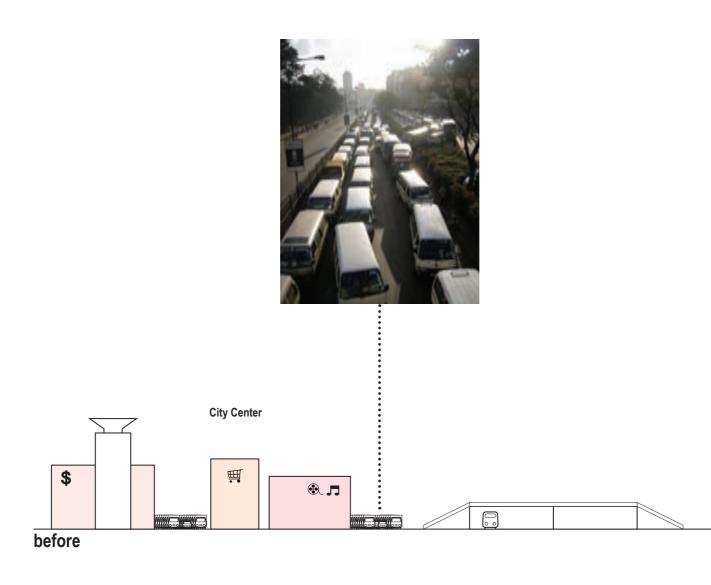
Eastleigh, Nairobi's second most important commercial center, also suffers from high density and immense congestion. This is mainly caused by the system of logistics applied by Somali trades people. Large amounts of goods are transported directly into the area by huge trucks, and directly brought into small and insufficient storages, mostly in the cellars of the shops. There is no logistic center used.

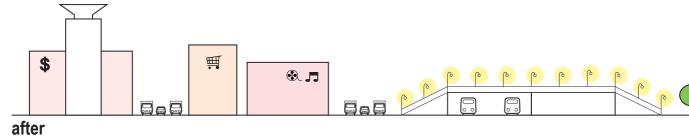
Empty space, caused by relocating companies in the industrial area, could by used for Nairobi's first logistic center. The railway should be installed again, what would allow the following mode of transport for goods sold in Easlteighs: goods are transported efficiently and safe by railroad to the new logistic center in the industrial area, then the goods are stored professionally in the assumed facilities, finally the goods are transported via small trucks just-in-time to the shops in Eastleigh.



The unused and crime ridden vast strip of railway land in the north of the area could be used for company housing. The original idea of the 1948 master plan stated that workers should reside within a 1000m radius to their work place. Having more workers living within foot reach to their workplace would have a positive effect on the congestion problem.





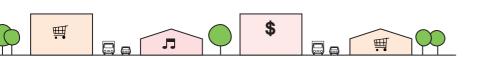






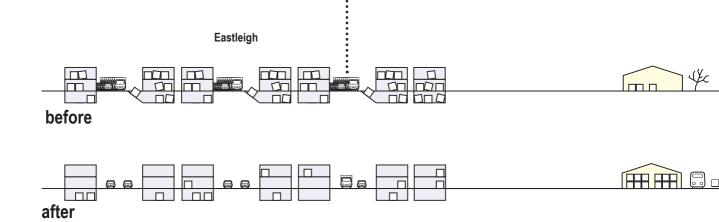
### **Industrial Area West**















### **Industrial Area West**









Makadara Residential Area



Railway Area



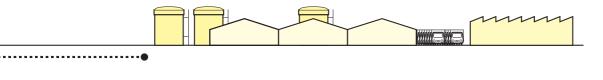
efore the void: 400m

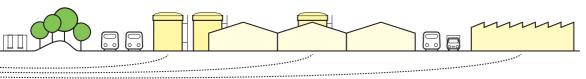






### **Industrial Area East**





distance to work: max 1000m



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