

**Smart City**  
MISSION TRANSFORM-NATION



# **Bilbao's Transformation**

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New Delhi, February 2016



## Structure of the presentation

- Bilbao's evolution
- Keys to the transformation
- Some questions for Smart Cities in India

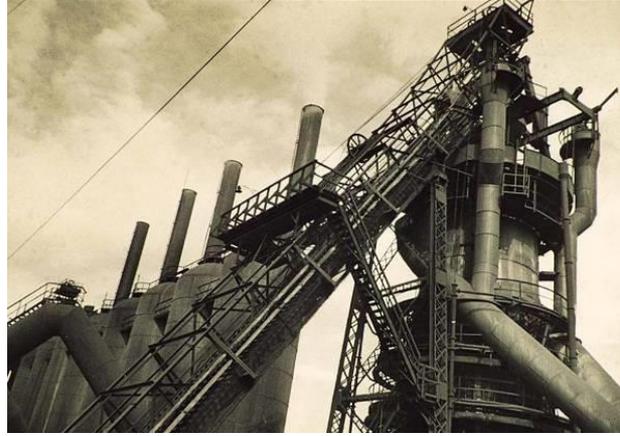
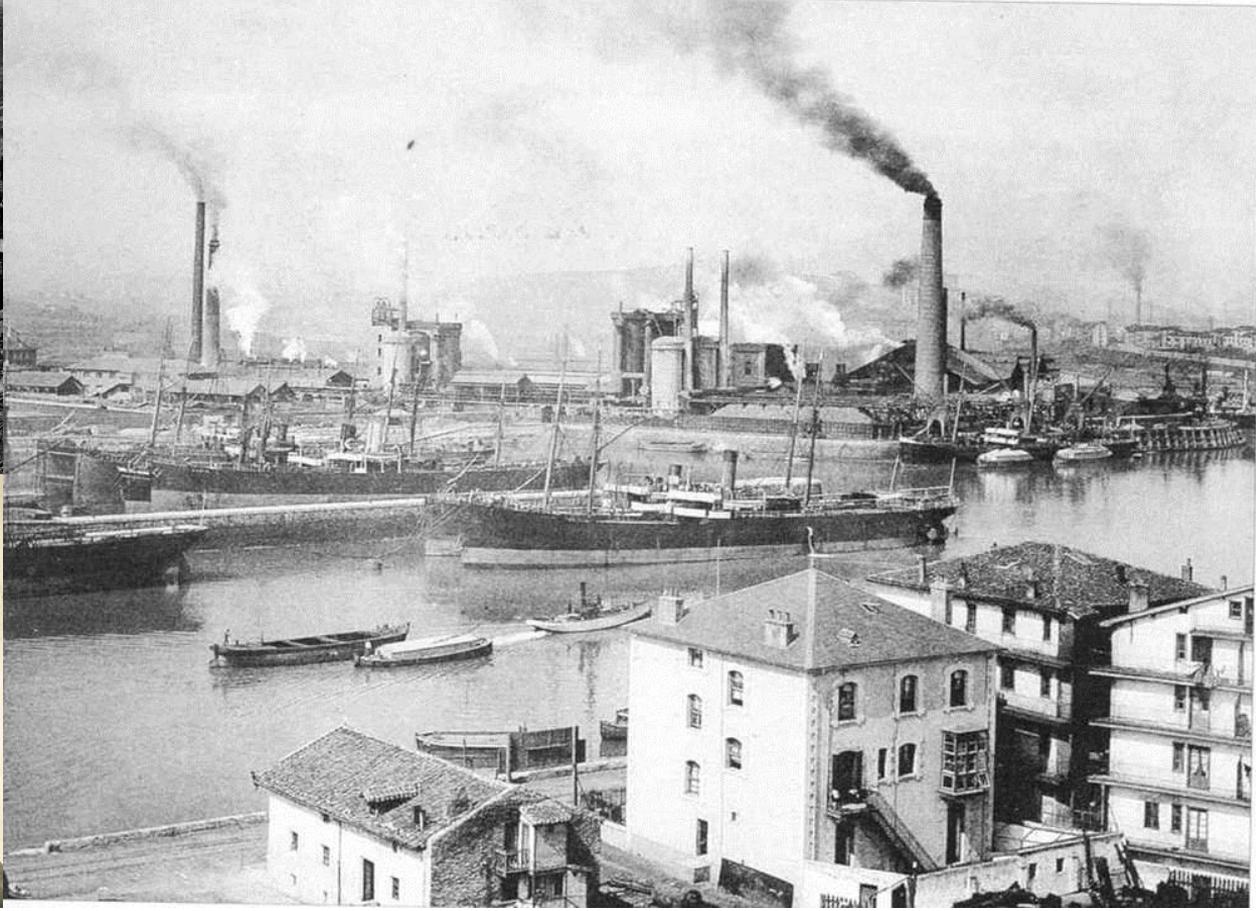


# Trading City– Navigable River as a Port





## Industrial City Along the River





## Crisis and Decay





## Polution Legacy





## The 1983 Floods





# Terrorism





# The Relaunch – Recovering existing assets





## Outer Harbour to liberate river edges



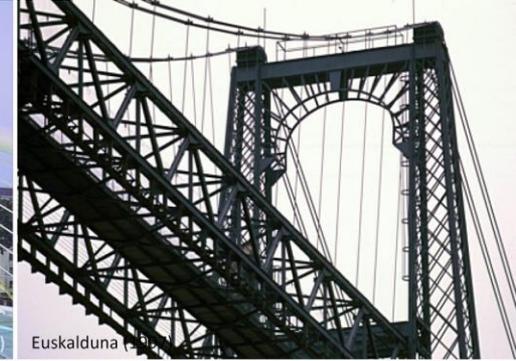


# A Clean River





## Improving river edges and connectivity



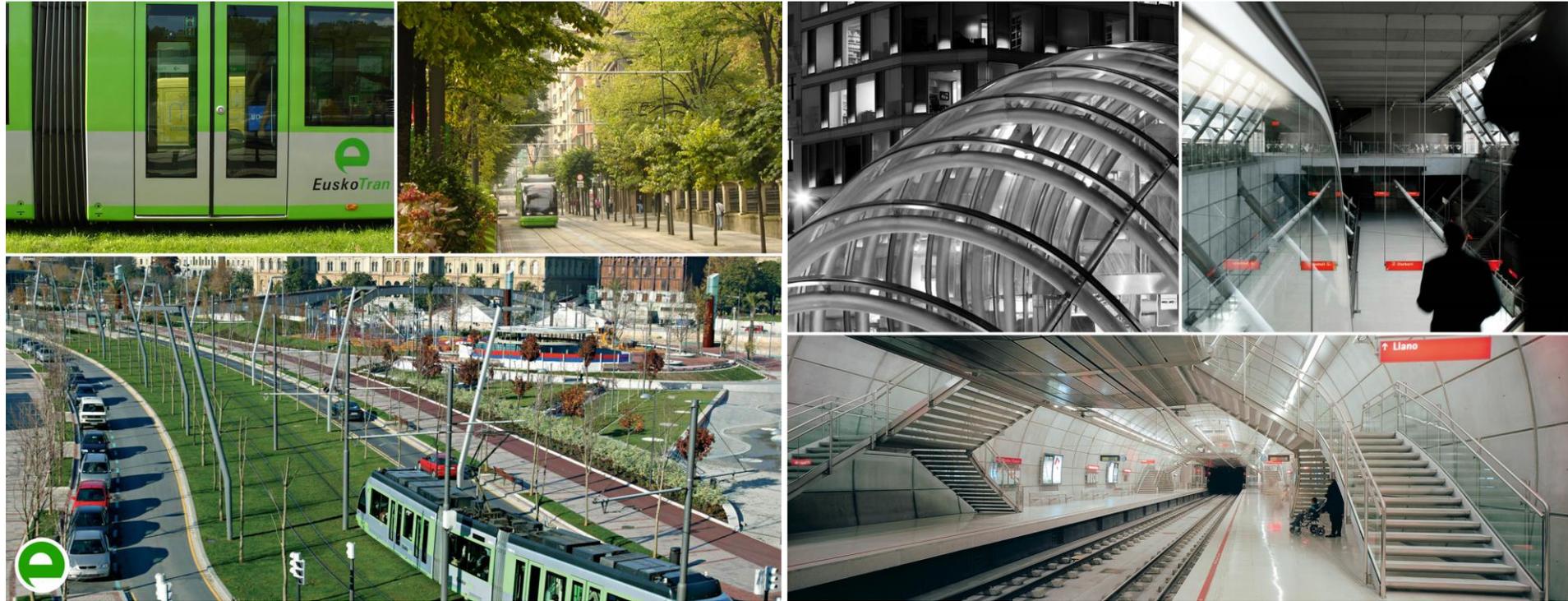


## New urban districts in recuperated spaces





# Public Transport Infrastructure





## New Airport



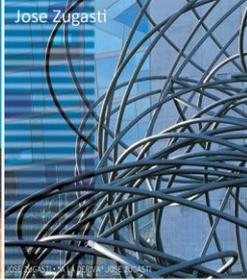


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# A City of Art



Angel Galarza



Jose Zugasti



Salvador Dalí



Mikel Navarro



Eduardo Chillida



Carlos Solano



Jorge Oteiza





# New Architecture



Hotel Hesperia Campo Volatin



Gran Hotel Domine



Hotel Melia



Hotel Domine



Hotel Melia





## Keys to the Transformation

- The **crisis** as an opportunity
- A **strategic plan** – a shared City project
- Substantial and **sustained investment** (>10 bn \$ in 25 years)
- A tool for Public Regeneration – BILBAO Ría 2000



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# BILBAO Ría 2000





And finally... some good luck!





## Challenging Questions for Smart Cities in India

- How much does your City **cost**?
- What **return** do you get on that investment?
- Need for **cost benefit analysis** to prioritise investment



## Example: do you think you have a mobility problem?

- The **design of the city** dictates mobility patterns
- **Compact Urban Form** as a cost effective investment:
  - Reduces demand for **mobility** and costly infrastructure
  - Improves **quality of urban life** and opportunities
  - Reduces **social** and **environmental** impacts
  - At no extra cost



# Transformation is possible

THANK YOU

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