

A photograph of a modern tram on a city street. The tram is silver and black, with large windows and doors. It is positioned on tracks that run along the side of a road. In the background, there are several multi-story residential buildings with brick facades and white window frames. The sky is overcast. The text "Proof of Evidence, Summary" is overlaid in yellow on the upper part of the image.

**Proof of Evidence,
Summary**

Nottingham Line 2

Public Inquiry

by

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Managing Director
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A nighttime photograph of a tramway system. Two trams are visible on tracks, one on the left and one on the right, both with their headlights on. The background shows a station platform with overhead power lines and streetlights. The text is overlaid on the image.

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*Specialists in
Affordable Tramways.*



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Light Rail (UK) Ltd Recent activities

**Tourist Tramways – Rhyl & Liverpool
Public Enquiries – Manchester Metrolink,
Merseytram**

**Select Transport Committees - Westminster,
Edinburgh & Cardiff**

**Air Quality Reports – Runcorn Bridge
Traffic Studies – Wirral, Rhyl, Glasgow,
Warrington, Halton, Toronto**

Public Presentations

Local Transport Plan 1 & 2

**Tourist Tramways – Rhyl & Liverpool
Public Enquiries – Manchester Metrolink,
Merseytram**

Political Lobbying

Secretariat,

All Party Parliamentary Light Rail Group

Light Rail (UK) Ltd



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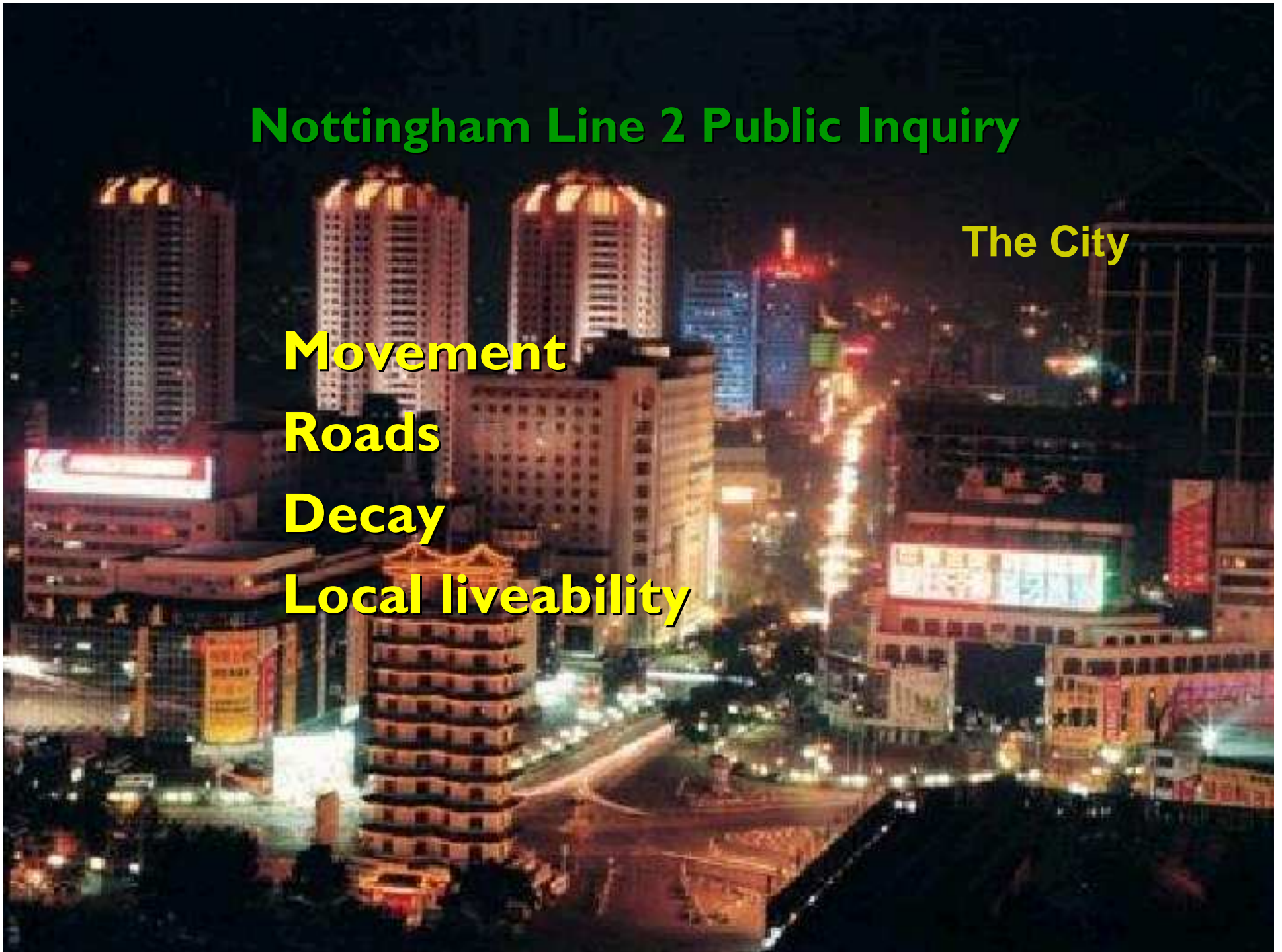
The City

Movement

Roads

Decay

Local liveability



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Movement

Centre of activity – trade, commerce, retail & leisure etc.,

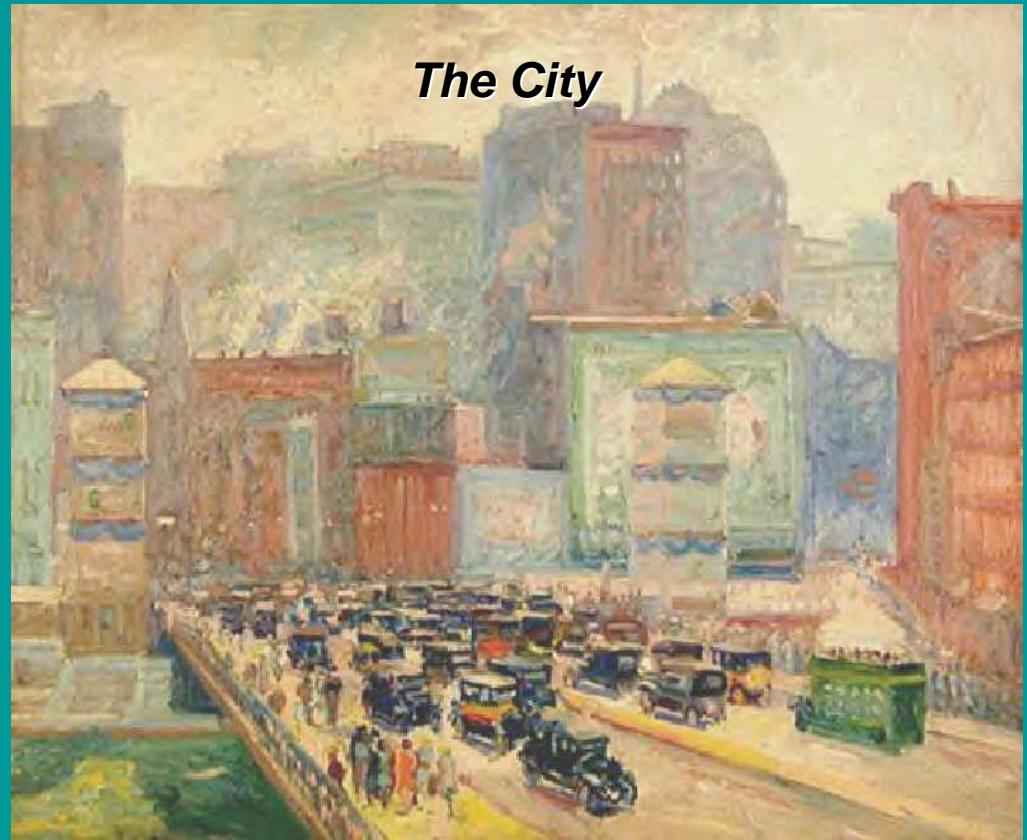
Vibrancy, attractiveness – movement

Roads & Streets

Roads – arteries - lifeblood – clogged – life ebbs –

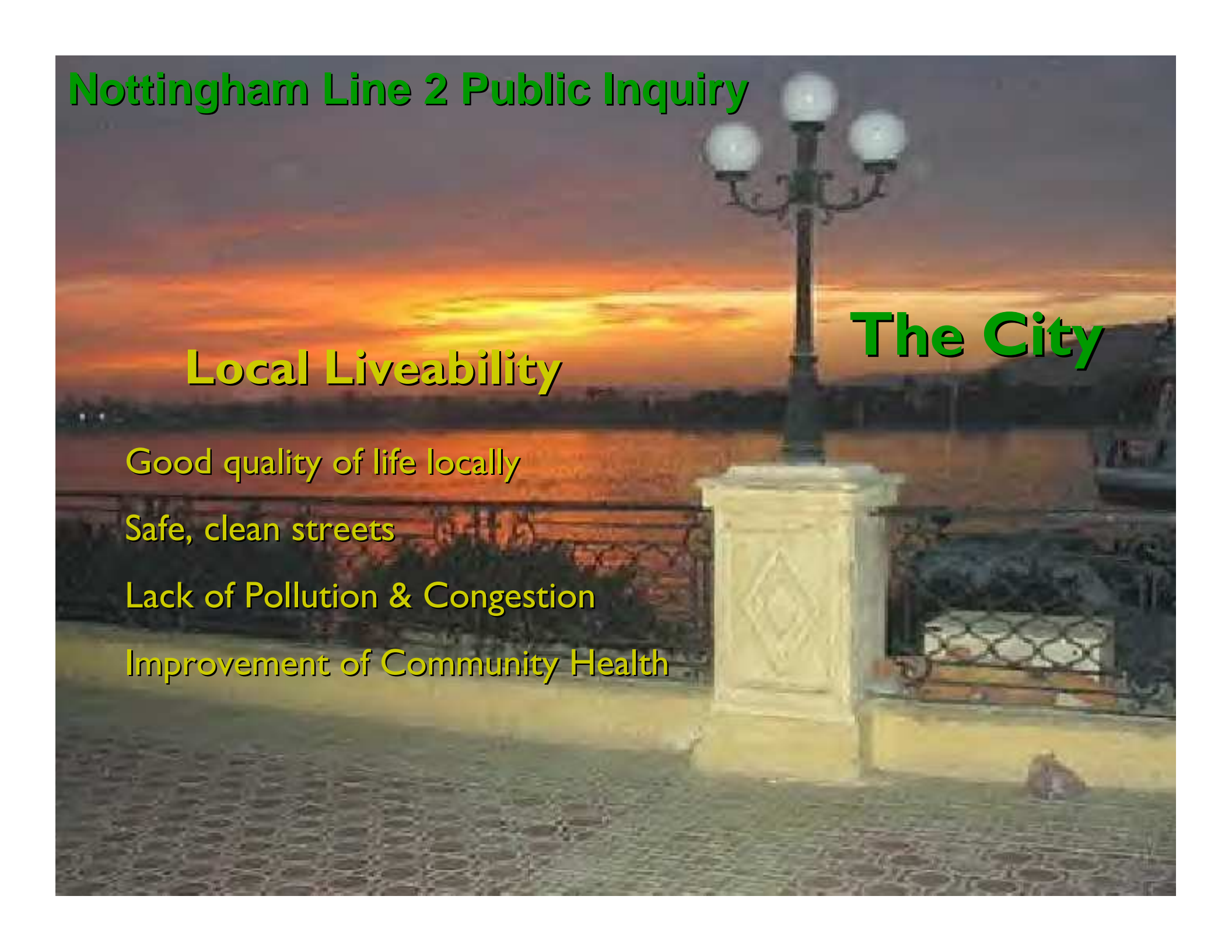
Decay

Reversal – slow & expensive



“Low cost alternatives have not worked on the same scale”

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A scenic view of a waterfront at sunset. The sky is filled with vibrant orange and yellow hues, transitioning into a darker blue at the top. In the foreground, a decorative lamp post with three white globe lights stands on a stone pedestal. The ground is paved with cobblestones. In the background, a body of water reflects the sunset colors, and a distant city skyline is visible under the twilight sky.

Local Liveability

Good quality of life locally

Safe, clean streets

Lack of Pollution & Congestion

Improvement of Community Health

The City

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I'm Killing
The Earth!

The City

Pollution

Congestion

Fuel Costs

Air Quality

Movement

Conflict



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Pollution

No pollutants at point of use
Powers stations – Scrubbers!
Local Power Generation
Solar panel generation technology
etc.,
Municipal Buildings - Karlsruhe



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Congestion



Trams reduce congestion

Attractive alternative compared to other modes

Stimulate Pedestrian Footfalls

Modal switch – 27%+

Passengers carried 2005/6 169.2 million

“Light Rail carried 3% + of all UK public transport compared to Network Rail share of 17%”

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Climate Change

Pollution



Stern Review (2006)

Eddington Report (2006)

Intergovernmental Panel on Climate Change

IPCC 2007 recently awarded jointly,

The Nobel Peace Award.

Road transport is a significant contributor of green house gases - 26%+

Electrically driven – no pollution at point of use

Renewable & green energy generation – wind, hydro, solar etc.,

An aerial photograph of a city, likely Nottingham, showing a road that curves through the urban landscape. The image is slightly blurred and has a hazy, overcast atmosphere, suggesting air pollution or a misty day. The text is overlaid on this background.

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Pollution & Congestion

Fuel Costs

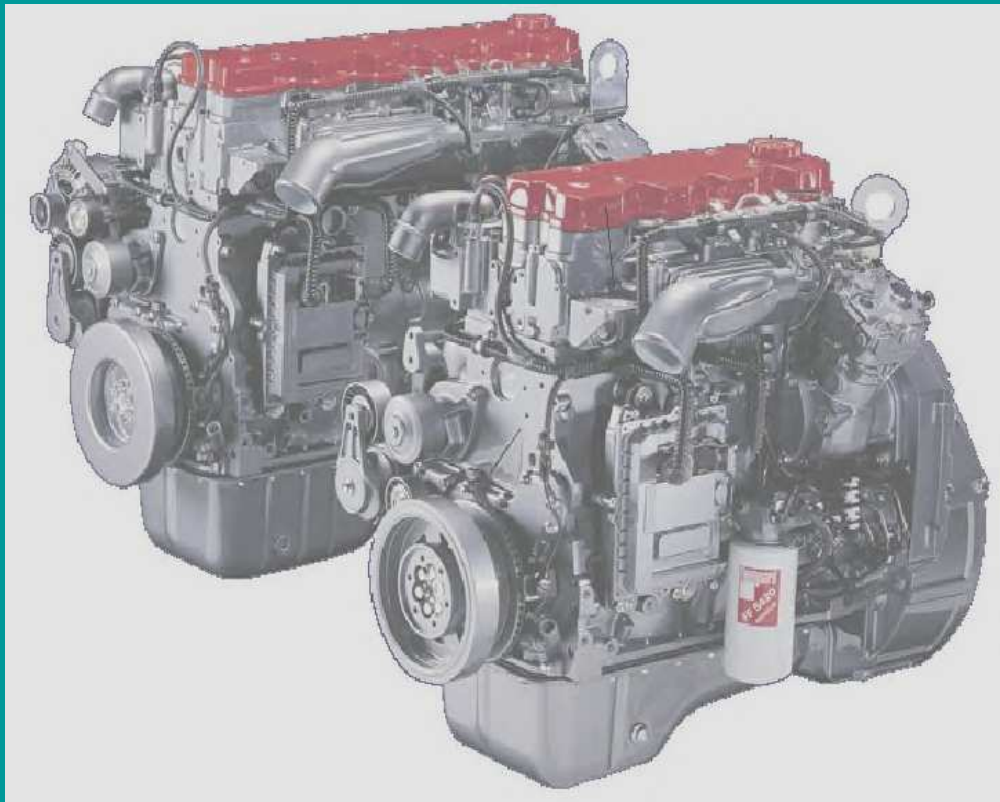
Diminishing Fossil Fuels

3rd World Demands

Conflict

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Health Consequences



Transport related emissions.

The internal combustion engine is
the main emitter of
Nox & Sox in the urban area.

Euro 4/5 engines are a help
but not a solution.

**Catalysts, scrubbers, low sulphur,
bio-fuels** are only temporary.

UK has one of the highest
respiratory deaths in **E.U.**

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Health Consequences



***The Individual Cost
(The Young, Old & Infirm)***

Cost to the Nation

More people die from respiratory disease
than coronary heart disease

153,000 dead in 1999.

25 % to 40% due to Tail Pipe emissions
(38,250 to 61,200 deaths)

38 million GP consultation

Primary Care for respiratory disease across
the UK costs £647.5 million

Hospital Inpatient care costs £1,062.2
million

Hospital day case care costs £18.2 million.

Hospital outpatient care costs £40.7 million

2,800,000 bed days per year used for
treatment alone

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Health Consequences of Pollution & Congestion



Health evidence

Transport related emissions

Environmental impacts

(Inc climate change)

Health impacts

(Individual and resources/costs)

**Death rates nearly twice the
E.U. Average.**

**One in four die of respiratory
illness.**

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Benefits of Line 2

Reducing the immediate pollution

Year on year savings to health and other costs

Release funding for other projects etc.,

Improves liveability of the immediate & surrounding area

House values increase after construction

A feeling of security, anti social behaviour decreases

Can be designed in !

Trams are a generational system – a moral responsibility?

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Pollution, Fuel Costs & Benefits

Air Quality

No pollutants at point of use
Powers stations – Scrubbers!
Local Power Generation

Noise

Almost silent running –
urban area
Very quiet at low speed
Decibel readings less than
82db



Fuel Cost

Secure UK Based, Green Alternatives
Major Co2 reduction

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What Are the Benefits of Line 2?

A planned & controlled transport mode

Enhancement of people movement

Reduces congestion

Improves the ambience & air quality

Regeneration

Part of a Network

Political statement – not easily broken

Investment infrastructure statement



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What Are the Benefits of line 2



Trams & Pedestrians mix

Pedestrian areas & streets

Street running

Access and increased footfalls

Tram stop catchments house values

Additional benefits

Summary & Conclusions

Responsibility to following generations

Pollution, Congestion & Climate Change

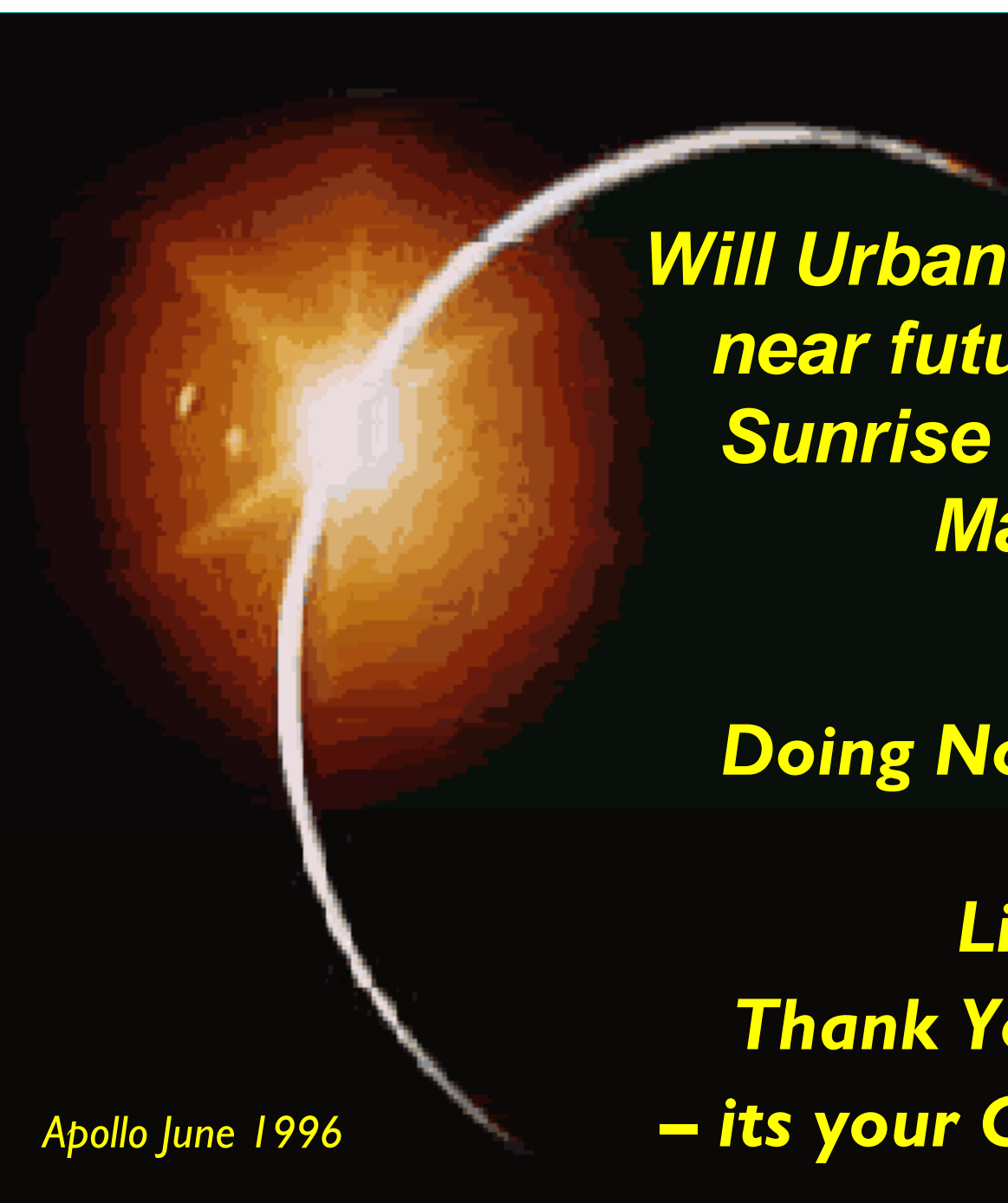
Government attitude

Main urban tool for modal switch

Health issue cannot be ignored

Future prosperity is movement dependant

Freedom of movement = democracy



***Will Urban Transport in the
near future make this a
Sunrise or a Sunset for
Mankind ?***

***Doing Nothing is not an
Option***

Line 2 is !

***Thank You for listening
– its your City, your World !***

Apollo June 1996