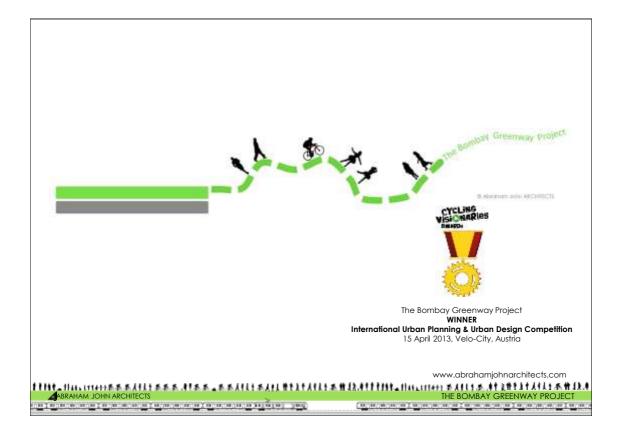


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THE BOMBAY GREENWAY PROJECT



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THE BOMBAY GREENWAY PROJECT

WHY DOES THE CITY NEED A GREENWAY?

1 1111 -

ISSUES THAT THE CITY IS FACING

- •THE PROBLEM OF THE EAST-WEST DIVIDE
- •CONGESTION ON ROADS
- •OVER CROWDED TRAINS
- •LACK OF PUBLIC SPACES
- •LACK OF DEDICATED LANES FOR PEDESTRIANS/CYCLISTS
- •LIMITED INTERACTION SPACES...

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THE EAST WEST DIVIDE IN BOMBAY

evening.

The railways run through the city like a river: long & linear holding the city together like a spine!

Unfortunately, the City stands divided into East & West, the South & West being the more exclusive, being closer to the developed seafront. All peak hour travel is North-South in the morning & South-North in the

Connections in several areas have been proposed, allowing for a system of interchangeable modes of transport with government & public participation. A rentable cycle scheme would allow a person to walk, cycle & use the train to his destination without owning any means of transportation but having full





Impossible East West connections



The great crossing: Crowded foot-over-bridges



Foot over bridge or Chicken coop?



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THE STATE OF THE



Crowded stations

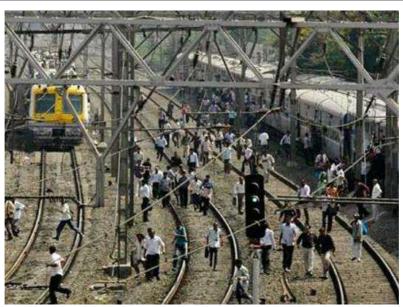


An easier way to cross from east to west...

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12 deaths everyday due to trespassing...

PUBLIC SPACE:

or the LACK OF IT...





Lack of public utility space : make-shift school



Lack of Public Space: foot path crowded with hawkers

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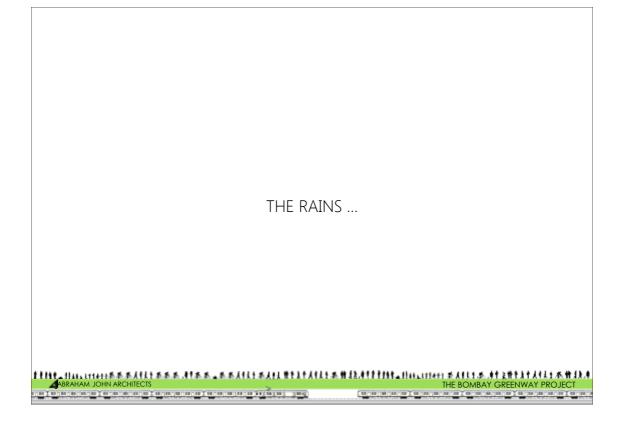
THE BOMBAY GREENWAY PROJECT

THE STATE OF THE BOMBAY GREENWAY PROJECT

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Lack of Public Space : foot path crowded with hawkers



340 Central Railway & 20 Western Railway services cancelled on 16 June 2013 due to waterlogged tracks. *This is a common scenario in the monsoon, every year!*



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High tide + torrential rain + poor drainage

THE BOMBAY GREENWAY PROJECT ing Kanpanjanjan Kanbaran anjan Karparjanjan ing Kahanjanjan panjanjan karparjan



To walk or to swim? That is the question.

THE CONCEPT

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THE BOMBAT GREENWATT



114 km railway line = 114 km green space

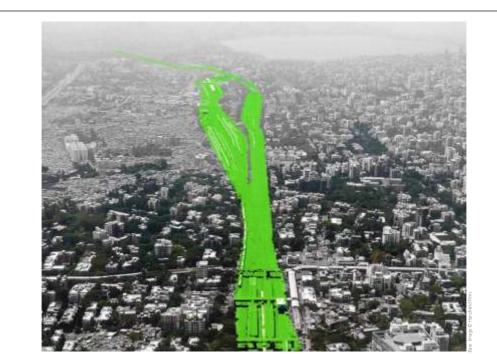
(Churchgate to Virar: 60.13 km + Mumbai CST to Thane: 32.88 km + Mumbai CST to Mankhurd: 21.17 km) Average width along entire stretch 35m

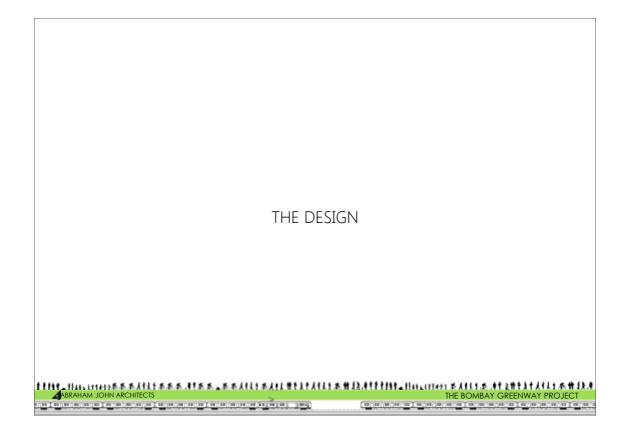
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THE IMPACT

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THE BOMBAY GREENWAY PROJECT









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THE BOMBAY GREENWAY PROJECT

CASE STUDIES

CASE STUDY 1 PODIUM GARDENS





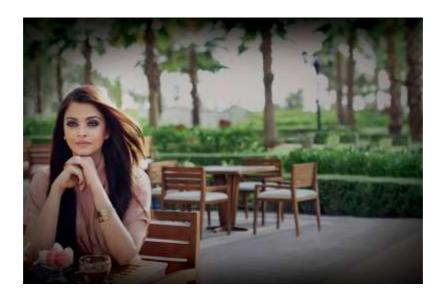
Planet Godrej, Mahalaxmi, Mumbai. Podium area: 0.013sq.km, Caters to 1920 people



Oberoi Springs, Andheri West, Mumbai. Podium area: 0.009sq.km, Caters to 2376 people

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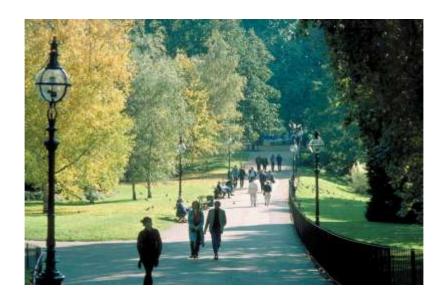
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THE BOMBAY GREENWAY PROJECT



JJ flyover



Bandra Worli Sea Link

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THE BOMBAY GREENWAY PROJECT

THE BOMBAY GREENWAY



Eastern Freeway

THE CONCEPT, RE-IMAGINED ...

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FREEWAY + PODIUM GARDEN = THE BOMBAY GREENWAY

no cars; just people & trees, nature....

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CASE STUDY 3

THE RAMBLA BARCELONA, SPAIN 1.2km long, 30m wide







La Rambla is the most famous street in Barcelona.

The wide boulevard connects the Plaça de Catalunya, a busy square, with the Columbus Monument and the city's waterfront.



La Rambla aerial view

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THE BOMBAY GREENWAY PROJECT

THE STREET OF THE BOMBAY GREENWAY PROJECT

THE BOMBAY GREENWAY PRO



La Rambla night view

CASE STUDY 4

THE PROMENADE PLANTEE PARIS, FRANCE 4.7km long, 6m to 7m wide







Promenade Plantée access to the city

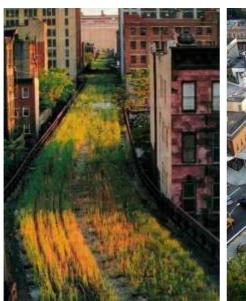




Promenade Plantée: relationship with the city

CASE STUDY 5

THE HIGH LINE NEW YORK, USA 2.33km long, 7m wide





Opened for public in the year 2009, The High Line is one of the most innovative and inviting public spaces in New York City.

The black steel columns that once supported abandoned train tracks now hold up an elevated park—

part promenade, part town square, part botanical garden.

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The High Line

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THE BOMBAY GREENWAY PROJECT



The High Line

CASE STUDY 6

La Línea Verde — The Green Line. Aguascalientes, Mexico 12km long, 105m wide

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THE BUMBAT GREENWATT

COMMANDER OF THE BUMBAT GREENWATT



This 12km linear park is one of Latin America's most extraordinary urban green spaces.

APPROVIDENCE OF THE POWDAL OF





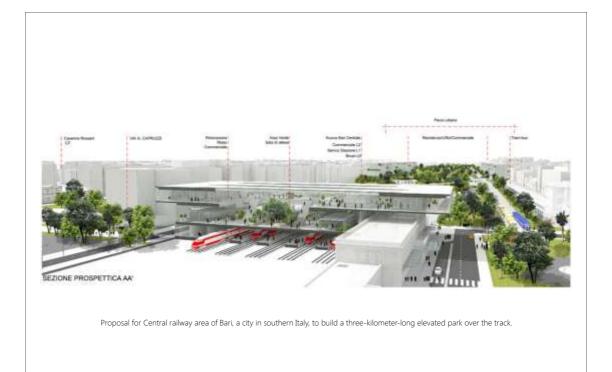
Dusty fields - strewn with garbage and a haven for criminals - were converted into a gleaming park with trails, playgrounds & shaded pavilions Solar-powered lamps light up the walkways at night. And in the afternoons, when children come home from school, the park is typically busy with families out walking, biking, exercising or just gathering in the park's many social spaces





Facilities in the park provide recreational opportunities and has helped reconstruct the tattered social fabric in the colonies alongside. This urban renewal project was completed in 3 years and has transformed the lives of the residents near by.

| | RECENT CASE STUDIES |
|-------------------------|---|
| | PROJECTS HAPPENING |
| | ACROSS THE WORLD RIGHT NOW |
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| | CASE STUDY 7 |
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THE BOMBAY GREENWAY PROJECT
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Stretches over an area of 78 hectares and is centred around a large park that will pass over the railway and offer promenade views over the city and the sea.



The project will also provide Bari with a new cultural centre. Existing buildings will be restored and turned into a public library, an exhibition space, municipal offices and workshops.

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THE BOMBAY GREENWAY PROJECT



Bari Central



Bari Central



CASE STUDY 8

TRANSPORT FOR LONDON LONDON, UK

This project was announced on the 13th of June, 2013



Approx. 0.33km long pedestrian bridge to connect North & South Bank of London

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THE BOMBAY GREENWAY PROJECT



The project envisions a lush garden walkway that would be planted with grasses, trees and species of wild flowers.



The bridge would provide a rich new public green space for the city

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THE BOMBAY GREENWAY PROJECT

CASE STUDY 9

SKY CLYCLE LONDON, UK

This project was announced on the 2nd of January, 2014

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THE BOMBAY GREENWAY PROJECT





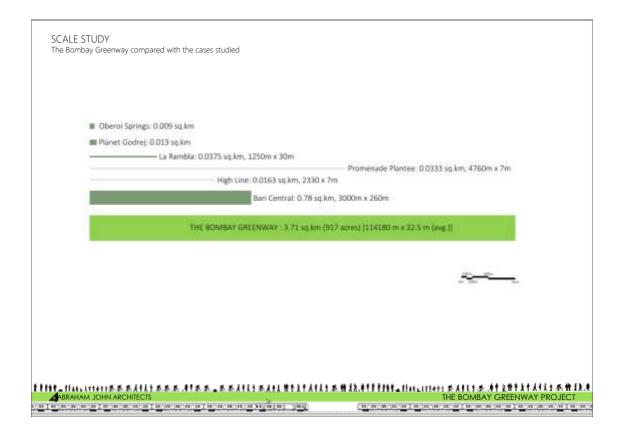
THE BOMBAY **GREENWAY**

THE SKY CYCLE A scheme to save 14 lives a year!

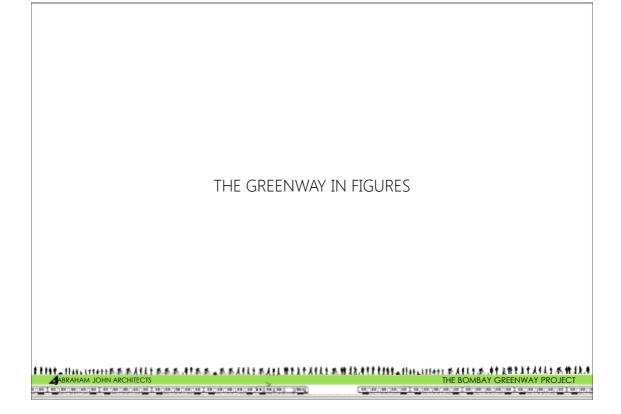
> A scheme to save 4000 lives a year!

PERSONNAL CONTROL OF THE BONDAL GREENWALF ROJECT









AIRPORT FACILITIES VS. SUBURBAN RAILWAY STATION FACILITIES

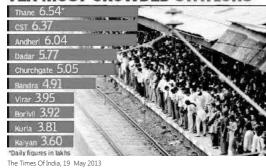
Here is a quick look at the facilities of the Airport (post the T2 terminal) vs. any ordinary Suburban Railway Station

| | AIRPORT | BANDRA STATION |
|----------------------------|--------------------|--------------------|
| Passenger capacity | 100,000 people/day | 500,000 people/day |
| Landscape area | 200,000 sft | 0 sft |
| Passenger boarding bridges | 52 | 7 platforms |
| Check-in counters | 188 | 3 ticket stations |
| Parking | 5000 cars | 0 cars |
| Flight handling capacity | <1 flight/min | 2-3 trains/min |
| Elevators | 73 | 0 |
| Travellators | 41 | 0 |
| Escalators | 47 | 0 |
| Security check positions | 104 | 0 |
| Toilets | 101 | 1 |

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THE RAILWAY STATIONS IN BOMBAY

TEN MOST CROWDED STATIONS



There are 28 railways stations on the Western Line, 19 on the Central Line and 15 on the Harbour Line that are under consideration in The Bombay Greenway Project – a total of 59 railway stations handling over 7.7 million people daily!

Churchgate to Virar : 60.13 km Western Line: 28 railway stations

Mumbai CST to Thane: 32.88 km: Central Line: 18 railway stations (Dadar duplicated)

Mumbai CST to Mankhurd : 21.17 km : Harbour Line: 13 railways stations (CST & Kurla duplicated)

As of June 2013, not one railway station has an escalator. Thane will be the first. Not one has a lift!

Every mall in Bombay has escalators and lifts.

The image alongside from the newspaper shows the traffic at each station, each of which handles more people by far than the Bombay Airport!!!

Let's spend public money where it makes a difference!

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THE GREENWAY IN NUMBERS

7.7 million = No. of daily commuters on the railways

114 km = The proposed length of the Greenway

59 = The no. of stations considered

917 acres = The total green space added to the city

1,00,000 = The approx. no. of trees on its entire stretch

7,400 million litres = The water harvesting potential of The Greenway

COST

| | Name of Desirat | 1 | 147: -141- | Total Cost | C = ++ 1 | |
|----|--------------------------------|--------|------------|------------|------------|--|
| | Name of Project | Length | Width | Total Cost | Cost/km | |
| | | km | lanes | Rs (crore) | Rs (crore) | |
| | Recently completed Projects: | | | | | |
| 1 | Milan Subway Flyover (2013) | 0.7 | 4 | 84 | 120 | |
| 2 | The Eastern Freeway (2013) | 16.8 | 4 | 1250 | 74.4 | |
| | Orange Gate elevated section | | | | | |
| | (part of the Eastern Freeway) | 9.3 | 4 | 750 | 80.7 | |
| 3 | Panvel Elevated Road (2012) | 2.4 | 4 | 139 | 58.5 | |
| 4 | Bandra Worli Sea Link | 5.6 | 8 | 1600 | 285.7 | |
| | | | | | | |
| | Under Construction Projects: | | | | | |
| 5 | Santa Cruz – Chembur Link Road | 6.5 | | 435 | 67.4 | |
| 6 | Elevated Sahar Road | 2.4 | | 220 | 91.7 | |
| 7 | Santa Cruz – Chembur Link Road | 6.5 | | 435 | 67.4 | |
| | | | | | | |
| | Future Projects: | | | | | |
| 8 | Pedder Road Flyover | 4.2 | | 380 | 90.5 | |
| 9 | Worli- Haji Ali Sea Link | 3.4 | | 2800 | 823.5 | |
| 10 | Bandra- Versova Sealink | 10 | | 3800 | 380 | |
| 11 | Coastal Road | 35.6 | | 8000 | 224 7 | |

Note: All projects in Bombay

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COST

Cost of construction = Rs.1200 million per km, as per a 6 lane flyover, based on calculations derived from the published cost of construction of the elevated road of the Eastern Freeway & the Milan Flyover in Bombay (both 2013).

Total estimated cost of the project = Rs.136800 million

Cost of construction = Rs.33,000 per sq.m, based on calculations derived from the published cost of construction as per new pre-fabricated methods. Conventional methods cost about Rs.12,000 - 15,000 per sqm.

Total estimated cost of the project = Rs.94050 million

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WATER LOGGING TO WATER HARVESTING

PRESENT SITUATION

340 Central Railway & 20 Western Railway services cancelled on16 June 2013 due to waterlogged tracks This is a common scenario in the monsoon, every year!



Source : Times of India, June 17, 2013

SHIVAJI PARK TO GET ITS OWN WATER HARVESTING SYSTEM

The Environmental Minister gives final clearance for the 160 million project which will help save the city 100,000 litres of water everyday Source : Mumbai Mirror, 13 May 2013

200 million litres

Shivaji Park: 28 acres

7,400 million litres The Bombay Greenway: 917 acres

CHANGES PROPOSED

The Bombay Greenway Project plans to change

WATER LOGGING

the current day scenario that causes endless delays, diseases and unnecessary troubles

WATER HARVESTING

a positive way to bring about change, not just a solution to the water logging, but a positive fallout of the Bombay Greenway Project, a wellplanned and well executed design for the city and for its people

The Bombay Greenway Project would also positively impact the railways:

•Reduced Heat load that would allow for easy & effective air conditioning •Easy East-West Connectivity resulting in no deaths due to trespassing on tracks

Trains travel would consequently be more comfortable and services would run on time. Delays and cost overruns and accidents would be a thing of the past.

WATER HARVESTING POTENTIAL

The Bombay Greenway will be a minimum of 917 acres green space with a potential water harvesting capacity of 740 crore litres

This would be enough not only to keep the project self-sustainable, but also to feed neighbouring areas with sufficient water for the whole year.

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How does the Bombay Greenway project benefit the Railways?

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A BETTER COMMUTE

An upgraded railway station that doubles up as an urban park will greatly improve the daily commute by train, providing upgraded facilities to accommodate the predicted increase in passenger numbers:

- •Cleanliness at the station
- •Organised entry and exit points
- •Larger circulation areas, open plazas
- •A number of ticket counters
- •Signage / Clarity in announcements
- Availability of parking space
- •Cafes, restaurants, shops (revenue)
- •Drinking water facilities
- •Toilets for gents and ladies
- •Waiting rooms, lighting, fans, telephones, turnstiles
- •Facilities for the physically challenged, elevators, ramps, lifts, etc.
- •Easy and accessible complaint handling mechanisms

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A BETTER COMMUTE

- The proposal does not do away with the existing railway system, instead it chooses to improve the interconnectivity, upgrade all existing railway stations, & create the potential for newer stations.
- Newly created **retail spaces** would bring great profit to the railways: cafés, restaurants, shops
- All stations would be elevated; platforms & trains services would be unaffected
- All ticketing & entry could be modernised & security improved.
- Railway crossing accidents would be reduced; currently about 12 people die daily (4400 per year) while crossing railway tracksl
- Rain water lost yearly could be harvested; incidents of flooding could be controlled.
- The existing overhead equipment could be updated & laid under the Greenway, eliminating expensive accidents that are currently common
- Sound pollution due to the trains could be better contained & dramatically reduced.
- Heat gain on the trains could be reduced, allowing for more effective & economical air-conditioning
- These dedicated corridors would allow for faster & better train services.
- Commuters' comfort & train experience would improve significantly.

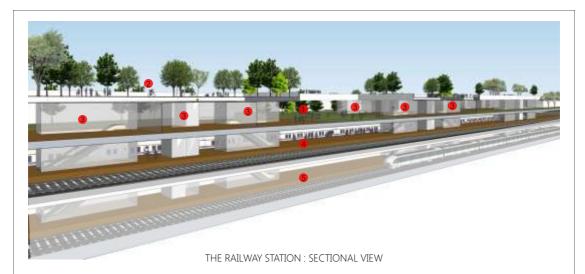
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THE NEW AGE GREEN RAILWAY STATION ON THE GREENWAY (eg. BANDRA STATION, WR)

- 1 RAMP ACCESS TO THE GREENWAY
- 2 SKYWALK ACCESS TO THE GREENWAY
- 3. STAIRCASE ACCESS TO AND FROM THE STATION
- 4 SKYLIGHT FOR THE RAILWAY STATION ON THE GREENWAY
- 5. GREENWAY RAMPING UP TO AVOID DISRUPTION IN CYCLISTS' MOVEMENT
- 6 GREENWAY ACCESS TO THE RAILWAY STATION

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- THE NEW AGE RAILWAY STATION ON THE GREENWAYthe extensive deck covering the platforms is scattered with voids allowing light, air & vegetation.
- 2. BICYCLE & PEDESTRIAN PATHWAYS
- 3. ACCESS TO THE RAILWAY STATION FROM THE GREENWAY
- 4. EXISTING RAILWAY PLATFORMS
- 5. POSSIBLE PLATFORMS FOR METRO TRAIN (FUTURE EXPANSION)



ABRAHAM JOHN ARCHITECTS

THE BOMBAY GREENWAY PROJECT



THE BOMBAY GREENWAY: The New, Upgraded Railway Station, bridging the East-West divide Development of a high houst whon park above the rollway creams highly accessible and vasitile public upon and the district experience of the dify.

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Aerial View – Bandra Station

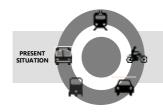
THE BOMBAY GREENWAY THE CITY

How does the Bombay Greenway project benefit the City and the Environment?

THE GREEN CITY

- Makes people once again walk, run & cycle instils a healthy lifestyle
- public spaces "green" & accessible to anyone anywhere in the city
- Re-introduces 'active modes of transport'; cycle sharing scheme
- Bridges the east-west divide, currently dictated by the over ground railway system
- Reduces traffic congestion & air pollution
- Addresses the city's needs for more open spaces that are both attractive & safe
- Carries major services: electrical, gas pipe, water supply & communication lines
- Creates spaces for leisurely activities (family outings, picnics, etc.)
- Creates spaces for the arts: public performances, art installations, exhibitions
- Creates spaces for daily markets
- · Introduces the concept of urban farming
- Creates a safe & secure environment
- Creates panoramic city views
- Enhances local biodiversity: indigenous trees & bird population. Imagine more than 1,00,000 trees on the Greenway an urban forest!
- environmental sustainable design features: water conservation and re-use, on-site energy production, smart technology for control of lighting and shading.
- The Greenway is a complete self-sustainable model that will improve Bombay's infrastructure and become a landmark in the city

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CONGESTED ROADS

OVERCROWDED TRAINS

UNSAFE TRAVEL CULTURE

Changing the way Bombay travels...

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ACTIVE MODES OF TRANSPORTATION









BROADWALK VISTAS

SHADED GREEN BICYCLE TRACKS

SAFE AND STRESS FREE TRAVEL

1 LINE THE BOMBAY GREENWAY PROJECT

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UPGRADING EVERYONE'S LIFESTYLE

ARRAHAM JOHN ARCHITECTS THE ROMBAY CREENWAY PRO JECT

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A BETTER LIFESTYLE

The Greenway provides connectivity and accessibility. It will no longer be a trek to get to a park.

The Greenway is accessible from your local railway station and anywhere else across the city.

Connections in several areas have been proposed, (encouraging East-West inter-connectivity as well), with more to follow, allowing for a system of interchangeable modes of transport with government & public participation.

This will allow a person to walk, cycle, use the train etc. to his destination without owning any means of transportation but having full access to them.

Of course, the Greenway is beyond basic transportation needs. It also caters to the leisure needs of a growing city.

The Greenway is active through the day;

Mornings - commuters & fitness enthusiasts;

Mid-day - lunch goers;

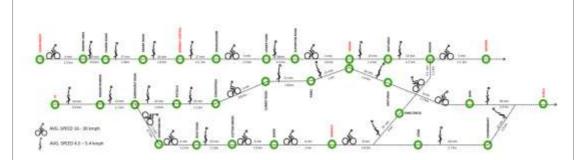
Late evenings - commuters, meetings, catching up with friends;

Weekends for family outings.

7.7 million people per day (minimum) = the no. of daily commuters on the railways

plus newly-generated tourists, cyclists & leisure-oriented public

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More transportation choices & reduced travel time on The Bombay Greenway

The Railway Experience is greatly enhanced, increased facilities provided on the site will transform it into an exciting destination rather than just a transitory transport hub as it is at present.

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THE BOMBAT GREENWAT PROJECT

Urban parks should be integrated into our living, working and commuting spaces

The Greenway will provide conducive environment for active modes of transport with flat and stress-free, tree-lined shaded pathways & zero-carbon transportation options;

So you can Run/Cycle/Walk/Skate your way to work!

As a result of the Bombay Greenway Project, each and every station will be upgraded and better the life of the everyday commuter and citizen!

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ACTIVITIES ON THE BOMBAY GREENWAY

The development of an urban park above the railway creates highly accessible and usable public spaces that enhance both the everyday commuter and the visitor's experience of the city. Significant transportation nodes double up as new social and cultural destinations.

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Activities on the Bombay Greenway

Activities on the Bombay Greenway



Activities on the Bombay Greenway

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THE BOMBAY GREENWAY PROJECT



Retail on the Bombay Greenway



Retail on the Bombay Greenway

ABRAHAM JOHN ARCHITECTS

THE BOMBAY GREENWAY PROJECT



Retail on the Bombay Greenway

A BEAUTIFUL CITY CENTRE

Connecting Mahalaxmi, the Racecourse & the Haji Ali Promenade & THE BOMBAY GREENWAY PROJECT



Connecting Haji Ali to Mahalaxmi Race Course, Mahalaxmi railway station & Jacob Circle via a green walkway:

to satisfy the **mobility needs** of people for a better quality of life and to give the public complete access to open spaces, encouraging active interchangeable modes of transport.

Creating a landmark in the city, with street furniture, landscaping, public performances, installation art, public exhibitions, etc.

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- 2 underpasses (1 & 2) are proposed towards Jacob Circle to decongest traffic. The currently over congested Bapurao Jagtap Road(3) is turned into a pedestrian-only space, linking to Haji Ali promenade(4).
- Creating another underpass on Lala Lajpatrai Road (Hornby Vellard Road)(5) would allow uninterrupted pedestrian access to the sea face. The grounds
 of the Racecourse could be extended across this arterial road that currently divides it from the sea.

Now, you can cycle from west coast to east coast, hassle-free









Greenways along race course

Ramp exits near green corridor

Greenways along city roads

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THE BOMBAY GREENWAY























ACTIVE THROUGH THE DAY!

"If you plan a City for cars and traffic, you get cars and traffic. $\,$ If you plan for people and places, you get people and places."

– Fred Kent

"A Developed Country is not a place where the poor have cars. It is where the rich use Public Transportation" - Mayor of Bogota

SUPPORT & JOIN THE GREENWAY!

₱/TheBombayGreenwayProject

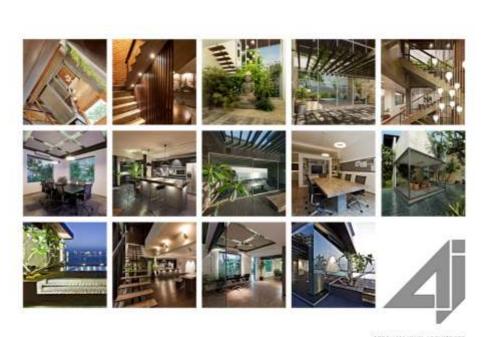
9@BombayGreenway

The Bombay Greenway Project

www.abrahamjohnarchitects.com/projects

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ALAN ABRAHAM PHOTOGRAPH/ www.stanobushom.com

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